



PH : 04884 261563

SOUTHERN ROCK & AGGREGATE MINING COMPANY

(Govt: Approved Mine Owners, PWD & Railway Contractors)

Financed by Kerala Financial Corporation

WORKS :- PAINKULAM P.O, CHERUTHURUTHY, THRISSUR DIST., KERALA - 679 531

Ref:.....SR/CRU/TC/2022/002

Date : 28/03/2022..

To,
The Member Secretary, SEIAA,
4th Floor, KSRTC Bus Terminal Complex
Thiruvananthapuram – 695 014, Kerala State.

Respected Sir/Madam,

Sub: Submission of Half yearly Compliance report for the period April 2021 to September 2021 in respect of our Building Stone quarry situated in Sy. Nos. 1019/3, 1019/4, 1019/5, 1019/6, 1019/7, 1021/6, 1021/8, 1021/9, 1027P, 1028P, 1029P and 1030 P at Painkulam village, Thalappilly Taluk, Thrissur District extends over an area of 7.800 Ha – Reg.

Ref: 1. File No.285/SEIAA/KL/1362/2014, dated 03.03.2021
2. Environmental Clearance issued Vide letter No. 285/SEIAA/KL/1362/2014 Dated: 05/12/2014.

With respect to above subject, we are herewith submitting the detailed half yearly Compliance Report for the period from **April 2021 to September 2021** to all the conditions stipulated in the Environmental Clearance (EC) issued vide reference cited above.

Thanking you,

Yours faithfully,

For **SOUTHERN ROCK & AGGREGATE MINING COMPANY**,

PRINCE ABRAHAM

Authorized Signatory.

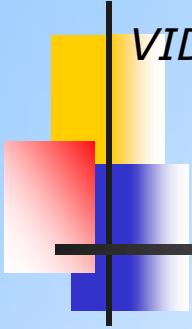


- i. Directorate of Environment and Climate Change, 4th Floor, KSRTC Bus Terminal, Complex Thiruvananthapuram, Kerala State.
- ii. The Regional Office, Ministry of Environment, Forests & Climate Change (SW), Kendriya Sadan, IV Floor, E & F Wings, 17th Main Road, Koramangala II Block, Bangalore - 560034.

Encl : as above

Head Office : Vallamkulam P.O, Thiruvalla, Kerala, India, Pin - 689 541, Ph : 0469 2608246

*COMPLIANCE TO THE CONDITIONS STIPULATED IN THE
ENVIRONMENTAL CLERANCE ISSUED BY STATE LEVEL
ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, KERALA
VIDE NO. 285/SEIAA/KL/1362/2014 DT. 05/12/2014*



*For the
Building Stone Quarry of
**M/s. SOUTHERN ROCK & AGGREGATE MINING
COMPANY***

Situated in Survey Nos: 1019 / 3 / 4 / 5 / 6 / 7, 1021 / 6 / 8 / 9, 1027 Part,
1028 Part, 1029 Part & 1030 Part of Painkulam Village,
Thalappilly Taluk, Thrissur District, Kerala State,

EXTENT : 7.800 HA

*Half yearly Compliance Report
(from April 2021 to Sep 2021)*

Prepared for the year

2021 - 22

PREPARED BY
METAMORPHOSISSM Project Consultants Pvt. Ltd.
HEAD OFFICE
200, 2 nd Floor, 1 st Cross, 40 th Main, 2 nd Stage, Behind Silk Board, BTM Layout, (Kuvempu Nagar), Bengaluru – 560 068, Telefax : +9180 - 2678 3006

INTRODUCTION:

The company was established by **Mr. T. Mathew Abraham** who was a mines manager at Kerala Ceramics, Kundra (Kerala Govt. Undertaking) having 45 years of experience in the various major mining industries at entire world. Southern Rock is a Gold card holder of Kerala financial Corporation. **Mr. Prince Abraham** is son of **T. Mathew Abraham**, he is graduate in Mining Engineering from Golden Valley Industries of Engineering Kolar Gold fields Bangalore University. He took training for a period of one year at Malabar Cements Ltd, Walayar and immediately after his training he is involved in all the activities of Southern Rock. **Mr. Prince Abraham** is authorized signatory.

Southern Rock and Aggregate Mining Company is a Proprietorship company established in the year 1987. Company's head office is situated at Vallamkulam, Thiruvalla. **Southern Rock and Aggregate Mining Company** is operating a building stone quarry situated at Survey Nos: 1019 / 3 / 4 / 5 / 6 / 7, 1021 / 6 / 8 / 9, 1027 Part, 1028 Part, 1029 Part & 1030 Part in Painkulam Village, Thalappilly Taluk, Thrissur District, Kerala State, extends over an area of 7.8000 Ha.

The said quarry lease was granted by the Director of Mining and Geology Govt. of Kerala for twelve years which was executed on 19th March 2015 and it is valid till 18th March 2027.

Further Lessee has obtained the Environment clearance to produce 3,00,000 (3.0 lakh) tonnes of building stone material per annum, a copy of the Environmental Clearance is enclosed in the foregoing pages.

First mining plan was prepared for the above said area and obtained approval vide DMG office letter No. 368 / C2 / TSO / 15 dated 21/02/2015. The approved mining plan got expired on 31st March 2019, hence the scheme of mining / review of the mining plan was Prepared under Rule 67 (1) & 58 of Kerala Minor Mineral Concession Rule 2015 submitted and the same was approved by DMG for next five years vide their office letter No. 854/C2/TDO/ 2019 dated 29/03/2019.

The lease area lies towards northwest of panjal village at a distance of 1.5 kms (aerial distance) and also lies towards southeast of Cheruthuruthy village at a distance of 2.5 kms approximately. (Distances are aerial). This lease area is approachable by all weather road/s.

Thrissur is the district head quarter which is at a distance of 25.0 kms approximately where all the infrastructural facilities are available. The nearest Harbour and airport is at Cochin which is at a distance of 60 kms (approximately). The nearest railhead on Broad-gauge is Vallathol Nagar at a distance of 1.50 kms.

The area falls under the Survey of India Toposheet **No. 58 / B / 6** since the topo maps of Kerala are restricted the same are not available. The said quarry lease is having 15 corner pillar and the geographical co – ordinates of the same are shown below: the same is depicted on Drainage plan enclosed as **Plate No. 1**.

B. P. No.	Latitude	Longitude	B. P. No.	Latitude	Longitude
01	N: $10^0 44' 02.9''$	E: $76^0 17' 40.5''$	09	N: $10^0 44' 08.6''$	E: $76^0 17' 46.3''$
02	N: $10^0 44' 02.6''$	E: $76^0 17' 43.2''$	10	N: $10^0 44' 10.6''$	E: $76^0 17' 46.2''$
03	N: $10^0 44' 03.0''$	E: $76^0 17' 46.9''$	11	N: $10^0 44' 11.2''$	E: $76^0 17' 42.9''$
04	N: $10^0 44' 03.0''$	E: $76^0 17' 49.3''$	12	N: $10^0 44' 09.2''$	E: $76^0 17' 43.1''$
05	N: $10^0 44' 02.6''$	E: $76^0 17' 53.4''$	13	N: $10^0 44' 08.8''$	E: $76^0 17' 39.0''$
06	N: $10^0 44' 08.7''$	E: $76^0 17' 52.7''$	14	N: $10^0 44' 06.7''$	E: $76^0 17' 38.2''$
07	N: $10^0 44' 09.2''$	E: $76^0 17' 48.8''$	15	N: $10^0 44' 05.5''$	E: $76^0 17' 40.3''$
08	N: $10^0 44' 08.6''$	E: $76^0 17' 47.2''$	--	--	--

On receipt of the Environmental Clearance on 05/12/2014, management started their quarry activities, by following all the Rules, Regulations, Acts and so on. As a part of the of the compliance of the EC conditions that, it is a mandate to submit the Half Yearly Compliance report (i.e, 1st Half yearly from April to September and 2nd Half yearly from October to March).

Accordingly the 1st half yearly report for the month April 2021 to September 2021 for the year 2021 - 22 has been prepared and enclosed along with the this. Similarly the Environmental monitoring has been carried out as per the guidelines and the same is enclosed along with the compliance report.

Proceedings of the State Environmental Impact Assessment Authority Kerala-

(Present Prof. (Dr.) K.P.Joy, Chairman, Dr.J.Subhashini, Member, Dr.Nivedita.P.Haran IAS, Member Secretary & Additional Chief Secretary to Government (Environment Department)

Sub: Southern Rock & Aggregate Mining Company, Painkulam Village, Thalappilly Taluk, Thrissur District, Kerala – Environmental Clearance – Accorded

Environmental Clearance

No. 285/SEIAA/KL/1362/2014

dated, Thiruvananthapuram 05.12.2014

Ref:- 1. Application dated 25.03.2014 submitted by the Proprietor of M/s Southern Rock & Aggregate Mining Company, at Painkulam Village, Thalappilly Taluk, Thrissur District, Kerala
2. Minutes of the 29th meeting of SEAC held on 2nd & 3rd May 2014
3. Minutes of the 32nd meeting of SEAC held on 12th & 13th August 2014
4. Minutes of the 34th meeting of SEIAA held on 31.10.2014

ORDER

Sri. T. Mathew Abraham, Proprietor, M/s Southern Rock & Aggregate Mining Company, Painkulam Village, Thalappilly Taluk, Thrissur District, Kerala, vide his application received on 25.03.2014, has sought Environmental Clearance under EIA Notification, 2006 for the building stone quarry project in Sy. Nos. 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 for an area of 7.8000 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18th May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.



<i>Name of project</i>	Building Stone Quarry of M/S Southern Rock & Aggregate Mining Company
<i>Brief description of the project</i>	Open cast mining
<i>Category/Subcategory & Schedule</i>	“B” Category , 1(a)
<i>Location Sy no/ district, Taluk/ village etc.</i>	Sy. Nos. 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
<i>GPS co-ordinates</i>	N: 10° 44' 02.9" to N: 10° 44' 10.8" and E: 76° 17' 38.2" to E: 76° 34' 53.4"
<i>for Mining projects</i>	
<i>Extent of area (in hectares)</i>	7.800 Ha
<i>Minimum and maximum height of excavation (MSL)</i>	Highest 120 MSL and Lowest 60 MSL
<i>Life of mine proposed</i>	20 years
<i>Ultimate depth of mining (in MSL)</i>	30 MSL
<i>Distance from the adjacent quarry</i>	1. 0.400 kms from quarry towards SW 2. 0.450 kms from quarry towards NW
<i>Capacity of production</i>	Building Stone 3,00,000 tones/annum.

