

# **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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**Date : 04-10-2017**

**To**

- 1. The Regional Director,  
MoEF Regional Office, South Zone,  
Kendriya Sadan,4<sup>th</sup> 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 –(April 2017 - September 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 and1030P 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 (April 2017 - September 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**

**APRIL 2017 - SEPTEMBER 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 April 2017 - September 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):  $10^{\circ}44'02.9''$  N to  $10^{\circ}44'10.8''$  N.

Longitude(E):  $76^{\circ}17'38.2''$  E to  $76^{\circ}34'53.4''$  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:

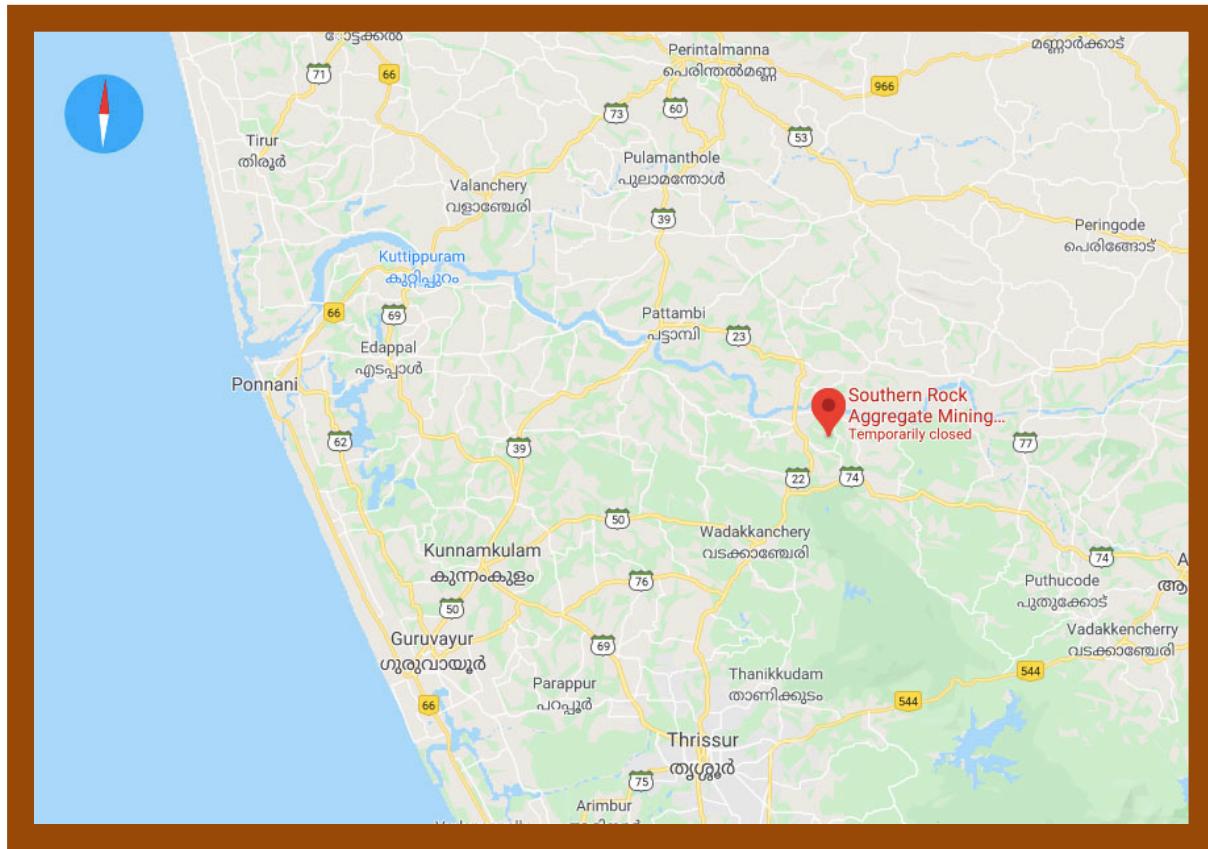
The project comes under the Category B, Activity 1(a), (i) of Schedule of EIA Notification 2006 and subsequent amendments.it is further categorized as Category B2.

### 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 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 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

<b>SI No.</b>	<b>Post</b>	<b>Name</b>
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>	Rubber	Euphorbiaceae
2	<i>Artocarpus heterophyllus</i>	Jackfruit tree	Moraceae
3	<i>Mangifera indica L</i>	Mango tree/Mavu	Anacardiceae
4	<i>Cocos nucifera</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 & 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 ongoing and will be completed within a few months

## 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:

Will be complied.

