

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**

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E- Mail: southernrocks999@gmail.com

Date : 12-04-2017

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 2016 - March 2017).

**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 2016 - March 2017) 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

DISTRICT ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

(DEIAA)

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 2016 - MARCH 2017

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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 District 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 2016 - March 2017 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:

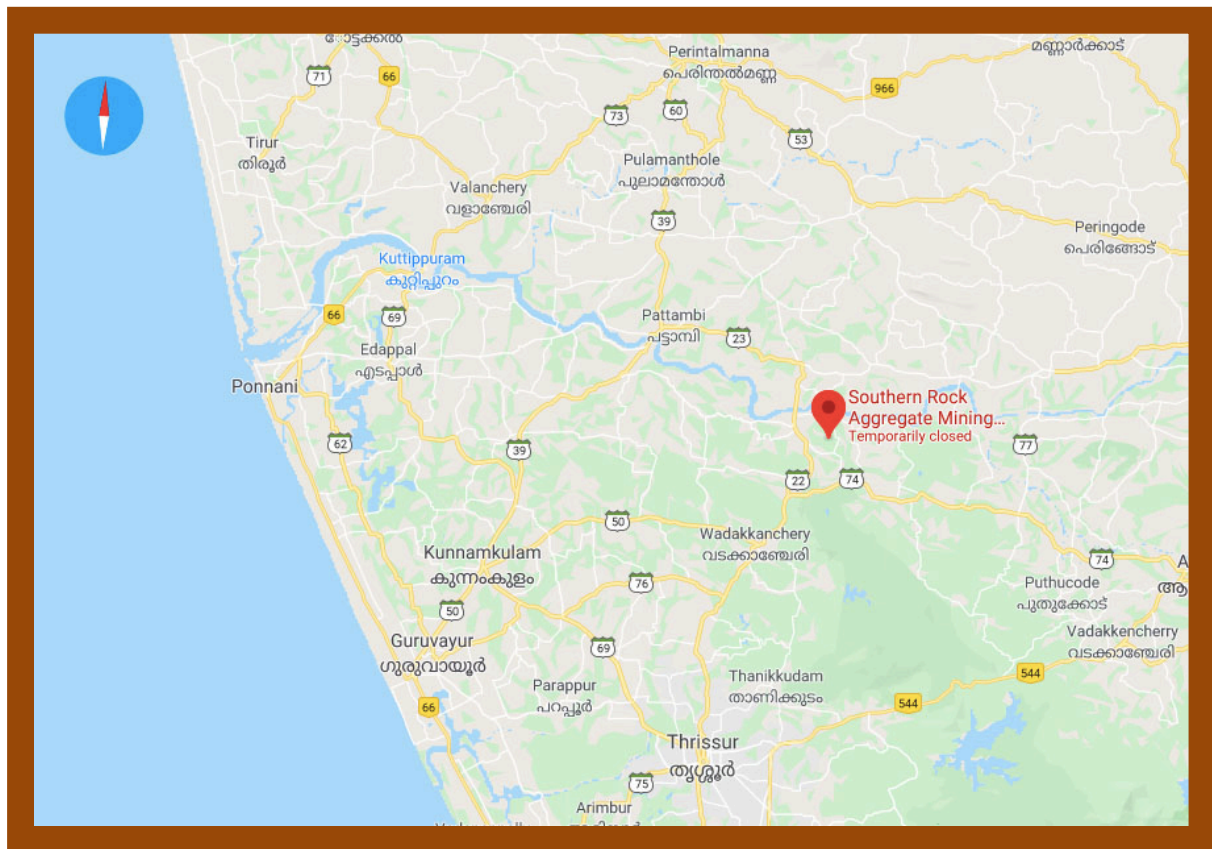
The project comes under the Category B, Activity 1(a), (i) of Schedule of EIA Notification 2006 and subsequent amendments.it is further categorized as Category B2.

Project extent and activity:

The project is for quarrying of 3, 00,000MTA 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 is used. Rain water harvesting to collect and utilize the entire water falling in the land area is provided. Photographs attached in Photo no.

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 monthly 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	StandardS Environmental & Analytical Laboratories,

6	Address of Environmental laboratory	StandardS Environmental & Analytical Laboratories, K. J. Tower, Pathalam, Udyogamandal P. O., Ernakulam District, Kerala
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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 14,15,16,17.

