

SOUTHERN ROCK & AGGREGATE MINING COMPANY

**Re 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**

Phone : +91 99954 07570

E- Mail: southernrocks999@gmail.com

Date : 05-05-2021

To

- 1. The Regional Director,
MoEF Regional Office, South Zone,
Kendriya Sadan, 4th Floor, E&F Wing II Block,
Koramangala, Bangalore- 560 034**
- 2. The Chairman/The Director,
DoECC & Secretary SEAC Kerala,
Fourth Floor, KSRTC Building
Thampanoor,
Thiruvananthapuram,
Kerala- 695001**

Sub: Compliance Report –(October 2020 - March 2021).

**Quarry Project at Re Sy. No. 1019/3, 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**

Ref: File Number – order E.C. No. 285/SEIAA/KL/1362/2014. dtd.05.12.2014

Respected Sir,

Our Quarry Project was accorded with Environmental Clearance with order no. **E.C. No. 285/SEIAA/KL/1362/2014. dtd.05.12.2014.** The Compliance Report (**October 2020 - March 2021**) to Specific and General Conditions of Environmental Clearance is enclosed.

Thanking you,

Yours Faithfully,

T Mathew Abraham

COMPLIANCE REPORT

ON

THE CONDITIONS

OF

ENVIRONMENTAL CLEARANCE ORDER

E.C. No. 285/SEIAA/KL/1362/2014. dated.05.12.2014

By

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

(SEIAA)

FOR

SOUTHERN ROCK & AGGREGATE MINING

COMPANY

IN

RE SY.NO 1019/3, 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

OCTOBER 2020 - MARCH 2021

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Chapter 1

INTRODUCTION

Southern rock & aggregate mining company is a quarry project accorded with environmental clearance number: **285/SEIAA/KL/1362/2014** by State Environmental Impact Assessment Authority on **05.12.2014**. Six monthly compliance reports to the conditions of the environmental clearance are to be submitted as part of compliance. The compliance report to the specific and general conditions of the environmental clearance for the period of October 2020 - March 2021 is being submitted.

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

Project Location:

Re Sy. No. 1019/3, 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 proposed project site falls within:

Latitude(N): 10°44'02.9" N to 10°44'10.8" N.

Longitude(E): 76°17'38.2" E to 76°34'53.4" E.

The quarry is located 3.1 KM E of Vallathol Nagar Railway Station and 2.9 KM E of State Highway 22 to join at Cheruthuruthy, Trissur Dt., Kerala

Project category:

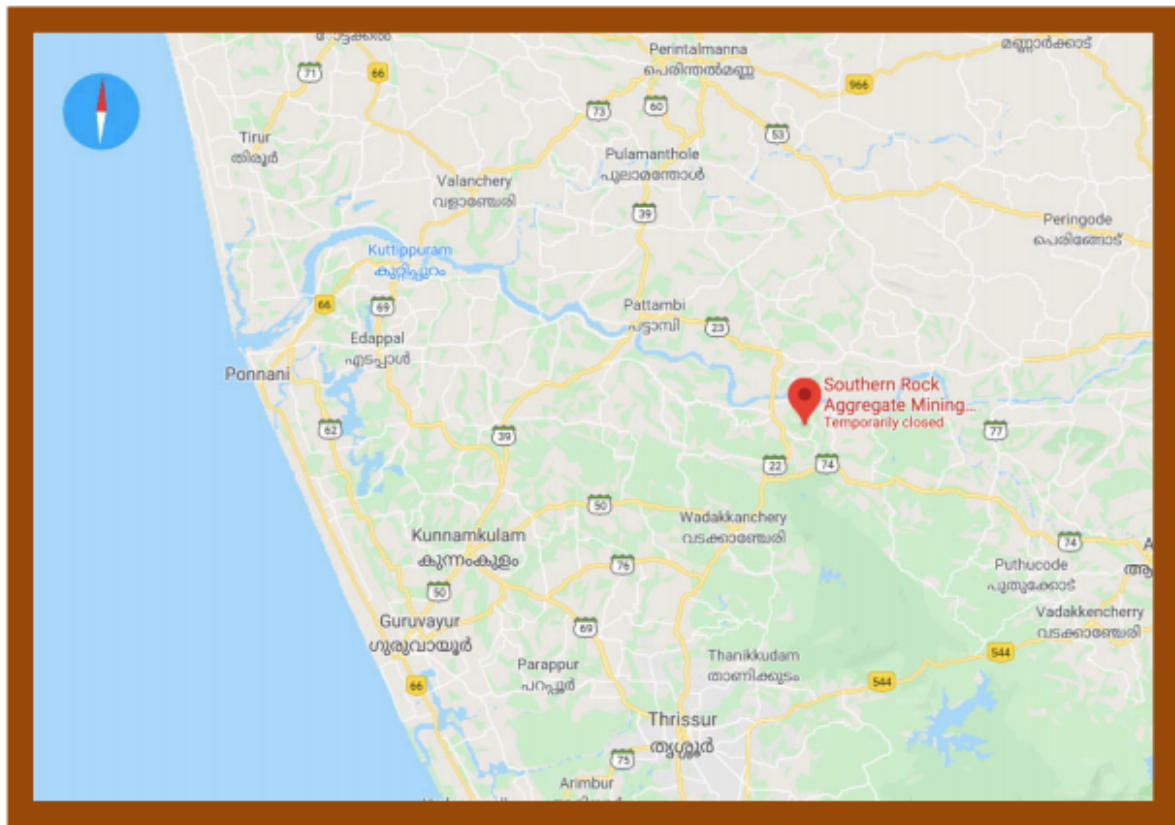
The project comes under the Category B, Activity 1(a), (i) of Schedule of EIA Notification 2006 and subsequent amendments.it is further categorized as Category B2.

Project extent and activity:

The project is for quarrying of 3,00,000 MTA of building stone from an area of 7.800hectares of land located as specified above.

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.



Location of Quarry on Google Maps



View of the quarry on Google Earth

Chapter 2

GENERAL CONDITIONS

CONDITION 1

Rain water harvesting facility should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.

COMPLIANCE:

The runoff water during rain is collected in an earlier mined pit and it is used irrigation of plantations, water sprinkling of road and for other non-drinking purposes. For drinking and other purposes open well water and a water tank is used. Rain water harvesting to collect and utilize the entire water falling in the land area is provided. Photographs attached in Photo no. 4.

CONDITION 2

Environment monitoring cell as agreed under the affidavit filed by the proponent should be formed and made functional.

COMPLIANCE:

An environmental monitoring cell is formed with Mr. T Mathew Abraham (Proprietor of the Company) as head of the monitoring cell and made functional. Meeting of monitoring cell is arranged quarterly and discussion on the status of the compliance of the specific and general conditions contained in the Environmental clearance order are carried out. The details of the monitoring cell members are given below

Sl No.	Post	Name
1	Head of the monitoring cell (Proprietor of the Company)	Mr. T. Mathew Abraham.
2	Head in charge(Environment)	Mr. Prince Abraham
3	Environmental Officer	Mrs. Reya Prince
4	Name of the environmental officer in charge at Site	Mr. Mijo P.S.
5	Name of the environmental consultant	Poluchem Laboratories (P) Ltd.

6	Address of Environmental laboratory	Poluchem Laboratories (P) Ltd., Pallath Building, North Kalamassery P.O., Ernakulam- 683104
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CONDITION 3

Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, inclusive of approach road and internal roads.

COMPLIANCE:

Trees are almost covered on both sides of the haul road and the parking areas. The photos showing avenue trees are shown in Photograph no 5. The area without vegetation is planted by suitable vegetation. The list of some plants and trees along the sides of the road and the parking areas are listed below. The photos of vegetation are provided in Photos 10 and 11.

Sl No.	Scientific Name	Common Name	Family
1	<i>Hevea Brasiliensis</i>	Rubbber	Euphorbiaceae
2	<i>Artocarpus heterophyll us</i>	Jackfruit tree	Moraceae
3	<i>Mangifera indica L</i>	Mango tree/Mavu	Anacardiceae
4	<i>Cocus nucefera</i>	Thengu	Arecaceae

CONDITION 4

Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.