## 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. The photograph is shown in photograph number 2.

## **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](http://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:**

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 or 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 drawl 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 undertaken 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>	Rubber	Euphorbiaceae
2	<i>Artocarpus heterophyllus</i>	Jackfruit tree	Moraceae
3	<i>Mangifera indica L</i>	Mango tree/Mavu	Anacardiceae
4	<i>Cocos nucifera</i>	Thengu	Arecaceae

## CONDITION 6

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

### COMPLIANCE:

The directions are now scrupulously followed.

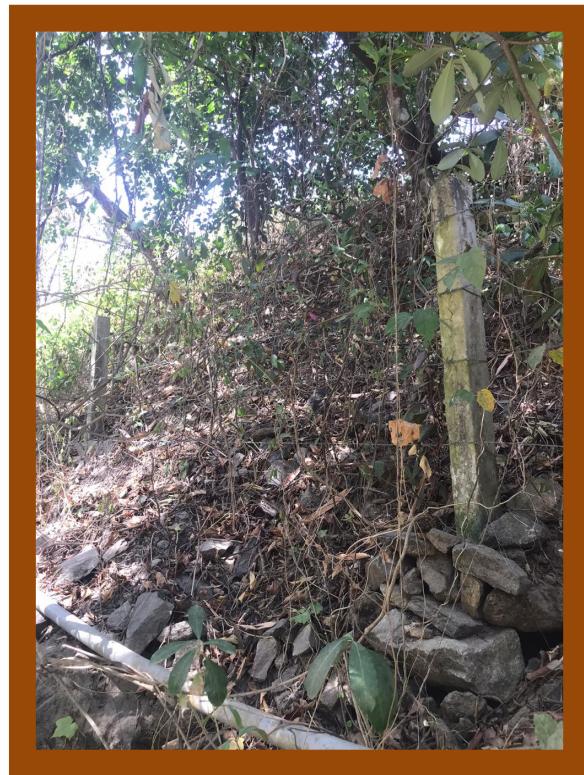
## **Chapter 4**

### **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**



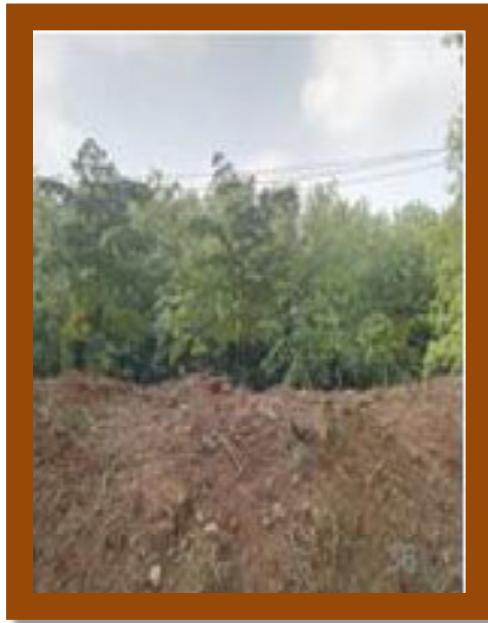
**FENCING WITH BARBED METAL WIRE**

**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	GST	32ACUPT1245L1Z5	7/1/2017	
4	Pollution Control Board ① Quarry ② Crusher	No.PCB/DO/TSR/R4/ICO/804/2017 No.PCB/DO/TSR/R4/ICO/804/2018	6/6/2017 8/12/2018	3 years 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