Details of Project Cost	Total Project: Rs. 6.50 Crores Land Cost: Rs. 2.50 Crores Plant & Machinery: Rs. 3.50 Crores Construction : Rs. 0.5 Crores
CRZ recommendations	Nil
Forest clearances	Nil

ABOUT THE PROJECT

Environmental parameters	Mitigation Measures
Water requirement & sources	WATER Domestic consumption – 2.00 KLD met from Borewell within the quarry site. Dust suppression: 16.0 KLD met from Borewell within the quarry site. Plantation: 2.0 KLD met from Borewell within the quarry site.
RWH units proposed	One Rain water harvesting ponds will be created which will act as tool for ground water recharge and rain water harvesting pond.
Facilities for liquid waste treatment	Liquid waste will be treated in CPCB approved Septic Tank & soak pit.
Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	Nil
Does it have provisions for use of recycled water	Water used for cutting of rock mass will be recycled for cutting purpose.
Proximity to forest lands	LAND Painkulam reserve forest is at a distance of 2.25 kms towards E of quarry
Access road to the site –Width & Condition	7 m width of road and good condition to haul the material
Storage of explosives /hazardous substances	Explosives will be stored, transported, handled and used in accordance with India Explosive Act1884.MSIHCRules 1989, Mines act1952 and regulation thereunder. Hazardous materials like spent oil being disposed off as per the existing Rules & Guidelines of Hazardous Waste (Management & Handling) Rules, 1989 and 2003 and are being sent to stores for disposal through authorized agents.
Facility for solid waste mgmt	About 2,92,000 tonnes is likely to generate till life of the quarry. About 13,800 tonnes (average for the plan period) of waste is likely to generate every year. This will be dumped in the area ear marked for the purpose. During the post mining stage entire dump material will be backfilled in the pit. About 21.60 KLD of domestic effluents is likely to generate,

		the same will be treated and disposed, through septic tank and soak pit as per the approved KSPCB norms.
	<i>Topographic features/ slope</i>	The quarry area is situated in the NW-SE trending chains of hillocks south of Cheruthuruthy & North of Panjal. The highest elevation is about 120 m above MSL towards north of the proposed lease area and the lowest elevation is 60 m above MSL towards southern part. The lease area is generally sloppy NE to SW. The slope is moderate. Part of the lease area is more or less broken up where there is no vegetation and the balance area is covered with rubber & other plantation. There are no perennial water course / water bodies / streams / nallahs within the leasehold area. The storm water passes through the minor water courses and gets confluence with the adjacent nallah.

	<i>Top soil, overburden etc.</i>	Topsoil 67,500 tonnes (till life of the mine) Waste Rock : 2,92,000 tonnes (till life of the mine).
--	----------------------------------	--

AIR

<i>Air quality meeting requirements</i>	Monitoring of air quality monitored and analysed both in core & buffer zone and results found within the limits of NAAQ standards.
<i>Noise level meeting requirements</i>	Noise level survey carried out both during the activity in the quarry area and nearby villages.
<i>Likely emissions affecting environment</i>	Due to quarry activity and operation of heavy earth moving machinery generation of dust, noise is likely. However, mitigative measures are proposed accordingly in the EMP.

ENERGY

<i>Energy requirement</i>	Power requirement for office and other buildings is 400KVA
<i>Energy Sources</i>	Power for office and other buildings will be met through KSEB.

BIODIVERSITY

<i>Presence of any endangered species or red listed category</i>	Nil
<i>Loss of native species and genetic diversity</i>	There will not be any loss of native species of genetic diversity as the quarry already exists and continuation of the same will not affect or loss of native species in general.

SOCIAL ASPECTS

<i>Proximity to nearest habitation</i>	108 m from the boundary of mining lease area Towards north west
--	--

GENERAL

<i>Does it propose environment management plan</i>	Yes, The Environmental Management Plan submitted.
<i>Does it have eco restoration programmes</i>	Post mining closure plan is prepared and the same will be implemented.
<i>Litigation/court cases, if any.</i>	Nil



	against the project (provide details)	
	Details of Authorised Signatory	Mr. T. Mathew Abraham, Proprietor M/s Southern Rock & Aggregate Mining Company Painkulam P.O., Cheruthuruthy, Thrissur, Kerala – 679531.
	Details of NABET approved EIA consultant Organisation	METAMORPHOSIS, 143, 39 th main 4 th Cross, Behind Silk Board, BTM, Layout, II stage Bangalore 560068 QCI/NABET Accreditation serial no. NABET/EIA/1215/141

The proposal was placed in the 29th SEAC meeting held on 2nd & 3rd May 2014 as item No. 29/09. The project proponent attended the meeting and made a brief presentation before the Committee. The Committee found that the proponent has provided copies of land tax receipt for Sy. Nos. 1019/3, 1019/4, 1027 and 1028 and possession certificate for Sy. Nos. 1019/3, 1019/4, 1019/5, 1021/8, 1021/9, 1027, 1028 in the name of the proponent and copy of land tax receipt and possession certificate for Sy. Nos. 1030, 1019/6 and 1019/7 in the name of Prince Abraham, but in the application, EC is sought for 'part' of Sy. Nos. 1027, 1028 and 1030. Hence the proponent was directed to provide a map marking the exact distance of the project site from the survey boundary pillars precisely marking the proposed mining area in the Sy. Nos. mentioned in the proposal.

The Committee noticed the following shortcomings/discrepancies in the application submitted by the proponent:

- (i) Basic information of the project not provided.
- (ii) Affidavit from the proponent undertaking that he is owning the firm M/s Southern Rock & Aggregate Mining Company and that he is the sole proprietor of the firm provided. But Certificate of incorporation of the firm was not provided so as to ascertain details of Directors of the firm, if any.
- (iii) In the area survey plan provided, 'part' of Sy. Nos. mentioned in the proposal is not shown so, but the total area is the same as that mentioned in the proposal (7.8000 hectares).
- (iv) Details on CSR provided but the areas/institutions for which the same shall be extended is not specifically provided. Committee suggested the inclusion of organ transplant also under CSR.

Considering the above, the item was deferred for site visit and seeking the following additional clarifications for further consideration of the proposal:

1. Map marking the exact distance of the project site from the survey boundary pillars precisely marking the proposed mining area in the Sy. Nos. mentioned in the proposal.

Clarification on items (i) to (iv) above.

An expert Committee of DoECC inspected the site on 20th June 2014 and made the following observations:

This is an active quarry with crusher unit falling in Painkulam village, Thalappilly Taluk. The quarry is approachable from Cheruthuruthi - Panjal road. The general trend of the hillock is SE-NW and the slope is moderately steep towards southwest. The main rock type is foliated charnockite with well developed joint planes having slickenslides. Weathering is moderate mostly limited to the flat topped crestal portions

While the slopes expose rock outcrops. Pockets of thick OB are also noticed. Rubber is the dominant crop in the vicinity. Streams are not seen in the premises. Bharathapuzha is about 2 km to the east. Main haulage lines are ill defined and not hard topped. The crusher unit is encased with minimum dust emission. Settlement and buildings are observed on the southwest but beyond 100 m. HT lines on the west and east are also beyond 100 m. Steep faces of old quarry workings are noticed in the lower part of the hill ridge. Based on the site observations, following points may be taken into consideration:-

1. Steep cuttings with more than 15 m 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 leading 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.
2. Pockets of OB are seen in the elevated crestal part and in the eastern flanks. This is now stored in the low lying area but not in des
3. Designated places. Sheet flow of rainwater can carry soil from this area. There 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 also be preserved.
4. Mechanism provided to channelise 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 exiting from this area is not provided with silt traps and lined channels though planned. A proper silt trap mechanism and clarification mechanism must be provided.
5. There is no separate stock yard for the finished products from their crusher unit. Presently it is being stored in open space on the southern side.
6. Vegetative covering must be provided in the debris mantle slopes where quarry operation is not planned.
7. 100 m buffer distance must be provided from the dwelling units.

Subsequently, the proposal was placed in the 32nd SEAC meeting held on 12th & 13th August 2014 as item no. 32.32. The project has been recommended as per the following specific condition in addition to the general conditions stipulated for mining projects:

1. Steep cutting with more than 15 m seen in the lower / bottom region must be fenced and provided with danger sign boards.

The proposal was placed in the 34th SEIAA meeting held on 31st October 2014 as item no. KLA/34.50 and decided to grant E.C subject to the new 5 additional general conditions on mining adapted in the joint meeting of SEAC/SEIAA held on 31.10.2014 and the following 6 special conditions recommended for by SEAC:

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 leading 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.
2. Pockets of over burden 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. There 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.

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 exiting 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.
4. There is no separate stockyard for the finished product from their crushed unit. Presently it is being stored in open space on the southern side.
5. Vegetative covering must be provided in the debris mantle slopes where quarry operation is not planned.
6. 100m buffer distance must be provided from the dwelling units.
7. Validity of the E.C will be 5 years.

The Authority approved the proposal for issue of environmental clearance subject to the general and special conditions as per the recommendations of SEAC.

Environmental Clearance under EIA notification 2006 is accorded for the proposed quarry project of M/S Southern Rock & Aggregate Mining Company, in Sy. Nos. 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 subject to all the mining features, Environmental Management Plans as undertaken in the EMP submitted to SEIAA (pages 42-66 of report) which will form part of this proceedings on if incorporated herein, and the following additional specific conditions, and the general conditions on mining of minor minerals as modified, appended hereto.

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 leading 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.
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. There 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.
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 exiting 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.
4. There is no separate stockyard for the finished product from their crushed unit. Presently it is being stored in open space on the southern side.
5. Vegetative covering must be provided in the debris mantle slopes where quarry operation is not planned.
6. 100m buffer distance must be provided from the dwelling units.