COMPLIANCE:

Solar Energy device will be installed in the project area shortly.

CONDITION 5

Sprinklers shall be installed and used in the project site to contain dust emissions.

COMPLIANCE:

Fixed Water Sprinkling System are installed along the main haul road to suppress dust generated during stone transportation. The road systems of the project site are periodically watered by sprinkler system installed in tipper lorry and through a water tank installed in the site. Photographs are attached in Photo no. 12

CONDITION 6

Eco restoration including the mine closure plan shall be done at the cost of the project proponent.

COMPLIANCE:

Eco restoration including the mine closure plan will be done at our own cost. As a beginning, we are maintaining the overburden and top soil in a selected area for further reclamation process.

CONDITION 7

At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining should be reclaimed with stacked dumping and overburden and planted with indigenous plant species that are eco-friendly, if no other specific condition on reclamation of pit is stipulated in the E.C.

COMPLIANCE

At the end of the mining activities, 10 percent of the pit area will be retained as water storage area and the remaining will be reclaimed with staked dumping and overburden. Now the top soil and the overburden are stored in a particular area for reclamation process.

CONDITION 8

Corporate Social Responsibility (CER) agreed upon by the proponent should be implemented.

COMPLIANCE:

Company earmarked amounts for CER components as per the undertaking provided. The company spending amount earmarked for CER components for different social activities such as donations to health, treatment etc.

The CER activities and various expenses are attached as Photos 14,15 and Annexure 10.

CONDITION 9

The lease area shall be fenced off with barbed wires to a minimum height of 4ft amend, before starting of mining. All the boundary indicators (board, stores, markings, etc) shall be protected at all time and shall be conspicuous.

COMPLIANCE:

Barbed metal wire fencing is provided around the mining area. Photographs attached as **Photograph No. 1 & 2**

CONDITION 10

Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.

COMPLIANCE:

Warning alarms are provided at the time of blasting. These have been installed as per stipulations of explosives department and Directorate General of Mines Safety. It is ensured that no person shall enter the premises at this time.

Time of Blasting : The blasting will be carried out during the day time from 09.30 am to 10.00 am, 1 pm to 1.30 pm and 4:30 pm to 5:00 pm

CONDITION 11

Control measures on noise and vibration prescribed by KSPCB should be implemented.

COMPLIANCE:

The dust and sound levels were monitored through an environmental laboratory during the quarry in operation and the monitored results are well within the standards applicable. The lab reports are shown in Annexure 8

CONDITION 12

Quarrying activities should be limited to day time as per KSPCB guidelines.

COMPLIANCE:

Under Compliance.

CONDITION 13

Blasting should be done in a controlled manner as specified by the regulation of explosives department or any other concerned agency.

COMPLIANCE:

Drilling and Blasting is done in a controlled manner as specified by the Controller of explosives and by the Metalliferous Mines Regulations and the circulars issued by the DGMS. A competent person, holding the Mining mate certificate of Competency is appointed to supervise and carry out blasting activities.

CONDITION 14

A licensed person should supervise/ control the blasting operation.

COMPLIANCE:

Blasting is done and supervised in a controlled manner as specified by the Mine mate, holding the Mining mate certificate of Competency and is assisted by a Blaster certificate holder to carry out blasting activities. The copy of mining mate's certificate is attached in annexure 5

CONDITION 15

Access roads to the quarry shall be tarred to contain dust emission, that may be arise during transportation of materials.

COMPLIANCE:

Dust liberation and emission is contained frequent wetting of roads by sprinkling water. Tarring would be complied with to further augment suppression of dust. The tarring work is already completed

CONDITION 16

Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan / specific conditions.

COMPLIANCE:

As suggested overburden excavated from the quarry will be dumped separately at lower parts and is now utilized in spreading over reclaimed areas for plantation. The over burden is now utilized for laying internal haul road and will form base in reclamation/plantation. Precautions will be taken to limit the height of the topsoil dump from 4 to 5 meters in order to preserve its

fertility and shelf life. It will be suitably protected from soil erosion and infertility by constructing a retaining wall at the foot wall side and by planting fodder grass and leguminous plants during temporary storage.

- Gradation of dump shall be done automatically as coarser materials go to the bottom and finer at the top and therefore drain of rain water flow freely to the bottom without endangering the stability of dump.
- Stabilization of dump with top soil and tree plantation shall make the dump more stable on long run.
- 1 m height parapet shall be constructed for dumps more than 6m height along the toe to prevent and control wash out from dumps entering into natural system through rain water.
- Garland drainage around dump shall prevent under wash of dump by hydrostatic pressure to be developed by surface water and control wash outs and collapse.
- Dump shall be terraced for every 5m height and stabilized as above.

CONDITION 17

Height of the benches should not exceed 5m and width should not be less than 5m, if there is no mention in the mining plan / specific conditions.

COMPLIANCE:

Under Compliance.

CONDITION 18

Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.

COMPLIANCE:

Maximum charge per delay will always be less than 10kg to limit the PPV levels. Controlled blasting is practiced to control fly rock. Mats to reduce fly rock during blasting operations will be introduced shortly.

CONDITION 19

Maximum depth of mining from general ground level at site shall not exceed 10 meters.

COMPLIANCE:

Presently the Mining depth is well above the stipulated level and it will be maintained as well.

CONDITION 20

No mining operations should be carried out at places having a slope greater than 45 degrees.

COMPLIANCE:

Under compliance.

CONDITION 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.

COMPLIANCE:

Sound levels are periodically monitored by accredited agencies. If there is any increase in the permissible sound level, we will take necessary action to reduce the same. To reduce the propagation of noise arising out during the quarrying operation, the trees and plants are contributing a major role.

CONDITION 22

The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.

COMPLIANCE:

The workers on the site are provided with protective equipment such as helmets, ear muffs etc.

CONDITION 23

Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.

COMPLIANCE:

The construction of garland drains in the project area is under process.

CONDITION 24

The transportation of minerals should be done in covered trucks to contain dust emissions.

COMPLIANCE:

The transportation of minerals is carried out only in covered trucks. Photos attached in photograph no. 8

CONDITION 25

The proponent should plant trees at least 5 times of the loss that has occurred while clearing the land for the project.

COMPLIANCE:

Would be complied

CONDITION 26

Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.

COMPLIANCE:

Company will make arrangements shortly to dispose off spent oil as per Hazardous Waste (Management & Handling) Rules, 1989 and 2003.

CONDITION 27

Explosives should be stored in magazines in isolated place specified and approved by the explosives department.

COMPLIANCE:

Explosives are stored in magazines in isolated place specified and approved by the explosives department. The copy of Explosive License is attached as **Annexure 3**

CONDITION 28

A minimum buffer distance of 100 meters from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.

COMPLIANCE:

As per the distance criteria of KSPCB no residences, public roads, rivers, worship places are nearby the quarry within 100 Meters.

CONDITION 29

100 m buffer distance should be maintained from forest boundaries.

COMPLIANCE:

No forest boundaries around 100m distance from the quarry.

CONDITION 30

Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity.

COMPLIANCE:

Consent from KSPCB has been obtained and the copy of the same is provided at **Annexure No. 1.**

CONDITION 31

All other statutory clearances should be obtained, as applicable, by the project proponent from the respective competent authorities including that for blasting and storage of explosives.

COMPLIANCE:

All other statutory clearances have been obtained by the project proponent, such as Kerala Pollution Control Board CTO and Explosive License. The copies of the same are provided at **Annexure No. 1, 3** respectively.

CONDITION 32

In case of any change(s) in the scope of the project, the project would require a fresh appraisal by this authority.

COMPLIANCE:

Would be complied

CONDITION 33

The authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the Environmental Clearance under the provisions of the Environmental (Protection) Act, 1986, to ensure effective

implementation of the suggested safeguard measures in a time bound and satisfactory manner.