 <b>KERALA STATE POLLUTION CONTROL BOARD</b> FILE NO. :PCB/TSR/IC/206/07 Date of issue :06/06/2017 <b>INTEGRATED CONSENT TO OPERATE - RENEWAL</b> 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. <b>I. GENERAL</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">S.No.</th> <th style="width: 40%;">Items</th> <th style="width: 50%;">Description</th> </tr> <tr> <td style="text-align: center;">1</td> <td>Last date of consent renewal</td> <td style="text-align: center;">31.03.2020</td> </tr> </table> <b>II. Stack Details</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 15%;">Stack No.</th> <th rowspan="2" style="width: 20%;">Source of Emission</th> <th rowspan="2" style="width: 20%;">Emission Rate(Nm<sup>3</sup>/Hr)</th> <th colspan="2" style="width: 30%;">Stack Height above</th> <th rowspan="2" style="width: 15%;">Control Equipment</th> </tr> <tr> <th style="width: 15%;">Ground Level(In Meters)</th> <th style="width: 15%;">Roof Level(In Meters)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <b>III. CONDITIONS</b> <p>3.1 The PM10 in ambient air at the boundary shall not exceed 100 <math>\mu\text{g}/\text{m}^3</math>.  3.2 The PM2.5 in ambient air at the boundary shall not exceed 60 <math>\mu\text{g}/\text{m}^3</math>.  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</p>	S.No.	Items	Description	1	Last date of consent renewal	31.03.2020	Stack No.	Source of Emission	Emission Rate(Nm <sup>3</sup> /Hr)	Stack Height above		Control Equipment	Ground Level(In Meters)	Roof Level(In Meters)						
S.No.	Items	Description																		
1	Last date of consent renewal	31.03.2020																		
Stack No.	Source of Emission	Emission Rate(Nm <sup>3</sup> /Hr)	Stack Height above		Control Equipment															
			Ground Level(In Meters)	Roof Level(In Meters)																

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

OFFICE SEAL

To

SIGNATURE & SEAL OF ISSUING AUTHORITY

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



Page2



### 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 <sup>3</sup> /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 (L<sub>eq</sub>) 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.)



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



SIGNATURE & SEAL OF ISSUING AUTHORITY

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

To

### KSPCB CERTIFICATE(CONTD.)

## ANNEXURE 2

<p><b>PUBLIC NOTICES</b></p> <p><b>PUBLIC NOTICE</b></p> <p>This is to inform the General Public that State Level Expert Appraisal Committee (SEIAA) Kerala (Constituted by the Competent Authority) as per prescribed procedure under EIA Notification 2006 accorded <b>Environmental Clearance</b> under the provision of Environmental Impact Assessment Notification 2006 &amp; for the Building Stone Quarry project in Survey Nos. 1019/3, 1019/4, 1019/5, 1019/6, 1019/7, 1021/8, 1021/9, 1027/P, 1028/P, 1029/P &amp; 1030/P at Painkulam Village, Panjal Panchayath, Thalapilly Taluk, Thrissur District, Kerala State of M/s. Southern Rock &amp; Aggregate Mining Company Vide No. 285/SEIAA/KL/1362/2014 dt. 5-12-2014. The copy of Environmental Clearance is available with the Department of Environment and Climate change, Government of Kerala and may also be seen on the website of the authority at <a href="http://www.seiaakerala.org">www.seiaakerala.org</a></p>	<p><b>സോട്ടിസ്</b></p> <p>പ്രാതൃജന്മധ്യയ്ക്കായി, കേരള സംസ്ഥാനം കുദ്രാർ ഇല, തലപിള്ളി താലുക്ക്, പെട്ടുള്ള വിഭ്ലേജ് പാബാഡ പബ്യായ താംസട സർവ്വ നമ്പർ 1019/3, 1019/4, 1019/5, 1019/6, 1019/7, 1021/8, 1021/9, 1027/P, 1028/P, 1029/P &amp; 1030/P യിൽ പാഠ വന്നും ചെയ്യുന്നതിനുംബേണ്ട പരിസ്ഥിതികാനുഭവി സംരംഭം കേരള സംസ്ഥാന പരിസ്ഥിതി ഇപ്പാക്ക് അനുസ്മർത്ത് ആംഗാഗിറ്റി യിൽനിന്നും 285/SEIAA/KL/1362/2014 തീയതി 5-12-2014 മാർബർ (പ്രകാശ ലഭിച്ചിരുന്നു) മുഖ കാർബി ദിംബ് പകർച്ച കേരള സംസ്ഥാന പരിസ്ഥിതി കാലാവസ്ഥ വ്യതിയാനവകു പിൽ ഉണ്ടാണ്. <a href="http://www.seiaakerala.org">www.seiaakerala.org</a> ദിന വെബ് സൈറ്റിൽ കൂടിയും പകർച്ച കാണാവുന്നതാണ്.</p>
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**Form DE-2**

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

Safety distances required to be kept clear around magazine for high explosives or fire works or factory licence number E/SC/KL/22/867(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	
	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		
<b>Middle Safety Distances(MSD)</b>		
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		
<b>Outside Safety Distances(OSD)</b>		
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		
<b>Overhead Electric lines</b>		
27 Electric Power over head Transmission Lines above 440V		45
28 Electric Power over head Transmission Lines upto 440V		15

The Date : 19/03/2007

### Amendments to:

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

For Joint Chief Controller of Explosives

South Circle, Chennai  
3.5 वि.नि., एनार्कुलम  
D. G. C. E. Exam.