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**

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.

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 subsequently will be utilized in spreading over reclaimed areas for plantation. The overburden will be 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:

The bench formation is in progress. The specification of height and width will be scrupulously followed .

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. Afforestation is also in progress to reduce dust and sound.

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 Panchayath 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:

The proponent has provided the notarized affidavit stating that all the conditions in the EC shall be scrupulously followed.

CONDITION 40

No change in mining technology and scope of working should be made without prior approval of the DEIAA, no further expansion or modifications in the mine shall be carried out without prior approval of the DEIAA, as applicable.

COMPLIANCE:

Understood and will be complied.

CONDITION 41

The Project Proponent shall ensure that no natural water course and / or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.

COMPLIANCE:

No natural water course and / or water resources passes through the permit area and question of obstruction due to any mining operations does not arise. No first order streams, originates from the mine permit area.

CONDITION 42

Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control board. Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.

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

Levels are monitored through NABL Accredited laboratory : StandardS Environmental & Analytical Laboratories. The lab reports are shown in Annexure 8.

CONDITION 43

The top soil, if any, shall temporarily be stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8 m and width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dump should be scientifically vegetated with suitable native species to prevent erosion and surface runoff. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.

COMPLIANCE:

The topsoil excavated from the quarry is dumped separately at pre-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation. The over burden is utilized for laying internal haul road and will form base in reclamation/plantation. Precautions are 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.

CONDITION 44

Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.

COMPLIANCE:

Necessary Catch drains and siltation ponds are constructed around the mine working and OB dumps to prevent run off of water and flow of sediments directly into water bodies. The water so collected in the old mined pit is being utilized for watering the mine area, roads, green belt development etc. The drains are regularly desilted particularly after monsoon and maintained properly.

CONDITION 45

Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having levels of PM10 and PM2.5 such as haul road, loading and unloading points and transfer points — it shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the central pollution control board in this regard.

COMPLIANCE:

Yes. Regular water sprinkling is being done at haul roads, loading and unloading point and transfer points. The dust and sound levels were monitored through an environmental laboratory during the quarrying operation and the monitored results are well within the standards applicable. The Levels are monitored through NABL Accredited laboratory : : StandardS Environmental & Analytical Laboratories. The lab reports are shown in Annexure 8.

CONDITION 46

Fugitive dust emission from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.

COMPLIANCE:

Dust emission from all the sources is being controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points are being done.

CONDITION 47

Measures should be taken for control of noise levels below 85 dBA in the work environment.

COMPLIANCE:

Mining will be by semi mechanized opencast method so no significant increase in noise level exist.

CONDITION 48

A separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the Organization.

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 monthly and discuss the status of the compliance of the specific and general conditions contained in the Environmental clearance order. The details of the monitoring cell members are given below

Sl No.	Post	Name
1	Head of the monitoring cell (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	StandardS Environmental & Analytical Laboratories,
6	Address of Environmental Laboratory	StandardS Environmental & Analytical Laboratories, K. J. Tower, Pathalam, Udyogamandal P. O., Ernakulam District, Kerala

CONDITION 49

The funds earmarked for environmental protection measures and CER activities should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the District Environment Impact Assessment Authority (DEIAA) Office.

COMPLIANCE:

Southern Aggregates management 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.

CONDITION 50

The Regional Office of MoEF & CC located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring report..

COMPLIANCE

Full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring report are and will be extended as required.

CONDITION 51

Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.

COMPLIANCE:

The appeal provision is understood.

CONDITION 52

Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environmental (Protection) Act, 1986.

COMPLIANCE:

The requirements and provisions are clearly understood.

CONDITION 53

The DEIAA may revoke or suspend the order, for non implementation of any of the specific or this implementation of any of the above conditions is not satisfactory. The DEIAA reserves the right to alter/modify the above conditions or stipulate any further conditions in the interest of environment protection.

COMPLIANCE:

Agreeable

CONDITION 54

The above conditions shall prevail notwithstanding 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:

Agreeable

CONDITION 55

This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Government of Kerala, whichever is earlier.

COMPLIANCE:

Understood

CONDITION 56

The Environment Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, In any court of law.

COMPLIANCE:

Understood

CONDITION 57

The mining operation shall be restricted to above ground water table and it should not intersect ground water table.