COMPLIANCE:

Understood

CONDITION 34

The stipulations by statutory authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006

COMPLIANCE:

Would be complied

CONDITION 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 Kerala and may also be seen on the website of the authority at www.environmentalclearance.nic.in 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.

COMPLIANCE:

The project proponent has advertised in two local newspapers widely circulated in the region, one of which is in the vernacular language informing that the project has been accorded EC and copies of clearance letters are available with the Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website. The copy of the advertisement is shown in Annexure 2.

CONDITION 36

A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat. The EC shall also be put on the website of the company by the proponent.

COMPLIANCE:

The copy of the clearance letter was submitted to the concerned Grama Panchayat and the acknowledgment is received. The D&O Licence copy is provided **in Annexure No. 4.**

CONDITION 37

The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by email) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MOEF, Govt. of India and also to the Directorate of Environment and Climate Change, Govt. of Kerala.

COMPLIANCE:

Would be complied

CONDITION 38

The details of EC should be prominently displayed in a metallic board of 3 Ft x 3 Ft with green background and yellow letters of Times New Roman font of size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public.

COMPLIANCE:

The details of EC are prominently displayed in a metallic board of 3Ft x 3Ft with green background and yellow letters of Times New Roman font of size of not less than 40. The photograph of the same is provided **in Photo No. 7**

CONDITION 39

The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance (proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.

COMPLIANCE:

Notarized affidavit has been submitted stating that all the conditions in the EC will be scrupulously followed.

CONDITION 40

The above conditions shall prevail not withstanding anything to the contrary, in consistent, or simplified contained in any other permit, licence on consent given by any other authority for the same project.

COMPLIANCE:

The conditions of SEIAA are strictly followed.

Chapter 3

SPECIFIC CONDITIONS

CONDITION 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.

COMPLIANCE:

The work is nearing completion. The haulage road and development of reducing the bench height and formation of benches are being planned accordingly.

CONDITION 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.

COMPLIANCE:

The top soil and the overburden are now stored in designated areas for reclamation process.

CONDITION 3

Mechanism to channelize the water, arrest soil movement, desiltation 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.

COMPLIANCE:

The directions are now scrupulously followed. Trenches are formed around the mining area and slope towards the RWH for collection of water.

CONDITION 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.

COMPLIANCE:

The stockyard is near completion and the finished products will be stored in a closed and secured place shortly.

CONDITION 5

Vegetative covering must be provided in the debris mantle slopes where quarry operation is not planned.

COMPLIANCE:

Vegetative covering is now being provided. Saplings are now being planted at various debris mantle slopes in which quarry operation is not planned.

The list of vegetation now being planned are as follows.

Sl No.	Scientific Name	Common Name	Family
1	<i>Hevea Brasiliensis</i>	Rubbber	Euphorbiaceae
2	<i>Artocarpus heterophyll us</i>	Jackfruit tree	Moraceae
3	<i>Mangifera indica L</i>	Mango tree/Mavu	Anacardiceae
4	<i>Cocus nucefera</i>	Thengu	Arecaceae

CONDITION 6

100m buffer distance must be provided from the dwelling units.

COMPLIANCE:

The directions are now scrupulously followed.

Chapter 4

Future Plan of Actions

- 1) Topographic Survey of the present workings of the mine.
- 2) Renewal of Panchayat, KSPCB Certificates.
- 3) Re- Estimation of Reserves.
- 4) Provide Medical camp to the employees.

SITE PHOTOGRAPHS

PHOTO: NO. 1



FENCING WITH BARBED METAL WIRE

PHOTO: NO. 2



PHOTOGRAPH OF FENCING & BOUNDARY POINTS

PHOTO NO: 3



OB STOCK YARD WITH INTERCALATED WASTE

PHOTO NO: 4



RAINWATER HARVESTING PIT

PHOTO NO: 5



AVENUE TREES PLANTED ALONG EITHER SIDE OF TARRED ROAD

PHOTO NO: 6



NOTICE BOARDS AT QUARRY

PHOTO NO: 7

SOUTHERN ROCK & AGGREGATE MINING COMPANY

Painkulam P.O, Cheruthuruthy, Thirssur District
email : southernrocks999@gmail.com
Ph: 04884 261563

Sl No	License	Number	Issue Date	Validity
1	Environmental Clearance	No.285/SEIAA/KL/1362/2014	4/5/2014	20 Years
2	Mining Lease Area (7.8 Hectares)	No.830/2014-15/1794/M3/2015	3/7/2015	12 Years
3	G S T	32ACUPT1245L1Z5	7/1/2017	
4	Pollution Control Board			
	① Quarry	No.PCB/DO/TSR/R4/ICO/804/2017	6/6/2017	3 years
	② Crusher	No.PCB/DO/TSR/R4/ICO/804/2018	8/12/2018	5 Years
5	Explosive Licence	No.E/SC/KL/22/867(E40147)	1/28/2015	5 Years
6	Panchayat Licence	C3-C3/846/2019/2019-20-114	4/9/2019	5 Years
7	Royalty Compounded	No.2808/M3/2019	3/23/2019	Every Year
8	Mines Manager (PRINCE ABRAHAM)			

NOTICE BOARD THAT SHOWS EC AT THE QUARRY SITE

PHOTO NO: 8



COVERED TRUCKS FOR TRANSFER OF MATERIALS

PHOTO NO: 9



SITE CANTEEN

PHOTO NO: 10



PHOTOGRAPHS SHOWING SAPLINGS TO BE PLANTED AT SITE

PHOTO NO: 11



PHOTOGRAPHS SHOWING VEGETATION AND AFFORESTATION

PHOTO NO: 12



SPRINKLERS INSTALLED AT SITE

PHOTO NO: 13



FORMATION OF BENCHES

PHOTO NO: 14



HAULAGE ROAD INSIDE MINE

PHOTO NO: 15



OB DUMP YARD AND FENCING


PHOTO NO: 16



**FORMATION OF DRAINS TOWARDS SETTLING POND OUTSIDE THE LEASE
BOUNDARY**

ANNEXURES

ANNEXURE 1



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/TSR/IC/206/07
Date of issue :06/06/2017

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/DO/TSR/R4/ICO/804/2017

Ref : Previous Consent No:PCB/DO/TSR/R3/ICO/804/2016 dated 04.03.2016

The 'Integrated Consent to Operate' issued as per reference above to M/s SOUTHERN ROCK & AGGREGATE MINING COMPANY(QUARRY) PAINKULAM P.O. , CHERUTHURUTHY, THRISSUR- 679531 is hereby renewed up to 30/06/2020 and issued to M/s SOUTHERN ROCK & AGGREGATE MINING COMPANY(QUARRY) 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	Last date of consent renewal	31.03.2020

II. Stack Details

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

III. CONDITIONS

3.1 The PM10 in ambient air at the boundary shall not exceed 100 µg/m³.
 3.2 The PM2.5 in ambient air at the boundary shall not exceed 60 µg/m³.
 3.3 The sound level (Leq) at 1m outside the boundary of the site should not exceed the ambient noise standard applicable to the adjoining areas.
 3.4 Suspended particulate matter at the boundary of the premises shall not exceed the limit applicable to that area as per the National Ambient Air Quality Standards.
 3.5 The consent issued from the Board shall be valid only for a period when all other statutory or necessary

Page 1

KSPCB CERTIFICATE

clearance from other concerned authorities are valid.

3.6 The renewal application shall be submitted on or before 31.03.2020. Late application shall be accepted only with fine as applicable.

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

DATE :06/06/2017

SIGNATURE & SEAL OF ISSUING AUTHORITY

P.K. BABURAJAN
ENVIRONMENTAL ENGINEER
KERALA STATE POLLUTION CONTROL BOARD
DISTRICT OFFICE, THRISSUR

OFFICE SEAL

To

Page 2

KSPCB CERTIFICATE(CONTD.)