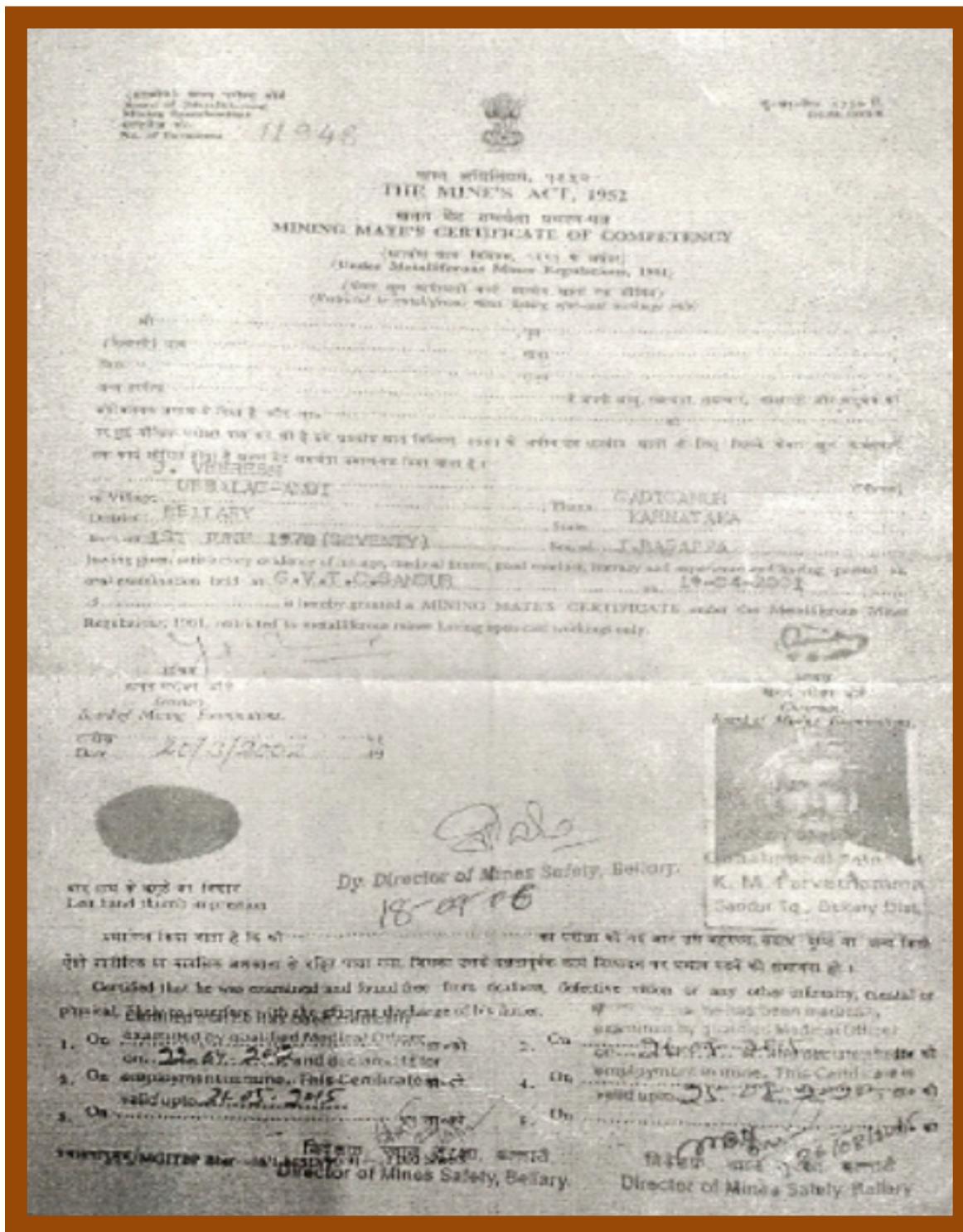
## **EXPLOSIVE LICENSE COPY (CONTD.)**

## ANNEXURE 4

	
കേരളസർവ്വ നമ്പർ : A4-1025/16	തീയതി: 13/06/2016
കേരളസ്ഥിതി ഗവർണ്ണറുമാന്ത്രിക്സ് റിസൈറ്റ് 1994 ലെ കേരള പരമാധികാര രാജ്യ ആട്ടി 1994 ലെ (3) 232,233,234,254 നമ്പർ വകുപ്പുകളും സാമ്പത്തിക സ്ഥാപനങ്ങളും പ്രകാശപ്പെടുത്തണമെന്നിൽപ്പു നാൾക്കുന്ന ഡി & ഒ വലിയിൽ	
കമ്പനി/സ്ഥാപന നമ്പർ: ഫോറീസ്റ്റ് സെക്രട്ടറി	റീ. മാത്ര എസ്റ്റാറ്റ്, മാത്രപ്പിള്ള പാട്ടിക്കാർ, ഇടയൻ കോട്ടൻ മലബാറ്
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലം തുറസ്സ്	M/s മാത്ര എസ്റ്റാറ്റ് മലബാറ്
കമ്പനിയുടെ നാമിക്കിട്ടുന്ന പ്രവർത്തനങ്ങൾ	പാറ വന്നുവെള്ള വിവരങ്ങൾ (Compressor 50 HP - 1 No)
കെട്ടിടത്തിന്റെ നാമത്തും മാത്രമുണ്ട് നമ്പർ:	കെട്ടിടത്തിൽ വിവരം സർവ്വ നം. 63/1-2
വലിയിൽ കാലക്രമാവധി	2016-2017
പ്രാംക്കിയ വലിയിൽ നമ്പർ	സെക്രട്ടറി നമ്പർ 11603100617 Dated: 13/06/2016
വലിയിൽ അനുവാദിക്കുന്നതിനായി പാലാക്കിയ നിരാക്കരിപ്പ് പ്രകാശപ്പെടുത്തിയ വിവരങ്ങൾ ( നമ്പർ, തീയതി, കാലയളവ്, നാൾക്കുന്ന അധികാരങ്ങൾ)	(1) Consent to operate file No.PCB/PTA/QR/144/2013 Dt.10.12.2015 issued by PCB Pathanamthitta upto 30/06/2017 (2) Letter from Mining and Geology District Office Pathanamthitta, No.157/ DOPTA/ M/2015 Dated. 29.05.2015 (3) Explosive licence No:E/SC/KL/22/920(E41182) Dt.29.05.2008 issued by Joint chief controller of explosives, South Circle,Chennai ,valid upto 31.03.2010 and renewed on 11.03.2015 by Dy.chief controller of explosives,Ernakulam valid upto 31/03/2020