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

GENERAL CONDITIONS (for mining projects)

- (i) Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.
- (ii) Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- (iii) Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads.
- (iv) Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project..
- (v) Sprinklers shall be installed and used in the project site to contain dust emissions.
- (vi) Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
- (vii) At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumpings and overburden and planted with indigenous plant species that are eco-friendly.
- (viii) Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented
- (ix) *The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mine.*
- (x) Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
- (xi) Control measures on noise and vibration prescribed by KSPCB should be implemented.
- (xii) Quarrying activities should be limited to day time as per KSPCB guidelines.
- (xiii) Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
- (xiv) A licensed person should supervise/ control the blasting operations.
- (xv) Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
- (xvi) Overburden materials should be managed within the site and the old quarries, if any, should be reclaimed and restored.
- (xvii) Height of benches should not exceed 5 m and width should not be less than 5 m.
- (xviii) Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.
- (xix) *Maximum depth of mining from general ground level at site shall not exceed 10m*
- (xx) No mining operations should be carried out at places having a slope greater than 45°.
- (xxi) 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.
- (xxii) The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
- (xxiii) Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
- (xxiv) The transportation of minerals should be done in covered trucks to contain dust emissions.
- (xxv) The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
- (xxvi) Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.
- (xxvii) Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
- (xxviii) *A minimum buffer distance of 100m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided*
- (xxix) 200 m buffer distance should be maintained from forest boundaries.
- (xxx) Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity.
- (xxxi) All other statutory clearances should be obtained, as applicable, by project proponents from the respective

Validity of this Environmental clearance will be 5 years from 1-10-2014 provided that it will be subject to review at any stage earlier, if any of the conditions is the E.C. is violated, or not duly complied with.

- I. Compliance of the conditions herein will be monitored by the Directorate of Environment and Climate Change or its agencies and also by the Regional office of the Ministry of Environment and Forests, Govt. of India, Bangalore.
- II. Necessary assistance for entry and inspection should be provided by the project proponent and those who are engaged or entrusted by him to the staff for Inspection or monitoring.
- III. Instances of violation if any shall be reported to the District Collector, Thrissur to take legal action under the Environment (Protection) Act 1986.



For Member Secretary (SEIAA)

To.

Sri. T. Mathew Abraham
Proprietor
M/s Southern Rock & Aggregate Mining Company
Painkulam P.O.,
Cheruthuruthy,
Thrissur, Kerala – 679531.



Copy to:

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034
2. The Addl. Chief Secretary to Government, Environment Dept., Government of Kerala
3. The District Collector, Thrissur
4. The Director, Dept. of Environment and Climate Change, Govt. of Kerala, Tvm – 24.
5. The Director, Mining and Geology Department, Government of Kerala
6. The Secretary, Painkulam Grama Panchayath, Thalappilly Taluk, Thrissur District
7. Chairman SEIAA Kerala
8. Website
9. Stock file
10. O/c

competent authorities including that for blasting and storage of explosives.

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

(xxxiii) The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

(xxxiv) 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.

(xxxv) 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.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.

(xxxvi) A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat/ District Panchayat/ Municipality/Corporation/Urban Local Body and also to the Local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.

(xxxvii) The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data (**both in hard copies as well as by e-mail**) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website 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.

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

(xxxix) 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.

(xl) The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license or consent given by any other authority for the same project



Member Secretary, SEIAA Kerala

C.S. YALAKKI IFS
DIRECTOR
Department of Environment & Climate Change
Pallimukku, Petteh
Thiruvananthapuram-24

**COMPLIANCE TO THE CONDITIONS STIPULATED IN THE ENVIRONMENTAL CLEARANCE ISSUED
BY STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, KERALA,**

Issued vide No. 285/SEIAA/KL/1362/2014 DATED 05-12-2014

**for the Building Stone Quarry situated in Sy. Nos. 1019/3, 1019/4, 1019/5, 1019/6, 1019/7, 1021/6, 1021/8, 1021/9, 1027P, 1029P & 1030P
at Painkulam Village, Thalappilly Taluk, Thrissur District, Kerala State of M/s. Southern Rock & Aggregate Mining Company.**

HALF YEARLY COMPLIANCE REPORT FOR THE YEAR 2021 – 22 (April 21 to September 21)

Sl. No.	Conditions	Compliance															
1.	Rain water harvesting facility should be installed as per the prevailing provisions of KMBR / KPBR unless otherwise specified.	<p>Garland drains are provided such that entire rain water is channelized to the rain water pond and the same is utilized for plantation, sprinkling on the road and agricultural purpose.</p> <p>Rain water harvesting facility has been provided a drainage plan showing the rain water harvesting is enclosed as PLATE No. 1 & a photographs of the Rainwater Harvesting Pond is enclosed as FIGURE No. 1.</p>															
2.	Environment monitoring cell as agreed under the affidavit filed by the proponent should be formed and made functional.	<p>An separate environment monitoring cell has been formed as agreed and made functional with suitable qualified personnel shown as below:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Sl. No.</th><th style="text-align: center;">Details / Designation of the qualified personnel</th><th style="text-align: center;">Name of the personnel</th></tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td><td>Head of the Monitoring Cell</td><td>Mr. T. Mathew Abraham</td></tr> <tr> <td style="text-align: center;">2</td><td>Incharge/Manager of the cell</td><td>Mr. Prince Abraham</td></tr> <tr> <td style="text-align: center;">3</td><td>Environmental Officer</td><td>Mrs. Reya Prince</td></tr> <tr> <td style="text-align: center;">4</td><td>Officer incharge at site</td><td>Mr. Mijo P S</td></tr> </tbody> </table> <p>Further for regular monitoring of Environmental attributes, it is outsourced to an authorized agency accredited / recognized by MoEF & CC and NABET</p>	Sl. No.	Details / Designation of the qualified personnel	Name of the personnel	1	Head of the Monitoring Cell	Mr. T. Mathew Abraham	2	Incharge/Manager of the cell	Mr. Prince Abraham	3	Environmental Officer	Mrs. Reya Prince	4	Officer incharge at site	Mr. Mijo P S
Sl. No.	Details / Designation of the qualified personnel	Name of the personnel															
1	Head of the Monitoring Cell	Mr. T. Mathew Abraham															
2	Incharge/Manager of the cell	Mr. Prince Abraham															
3	Environmental Officer	Mrs. Reya Prince															
4	Officer incharge at site	Mr. Mijo P S															

Sl. No.	Conditions	Compliance
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	Suitable trees / sapling are planted on either side along the approach road and wherever the open space are available and regular watering, manuering and care after plantation is taken. Mainly local species are planted such as Rubber, Jackfruit, Mangao Thengu and so on are planted. Few photographs of the same is enclosed as FIGURE NO. 2
4.	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	Installation of solar lights and Surveillance cameras on the parking area/approach roads has been initiated and much more lights will be installed on roads in near future. Few photographs showing the solar energy lights is enclosed as FIGURE NO. 3
5.	Sprinkles shall be installed and used in the project site to contain dust emissions.	Sprinklers are installed in the project site and also outside the project site to minimize the dust emission from the process and vehicles. Photographs of the same are enclosed as FIGURE NO. 4
6.	The eco-restoration plan submitted with the proposal should be fully implemented.	Eco-restoration plan will be Implemented, as per the Post Mine Closure Plan plan submitted. However, as a part of progressive stage: plantation, protective bunds and etc., has been carried out, few photographs of the same is enclosed as FIGURE NO. 5.
7.	At least 10 percent of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with indigenous plant species that are eco friendly,	It is proposed to convert 1.00 ha of excavated pit area (out of 7.80 ha of total area which is 13%) for water storage and 0.75 Ha for back filling of quarry muck. This will be done at the final stage of the quarry closure. The same is discussed in the approved mining plan. Conceptual Plan showing the same is enclosed as PLATE NO. 2.

Sl. No.	Conditions	Compliance
8.	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented	<p>As a part of CER (formerly it was Corporate Social Responsibility), management has initiated and taken up the following works towards social commitment:</p> <ol style="list-style-type: none"> 1. Supply of Quarry Muck material to KSEB for filling the 11 kv poles , damaged due to natural calamity. 3. Contribution to CM Disaster Relief Fund Rs. 3,00,000/- (Enclosed as ANNEXURE No. 7) 4. Supply of material towards Flood relief 5. Supply of Cargo Van (Battery Operated) to Mental Hospital - Thrissur 6. Supply of road metal to Shoranur municipality to repair the damaged road due to floods. 7. Supply of quarry muck to Panjal Gramma Panchayat, Shoranur Police station to repair the damaged road due to floods. 8. Similarly, quarry muck was supplied for few local panchayat, local person to rectify their damaged structure due to floods. 9. Distribution of Tab / TV for students during the pandemic situation to attend their online classes. 10. Distribution of food grains / groceries to the needy people at Panjal during the pandemic situation. 11. Renovation / repair of three houses through local panchayat for needy people by supplying the required materials. <p>Few photographs of the above, are enclosed as FIGURE NO. 6 TO 12</p>

Sl. No.	Conditions	Compliance
9.	<p>The lease area shall be fenced off with barbed wires to a minimum height of 4 ft around, before starting of mining. All the boundary indicators (boards, stones, markings etc) shall be provided at all times and shall be conspicuous.</p>	<p>Fencing all around the boundary of quarrying area has been provided. A photograph of the same is enclosed as FIGURE No. 13.</p>
10.	<p>Warning alarms including the time of blasting (to be done at specific timings) to be arranged as per stipulation of Explosive Department.</p>	<p>Controlled blasting is being followed / practiced as per regulation of explosive department under the supervision of competent persons. Blasting Time 10.0 AM to 10.30 AM & 1.00 PM to 1:30 PM (Blasting time board displayed is enclosed as FIGURE NO. 14)</p> <p>Before blasting as per the stipulation of Explosive department the siren will be given, the area of blasting and its surrounding will be cleared, then blasting will be carried out. And the time of blasting is mentioned at the entrance, during the blasting no unauthorized people are permitted to enter the quarry area.</p>
11.	<p>Control measures on noise and vibration prescribed by KSPCB should be implemented.</p>	<p>Yes implemented, The dust & sound levels were monitored and the results so obtained found to be well within the limit. A copy of the Noise monitoring report is enclosed as ANNEXURE No. 1</p>
12.	<p>Quarrying activities should be limited to day time as per KSPCB guidelines.</p>	<p>Quarrying activities are limited only during the day time.</p>
13.	<p>Blasting should be done in a controlled manner as specified by the regulations of Explosive Department or any other concerned agency.</p>	<p>Control blasting has been practiced by way of adopting scientific and technical way of drilling. Proper spacing and burden are maintained to obtain optimal powder factor.</p>