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/TSR/IC/3106/2011

Date of issue :04/03/2016

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/DO/TSR/R3/ICO/804/2016

Ref : PCB/DO/TSR/R2/ICO/804/2012

The 'Integrated Consent to Operate' issued as per reference above to M/s SOUTHERN ROCK & AGGREGATE MINING COMPANY(QUARRY),PAINKULAM P.O. , CHERUTHURUTHY, THRISSUR is hereby renewed up to 30/06/2017 and issued to M/s SOUTHERN ROCK & AGGREGATE MINING COMPANY(QUARRY),PAINKULAM P.O. , CHERUTHURUTHY, THRISSUR. 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	30/06/2017
2	Survey number	1027P,1028P,1029P,1030P
3	Fee remitted	22,960/-
4	Annual fee	6560/-
5	Capital Investment(Rs in Lakhs)	48


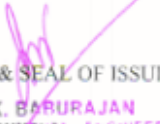
II. Stack Details

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

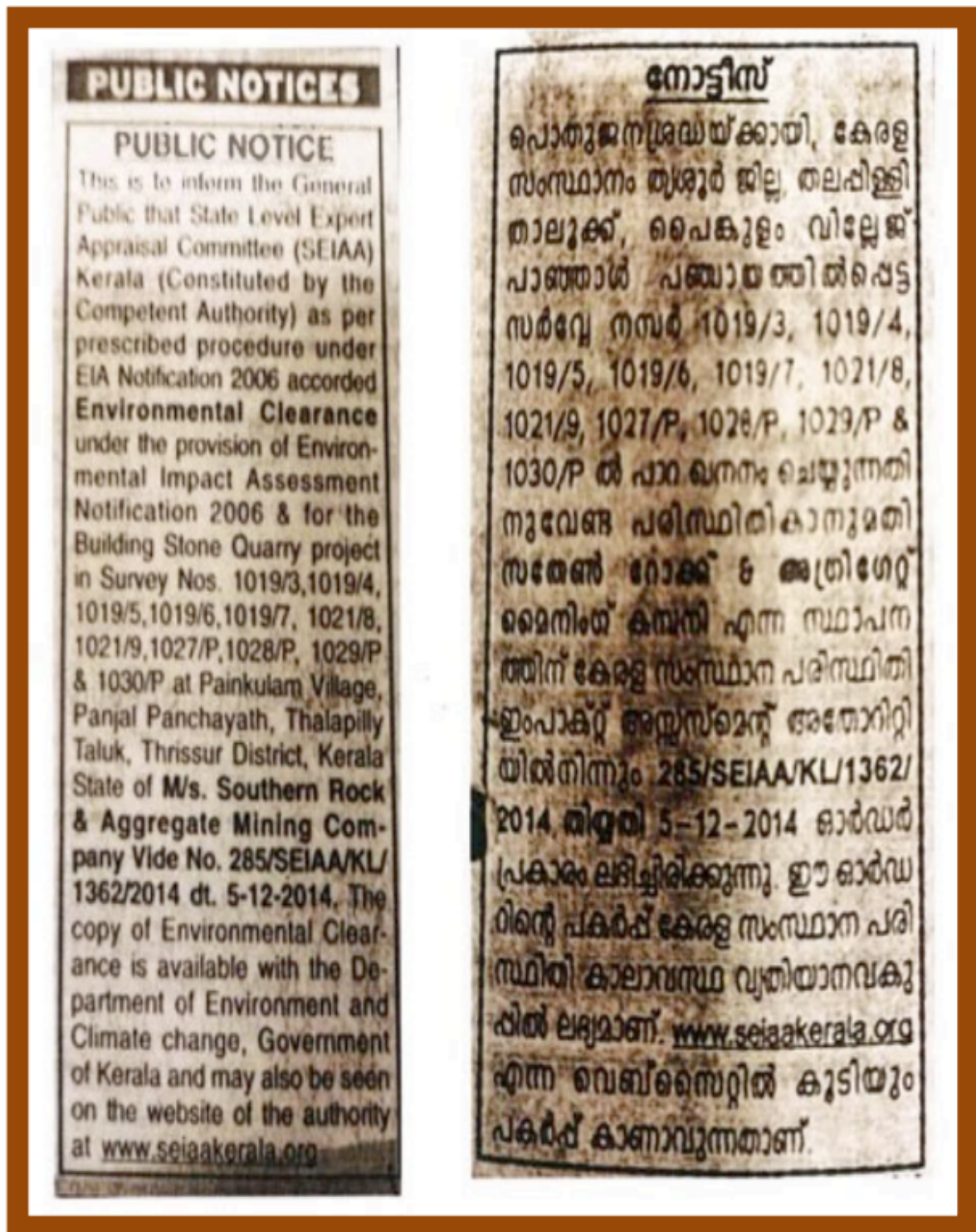
- 3.1 The PM₁₀ in ambient air at the boundary shall not exceed 100 µg/m³.
- 3.2 The PM_{2.5} in ambient air at the boundary shall not exceed 60 µg/m³.
- 3.3 The sound level (Leq) at 1m outside the boundary of the site should not exceed the ambient noise standard applicable to the adjoining areas.
- 3.4 Suspended particulate matter at the boundary of the premises shall not exceed the limit applicable to that

KSPCB CERTIFICATE(CONTD.)

	
<p>area as per the National Ambient Air Quality Standards.</p> <p>3.5 The consent issued from the Board shall be valid only for a period when all other statutory or necessary clearance from other concerned authorities are valid.</p> <p>3.6 The renewal application shall be submitted on or before 31.03.2017. Late application shall be accepted only with fine as applicable.</p>	
<p>All other conditions of the Integrated Consent to Operate issued as per reference above remain unchanged.</p>	
<p>DATE :04/03/2016</p> <p>OFFICE SEAL</p>	<p>SIGNATURE & SEAL OF ISSUING AUTHORITY</p> <p></p> <p>P.K. BABURAJAN ENVIRONMENTAL ENGINEER KERALA STATE POLLUTION CONTROL BOARD DISTRICT OFFICE, THIRUVARUR</p>
<p>To</p>	


KSPCB CERTIFICATE(CONTD.)

ANNEXURE 2



NEWSPAPER ADVERTISEMENT

ANNEXURE 3


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 Kakkunad Dist. Ernakulam Ernakulam 682017
Tele: 2427286 Fax: 2427276
Email: dycc@ernakulam.explosives.gov.in

No E/SC/KI/22/867(E40147) Dated : 28-01-2015

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

Subject: Possession for Use of Explosives from magazine at Survey No(s):1034, Village/Town, Painkulam, Thalappilly taluk, Dist. THRISSUR, State Kerala Licence No.: E/SC/KI/22/867(E40147) granted in Form I.E-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 I.E-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 Painkulam Village, Thriassur 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,

(D C C) Sasi
Deputy Chief Controller of Explosives
D. C. C. 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>]

28-01-2015

EXPLOSIVE LICENSE COPY

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	U/M
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

For Joint Chief Controller of Explosives

South Circle, Chennai
3.9.2007
D. C. S. Painkulam

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

EXPLOSIVE LICENSE COPY(CONTD.)