 <span style="margin-left: 20px;">           SECRETARY          KOTTANGAL Grama Panchayat          Kottangal, P.O. - 641661          Tel: 04292496238, 9446942611       </span>	

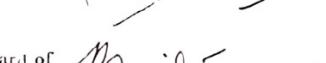
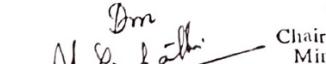
## D&amp;O LICENCE

## ANNEXURE 5



## MINING MATE'S CERTIFICATE

## ANNEXURE 6

 भारत सरकार 1952 <b>THE MINES ACT 1952</b> अंतीम लोणी प्रबन्धक संस्थान का प्रमाण-पत्र धातुउत्पादक खनन के प्रबन्धक <b>MANAGER'S SECOND CLASS CERTIFICATE OF COMPETENCY</b> TO MANAGE A METALLIFEROUS MINE (प्रमाण-पत्रक का विवरण, 1961 के अन्तर्गत) (Under the Metalliferous Mines Regulations, 1961) (केवल खिलाफी खनन का कार्य की सीमा) (Restricted to mines having opencast workings only) <b>प्रिंसेस अब्राहम, डॉ</b>	 जन्म तिथि 09. 10. 1978 है, जिनियम 16 के अन्तर्गत अनुमोदित खनन, अभियादिनी में इनामक प्राप्त करने पर प्रबन्धक विहित अनुभव की समाप्ति पर एतद्वारा कदल विवृत खनित पुरुत धातुउत्पादक खनन के प्रबन्ध हेतु द्वितीय (दूसरी) प्रबन्धक संधमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र 30. 08. 2002 से प्रमाणी समझा जाएगा। <b>Prince Abraham. Dr</b>
born on <b>09th October, 1978</b> 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 <b>30. 08. 2002</b>	
 सदस्य खनन परीक्षा बोर्ड Members of the Board of Mining Examinations.   Signed and Sealed Date : 19 <b>09 SEP 2002</b>	 अध्यक्ष खनन परीक्षा बोर्ड Chairman of the Board of Mining Examinations.   <b>Dr</b> <b>Prince Abraham</b>