Sl. No.	Conditions	Compliance
14.	A Licensed person should supervise / control the blasting operation	A certified Mines manager has been appointed to supervise the drilling and blasting and the drilling and blasting will be carried out by a certified mine mate and mine foreman. A copy of the mate certificate is enclosed as ANNEXURE No. 2.
15.	Access road to the quarry shall be tarred to contain dust emission that may rise during the transportation of materials.	Access road has been tarred and maintained effectively. and also the avenue plantation has been carried out. Few photograph showing the road tarred and plantation carried out on either side is enclosed as FIGURE No. 15
16.	Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan / specific conditions.	overburden material has been stacked inside the quarry and the same will be utilized to back fill the mined out area during the mine closure.
17.	Height of the benches should not exceed 5m, and width should not be less than 5m. if there is no mentioned in the mining plan / specific conditions.	The height and width of the benches are maintained 5.0 mts each, accordingly benches are formed. A photograph showing the benches height and width is enclosed as FIGURE No. 16.
18.	Mats to reduce fly rocks blast to a maximum of 10 PPV should be provided.	Since the blast holes are limited to 32 mm dia and the depth is not more than 3.0 mts and the charge per hole is scientifically charged such that the fly rocks will be less than 10 PPV.
19.	Maximum depth of mining from general ground level at site shall not exceed 10 m.	It is ensured that, no mining operations shall exceed below 10 m from the general ground level..
20	No mining operations should be carried out at places having a slope greater than 45°.	It is ensured that, no mining operations shall be carried out at places having a slope greater than 45°

Sl. No.	Conditions	Compliance
21	Acoustic enclosure should have been provided to reduce sound amplification in addition to the provision of green belt and hollow brick envelop for crusher so that the noise level is kept within prescribed standards given by CPCB / KSPCB	In the Crushing unit / area, entire activity is in house and closed conveyor system is practiced. Plantation has been carried out within the safety barrier of 7.50 mts along the lease boundary periphery which act as acoustic enclosure to reduce sound amplification. Further it is ensured that noise level is kept within the prescribed standards as per CPCB / KSPCB. Few photographs of the closed conveyor and the plantation is enclosed as FIGURE No. 17 & 18
22	The worker on the site should be provided with the required protective equipment such as earmuff, helmet etc.,	personnel protective equipment's such as earmuff, helmet, safety shoes, and gloves are provided to all the workers on the site the. Photograph showing the workers with the PPE is enclosed as FIGURE No. 19 .
23	Garland drains with clarifies to be provided in the lower slopes around the core area to channelize storm water.	Drains are cut along toe of the quarry faces to divert the surface run off. Garland drain is provided at the quarry top to regulate monsoon water and direct the same to the settling ponds / quarry pit to contain the quarry wash off and to avoid the same joining to the adjoining surface water bodies / water courses. It also helps to avert eventual collapses and damages to the quarry faces. Photographs of the Garland drains is enclosed as FIGURE No. 20 .
24	The transportation of minerals should be done in covered trucks to contain dust emissions.	Yes, all the building stone carrying trucks is compulsorily covered by Tarpaulins. Photographs showing the trucks covered by tarpaulins are enclosed as FIGURE No. 21 .

Sl. No.	Conditions	Compliance
25	The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.	The Quarry area proposed for operation was covered by building stone outcrop and the existence of the plants / trees is as good as non existence. However there are few plant and trees in the future proposed area for operation. Depending upon the quantum of the plant & trees which will be removed, accordingly it will be planted in the ratio of 1 : 5. However plantation is in progress within the quarry area (within 7.50 mts buffer / safety zone) and outside the quarry so as to protect the environment. Few photographs of plantation is enclosed as FIGURE NO. 22 .
26	Disposal of spent oil or diesel engines should be specified under relevant rules / regulations.	The spent oil generated from diesel engines or any other source will stored separately in the barrels and the same will be disposed / sold to the approved / authorized recycler / as per HMW rules, 2016.
27	Explosive should be stored in magazine in isolated place specified and approved by the Explosive Department.	Explosive are stored in a magazine at isolated place as specified and approved by the Explosive Department. A copy of the same is enclosed as ANNEXURE No. 3 , and the photographs showing the magazine is enclosed as FIGURE No. 23 .
28	A minimum buffer distance of 100 m from the boundary of the quarry to the nearest dwelling unit or other structure not being any facility for mining shall be provided.	Minimum buffer distance has been maintained from Dwellings and structure. A surface plan (500 m) showing the distance maintained from dwellings / structures is enclosed as PLATE No. 3 .
29	200 m buffer distance should be maintained from forest boundaries.	200 mts buffer distance will be maintained from the forest boundaries where ever it is there.

Sl. No.	Conditions	Compliance
30	Consent from Kerala State Pollution Board under Water and Air Act(s) should be obtained before initiating mining activity.	Consent from Kerala State Pollution Board under Water and Air Act(s) has been obtained and a copy of the same is enclosed as ANNEXURE No. 4 .
31	All other statutory clearance should be obtained, as applicable by project proponent from the respective component authorities including that for blasting and storage of Explosive.	All the required statutory clearance such as approval explosive department, KSPCB, are enclosed and discussed the same in above sl. Nos 27 & 30
32	In case of any change(s) in the scope of the project, that project would require a fresh appraisal by this authority.	Presently there are no any changes in the scope, if there are any changes in future in the scope definitely we will approach the Authority.
33	The authority reserve the right to add the additional safe guard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provision of the environment (protection Act) 1986 to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Any additional safe guard measures proposed from the authority the same will be implemented.
34.	The stipulation by Statutory Authorities under different acts and notification should be complied with, including the provision of water (prevention and control of pollution) Act, 1974, the air (prevention and Control of Pollution) Act 1991 and BIA notification 2006	Any stipulation laid down by any statutory authorities under different act and notification will be complied including the provision of water (prevention and control of pollution) Act, 1974, the air (prevention and Control of Pollution) Act 1991 and EIA notification 2006

Sl. No.	Conditions	Compliance
35.	<p>The project proponent should advertise in atleast two local newspapers widely circulated in the region, one of which (both the advertisement and newspapers) shall be in the vernacular language informing that the project has been accorded Environment Clearance and copies of clearance letters are available with the State Environmental Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all the pages should be forwarded to the office of this Authority as confirmation.</p>	<p>It has been published in the two local news papers namely, English version in HINDU and Malayalam version in MALAYALA MANORAMA</p> <p>A copy of the published is enclosed as ANNEXURE No. 5.</p>
36.	<p>A copy of the clearance letter shall be sent by the proponent to the concerned Gram panchayat / District Panchayat / Municipality / Corporation / Urban local body also to the NGO, if any from whom suggestion / representations if any, where received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.</p>	<p>A copy of the clearance letter submitted to the concerned department such as Gram Panchayat / District Panchayat / Municipality / Corporation / Urban local body also to the NGO. If any, from whom suggestion / representations received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.</p>

Sl. No.	Conditions	Compliance
37.	<p>The proponent shall submit half yearly reports complaints of the stipulated EC conditions including results of monitored data both in hard copies as well email and upload the status of compliance of the stipulated EC condition including results of monitored data on their website and shall update the same periodically. Each shall simultaneously be sent to the respective Regional Office of MOEF Government of India also of the State Environment Impact Assessment Authority (SEIAA) office.</p>	<p>Half yearly compliance reports are being submitted as per the stipulated EC conditions along with environmental monitoring data and sent simultaneously to the respective Regional Office of MOEF Government of India also of the State Environment Impact Assessment Authority (SEIAA) office.</p>
38.	<p>The conditions of Environment Clearance should be prominently displayed in a metallic board 3 ft X 3 ft with green background and yellow letters of Times New Roman Font of size of not less than 40.</p>	<p>Details of Environment Clearance is prominently displayed in a metallic board 3 ft X 3 ft with green background and yellow letters of Times New Roman Font of size 40 with extent of lease area and boundaries depicted at the entrance of the quarry visible to the public.</p> <p>A photo showing the above board is enclosed as FIGURE No. 24.</p>
39.	<p>The Proponent should provide notarized affidavit indicating the number and date of Environmental Clearance proceedings that all the conditions stipulated in the EC shall be scrupulously followed.</p>	<p>Notarized affidavit has been submitted stating that Environmental Clearance proceedings that all the conditions stipulated in the EC shall be scrupulously followed. A copy of the affidavit is enclosed as ANNEXURE No. 6.</p>
40	<p>The above conditions shall prevail notwithstanding anything to the contrary in consistent or simplified contained in any other permit, License or consent given by any other authority for the same project.</p>	

ANNEXURE 8



POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY
PALLATH BUILDING, N, KALAMASSERY P. O., ERNAKULAM - 683104

Phone : 0484-2546010, 9201982322, 9747400095, 9747400088, www.poluchem.com, poluchem@gmail.com

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/AMB/RT/2370/2021
M/s Southern Rock & Aggregate Mining Co Painkulam Post Cheruthuruthy, Thrissur	Date of issue:	29/03/2021
	Date of monitoring	22/03/2021 10.00 Hrs to 23/03/2021 10.00 Hrs
	Date of sample received:	24/03/2021
	Date of analysis	24/03/2021
	Monitoring Location	Quarry Owned by M/s Southern Rock & Aggregate Mining .Co Sy.Nos.: 1019/3,1019/4,1019/5,1019/6,1019/7 1021/6,1021/8,1021/9,1027P,1028P,1029P,1030P Village: Painkulam Taluk: Thalapilly District:Thrissur, Kerala.
	Sample description	Ambient air – East Side
	Sample code given by client	Nil

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limit as per NAAQS
01	Particulate Matter (PM ₁₀)	IS 5182 Part 23 2006 RA 2012	49.5 $\mu\text{g}/\text{m}^3$	100 $\mu\text{g}/\text{m}^3$
02	Particulate Matter (PM _{2.5})	CPCB	22.3 $\mu\text{g}/\text{m}^3$	60 $\mu\text{g}/\text{m}^3$
03	Sulphur dioxide	IS 5182 Part 2 2001 RA 2017	4.8 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$
04	Nitrogen dioxide	IS 5182 Part 06 2006 RA2017	2.7 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$

Note: NAAQS-National Ambient Air Quality Standards

* End of the Report *

The results are related only to the sample collected for analysis. This certificate shall not be reproduced except in full and without the written permission with authorized signatory

For and on behalf of
POLUCHEM LABORATORIES (P) LTD.