ANNEXURE 4

114



ലൈസൻസ് നമ്പർ : E-3-E 3-8-46-2019-2019-20 - 114 തീയതി : 09-01-2019

പാതാൾ ഗ്രാമപഞ്ചായത്തിൽനിന്നും

1994ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994ലെ 13, 232, 233, 234, 236 എന്നീ വകുപ്പുകളും അതേ തുടർച്ചയുള്ള ചട്ടങ്ങളും അനുസരിച്ച്

ഷാക്സിംഗ്, സ്റ്റാഫറേഷൻ, സംരംഭങ്ങൾ, മറ്റു സേവനങ്ങൾ എന്നിവയ്ക്കായി നൽകുന്ന

ലൈസൻസ്

ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	ടി.മാത്യു എബ്രഹാം, സരോൺ റോക്ക് & ആഗ്രിമേറ്റ് മൈനിംഗ് കമ്പനി, പൈതൃകം	
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	സരോൺ റോക്ക് & ആഗ്രിമേറ്റ് മൈനിംഗ് കമ്പനി.	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	47 th എച്ച് പിഎഫ് ഉപയോഗിച്ച് ക്വാറി & ക്രഷർ നടത്തുന്നതിന്	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	15 - 432E	
ലൈസൻസ് കാലയളവ്	01-01-2019 മുതൽ 31-03-2024 വരെ	
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	Amount - 23,500 - രൂപ	രസീത് നമ്പർ 110020104637 തീയതി 20-01-2019
	തൊഴിൽക്കരം	1250 - 1250
ലൈസൻസ് അനുവദിക്കുന്നതിനായി പരാമർശിക്കുന്നതിനായി നിരാകരപത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	1. മലിനീകരണനിയന്ത്രണ ബോർഡിൽനിന്നുള്ള അനുമതി ... 19.11.2018 - 2009 - 12.08.2018 2. ജില്ലാ കളക്ടറുടെ ഫീഫ് കൺട്രോളർ ഓഫ് എക്സ്പ്ലോസീവ്സ് അനുവാദപത്രം 3. മൈനിംഗ് & ജിയോളജി വകുപ്പിൽനിന്നുള്ള അനുമതി 4. മന്ത്രി എൻവയൺമെന്റൽ ഇംപാക്ട് അസസ്മെന്റ് അതോറിറ്റിയുടെ അനുമതി 5. പാറ പൊട്ടിക്കുന്ന ആളുടെ റെഗുലേഷ്യം സംബന്ധിച്ച സാക്ഷ്യപത്രം	



(ഓഫീസ് മുദ്ര)


 സെക്രട്ടറി
 പാതാൾ ഗ്രാമപഞ്ചായത്ത്
 SECRETARY
 PUNALUR GRAMPANCHAYATH


D&O LICENCE

ANNEXURE 5

[illegible]

MINING MATE'S CERTIFICATE

ANNEXURE 6



 सन् १९५२-१९५३
 THE MINES ACT 1952
 द्वितीय श्रेणी प्रथम कक्षा सक्षमता प्रमाणपत्र धातुजनक खानों के प्रबंध हेतु
MANAGER'S SECOND CLASS CERTIFICATE OF COMPETENCY
TO MANAGE A METALLIFEROUS MINE
 (धातुजनक खान विनियम, १९६१ के अन्तर्गत)
 (Under the Metalliferous Mines Regulations, 1961)
 (केवल विद्युत चालित खानों के प्रबंध हेतु ही मान्य)
 (Restricted to mines having opencast workings only)

प्रिन्स अब्राहम . टी

जिसकी जन्म तिथि ०९-१०-१९७८ है, विनियम १६ के अन्तर्गत अनुमोदित खान, अभिवर्धिका में खानिक प्रबंध करने पर पथ
 विहित अनुभव की सहायता पर एतद्वारा कक्ष विद्युत चालित धातुजनक खानों के प्रबंध हेतु द्वितीय श्रेणी प्रथम कक्षा
 सक्षमता प्रमाणपत्र प्रदान किया जाता है। यह प्रमाणपत्र ३०-०८-२००२ से प्रभावी समझा जाएगा।

Prince Abraham . T

born on 09th October, 1978 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 30.08.2002




सदस्य
खनन, परीक्षा बोर्ड
Members of the Board of
Mining Examinations.

Signed and Sealed
Date : 19
09 SEP 2002

Prince Abraham
Abraham
अध्यक्ष
खनन परीक्षा बोर्ड
Chairman of the Board of
Mining Examinations.

MANAGER'S SECOND CLASS CERTIFICATE OF COMPETENCY

ANNEXURE 7



നമ്പർ C3-1367/14. പാഞ്ചായത്ത് ഗ്രാമ പഞ്ചായത്ത്


1994 ലെ കേരളാ പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകൾ പ്രകാരവും അതേ തുടർനിയമിച്ച ചട്ടങ്ങളും അനുസരിച്ചു കൊടുത്ത

ലൈസൻസ്

ലൈസൻസുടമസ്ഥന്റെ പേരും മേൽവിലാസവും	ടി. മിത്ത്യാ ഭാഷ്യപിം, നരേന്ദ്രൻ നോർത്ത് & അഗ്നിമേയ്ക് തെമിഷ് ഓഫീസ് തെമിഷ്.
എന്താവശ്യത്തിന് ലൈസൻസ് അനുവദിച്ചു എന്ന്	പാറ വെട്ടാൻ തെമിഷ് തെമിഷ് & തെമിഷ് പാർക്ക് മേൽവിലാസം വിൻഡ്-നാരിന്. 250 KVA.
കെട്ടിടത്തിന്റെ നമ്പരും വാട്സ് നമ്പരും	8/220, 8/221
ലൈസൻസിന്റെ കാലാവധി	2014-2019. 5 Yrs.
ലൈസൻസ് ഫീസ്	20,000 + 20,000 + (2500 per year p.f.)
റിമാർക്സ്	മുൻപ് തന്നെ പ്ലാനിംഗ് ഓഫീസിൽ ചിലിങ്ങിനു നൽകി. Explosive license, Pollution control board consent, Mining & Geology permit എന്നിവ നൽകാൻ മുമ്പ്.

പാഞ്ചായത്ത് ഗ്രാമ പഞ്ചായത്ത്

തീയതി 23/4/14.



പാഞ്ചായത്ത്

23/4/14

Panchayat

LM-34 K / 2000

PANCHAYAT LICENSE

ANNEXURE 8

**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

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/AMB/RT/2370/2021
M/s Southern Rock & Aggregate Mining.Co Painkulam Post Cheruthuruthy, Thrissur	Date of issue:	29/03/2021
	Date of monitoring	22/03/2021 10.00 Hrs to 23/03/2021 10.00 Hrs
	Date of sample received:	24/03/2021
	Date of analysis	24/03/2021
	Monitoring Location	Quarry Owned by M/s Southern Rock & Aggregate Mining .Co Sy.Nos.: 1019/3,1019/4,1019/5,1019/6,1019/7 1021/6,1021/8,1021/9,1027P,1028P,1029P,1030P Village: Painkulam Taluk: Thalappilly District:Thrissur, Kerala.
	Sample description	Ambient air – East Side
	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	49.5 µg/m ³	100 µg/m ³
02	Particulate Matter (PM _{2.5})	CPCB	22.3 µg/m ³	60 µg/m ³
03	Sulphur dioxide	IS 5182 Part 2 2001 RA 2017	4.8 µg/m ³	80 µg/m ³
04	Nitrogen dioxide	IS 5182 Part 06 2006 RA2017	2.7 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

SREEJA RAMESH
QUALITY MANAGER
POLUCHEM LABORATORIES (P) LTD.


POLUCHEM LABORATORIES (P) LTD.
CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY
PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104

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ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