**MANAGER'S SECOND CLASS CERTIFICATE OF COMPETENCY**

## ANNEXURE 7

## **PANCHAYAT LICENSE**

## ANNEXURE 8

**TEST REPORT**

Test Report No: SEANN/1607/R009	Date: 07.07.2016	Page 1 of 1
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<u>CUSTOMER DETAILS</u>			
Customer Name & Address		M/s Southern Rock & Aggregates Mining Co. Pannikulam, Cheruthuruthy, Thrissur District	
Customer Reference		—	
<u>SAMPLE DETAILS</u>			
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/m³	142	600

\*\*\*End of Report\*\*\*

For and on behalf of  
StandardS Environmental & Analytical Laboratories

  
Authorized Signatory


  
Leju P. N.  
Laboratory Head

StandardS Environmental &amp; Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2005 & "A" Grade laboratory of KSPCB  
 KJ Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel: 0484-2546660, 93 87 67 24 02, 90 20 67 24 02  
 Web: [www.sealabs.in](http://www.sealabs.in) E-mail: [sealab@gmail.com](mailto:sealab@gmail.com), [info@sealabs.in](mailto:info@sealabs.in)

**LAB REPORTS**

																					
<b>TEST REPORT</b>																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Test Report No: SEANN/1607/R010</td> <td style="width: 33%;">Date: 07.07.2016</td> <td style="width: 34%;">Page 1 of 1</td> </tr> </table>		Test Report No: SEANN/1607/R010	Date: 07.07.2016	Page 1 of 1																	
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center; padding: 5px;"><u>CUSTOMER DETAILS</u></th> </tr> </thead> <tbody> <tr> <td style="width: 50%;">Customer Name &amp; Address</td> <td style="width: 50%;">M/s Southern Rock &amp; Aggregates Mining Co. Pannikulam, Cheruthuruthy, Thrissur District</td> </tr> <tr> <td colspan="2">Customer Reference: ---</td> </tr> </tbody> </table>		<u>CUSTOMER DETAILS</u>		Customer Name & Address	M/s Southern Rock & Aggregates Mining Co. Pannikulam, Cheruthuruthy, Thrissur District	Customer Reference: ---															
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<u>SAMPLE DETAILS</u>																					
Source of Sample	Ambient Air	Sample Code:	SEANN/1607/8009																		
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																		
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01	Suspended Particulate Matter	IS 5182 (Part 4)	µg/m³	88.2	100																
<p>***End of Report***</p> <p style="text-align: right;">For and on behalf of Standard's Environmental &amp; Analytical Laboratories</p>  <p style="text-align: right;">Authorized Signatory Laiju P. N. Laboratory Head</p>																					
<p><b>Standard's Environmental &amp; Analytical Laboratories</b></p> <p>Accreditation and Approval: NABL as per ISO 17025: 2005 &amp; "A" Grade laboratory of KSPCB K.I. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel: 0484-2546660, 93 87 27 24 02, 90 20 67 24 02 Web: <a href="http://www.sealabs.in">www.sealabs.in</a>, E-mail: <a href="mailto:sealab@gmail.com">sealab@gmail.com</a>, <a href="mailto:info@sealabs.in">info@sealabs.in</a></p>																					

### LAB REPORTS (CONTD.)

											
<b>TEST REPORT</b>											
Test Report No: SEANN/1607/R011	Date: 07.07.2016										
Page 1 of 1											
<b>CUSTOMER DETAILS</b>											
Customer Name & Address	M/s Southern Rock & Aggregates Mining Co, Pannikulam, Cheruthuruthy, Thrissur District										
<b>SAMPLE DETAILS</b>											
Source of Sample	Ambient Sound Level (Day Time)										
Date of Monitoring	04.07.2016										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 2px;">SL NO</th> <th style="text-align: center; padding: 2px;">TEST PARAMETER</th> <th style="text-align: center; padding: 2px;">UNIT</th> <th style="text-align: center; padding: 2px;">RESULTS</th> <th style="text-align: center; padding: 2px;">KSPCB LIMIT</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;">01</td> <td style="text-align: center; padding: 2px;">Ambient Sound Level</td> <td style="text-align: center; padding: 2px;">dB (A)</td> <td style="text-align: center; padding: 2px;">52.7</td> <td style="text-align: center; padding: 2px;">55.0</td> </tr> </tbody> </table>		SL NO	TEST PARAMETER	UNIT	RESULTS	KSPCB LIMIT	01	Ambient Sound Level	dB (A)	52.7	55.0
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 Lalji P. N. Lalji P. N. - Laboratory Head											
<b>Standard's Environmental &amp; Analytical Laboratories</b> Accreditation and Approval: NABL as per ISO:17025: 2005 & "A" Grade laboratory of KSPCB K. J. Town, Pathalam, Udayagamandal P.O., Ernakulam-683 501, Tel: 0484-2546660, 93 87 77 29 00, 90 70 97 24 02 Web: <a href="http://www.sealabs.in">www.sealabs.in</a> , E-mail: <a href="mailto:sealab@gmail.com">sealab@gmail.com</a> , <a href="mailto:info@sealabs.in">info@sealabs.in</a>											