AUTHORIZED SIGNATORY

SREEJA RAMESH
QUALITY MANAGER
POLUCHEM LABORATORIES (P) LTD

LAB REPORTS



POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

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

Phone : 0484-2544030, 8223982322, 9747400085, 9747400089, www.poluchem.com, poluchem@gmail.com

ACCREDITED BY KSPCB AS 'A' GRADE LABORATORY

TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/RT/SD/2371/2021	
M/s Southern Rock & Aggregate Mining Co Painkulam Post Cheruthuruthy, Thrissur	Date of issue:	29/03/2021	
	Date of monitoring	22/03/2021 - 23/03/2021	
	Monitoring Location	Quarry Owned by M/s Southern Rock & Aggregate Mining Co Sy.Nos.: 10193,10194,10195,10196,10197 1021/6,1021/8,1021/9,1027P,1028P,1029P,1030P Village: Painkulam Taluk: Thalapilly District: Thrissur, Kerala	
	Sample Description	Ambient Sound Level -East Side	
HOURLY INTERVAL	RESULT	HOURLY INTERVAL	RESULT
06.00 AM-07.00 AM	49.5 dB (A)	11.00 PM-12.00AM	34.2 dB (A)
07.00 AM- 08.00 AM	46.2 dB (A)	12.00 AM-01.00 AM	35.1 dB (A)
08.00 AM- 09.00 AM	47.4 dB (A)	01.00 AM- 02.00 AM	33.1 dB (A)
09.00 AM -10.00 AM	48.5 dB (A)	02.00 AM-03.00 AM	34.7 dB (A)
10.00 AM-11.00 AM	50.1 dB (A)	03.00 AM-04.00 AM	33.5 dB (A)
11.00 AM-12.00 PM	52.6 dB (A)	04.00 AM-05.00 AM	34.9 dB (A)
12.00 PM-01.00 PM	50.2 dB (A)	05.00 AM-06.00AM	33.6 dB (A)
01.00 PM-02.00 PM	51.4 dB (A)		
02.00 PM-03.00 PM	50.6 dB (A)		
03.00 PM-04.00 PM	49.3 dB (A)		
04.00 PM-05.00 PM	45.2 dB (A)		
05.00 PM-06.00 PM	39.5 (A)		
06.00 PM-07.00 PM	38.4 dB (A)		
07.00 PM-08.00 PM	36.2 dB (A)		
08.00 PM-09.00 PM	37.5 dB (A)		
09.00 PM-10.00 PM	36.4 dB (A)	LDay	50.1 dB (A)
10.00 PM-11.00 PM	35.3 dB (A)	LNight	33.2 dB (A)

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

*End of the Report *

For Poluchem Laboratories (P) Ltd.


Authorized Signatory

SREEJA RAMESH
QUALITY MANAGER
POLUCHEM LABORATORIES (P) LTD.

LAB REPORTS (CONTD.)



POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

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

Phone : 0484-2544030, 021882322, 9747400085, 9747400086, www.poluchem.com, poluchem@gmail.com

ACCREDITED BY NSPCB AS A GRADE LABORATORY

TEST REPORT

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

Name & address of customer

Page 01 of 01

Date of Issue: 29/03/2021
: Quarry Owned by M/s Southern Rock & Aggregate Mining Co

Painkulam Post, Cheruthuruthy, Thrissur

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

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

Village: Painkulam

Taluk: Thalapilly

District: Thrissur, Kerala.

: Poluchem Laboratory Sample Collector

: Drinking Water

: Borewell Water- OutSide

: 24/03/2021

: 24/03/2021

: 26/03/2021

Sample drawn by

Sample description

Location of sampling

Date of sample collected

Date of analysis started

Date of completion of analysis

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 – 1983 RA2017	4 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 – 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 – 1984 RA2017	BDL	1 NTU
pH	IS 3025 (P) 11 – 1983 RA 2017	6.25	6.5 – 8.5
Total Dissolved Solids	IS 3025 (P) 16 – 1984 RA2017	99 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 – 1983 RA2014	21.3 mg/l	200 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 – 1986 RA2014	17.5 mg/l	200 mg/l
Residual Chlorine	IS 3025 (P) 26 – 1986 RA2014	BDL	0.2 mg/l
Chloride as Cl ⁻	IS 3025 (P) 32 – 1988 RA2014	25.3 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991 RA2014	9.25 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994 RA2014	4.1 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 – 2003 RA2014	0.26 mg/l	1 mg/l
Sulphate as SO ₄	IS 3025 (P) 24 – 1986 RA2009	10.1 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 – 2008 RA 2013	BDL	1.0 mg/l
Zinc as Zn	IS 3025 (P) 49 – 1994 RA2014	BDL	5 mg/l
Manganese as Mn	IS 3025(P) 59 – 2006 RA2017	BDL	0.1 mg/l
Cadmium as Cd	IS 3025(P) 41 – 1992 RA2014	BDL	0.003 mg/l
Lead as Pb	IS 3025(P) 47 – 1994 RA2014	BDL	0.01 mg/l
Coliforms(MPN/100ml)	IS 1622: 1981 RA 2009	Absent	Absent
Ecoli (Present or Absent/100ml)	IS 1622: 1981 RA 2009	Absent	Absent

Note : BDL – Below Detection Level

For Poluchem Laboratories (P) Ltd.

Authorized signatory

SREEJA

QUALITY MANAGER

POLUCHEM LABORATORIES (P) LTD.

* End of the report*

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

LAB REPORTS (CONT'D.)



POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

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

Phone : 0484-2544030, 8281982322, 9747400085, 9747400088; www.poluchem.com, poluchem@gmail.com

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

TEST REPORT

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

Name & address of customer

Page 01 of 01

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

Painkulam Post, Cheruthurthy, Thrissur

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

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

Village: Painkulam

Taluk: Thalapilly

District: Thrissur, Kerala,

: Poluchem Laboratory Sample Collector

: Drinking Water

: Openwell Water- OutSide

: 24/03/2021

Date of analysis started

: 24/03/2021

Date of completion of analysis

Sample drawn by

Sample description

Location of sampling

Date of sample collected

Date of analysis started

Date of completion of analysis

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 – 1983 RA2017	5 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 – 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 – 1984 RA2017	BDL	1 NTU
pH	IS 3025 (P) 11 – 1983 RA 2017	6.56	6.5 – 8.5
Total Dissolved Solids	IS 3025 (P) 16 – 1984 RA2017	110 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 – 1983 RA2014	26.2 mg/l	200 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 – 1986 RA2014	19.3 mg/l	200 mg/l
Residual Chlorine	IS 3025 (P) 26 – 1986 RA2014	BDL	0.2 mg/l
Chloride as Cl ⁻	IS 3025 (P) 32 – 1988 RA2014	26.1 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991 RA2014	10.9 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994 RA2014	6.3 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 – 2003 RA2014	0.30 mg/l	1 mg/l
Sulphate as SO ₄	IS 3025 (P) 24 – 1986 RA2009	12.5 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 -2008 RA 2013	BDL	1.0 mg/l
Zinc as Zn	IS 3025 (P) 49 – 1994 RA2014	BDL	5 mg/l
Manganese as Mn	IS 3025(P) 59 – 2006 RA2017	BDL	0.1 mg/l
Cadmium as Cd	IS 3025(P) 41 – 1992 RA2014	BDL	0.003 mg/l
Lead as Pb	IS 3025(P) 47 – 1994 RA2014	BDL	0.01 mg/l
Coliforms(MPN/100ml)	IS 1622: 1981 RA 2009	90	Absent
Ecoli (Present or Absent/100ml)	IS 1622: 1981 RA 2009	Absent	Absent

Note : BDL – Below Detection Level

For Poluchem Laboratories (P) Ltd.

Authorized signatory

* End of the report*

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

QUALITY MANAGER

POLUCHEM LABORATORIES (P) LTD.

LAB REPORTS (CONTD.)



POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

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

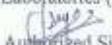
Phone : 0484-2544030, 8281982332, 9747400085, 9747400081, www.poluchem.com, poluchem@gmail.com

ACCREDITED BY KSPCB AS 'A' GRADE LABORATORY

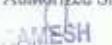
TEST REPORT

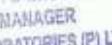
Client Name & Address	Certificate No:	PL/RT/SO/2374/2021
	Date of issue:	29/03/2021
	Date of monitoring	22/03/2021
M/s Southern Rock & Aggregate Mining Co Painkulam Post Cheruthuruthy, Thrissur	Monitoring Location	Quarry Owned by M/s Southern Rock & Aggregate Mining Co Sy.Nos.: 1019/3,1019/4,1019/5,1019/6,1019/7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

For Poluchem Laboratories (P) Ltd.


Authorized Signatory

End of the Report


QUALITY MANAGER


POLUCHEM LABORATORIES (P) LTD.

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

LAB REPORTS (CONTD.)

JOURNAL OF CLIMATE

MANAGER'S SECOND CLASS CERTIFICATE OF COMPLETENESS
TO MANAGE A MALLEABLE IRON MINE.

Under the Metalliferous Mans Regulation, 1907-11

http://www.iomega.com/zip/zip.htm

卷之三

born on 09 in October, 1978

possessing a Degree

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 working only. This Certificate is effective from 30.08.2002.



852

અધ્યાત્મિક વિદ્યા

Members of the Board of
Mining Examination.