COMPLIANCE:

The mining operation is restricted to above ground water table and it does not intersect ground water table.

CONDITION 58

All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area.

COMPLIANCE:

All vehicles used for transportation and within the mines have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles is done inside the lease area.

CONDITION 59

Project Proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.

COMPLIANCE:

Water requirement is met from water collected by rain water harvesting. Permissions will be obtained for drawal of water from any other source if required.

CONDITION 60

Regular monitoring of flow rates and water quantity upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to DEIAA.

COMPLIANCE:

No water springs and perennial nallahs are flowing in and around the mine lease area .

CONDITION 61

Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

COMPLIANCE:

Occupational health surveillance program of the workers is undertaken periodically to observe any contractions due to exposure to dust. A medical check-up for all employees in the mine is proposed.

CONDITION 62

Commitment of CER should be fulfilled.

COMPLIANCE:

Funds for CER activity would be allotted and used for that purpose and separate account shall be maintained.

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 under progress. 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 under construction 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



WORKERS WITH PROTECTIVE EQUIPMENT

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 TARRD 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

CER ACTIVITY PHOTOGRAPHS

PHOTO NO: 14



CLEANING ACTIVITY CONDUCTED AT VALLATHOL NAGAR RAILWAY STATION

PHOTO NO: 15



ELECTRIC CARGO VAN DONATED TO PSYCHIATRIC HOSPITAL

PHOTO NO: 16



FOOD AND GROCERY DONATION

PHOTO NO: 17



FOOD AND GROCERY DONATION

ANNEXURES

ANNEXURE 1





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(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 $\mu\text{g}/\text{m}^3$.

3.2 The PM2.5 in ambient air at the boundary shall not exceed 60 $\mu\text{g}/\text{m}^3$.

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



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 clearance from other concerned authorities are valid.

3.6 The renewal application shall be submitted on or before 31.03.2017. 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 :04/03/2016