## ANNEXURE 9

Duplicate: 1

575/2015

**भारतीय गैर न्यायिक**

**एक सौ रुपये** **Rs. 100**

The original document has been stamped  
duly Rs. 764552/- (Rs. Seven lakh Sixty Four  
thousand Five hundred and Forty Two only)

रु. 100 **ONE HUNDRED RUPEES**

27th day of March 2015 Sub Registered

S. Sabu Lakshmi संस्कृत ज्येते

**भारत INDIA**

**INDIA NON JUDICIAL**

केरल केरल KERALA

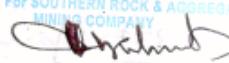
AM 595984

**FORM H**  
(See rule 43)  
**QUARRYING LEASE**

This deed of lease made on this the 19<sup>th</sup> 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/their heirs, executors, administrators, representatives and permitted assigns) of the other part,

Witnesseth that in consideration of the rents and royalties and lessee's/Lessees' covenants, hereinafter reserved and contained the State Government hereby give on lease to Shri. T. Mathew Abraham Proprietor, M/s. Southern Rock & Aggregate Mining Company, Vallamkulam P.O, Thiruvalla, Pathanamthitta District, Pin - 689541 the lessee/lessee 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



575/21 VALUE RS. 60/-

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

K. K. SAEEVAN  
GEOLOGIST  
DEPT. OF MINING AND GEOLOGY,  
DISTRICT OFFICE, THRISSUR

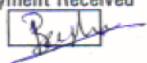
C. I. VARGHESE  
VENDOR No: 31  
THRISSUR

9 MAR 2015

12 MAR 2015

## QUARRY LEASE

## ANNEXURE 10

SOUTHERN ROCK & AGGREGATE MINING COMPANY		
Painkulam P.O., Cheruthuruthy, Thrissur, Pin-679 531		
PAYMENT VOUCHER		
Voucher No :	Date : 10/03/2017	
Pay to.....	Donation	
Particulars of Payment		Rs. Ps.
Unnally canal Barge chartered out at Kulamkulam muthissur		15000.00
Rupees. 15000.00		15000.00
Prepared by	Passed by	Payment Received
		

SOUTHERN ROCK & AGGREGATE MINING COMPANY		
Painkulam P.O., Cheruthuruthy, Thrissur, Pin-679 531		
PAYMENT VOUCHER		
Voucher No :	Date : 30/03/2017	
Pay to.....	Donation	
Particulars of Payment		Rs. Ps.
Businessman Vettivelu Thomas member		13000.00
Rupees. 13000.00		13000.00
Prepared by	Passed by	Payment Received
		

## CSR ACTIVITY RECEIPTS

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

**PAYMENT VOUCHER**

Date : 21/08/2017

Voucher No :

Pay to: Donation

Particulars of Payment	Rs.	Ps.
Being Cash passed to Keralam Human B.J.P. through Donity	6000.00	
	6000.00	
Rupees Six Thousand only		

Prepared by S.J.P.

Passed by

Payment Received  Yes

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

**PAYMENT VOUCHER**

Date : 18/04/2017

Voucher No :

Pay to: Donation

Particulars of Payment	Rs.	Ps.
Vanpala church c/o Nelson	20000.00	
	20000.00	
Rupees Twenty Thousand only		

Prepared by S.J.P.