Signed and Sealed

Date: 19

09 SEP 2002

Mr. W. C. Ward
at Adams

Reba

• 80000 例の語彙

**Chairman of the Board of
Mining Examinations.**

ANNEXURE NO. 3



भारत सरकार | Government of India
 वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो) | Petroleum & Explosives Safety Organisation (PESO)
 पूर्व नाम: विस्फोटक विभाग | Formerly- Department of Explosives
 केन्द्रीय बंदरगाह असाके शहर 2-2, केन्द्रीय मार्गाव, Block C-2, 3rd Floor
 CSECI पो अ. कॉकिलानगर काम्पसी | CSECI PO Kakkilaiam Distr. Ernakulam Ernakulam 682037
 फ़ोन: Phone - 04622881, 04622881, 046227276
 ई-मेल: Email: cseccentralkerala@exxoservs.gov.in

संख्या (No.): E/SC/1/22/267/E40147

सौराष्ट्र । १०

Shri T Mathew Abraham Prop. Southern Rock & Aggregate Mining Company, Palaikulam P.O. (Vid.) Cheruthiruthy, Taluk - Talappally, Town/Village - Palaikulam District -THRISSUR, State -Kerala, Pincode - 670531

Survey No(s) 1134, श्राम Painkulum, Thalayil village, ज़िला THRISSUR, राज्य Kerala में विस्तृत के मैग्नीस में उपयोग के लिए कारबा हेतु विस्तृत नियम 2008 के अन्तर्गत 1E-3 में जारी अनुदिति रुप से SC-81-22-567/E-104471 के नियमीकरण संभर्ता है।

Subject: Possession For Use of Explosives from magazine situated at Survey No.s) 1034, Painkulam, Thalipilly taluk, Dist: Thrissur, Kerala - Licence No: ESC/KL/22-867(E40147) granted in Form L1 of Explosives Rules, 2008 - Renewal regarding

માનવચિકિત્સા | ૩૦

भारतीय उपकरण विषय पर पत्र संख्या NIH/विनाक/05/02/2020 का संदर्भ प्रस्तुत करें। डिस्ट्रीब्यूट नियम, 2006 के अन्तर्गत प्रारूप L1-5 में जारी अनुदिति नियम 3) (3) (2) (a) (5) (c) नवीनीकृत कर द्या गया कर दिया गया है।

Reference to your letter No. NIL dated 05/02/2020, the subject license duly renewed upto 31/3/2025 and issued in Form I.E-3 of Explosives Rules, 2008 is forwarded herewith.

For further renewal of license, please submit the following documents to this office on or before 31/3/2024.

- प्राप्त आर्ड-1 में विवित पूर्ण एवं हस्ताक्षरित आवेदन।
Application in Form RE-1 duly filled in and signed.
- एक से पाँच वर्ष के अनुमति सुल्तानों का, विस्तोक नियम, 2008 के तहत जैनलाइन आईटन पोर्टल पर उपलब्ध है। भूगतान सुविधा के माध्यम से ताइटेस शुल्क अनुमति जारी किया जाता है।
License fees renewable for one to five years, to be submitted online through e-payment facility available on online application portal under the Explosives Rules, 2008.
- अनुमेदित दसान के साथ मूल अनुमति।
Original license with approved plan.
- कृपया इस संबंध में विस्तोक नियम, 2008 के नियम 112 का भी संदर्भ ग्रहण करें।
In this connection, please also refer to Rule 112 of Explosives Rules, 2008.
- विस्तोकों के क्रम हेतु आर्ड-1 से मागापत्र (इटेट) आपूर्तिकर्ता को दिया जाए और उसी की एक प्रति इस कार्यालय को भेजें जाए। (भारतीयावासी गोदाम के लिए लाग नहीं।)
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.)
- कृपया विस्तोकों की भैंसीसी विवरणी हीर तिमाही के अंत में आर्ड-3 से प्रदत्त की जाए। विवरणी इस कालाताम के कार्यालय में आगामी तिमाही की 10 लाईस रो पहले प्रदूष जारी भार्डिंग (आर्डीशावासी गोदाम के लिए लाग नहीं।) 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.)
- सभी ब्लास्टिंग आपरेशन एक संख्या द्वारा की जाएगी की उपरोक्त नियमों के तहत इक एवं शैल फायर प्रमाणात्व प्राप्त हो। ट्रालाइंस, खान अधिनियम 1952 के अधीन अनें याते खानों में ब्लास्टिंग आपरेशन करने वाले ब्लास्टर की व्यापार उत्तराधिकारियों पर अधिनियम पर अधिनियम हो।
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.

મદ્દીય | Your's faithfully

आर. वैष्णवोपात्ति (Dr. R. Vaishnavi)

उत्तर प्रदेश विद्युत विभाग, Deputy Chief Controller of Explosives

कौस्ती (Kushti)

संविदान प्राप्ति / Get Approved

1-800-437-5814 for information & 1-800-437-5815 for services.

त्रिपुरा मुख्यमंत्रिमण्डल के नियम

आधिकारिक जानकारी येसे अवधारणा को देखिए। ग्राहक अधिकारी को देखिए हमारी वेबसाइट <http://pepsi.gov.in> देखिए।

अनुज्ञाप्ते प्ररूप एल. ई.-३ | LICENCE FORM LE-3

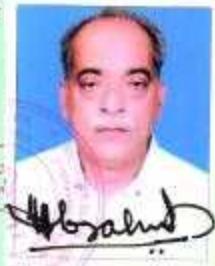
(विस्फोटक नियम, 2008 की अनुसंधी 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)

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

(ग) उपयोग के लिए प्रक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी भैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुशासन

अनुज्ञा सं. (Licence No.): E/SC/KL/22/867(E49147)

वार्षिक फीस रुपये (Annual Fee Rs.) 2400/-



Licenses
Photos

1. Licence is hereby granted to

Shri T.Mathew Abraham, Prop. Southern Rock & Aggregate Mining Company (എമ്പോയിസ്സർ)
Occupier : T.Mathew Abraham, Painkkulam, P.O. (Via.) Cheruthuruthy, Taluk - Talappilly,
Town/Village - Painkkulam, District - TIRISSUR, State - Kerala, Pincode - 679531

को अनजप्ति अनद्रत वी जाती है।

2. अनजाप्तिधारी को प्राप्त्योते | Status of licensee : Individual

3. अनुमति निम्नलिखित प्रयोजनों के लिए विधिमान्य है।
Licence is valid only for the following purpose.

अन्तर्राष्ट्रीय सम्प्रदानों के विप्रविवित विभागों एवं अन्तर्राष्ट्रीय कानून के बिंदु विविधता है।

क्र. No.	नाम और विवरण	वर्ग और प्रभाग	उप-प्रभाग	मात्रा कि सी एक समय में
1.	Nitrate Mixture	2,0	0	150 Kg
2.	Safety Fuse	6,1	0	1500 Mtrs
3.	Ordinary Detonator	6,3	0	2000 Nos.
4.	Electric Detonators	6,3	0	3000 Nos.

(ख) किसी एक कलेजर मास में खरीदे जाने वाले विस्फोटक की मात्रा। अनुच्छेद 3(ख) और (ग) के अधीन अनुच्छेद के लिए।

20 times
as above

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

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुशासन परिसर की पुष्टि होती है। रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/867

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

रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/867
(E40147)

दिनांक (Dated) 19/03/2007

6. अनंत्रित प्रिसिस निम्नलिखित पते पर स्थित है। The licensed premises are situated at following address.

Survey No.s, 1034, प्रान्त (Town/Village) : Painkulam, Thalippari, कुलस पाना (Police Station) : Cheruthuruthy
जिला (District) : TIRISSUR राज्य (State) : Kerala पिनकोड (Pincode) :
दरभाष (Phone) : ई.मेल (E-Mail) : फॅक्स (Fax) :

7. अनुमति परिसर में निम्नलिखित सुविधाएं अंतर्भूत हैं।
The licensed premises consist of following facilities.

three Portable Explosives Magazines of A & S type and D type (524) fabricated by M/s. Thakkans & Industrial Explosives Ltd

8. अनुमति समय – समय पर धारासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधो, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबधो के अधीन रहते हुए अनुदत्त की जाती है।
The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.

1. उपर्युक्त क्रम स. 5 में यथा कथित रेखांकित्र (स्थान, संरचनागत संबंधी और अन्य विवरण दर्शित करते हुए) Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
2. अनुज्ञापि प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञापि की शर्तें और अतिरिक्त शर्तें। Conditions and Additional Conditions of this licence signed by the licensing authority.
3. दूरी प्रस्तुप DE-2 | Distance Form DE-2.

9. यह अनुज्ञापि तारीख 31 मार्च 2009 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2009.

यह अनुशासित अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपर्योगित इस अनुशासित की शर्तों का अधिकमण करने या यदि अनुशासित परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहां वह लागू हो।

This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

Sd/-

तारीख | The Date - 19/03/2007

संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives
South Circle, Chennai

Amendments :

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

नवीकरण के प्राप्ताकान के लिए स्थान
Space for Endorsement of Renewal

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुशासन प्रधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp
05/02/2020	31/03/2025	Dy. Chief Controller of Explosives, Ernakulam उप-मुख्य विस्फोटक नियंत्रक Deputy Chief Controller of Explosives एरनाकुलम, Ernakulam

कानूनी चेतावनी : विस्फोटकों को गलत ढंग से चलाने या उनका दुरुपयोग विधि के अधीन गंभीर दाढ़िक अपराध होगा।

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

(सेट VIII | Set VIII)

मैगजीन में वर्ग 1,2,3,4,5,6, और 7 के विस्फोटकों को वित्ती गा प्राप्ति हेतु रखने के लिए प्राप्त एल.ई.3 | अनुच्छेद २ (ख) से (ग)) में मुख्य विस्फोटक नियंत्रक या विस्फोटक नियंत्रक व्यापार प्रदान किए जाने वाले अनुमति स. E/SC/KL/22/867(E40147) की शर्त निपटाता है।