OFFICE SEAL



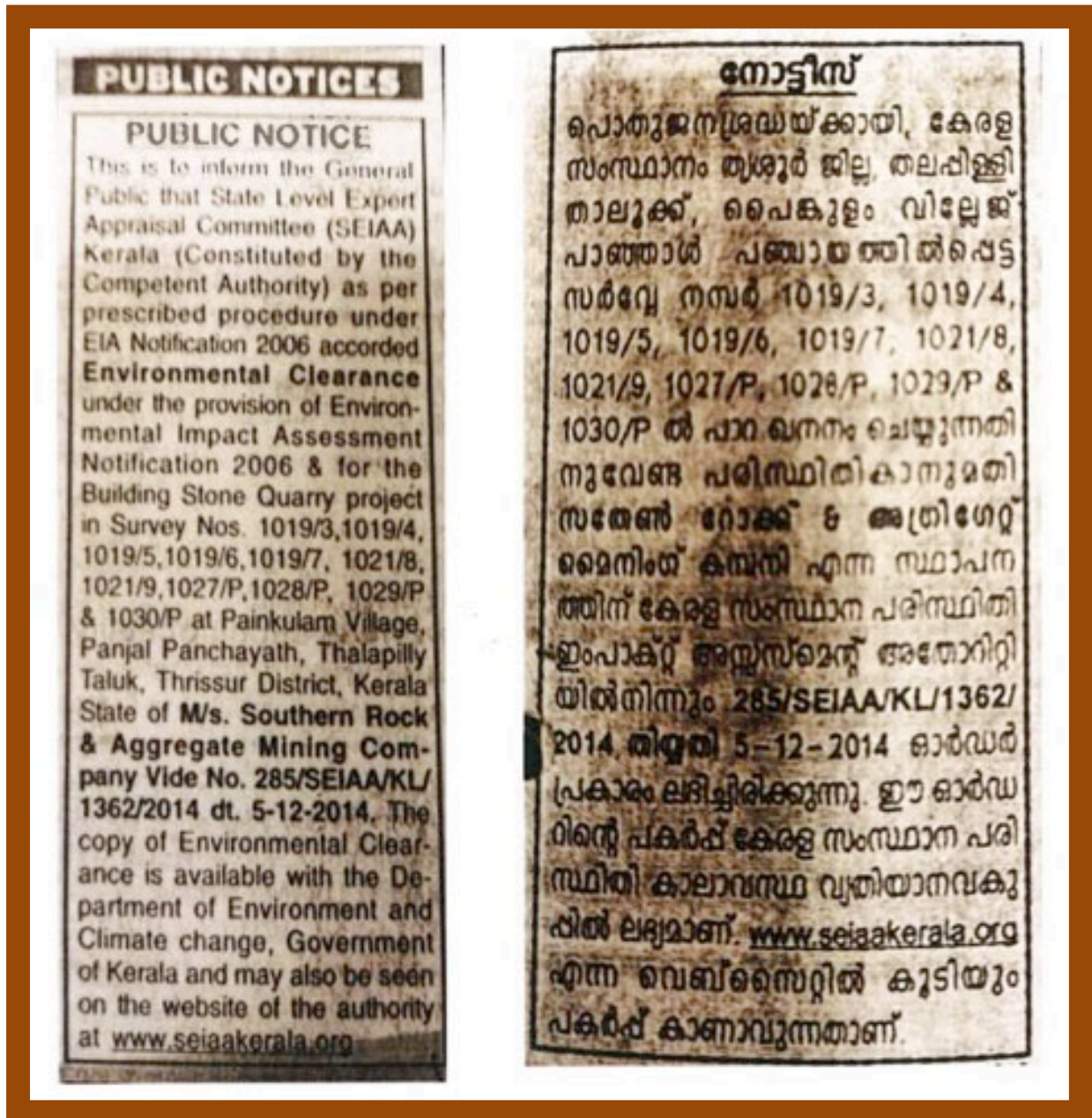
SIGNATURE & SEAL OF ISSUING AUTHORITY

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

To

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 Kakkulam Dist. Ernakulam Ernakulam 682037
Tele: 2427286 Fax: 2427276
Email: dyceernakulam@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,
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, Talappilly 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 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. S.)
Deputy Chief Controller of Explosives
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

Page 1 of 1

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, Sprit, gas, or other inflammable or hazardous substances		45
19	Building or Works used for Storage and Manufacture of Explosives or of articles which contain Explosives		
20	Aerodrome		
21	Furnace, Kiln or Chimney		
22	Quarry or mine pit head		
23	Power House or Electric Substation		
24	Wireless Station		
25	Warehouse or other Storage Building		
26	Any other Protected works		
Overhead Electric lines			
27	Electric Power over head Transmission Lines above 440V		45
28	Electric Power over head Transmission Lines upto 440V		15

The Date : 19/03/2007

For Joint Chief Controller of Explosives
South Circle, Chennai
D. G. 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.)

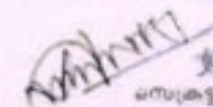
ANNEXURE 4

114


 മലബാർ നമ്പർ : C-3-C-3-546/2019-2019-2019-114 തീയതി : 09-04-2019

പാഞ്ചായത്ത് ഗ്രാമപഞ്ചായത്തിൽനിന്നും
 ഗ്രാമപഞ്ചായത്ത് രാജ് ആക്ട് (1994ലെ 13, 232, 233, 234, 234 എന്നീ വകുപ്പുകളും
 അതനുസരിച്ചുള്ള ചട്ടങ്ങളും അനുസരിച്ച്
 ഷാക്ടറികൾ, വ്യാപാരങ്ങൾ, സംരംഭങ്ങൾ, മറ്റു ബന്ധങ്ങൾ എന്നിവയ്ക്കായി നൽകുന്ന
മലബാർ നമ്പർ