Passed by

Payment Received  Yes

## CSR ACTIVITY RECEIPTS

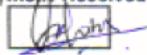
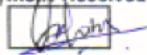
**SOUTHERN ROCK & AGGREGATE MINING COMPANY**  
Painkulam P.O., Cheruthuruthy, Thrissur, Pin-679 531

**PAYMENT VOUCHER**

Voucher No : \_\_\_\_\_ Date : 09/05/2017

Pay to... Donation

Particulars of Payment	Rs.	Ps.
<u>Barney cash passed to education Trust</u>	<u>6000</u>	<u>00</u>
<u>for the party</u>		
<u>Rupees. six Thousand only</u>	<u>6000</u>	<u>00</u>

Prepared by  Passed by  Payment Received 

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

**PAYMENT VOUCHER**

Date : 08/05/2017

Voucher No : \_\_\_\_\_

Pay to... Donation

Particulars of Payment	Rs.	Ps.
<u>Barney cash passed to cancer patient</u>	<u>10000</u>	<u>00</u>
<u>c/o Nine the member</u>		
<u>Rupees. Ten Thousand only</u>	<u>10000</u>	<u>00</u>

Prepared by  Passed by  Payment Received 

## CSR ACTIVITY RECEIPTS

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

**PAYMENT VOUCHER**

Date : 08/05/2017

Voucher No :

Pay to... Donation

Particulars of Payment	Rs.	Ps.
Being Cash paid to Cancer patient cto Nineth member	10000	00
Rupees <u>Ten Thousand only</u>	10000	00

Prepared by SPR

Passed by Dayan

Payment Received Dayan

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

**PAYMENT VOUCHER**

Date : 15/09/2017

Voucher No :

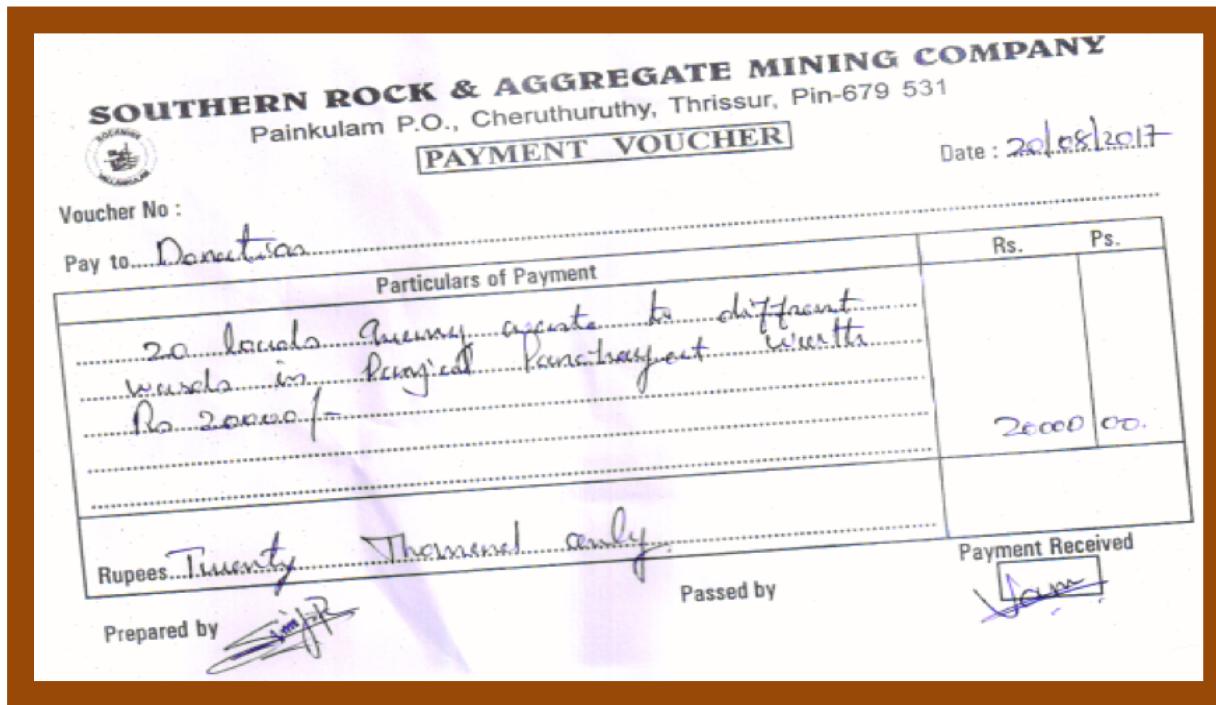
Pay to Donation

Particulars of Payment	Rs.	Ps.
Being Cash paid to <u>Donation</u>	25000	00
Rupees <u>Twenty five Thousand only</u>	25000	00

Prepared by SPR

Passed by SPR

Payment Received SPR



### CSR ACTIVITY RECEIPTS