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

- परिसर में किसी भी समय विस्फोटकों की मात्रा अनुमान योग्य सामर्थ्य से अधिक नहीं होगी।
The quantity of explosives on the premises at any one time shall not exceed the licensable capacity.
- विस्फोटक के भंडारण के लिए प्रयुक्त होने वाली मैगजीन अनुच्छृंही III और अनुच्छानि के उपाध्य ने विनियित सुरक्षा दूरी बनाए रखना होगा।
The magazine used for storage of explosives shall maintain safety distance specified in Schedule III and annexure to the licence.
- मैगजीन का प्रयोग उन सभी विस्फोटकों के, जो इस अनुच्छानि में विनियित हैं, रखे जाने के लिए और ऐसे रखे जाने से सबै अधिन या अधिक या उपकरणों के रखे जाने के लिए ही किया जाएगा, अन्यथा नहीं।
The magazine shall be used only for keeping all explosives specified in this licence and of receptacles for, or tools or implements for work connected with the keeping of such explosives.
- पैकेजों को खालने का कार्य और विस्फोटकों को तोलने तथा पैक करने का कार्य मैगजीन में नहीं किया जाएगा।
The opening of packages and the weighing and packing of explosives shall not be carried on in the magazine.
- दो या दो से अधिक वर्गों के विस्फोटकों को, जिनमें मैगजीन में रखे जाने की अनुमा दी जा सकती है, मैगजीन में तभी रखे जाएं जब उनमें से प्रत्येक को, ऐसे पदार्थ पर स्वरूप का कोई मध्यवर्ती विभाजक लगाकर या उनके बीच ऐसा मध्यवर्ती स्थान छोड़कर, प्रस्तर पृथक कर दिया जाए कि किसी उच्च दर्जे से विस्फोटक में लगने वाली अग्नि या झोने वाला विस्फोटक किसी अन्य वृक्षि के विस्फोटक तक न पहुँच सके। परंतु -
(घ) २ (नाइट्रोट्रिप्रिण), वर्ग ३ (नाइट्रो पॉयिनिक) के विभिन्न विस्फोटक, वर्ग ६ प्रथम प्रभाग के अंतर्गत आने वाले सुरक्षा पर्याती और वर्ग ६ प्रभाग २ के अंतर्गत आने वाले विस्फोटक प्रेरक प्रतीति, जिनमें कोई खुला लौहा या इस्पात नहीं है, एक दूसरे के साथ बिना किसी मध्यवर्ती विभाजक या स्थान के रखे जा सकते हैं।
(ङ) वर्ग ६ प्रभाग ३ के अंतर्गत आने वाले विस्फोटक प्रेरक अंतग्र रखे जाएंगे।
(च) वर्ग १ के अंतर्गत आने वाले बारूद के अंतग्र रखे जाएंगा।
- Two or more description of explosives which may be permitted to be kept in the magazine shall be kept only if they are separated from each other by an intervening partition of such substance or character, or by such intervening space, as will effectively prevent explosion or fire in the one communicating with the other; Provided that -
(d) the various explosives of Class 2 (nitrate-mixture), Class 3 (nitro-compound), safety fuses belonging to Class 6 Division 1 and detonating fuses belonging to Class 6 Division 2 as do not contain any exposed iron or steel, may be kept with each other without any intervening partition or space.
(e) Detonators belonging to Class 6 Division 3 shall be kept separately.
(f) Gun powder belonging to Class 1 shall be kept separately.
- वर्ग ३ (नाइट्रो पॉयिनिक) के विस्फोटकों को, उनके विनियमिती की तारीख से एक वर्ष बीत जाने के पश्चात सिवाय अनुमान प्राप्तिकरी की विस्थान में रखूँ रखा जाएगा।
Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of licensing authority.
- वर्ग ३ (नाइट्रो पॉयिनिक) के विस्फोटकों को, उनके विनियमिती की तारीख से एक वर्ष बीत जाने के पश्चात मैगजीन में तभी रखा जाएगा जब कि किसी विस्फोटक नियंत्रक ने इसके लिए विशेष मंजूरी दी दी हो।
(i) जब ऐसी मंजूरी दी गई हो तो प्रत्येक नियंत्रित पर किसी विस्फोटक नियंत्रक से ऐसा लिखित प्रानाणपत्र अभिप्रापा कर लिया जाए जिसमें दी गई मंजूरी के अंतर्गत आनेवाली अवधि दिशित की गई हो और ऐसे प्रमाणपत्र के अनुचित्यारी अपने पास रखेगा और मांग की जाने पर प्रस्तुत करेगा।
(ii) जब कोई विस्फोटक मानक शुद्धता का न रह जाने के कारण या द्रवणीकरण या नद्दा गो-असरीन या द्रव नाइट्रो पॉयिनिक के निकल जाने के बिन्दु प्रकट होने के कारण मैगजीन में भयानक विस्फोटक जाने के उपयुक्त नहीं रह जाता है तो अनुचित्यारी अपने ही व्याप पर ऐसे विस्फोटक के निपटारे के लिए ऐसे निदेशों का अनुपालन करेगा जो मुख्य नियंत्रक या विस्फोटक नियंत्रक जारी करें।
Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of the Controller of Explosives.
- When such sanction has been given, a written certificate showing the period covered by the sanction shall be obtained from the Controller of Explosives at each inspection, and shall be kept by the licensee and produced on demand.
(ii) When an explosive owing to its being no longer of standard purity or owing to signs of liquefaction or of exuded nitro-glycerin or liquid nitro-glycerin or liquid nitrocompound is no longer fit for storage in the magazine or store house the licensee shall comply, at his own expense, with such directions as to its disposal as the Chief Controller or Controller of Explosives may issue.
- मैगजीन के भीतरी भाग या उसमें लाई बैचों, शैलों और उसकी फिटिंग का इस प्रकार सत्रिमान किया जाएगा या उन्हें इस प्रकार अंतरित या अक्षतरित किया जाएगा कि विस्फोटक का किसी लोहे पर इस्पात के साथ संपर्क रोका जा सके। भीतरी भाग में लाई बैचें, शैलें और फिटिंग याताया गिर से मुक्त एवं साफ रखे जाएंगे तथा ऐसे विस्फोटक, जो जल से खुतरनाक रूप में प्राप्तित हो सकते हैं, इस बाबत साम्यक सावधानी बरती जाएगी कि वहाँ कोई जल गोबूद न रहे। परंतु किसी लोहे पर इस्पात के खुले होने के विश्वास सावधानी से संबंधित इस शर्त का बहु भाग ऐसे किसी भवन में बाधकर नहीं होगा जिसमें वर्ग ६ (गोला बारूद) के प्रथम के विस्फोटक से भिन्न कोई विस्फोटक रखा गया है।

The interior of the magazine and the benches, shelves and fittings therein shall be so constructed or so lined or covered as to prevent the exposure of any iron or steel contact with the explosives. Such interior, benches, shelves and fittings shall so far as is reasonably practicable, be kept free from grit and shall otherwise be clean; and in the case of any explosives liable to be dangerously affected by water, due precautions shall be taken to exclude water there from; Provided that so much of this condition as relates to precautions against the exposure of any iron or steel shall not be obligatory in a building in which no explosive other than explosive of the 1st Division 6th (Ammunition) Class is kept.

9. यदि तडित चालक का परीक्षण विस्कोटक नियन्त्रक करता है तो अनुज्ञादिधारी ऐसे परीक्षण के लिए विहित फीस का संदाय करेगा यदि परीक्षण असमाधानकारी साधित होता है तो उतनी ही फीस अनुज्ञादिधारी द्वारा प्रधानवर्ती प्रत्येक परीक्षण के लिए तब तक दी जाती रहेगी जब तक कि परीक्षण अधिकारी तडित चालक को समाधानप्रद घोषित नहीं कर देता।

परंतु किसी एक परीक्षण के लिए देव फीस किसी एक दिन के दौरान किसी चालक के किए गए सभी परीक्षणों के लिए प्रभावी होगा।

परंतु पहली ओर कि यदि दो या अधिक तडित चालक एक ही गैरजीन से संबद्ध हैं तो ऐसे सभी चालकों के परीक्षण के लिए किसी ऐसी किसी फीस से अधिक नहीं होगी जो किसी एक तडित चालक के परीक्षण के लिए हर स्थिति में विहित की गई है।

If the lighting conductor is tested by the Controller of Explosives, the licensee shall pay the fees prescribed for test. In the event of the test proving unsatisfactory, the same fees shall be payable by the licensee for each subsequent test until the lighting conductor is passed by the testing officer as satisfactory.

Provided that the fees payable for a single test shall be charged for all tests made on a conductor during any one day:

Provided further that where two or more lighting conductors are attached to one and the same magazine, the fee for the testing of all such conductors shall not exceed the fee prescribed in this condition for testing a single lighting conductor.

10. उपर्युक्त तथा जेब रहित कार्यकरण दस्तावेज़, उपर्युक्त जातों के प्रयोग द्वारा तथा तस्लाही लेकर या अन्यथा अधिक ऐसे किसी साधनों द्वारा इस बाबत सामयक उपबंध किया जाएगा कि केवल परिसर में अप्र. दिवासलाइ अधिक ऐसी काई बस्तुएं या पदार्थ, जिससे विस्कोट हो सकता है या अगले लग सकती है, किन्तु इस शर्त के कारण ऐसी संरचना, स्थिति या स्वरूप में किसी कृतिम वर्ती का प्रवेश वर्जित नहीं है जिससे आग लगने या विस्फोट होने का खतरा न हो।

परंतु इस शर्त का बहु भ्रान्ति, जो लाहे या दूसरा अपकर्जन को लागू होता है, ऐसे किसी भवन के संबंध में बाध्य कर नहीं होगा।

Due provisions shall be made, by the use of suitable working clothes without pockets, suitable shoes and by searching or otherwise or by such means, for preventing the introduction into danger area of the factory premises of fire, Lucifer matches or any substance or article likely to cause explosion or fire, but this condition shall not prevent the introduction of an artificial light of such construction, position or character as not to cause any danger of fire or explosion.

Provided that so much of this condition as applies to the exclusion of iron or steel, shall not be obligatory in a building in which no explosive other than an explosive of the 1st Division of the 6th (Ammunition) Class is kept.

11. अनुज्ञादिधारी प्रदान भारई-3 और भारई-4 या आरई-3, जैसी स्थिति हो, में सभी विस्कोटों का अविनियुक्त और लेखा रहेगा और विस्कोटक नियम, 2008 के अन्तिम प्राधिकृत किसी भी अधिकारी के समक्ष उसके द्वारा ऐसा करने की मांग की जाने पर प्रदान किया जाएगा।

The licensee shall keep records and accounts of all explosives in Forms RE-3 and RE-4 or RI-5, as the case may be, and exhibit the stock books and records to any of the officers authorised under the Explosives Rules, 2008 whenever such officer may call upon him to do so. The stock books in the prescribed proforma shall be page numbered.

12. परिसरों में कोई परिवर्तन या तबदीली अनुज्ञापन प्राधिकारी के पर्वतनामद बिना नहीं की जाएगी और अनुज्ञादिधारी ऐसी किसी शर्त का अनुपालन करेगा जो इस नियम अनुज्ञापन प्राधिकारी विनाशित करे।

No changes or alterations shall be carried out to the premises without prior approval of the licensing authority and the licensee shall comply with any condition that may be specified by the licensing authority in this behalf.

13. गैरजीन सभी सामग्री पर अच्छी मरम्मत की स्थिति में बनाई रखी जाएगी (या अच्छी हालत में बनाई रखी जाएगी)। यदि किसी कारणवश किसी विस्कोटक के भण्डारण के लिए गैरजीन अनुप्रयुक्त हो जाती है तो अनुज्ञादिधारी इस बात की सूचना अनुज्ञापन प्राधिकारी को तुरत देगा।

Magazine shall at all times be kept in state of good repair (or maintained in good condition). The licensee shall report to licensing authority forthwith, if the magazine becomes unfit for storage of any explosives for any reason whatsoever.