TEST REPORT

Page 01 of 01

Client Name & Address		Certificate No:	PL/RT/SD/2371/2021
M/s Southern Rock & Aggregate Mining.Co Painkulam Post Cheruthuruthy, Thrissur		Date of issue:	29/03/2021
		Date of monitoring	22/03/2021 - 23/03/2021
		Monitoring Location	Quarry Owned by M/s Southern Rock & Aggregate Mining .Co Sy.Nos.: 1019/3,1019/4,1019/5,1019/6,1019/7 1021/6,1021/8,1021/9,1027P,1028P,1029P,1030P Village: Painkulam Taluk: Thalapilly District:Thrissur, Kerala
		Sample Description	Ambient Sound Level -East Side
HOURLY INTERVAL	RESULT	HOURLY INTERVAL	RESULT
06.00 AM-07.00 AM	49.5 dB (A)	11.00 PM-12.00AM	34.2 dB (A)
07.00 AM- 08.00 AM	46.2 dB (A)	12.00 AM-01.00 AM	35.1 dB (A)
08.00 AM- 09.00 AM	47.4 dB (A)	01.00 AM- 02.00 AM	33.1 dB (A)
09.00 AM -10.00 AM	48.5 dB (A)	02.00 AM-03.00 AM	34.7 dB (A)
10.00 AM-11.00 AM	50.1 dB (A)	03.00 AM-04.00 AM	33.5 dB (A)
11.00 AM-12.00 PM	52.6 dB (A)	04.00 AM -05.00 AM	34.9 dB (A)
12.00 PM-01.00 PM	50.2 dB (A)	05.00 AM-06.00AM	33.6 dB (A)
01.00 PM-02.00 PM	51.4 dB (A)		
02.00 PM-03.00 PM	50.6 dB (A)		
03.00 PM-04.00 PM	49.3 dB (A)		
04.00 PM-05.00 PM	45.2 dB (A)		
05.00 PM-06.00 PM	39.5 (A)		
06.00 PM-07.00 PM	38.4 dB (A)		
07.00 PM-08.00 PM	36.2 dB (A)		
08.00 PM-09.00 PM	37.5 dB (A)		
09.00 PM-10.00 PM	36.4 dB (A)		
10.00 PM-11.00 PM	35.3 dB (A)		
		LDay	50.1 dB (A)
		LNight	33.2 dB (A)

 Limits: Industrial Area Day Time-75dB(A),Night Time- 70dB(A),Commercial area Day Time -65 dB(A),Night Time 55dB(A), Residential area Day Time -55 dB(A),Night Time -45dB(A),Silence zone day time-50dB(A),Night time-40dB(A)
 Day Time from 06.00 am to 10.00 pm & Night Time from 10.00 pm to 06.00 am

*End of the Report *

For PoluChem Laboratories (P) Ltd.

Authorized Signatory

SREEJA RAMESH
 QUALITY MANAGER
 POLUCHEM LABORATORIES (P) LTD.

LAB REPORTS (CONTD.)


POLUCHEM LABORATORIES (P) LTD.
CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY
PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104

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ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

TEST REPORT

Ref.No. PL/RT/OW/2372/2021

Name & address of customer

Date of Issue: 29/03/2021

Page 01 of 01

: Quarry Owned by M/s Southern Rock & Aggregate Mining .Co

Painkulam Post, Cheruthurthy , Thrissur

Sy.Nos.: 1019/3,1019/4,1019/5,1019/6,1019/7

1021/6,1021/8,1021/9,1027P,1028P,1029P,1030P

Village: Painkulam

Taluk: Thalappilly

District:Thrissur, Kerala.

: Poluchem Laboratory Sample Collector

: Drinking Water

: Borewell Water- OutSide

: 24/03/2021

: 24/03/2021

: 26/03/2021

Sample drawn by

Sample description

Location of sampling

Date of sample collected

Date of analysis started

Date of completion of analysis

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	6.25	6.5 – 8.5
Total Dissolved Solids	IS 3025 (P) 16 – 1984 RA2017	99 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 – 1983 RA2014	21.3 mg/l	200 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 – 1986 RA2014	17.5 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	25.3 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991 RA2014	9.25 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994 RA2014	4.1 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 – 2003 RA2014	0.26 mg/l	1 mg/l
Sulphate as SO ₄	IS 3025 (P) 24 – 1986 RA2009	10.1 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 -2008 RA 2013	BDL	1.0 mg/l
Zinc as Zn	IS 3025 (P)49 – 1994 RA2014	BDL	5 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
Lead as Pb	IS 3025(P) 47– 1994 RA2014	BDL	0.01 mg/l
Coliforms(MPN/100ml)	IS 1622: 1981 RA 2009	Absent	Absent
Ecoli (Present or Absent/100ml)	IS 1622: 1981 RA 2009	Absent	Absent

Note : BDL – Below Detection Level

For Poluchem Laboratories (P) Ltd.

* End of the report*

Authorized signatory

SREEJA

QUALITY MANAGER

POLUCHEM LABORATORIES (P) LTD.

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


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

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

TEST REPORT

Ref.No. PL/RT/OW/2373/2021

Name & address of customer

Date of Issue: 29/03/2021

Page 01 of 01

: Quarry Owned by M/s Southern Rock & Aggregate Mining .Co

Painkulam Post, Cheruthurthy, Thrissur

Sy.Nos.: 1019/3,1019/4,1019/5,1019/6,1019/7

1021/6,1021/8,1021/9,1027P,1028P,1029P,1030P

Village: Painkulam

Taluk: Thalappilly

District:Thrissur, Kerala.

: Poluchem Laboratory Sample Collector

: Drinking Water

: Openwell Water- OutSide

: 24/03/2021

: 24/03/2021

: 26/03/2021

 Sample drawn by
 Sample description
 Location of sampling
 Date of sample collected
 Date of analysis started
 Date of completion of analysis

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	BDL	1 NTU
pH	IS 3025 (P) 11 – 1983 RA 2017	6.56	6.5 – 8.5
Total Dissolved Solids	IS 3025 (P) 16 – 1984 RA2017	110 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 – 1983 RA2014	26.2 mg/l	200 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 – 1986 RA2014	19.3 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	26.1 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991 RA2014	10.9 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994 RA2014	6.3 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 – 2003 RA2014	0.30 mg/l	1 mg/l
Sulphate as SO ₄	IS 3025 (P) 24 – 1986 RA2009	12.5 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 – 2008 RA 2013	BDL	1.0 mg/l
Zinc as Zn	IS 3025 (P) 49 – 1994 RA2014	BDL	5 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
Lead as Pb	IS 3025 (P) 47 – 1994 RA2014	BDL	0.01 mg/l
Coliforms(MPN/100ml)	IS 1622: 1981 RA 2009	90	Absent
Ecoli (Present or Absent/100ml)	IS 1622: 1981 RA 2009	Absent	Absent

Note : BDL – Below Detection Level

For Poluchem Laboratories (P) Ltd.

Authorized signatory

* 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.

 S. K. RAMESH
 QUALITY MANAGER
 POLUCHEM LABORATORIES (P) LTD.


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

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

TEST REPORT

Client Name & Address M/s Southern Rock & Aggregate Mining Co Painkulam Post Cheruthuruthy, Thrissur	Certificate No:	PL/RT/SO/2374/2021	
	Date of issue:	29/03/2021	
	Date of monitoring	22/03/2021	
	Monitoring Location	Quarry Owned by M/s Southern Rock & Aggregate Mining Co Sy.Nos.: 1019/3,1019/4,1019/5,1019/6,1019/7 1021/6,1021/8,1021/9,1027P,1028P,1029P,1030P Village: Painkulam Taluk: Thalapilly District: Thrissur, Kerala	
	Sample Description	Soil	
Parameter	Test Method	Results	
pH	IS 2720(Part25)-1973	6.51	
Electrical Conductivity	IS 14767:2000RA2016	98 μ S/cm	
Potassium as K	EPA 3050 B	67 mg/kg	
Phosphorus as P	IS 10158 :1982 RA 2014	49 mg/kg	
Nitrogen as N	IS 14684: 1999 RA 2014	99 mg/kg	
Organic Carbon	IS2720(Part 22)-1972	0.56 %	
Calcium	EPA 3050 B	55 mg/kg	
Magnesium	EPA 3050 B	34 mg/kg	
Chloride	UEPA9212	197 mg/kg	
Sulphate	IS 2720 Part27:1977	98 mg/kg	

For Poluchem Laboratories (P) Ltd.

Authorized Signatory.

End of the Report

 JAMESH
 QUALITY MANAGER
 POLUCHEM LABORATORIES (P) LTD.

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.