മലബാർ നമ്പറുടെ പേരും തെളിയിക്കാനുവശ്യം	ടി.രാജു എഞ്ചിനീയറിംഗ്, സരോജ് റോക്ക് & ആഗ്രിമെന്റ് തെന്റിംഗ് കമ്പനി, പൈലറ്റും	
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	സരോജ് റോക്ക് & ആഗ്രിമെന്റ് തെന്റിംഗ് കമ്പനി.	
മലബാർ നമ്പർ നൽകിയിട്ടുള്ള സ്ഥലനാമവും	4 th എച്ച് പിഎസ് ഉപയോഗിച്ച് കാണി & ക്രഷർ നടത്തുന്നതിന്	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	15 - 4321	
മലബാർ നമ്പർ കാലയളവ്	01-04-2019 മുതൽ 31-03-2024 വരെ	
ഈടാക്കിയ മലബാർ നമ്പർ ഫീസ്	500,000 - 23,400 - രൂപ	രസീത് നമ്പർ 510020100037 തീയതി 20-03-2019
	തൊഴിൽക്കരം	12500 - 12500
മലബാർ നമ്പർ അനുവദിക്കുന്നതിനായി പാഞ്ചായത്തിന് നിരോധനപത്രങ്ങളുടെ വിശദാംശങ്ങൾ തയ്യാർ ചെയ്ത് കാലയളവ്, നൽകിയ അധികാരങ്ങൾ	1. മലിനീകരണനിയന്ത്രണ ബോർഡിൽനിന്നുള്ള അനുമതി - 19.03.2019 മുതൽ 12.04.2019 2. ജില്ലാ കളക്ടറുടെ ഫീൽഡ് കൺട്രോളർ ഓഫ് എക്സിക്യൂട്ടീവ്സിന്റെ അനുവാദപത്രം 3. തെന്റിംഗ് & ടി.രാജു എഞ്ചിനീയറിംഗ് അനുമതി 4. മേയർ എൻവയൺമെന്റിൽ ഇംപാക്ട് അസസ്മെന്റ് അതോറിറ്റിയുടെ അനുമതി 5. പാറ പൊട്ടിക്കുന്ന ആളുടെ വൈശ്വര്യം സംബന്ധിച്ച സാക്ഷ്യപത്രം	



 (മാഫീസ് മുദ്ര) പാഞ്ചായത്ത് ഗ്രാമപഞ്ചായത്ത്
 SECRETARY
 PANCHAYAT GRAMPANCHAYATH

PANCHAYAT LICENCE TO OPERATE QUARRY CRUSHER

[illegible]

49

ANNEXURE 6


 खान अधिनियम 1952
 THE MINES ACT 1952
 द्वितीय श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र खानउत्पादक खान के प्रबंध हेतु
MANAGER'S SECOND CLASS CERTIFICATE OF COMPETENCY
TO MANAGE A METALLIFEROUS MINE
 (खानउत्पादक खान विनियम, 1961 के अन्तर्गत)
 (Under the Metalliferous Mines Regulations, 1961)
 (केवल विनियमित खानों के लिए सीमित)
 (Restricted to mines having opencast workings only)

प्रिन्स अब्राहम . टी

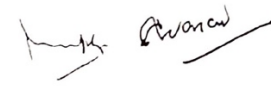
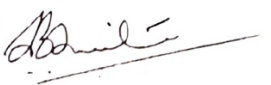
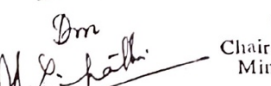
जिनकी जन्म तिथि 09. 10. 1978 है, विनियम 16 के अन्तर्गत अनुमोदित खनन अभियंत्रिकी में स्नातक प्राप्त करने पर एवं
 विहित अनुभव की समाप्ति पर एतद्वारा केवल विनियमित खानों में धातुउत्पादक खानों के प्रबंध हेतु द्वितीय श्रेणी प्रबंधक
 सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र 30. 08. 2002 से प्रभावी समझा जाएगा।

Prince Abraham . T

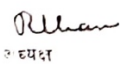
born on 09th October, 1978 possessing a Degree
 in Mining Engineering approved under Regulation 16 and on completion of the prescribed
 experience is hereby granted **MANAGER'S SECOND CLASS CERTIFICATE OF**
COMPETENCY to manage a metalliferous mine having opencast workings only. This
 Certificate is effective from 30. 08. 2002



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


Signed and Sealed
 Date : 19
 09 SEP 2003


 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 തുടർനിയമങ്ങളും അനുസരിച്ചു കൊടുത്ത