ANNEXURE 9

Duplicate: 1 575/2015

भारतीय गैर न्यायिक

एक सौ रुपये Rs. 100

The original document has been stamp duly Rs. 764552/- (Rs. Seven lakh Sixty four thousand Five Hundred and Fifty two only) 27th day of March 2015 Sub Registrar S. Sobha Lakshmi

भारत INDIA INDIA NON JUDICIAL

കേരളം കേരल KERALA AM 595984

FORM H
(See rule 43)
QUARRYING LEASE

This deed of lease made on this the 19th March 2015 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 Shri. T. Mathew Abraham, Proprietor, M/s. Southern Rock & Aggregate Mining Company, Vallamkulam P.O, Thiruvalla, Pathanamthitta District, Pin - 689541 aged 67 years son of K.K. Mathew resident of Theakkummoottil House in the Eraviperoor Village of Thiruvalla Taluk of Pathanamthitta District (hereinafter called the "lessee/lessee" which expression shall where the context so admits, include his/heirs, executors, administrators, representatives and permitted assigns) of the other part.

Witnesseth that in consideration of the rents and royalties and lessee's/Lessee's covenants, hereinafter reserved and contained the State Government hereby give on lease to Shri. T. Mathew Abraham Proprietor, M/s. Southern Rock & Aggregate Mining Company, Vallamkulam P.O, Thiruvalla, Pathanamthitta District, Pin - 689541 the lessee/lessees the land measuring 7.8000 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 12 (Twelve) years commencing from the 19/3/2015 and ending on the 18/3/2027 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.

For SOUTHERN ROCK & AGGREGATE MINING COMPANY

T. Mathew Abraham
Southern Rock Aggregate & Mining Company Vallamkulam Thiruvalla

57121 VALUE RS. 100

C. I. VARGHESE
VENDOR No: 31
THRUVALLUR

12 MAR 2015


K. K. SAEEDAN
GEOLOGIST
DEPT. OF MINING AND GEOLOGY
DISTRICT OFFICE, THIRUVALLUR

9 MAR 2015

QUARRY LEASE

ANNEXURE 10

Acknowledgment No. : 00365




ACKNOWLEDGMENT FOR CONTRIBUTION TO C M D R F KERALA

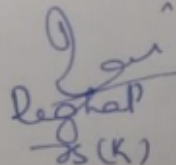
Received with thanks from Mr. Prince Abraham, Southern Rock And Aggregate Mining, Cheruthuruthy Post, Thrissur 679 531, Mob: 9995407570. bearing Cheque No: 002842 dated: 15-09-2018 of Federal Bank, Pattambi IFSC Code: FDRL 0001525 for an amount of **Rs. 300000/- (Three Lakh Rupees only)**.

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 :


S (K)

CMDRF DONATION RECEIPT

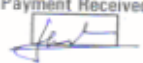
SOUTHERN ROCK & AGGREGATE MINING COMPANY
Painkulam P.O., Cheruthuruthy, Thrissur, Pin-679 531

PAYMENT VOUCHER

Voucher No :
Date : 19/10/18

Pay to: Donation

Particulars of Payment	Rs.	Ps.
Being Donation to Kankattay church	10,000	
Rupees.....	10,000	

Prepared by
Passed by
Payment Received 

CER ACTIVITY RECEIPTS

SOUTHERN ROCK & AGGREGATE MINING COMPANY
Painkulam P.O., Cheruthuruthy, Thrissur, Pin-679 531

PAYMENT VOUCHER

Voucher No : _____ Date : 21/12/18

Pay to : Donation

Particulars of Payment	Rs.	Ps.
<u>Being Donation to Cancer patient</u> <u>C/o Vinodha member's wife</u> <u>Nagas</u>	<u>4000</u>	
Rupees.....	<u>4000</u>	

Prepared by _____ Passed by _____ Payment Received ☐

SOUTHERN ROCK & AGGREGATE MINING COMPANY
Painkulam P.O., Cheruthuruthy, Thrissur, Pin-679 531

PAYMENT VOUCHER

Voucher No : _____ Date : 21/12/19

Pay to : Donation

Particulars of Payment	Rs.	Ps.
<u>Being paid for Treatment</u> <u>for Blood cancer Mrga</u> <u>W/o Suresh</u> <u>Mob no: 8289918965</u>	<u>7500</u>	
Rupees.....	<u>7500</u>	

Prepared by John Passed by _____ Payment Received Suresh

CER ACTIVITY RECEIPTS (CONTD.)

SOUTHERN ROCK & AGGREGATE MINING COMPANY
Painkulam P.O., Cheruthuruthy, Thrissur, Pin-679 531

PAYMENT VOUCHER

Voucher No : _____ Date : 16/2/19

Pay to Donation

Particulars of Payment	Rs.	Ps.
<u>Being paid for Subi K.S /w/o</u> <u>Binny hospital</u>	<u>10,000</u>	
Rupees.....	<u>10,000</u>	

Prepared by _____ Passed by _____ Payment Received Binny

CER ACTIVITY RECEIPTS (CONTD.)



PICTURES FROM RELIEF ACTIVITY

SOUTHERN ROCK & AGGREGATE MINING COMPANY

Painkulam P.O., Cheruthuruthy, Thrissur, Pin-679 531

**PAYMENT VOUCHER**

Voucher No : 6

Date : 8/9/20

Pay to : Donation

Particulars of Payment	Rs.	Ps.
Being Donation to Panjal Village office - medical item.	4235	
Rupees	4235	

Prepared by

Passed by

Payment Received

YES PHARMA4/80W, NAMBRATH TOWERS, OPP VALLATHOL MUSEUM
CHERUTHURUTHY PO, TRICHUR DT

GSTIN: 32BQP55318F12P

Kerala Code - 32

DL No : KL-TSR-150343/208, 150344/218

KL-TSR-150341/20, 150342/21

Email: yespharmacy@gmail.com

Phone : 9946640333

Mobile : 9946640333

F.Lic. No. : 1132008000416

Tax Invoice

Bill No: 76

CREDIT SALE

Bill Date : 07/09/2020

SOUTHERN ROCK & AGGREGATE MINING COMPANY
CHERUTHURUTHY

DL No :

GSTIN 32ACUPT1245L1Z5 Phone : 04884 261563

Page No. : 1

No	HSN/SAC	MFR	Products	Pack	Qty	Batch	Expiry	M.R.P	Rate	Dis%	Amount	GST%
1	34029099	CIPLA	CIPHANOS DISINFECT SPRAY	5	SC0034	11/21	199 000	153 000			765 00	18 00
2	40151900	ESS G	MEDICAL EXAMINATION GLOVES	100	1900	03/23	11 000	6 170			617 00	12 00
3	6307	GEN	3 PLY MASK (MOHINS)	100	001	07/25	10 000	5 000	5 00		475 00	5 00
4	33061020	GSK	SENSODYNE FRES GEL 75 G	1	221	04/22	110 000	90 000	2 00		88 20	18 00
5	30049067	HAEAL	HAND SANITIZER LIQUID (GERM	1	SPEL00120	04/22	2500 000	1080 000	3 00		1047 60	12 00
6	6307	NR	NORTH REPUBLIC GREY -MEDIL	5	GREY	05/25	150 000	100 000			500 00	5 00
7	30049067	R&B	HANDRUB H2O2 BLUE (MEDSHIE	2	RB15622	05/22	250 000	152 000			304 00	12 00

DONATION RECEIPT



JEEVADHARA CHARITABLE TRUST OF KERALA
 Reg. No. CA/58/2009 :: Gandhi Junction, Alathur, Palakkad Dt.
 Phone : 04922-223599. www.jeevadhara-charitable-trust.org

DONATION RECEIPT No. 066

Date : 31/10/2020

Received with thanks from Sri./Smt./Ms. Southern Rock

the sum of Rupees Three thousand only.

being Donation.