ലൈസൻസ്

ലൈസൻസുടമസ്ഥന്റെ പേരും മേൽവിലാസവും	ടി. മിത്ത്യാ ഐ.എം.സി., സരോജ് റോഡ് & അഗ്നിശക്തി തൊഴിലാളി കമ്പനി തൊഴിലാളി.
എന്താവശ്യത്തിന് ലൈസൻസ് അനുവദിച്ചു എന്ന്	വ്യാവസായിക തൊഴിൽ തൊഴിൽ പ്ലാന്റ് ഉൾപ്പെടെ വിവിധ-നാളിന്. 250 KVA.
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	X/220, X/221
ലൈസൻസിന്റെ കാലാവധി	2014-2019. 5 Yrs.
ലൈസൻസ് ഫീസ്	20,000 + 10,000 + (2500 per year p.f.)
റിമാർക്സ്	മുൻപ് തന്നെ പ്ലാന്റിലെ തൊഴിലാളി ലൈസൻസ് നൽകിയിരുന്നു. Explosive license, Pollution control board consent, Mining & Geology permission എന്നിവ നൽകിയിട്ടുണ്ട്.

പാഞ്ചായത്ത് _____ ഗ്രാമ പഞ്ചായത്ത് _____

തീയതി 23/4/14.



22/4/14

Panchayat

LM-34 K / 2000

PANCHAYAT LICENSE

ANNEXURE 8

Standard^S
Environmental Monitoring

TEST REPORT

Test Report No: SEANN/1607/R009	Date: 07.07.2016	Page 1 of 1
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CUSTOMER DETAILS

Customer Name & Address	M/s Southern Rock & Aggregates Mining Co. Pannikulam, Cheruthuruthy, Thrissur District
Customer Reference	—

SAMPLE DETAILS

Source of Sample	Ambient Air	Sample Code	SEANN/1607/S008
Location of Monitoring	40 m away from the centre of the crusher	Sampled By	By Laboratory
Date of Monitoring	04.07.2016	Test Started On	05.07.2016
Sample Received On	04.07.2016	Test Completed On	05.07.2016

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULT	KSPCB LIMIT
01	Suspended Particulate Matter	IS 5182 (Part 4)	µg/m ³	142	600

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories


Authorized Signatory

Lalju P. N.
Laboratory Head

Standard^S Environmental & Analytical Laboratories
Accreditation and Approval: NABL as per ISO 17025: 2005 & "A" Grade laboratory of KSPCB
K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel: 0484-2546660, 93 87 27 24 02, 90 20 67 24 02
Web: www.sealabs.in, E-mail: seelab@gmail.com, info@sealabs.in

LAB REPORTS

Standard^S
Environmental Monitoring

TEST REPORT

Test Report No: SEANN/1607/R010	Date: 07.07.2016	Page 1 of 1
---------------------------------	------------------	-------------

CUSTOMER DETAILS

Customer Name & Address	M/s Southern Rock & Aggregates Mining Co., Pannikulam, Cheruthuruthy, Thrissur District
Customer Reference	---

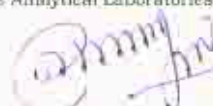
SAMPLE DETAILS

Source of Sample	Ambient Air	Sample Code	SEANN/1607/S009
Location of Monitoring	Near Boundary	Sampled By	By Laboratory
Date of Monitoring	04.07.2016	Test Started On	05.07.2016
Sample Received On	04.07.2016	Test Completed On	05.07.2016

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULT	KSPCB LIMIT
01	Suspended Particulate Matter	IS 5182 (Part 4)	µg/m ³	55.2	100

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories


Authorized Signatory

Lalju P. N.
Laboratory Head

Standard^S Environmental & Analytical Laboratories
Accreditation and Approval: NABL as per ISO 17025: 2005 & "A" Grade laboratory of KSPCB
K.J. Towel, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel: 0484-2546660, 93 87 27 24 02, 90 20 67 24 02
Web: www.sealabs.in, E-mail: sealab@gmail.com, info@sealabs.in

LAB REPORTS (CONTD.)

Standard^S
Environmental Monitoring

TEST REPORT

Test Report No: SEANN/1607/R011	Date: 07.07.2016	Page 1 of 1
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CUSTOMER DETAILS

Customer Name & Address	M/ S Southern Rock & Aggregates Mining Co. Pannikulam, Cheruthuruthy, Thrissur District
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SAMPLE DETAILS

Source of Sample	Ambient Sound Level (Day Time)
Date of Monitoring	04.07.2016

SL NO	TEST PARAMETER	UNIT	RESULTS	KSPCB LIMIT
01	Ambient Sound Level	dB (A)	52.7	55.0

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories


Authorized Signatory



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