₹ 3000/-

HDFC Bank, Alathur Br. SB A/c. No. 15271450000046 IFSC Code : HDFC0001527
 Dhanlaxmi Bank, Alathur Br. SB A/c. No. 006100100032042 IFSC Code : DLXB0000061
 Donations to Jeevadhara Charitable Trust of Kerala are exempted
 from Income Tax under section - 80 G (5) (Vi) of the income tax
 act 1961. No. CIT-TCR/TECH/80G-12/2013-14/2528
 PAN CARD No. AABTJ4274G

Clock

President

Secretary

SOUTHERN ROCK & AGGREGATE MINING COMPANY



Painkulam P.O., Cheruthuruthy, Thrissur, Pin-679 531

PAYMENT VOUCHER

Voucher No :

Date : 30/10/20

Pay to Jeevadhara Charitable Trust of Kerala

Particulars of Payment	Rs.	Ps.
<u>Ben Donation Received to</u>	<u>3000</u>	<u>-</u>
<u>Jeevadhara on 30/10/20</u>		
Rupees	<u>3000</u>	<u>-</u>

Prepared by

Passed by

Payment Received

DONATION RECEIPT

പാഞ്ഞാൾ ഗ്രാമീണ പായനശാല
രജിസ്ട്രേഷൻ നമ്പർ: 11/11/20..

നമ്പർ: 15
പേര്: Southern Rocks
അഡ്രസ്സ്:

മാസവരി	
പ്രവേശനഫീസ്	
സംഭാവന	5000/-
മുദ്ര	5000/-

For the year only

SOUTHERN ROCK & AGGREGATE MINING COMPANY
Painkulam P.O., Cheruthuruthy, Thrissur, Pin-679 531

PAYMENT VOUCHER

Voucher No: _____ Date: 11/11/20

Pay to: Donation

Particulars of Payment	Rs.	Ps.
Being Paid For Donation to Panchal gramam Vayana shed	5000	
Rupees	5000	

Prepared by _____ Passed by _____ Payment Received _____

DONATION RECEIPT

SNEHALAYAM CHARITABLE TRUST

Wadakkanchey (Via) Mundathikode P.O

Thrissur Dt, Kerala-680 601

Income Tax Permanent A/c No: AAJTS 3228B

Phone : 95 4885 285497, Mob: 9846042092

No 2019

Date : 22/11/21

RECEIPTReceived with thanks from Southern Rocksa sum of Rupees Four thousand and Four hundred

by cash/Cheque/DD No Dated towards donation

Rs. 4900/-A. R. Asstog
Trustee**SOUTHERN ROCK & AGGREGATE MINING COMPANY**

Painkulam P.O., Cheruthuruthy, Thrissur, Pin-679 531

PAYMENT VOUCHER

Voucher No :

Date : 22/11/21

Pay to Donation

Particulars of Payment	Rs.	Ps.
<u>Bank Donation Paid to</u> <u>Snehalayam Charitable Trust</u>	<u>4900</u>	<u>-</u>
Rupees.....	<u>4900/-</u>	

Prepared by

Passed by

Payment Received

DONATION RECEIPT

SOUTHERN ROCK & AGGREGATE MINING COMPANY
Painkulam P.O., Cheruthuruthy, Thrissur, Pin-679 531

PAYMENT VOUCHER

Voucher No : _____ Date : 21/12/2020

Pay to: Donation

Particulars of Payment	Rs.	Ps.
<u>Donation to Sankaraya Temple</u>	2000	
Rupees.....	2000	

Prepared by _____ Passed by _____ Payment Received _____

മാനവാ സോദരാ ചാരിറ്റി സൊസൈറ്റി
തൃപ്പൂലം, തൃശ്ശൂർ- 680 312
Office: Punjiri Tower, Ground Floor, Opposite Bindu Theatre.
Sankarayer Road, Westfort, Thrissur-680 011
ഫോൺ: 9947790222, 9656158809
Reg TCR/TC/195/2020

Reg.No. **6**

Receipt ഓഗസ്റ്റ് 21/12/2020



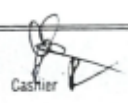
ശ്രീ/ശ്രീമതി M/s SOUTHERN ROCKS

പകരത്തിന്നും TWO THOUSAND ONLY

തരിവുകൾ കിട്ടിത്തീർന്നിട്ടു.

₹ 2000/- പ്രസിഡന്റ് സെക്രട്ടറി



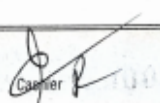
DONATION RECEIPT

 KARPAGAM FACULTY OF MEDICAL SCIENCES AND RESEARCH (Approved by Medical Council of India, New Delhi & Affiliated to the Tamilnadu Dr. MGR Medical University, Chennai) OTHAKKALMANDAPAM, COIMBATORE - 641 032. Phone : 0422 - 6464433, 6452888 Fax : 0422 - 2980022, 2980023	
Tuition Fees Receipt	
Name :	VISMAYA T V
App Number :	215U
Course :	B.Sc - Dialysis Technology
Receipt No :	20ATUDECO0035
Date :	09-12-2020
000265	
Particulars	Amount
Tuition Fees <i>rah</i>	14,500.00
<hr/>	
Total	14,500.00
Payment : Netbanking Paid Towards : Year - 1 Transaction Number : 033915180543 Fourteen Thousand Five Hundred Only	
	
* Cheque Subject to realization	
 Cashier	

Education Loan to
 Vismaya TV (Ammu)
 D/o Vasudevaran. Ex Ponchi Prasad
 Thannissam (H)
 Payal XV nishu
 84/XV Payal
 Vasudevan Ph: 9847490763.
Rini

dt 1/2/2021
 Account details
 SBI

DONATION RECEIPT

 KARPAGAM FACULTY OF MEDICAL SCIENCES AND RESEARCH (Approved by Medical Council of India, New Delhi & Affiliated to the Tamilnadu Dr. MGR Medical University, Chennai) OTHAKKALMANDAPAM, COIMBATORE - 641 032. Phone : 0422 - 6464433, 6452888 Fax : 0422 - 2980022, 2980023	
Admission Fees Receipt	
Name :	VISMAYA T V
App Number :	215U
Course :	B.Sc - Dialysis Technology
Receipt No :	20ADMDEC00125
Date :	09-12-2020
000264	
Particulars	Amount
Admission Fees	10,000.00
Total	10,000.00
Payment : Netbanking Transaction Number : 033915180543	
Ten Thousand Only	
* Cheque Subject to realization  Cashier 	

DONATION RECEIPT

THE FEDERAL BANK LIMITED Pattambi / Extension Counter Br. Thrissur - 679531
IFSC: FDR0001525

CURRENT ACCOUNT Valid for 3 months only
CURRENT PLUS

02022021

Pay Sri. Manikandan

रुपये Rupees Twenty thousand only. अरबों ₹ 20,000/-

क. व. A/cNo. 15250200000036

Chq.No. 10003411
SG

For SOUTHERN ROCK AND AGGREGATE MINING COMPANY

AUTHORISED SIGNATORY: Rim

PAYABLE AT ALL BRANCHES OF FEDERAL BANK

003411 0000490001: 101525* 29

SOUTHERN ROCK & AGGREGATE MINING COMPANY
Painkulam P.O., Cheruthuruthy, Thrissur, Pin-679 531



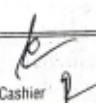
Voucher No. 11 **PAYMENT VOUCHER** Date: 1/2/20

Pay to Donation

Particulars of Payment		Rs.	P.
Being Paid For Donation to Manikandan (Dialysis patient)		20000	
(Chq. - 3411)			
Rupees.....		20000	

Prepared by [Signature] Passed by [Signature] Payment Received [Signature]

DONATION RECEIPT

 KARPAGAM FACULTY OF MEDICAL SCIENCES AND RESEARCH (Approved by Medical Council of India, New Delhi & Affiliated to the Tamilnadu Dr. MGR Medical University, Chennai) OTHAKKALMANDAPAM, COIMBATORE - 641 032. Phone : 0422 - 6464433, 6452888 Fax : 0422 - 2980022, 2980023		
Miscellaneous Receipt		000262
Name :	VISMAYA T V	Receipt No : 20AOTDEC00146
App Number :	215U	Date : 09-12-2020
Course :	B.Sc - Dialysis Technology	
Particulars		Amount
APPLICATION FEES		500.00
Total		500.00
Payment : Netbanking Transaction Number : 033915180543		
Five Hundred Only		
		 Cashier
* Cheque Subject to realization		

DONATION RECEIPT