गैरजीन का अनुज्ञादिधारी इन नियमों के निपम 24 के उपनियम 3 के अनुसार त्रैमासिक विवरणी प्रस्तुत करेगा।

The licensee of the magazine shall submit quarterly return as per sub-rules (3) and (4) of rule 24 of these rules.

14. यदि सुरक्षा दूरी का कोई अधिकमण होता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को अवश्यक सलाह और कार्यवाही के लिए तुरत दी जाएगी।

Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action.

15. यदि कोई विस्कोटक विनाश हुआ अधिक अनुपयोगी जापा जाता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को सलाह प्राप्त करने के लिए तुरत दी जाएगी।

The licensing authority shall be immediately informed for advice if any explosive is found deteriorated or unserviceable.

16. विस्कोटों के पैकेटों के बाहे इस प्रकार लाए जाएं कि कम से कम एक व्यक्ति भाग्यार किए गए सभी पैकेजों की हालत की जाव करने और प्रत्येक पैकेज की विनियाण विशेषितों को पढ़ने के लिए उनके बीच से होकर आ जा सके।

The explosive packages shall be stocked in such a way so as to allow movement of at least one person to check the condition of all packages stored and to read the manufacture particulars of each package.

तडित चालकों की भूमि के लिए प्रतिरोध प्रधानवर्ती न्यूनतम होगा और किसी भी दशा में 10 ऑम से अधिक नहीं होगा।

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

17. गैरजीन के चारों ओर 15 मीटर की दूरी के अंतर्गत कोई शुल्क घास या झाड़ी या ज्वलनशील सामग्री नहीं रखी दी जाएगी।

A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bush or flammable materials.

- दिस्कोटकों के प्रत्येक पैकेट की, जब उसे मेगजीन के भीतर लिया जा रहा हो, ठीक दृश्य जानने के लिए परीक्षा की जाएगी। Every package of explosive at the time of bringing inside the magazine shall be examined for its sound condition.
- किसी मेगजीन / भूतारगृह में किसी एक समय में यार व्यक्तियों से अधिक को नहीं रहने दिया जाएगा। Not more than 4 persons shall be allowed inside the magazine or store house at any one time.
- दिस्कोटकों के साली पैकेजों की शोषणिशील वहां से हटा दिया जाएगा और नष्ट कर दिया जाएगा। Empty packages of the explosives shall be removed at the earliest and destroyed.
- अनुज्ञाप्राप्ति और कर्मचारियों को परिसर के भीतर आपातकाल के दौरान की जाने वाली प्रक्रियाओं से अवगत होना चाहिए। The licensee and the employee shall be conversant with procedure to be taken during the emergency within the premises.
- निरीक्षण या नमना अधिकारी को शापी धुक्तिपूक्त समयों पर अनुज्ञात परिसर में अद्वाध रूप से घटूचने दिया जाएगा और यह सुनिश्चित करने के लिए कि अधिनियम और इन नियमों के उपर्युक्त और सुरक्षा स्थितियों को सम्मक्त: अनुज्ञालन किया जा रहा है। अधिकारी को प्रत्येक सुविधा प्रदान की जाएगी। Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and every facility shall be afforded to the officer for ascertaining that the provisions of the Act and these rules and the safety conditions are duly observed.
- यदि अनुज्ञापन प्राप्तिकारी या दिस्कोटक नियंत्रक अनुज्ञादिकारक को अनुज्ञात परिसरों या मशीनरी, दूत या उपकरण में ऐसी कोई मरमत या परिवर्धन या परिवर्तन करने या सिफारिशों को लागू करने का लिखित रूप में सूचित करता है तो परिसर के अद्वाध या बाहर या व्यक्तियों की सुरक्षा के लिए आवश्यक है, अनुज्ञादिकारक सिकारिशों की निष्पादित करेगा और विनिर्दिष्ट अधिक के भीतर अनुज्ञालन रिपोर्ट ऐसे प्राप्तिकारी को देगा। If the licensing authority or a Controller of Explosives informs in writing, the holder of the licence to execute any repairs or to make any additions or alterations to the licensed premises or machinery, tools or apparatus or carry out recommendations, which are in the opinion of such authority may pose unacceptable risk and is necessary for the safety of either on-site or off-site of the premises or persons, the holder of the license shall execute the recommendations and report compliance within the period specified by such authority.
- अनुज्ञापन प्राप्तिकारी या दिस्कोटक के लिए प्राप्तिकृत दिस्कोटक सूची में उल्लिखित अनुज्ञात फैक्ट्री या कंपनी से प्राप्तिकृत दिस्कोटक / आतिशबाजीया या सुरक्षा पर्लाई खरीदेगा। The licensee shall purchase authorised explosives/ fireworks or safety fuse as mentioned in the list authorised explosives from a licensed factory or company for possession and sale from the magazine.
- निम्न से अधिक ध्वनि स्तर उत्पादित करने वाले आतिशबाजियों पटाली की दिक्की और रखने के लिए -
 (क) जो फैक्ट्री की जागह से यार मीटर की दूरी पर है, 125 डी.बी.(ई) या 145 डी.बी.(सी)पी के प्रतिबंधित होंगे,
 (ख) श्रेष्ठता (जुड़े हुए पटाली) को मणन करने वाले व्यक्तिमत पटाली के लिए उपर्युक्त उत्तिथित सीमा 5 लींग 10(एन) डी.बी.(सी) पी के प्रतिबंधित होंगे।
 The possession and sale of fire-crackers generating noise level exceeding:
 a) 125 dB(A) or 145 dB(C)pk at 4 meters distance from the point of bursting shall be prohibited.
 b) For individual fire-cracker constituting the series (joined fire-crackers), the above mentioned limit be reduced by $5 \log_{10}(N)$ dB, where N = number of crackers joined together.
- आग या दिस्कोट द्वारा दुर्घटना या नुकसान पटाली की कमी या चोरी, तुरंत पास के पुलिस घाने और अनुज्ञापन प्राप्तिकारी और अनुज्ञापन प्राप्तिकारी के स्थानीय कार्यालय को रिपोर्ट की जाएगी। Accidents by fire or explosion and losses, shortage or theft of explosives shall be immediately reported to the nearest police station and the licensing authority and local office of the licensing authority.

अतिरिक्त शर्त / Additional Conditions :

- अनुज्ञाप्राप्ति विदेशी मूल के आतिशबाजी को ना प्रदर्शित करेगा, ना रखेगा और ना ही उसकी विक्री करेगा। The licensee shall not exhibit, possess and sell fireworks of foreign origin.

कृते संयुक्त मुख्य दिस्कोटक नियंत्रक
 For Joint Chief Controller of Explosives
 दक्षिणाचरण, चौरों सूथी चैरिटी, चेन्नई

Deputy Controller of Explosives

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(1SD)	M	UM
1 Room or Workshop used in Connection with the Magazine	13	19
2 Any other Explosives Magazine or store House or Factory of the Applicant		
3 Magazine Office		
Middle Safety Distances(MSD)		
4 Magazine Keeper's or Chowkidar's Dwelling house		
5 Railway including Minerals and Private Railways		
6 Canal (in active use) or other navigable water		
7 Dock or Pier or Jetty		
8 Public Highway or Public Road	40	
9 Private Road which is PRINCIPAL means of access to a Temple, Mosque, Church, Gurudwara or other places of worships, Hospital, College, School or Factory		
10 River Embankment or Sea Embankment or Public Well		
11 Reservoir or Bounded tank/rope way		
12 Windmill or Solar panel for Power Generation		
Outside Safety Distances(OSD)		
13 Dwelling House		
14 Govt. and Public Building		
15 Temple, Mosque, Church or Gurudwara or other Places of Worships		
16 Shops, Market place, Public recreation and Sports Ground, College, School, Hospital, Theater, Cinema or other Building where the public are accustomed to assemble		
17 Factory		
18 Buildings or Works used for the Storage in Bulk of Petroleum, Spirit, gas, or other inflammable or hazardous substances	45	
19 Building or Works used for Storage and Manufacture of Explosives or of articles which contain Explosives		
20 Aerodrome		
21 Furnace, Kiln or Chimney		
22 Quarry or mine pit head		
23 Power House or Electric Substation		
24 Wireless Station		
25 Warehouse or other Storage Building		
26 Any other Protected works		
Overhead Electric lines		
27 Electric Power over head Transmission Lines above 440V	45	
28 Electric Power over head Transmission Lines upto 440V	15	

The Date : 19/03/2007


 For Joint Chief Controller of Explosives
 South Circle, Chennai

Amendments :

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


KERALA STATE POLLUTION CONTROL BOARD

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

Date of issue: 06/06/2017

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No.: PCB/DO/TSR/R/IC/0804/2017

Ref.: Previous Consent No.: PCB/DO/TSR/R/MICO/804/2016 dated 04.05.2016

The 'Integrated Consent to Operate' issued as per reference above to M/s SOUTHERN ROCK & AGGREGATE MINING COMPANY (QUARRY) PAINKULAMPOL, CHIRUTHURUTHY, TIRISSUR - 679531 is hereby renewed up to 31.05.2020 and issued to M/s SOUTHERN ROCK & AGGREGATE MINING COMPANY (QUARRY) PAINKULAMPOL, CHIRUTHURUTHY, TIRISSUR - 679531. The conditions of operation under control under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ addition:

I. GENERAL

S.No.	Items	Description
1	Last date of consent renewal	31.05.2020

II. Stack Details

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

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_{eq}) at 1m outside the boundary of the site should not exceed the ambient noise standard applicable to the adjoining areas.
- 3.4 Suspended particulate matter at the boundary of the premises shall not exceed the limit applicable to that area as per the National Ambient Air Quality Standards.
- 3.5 The consent issued from the Board shall be valid only for a period when all other statutory or necessary



Page



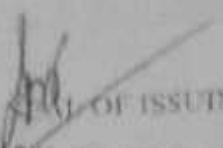
clearance from other concerned authorities are valid.

3.6 The revised application shall be submitted on or before 31.01.2020. Late application shall be accepted only with fine as applicable.

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

DATE: 06.06.2017

SIGNATURE & STAMP OF ISSUING AUTHORITY


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

OFFICE SEAL



PUBLIC NOTICES

PUBLIC NOTICE

This is to inform the General Public that State Level Expert Appraisal Committee (SLEAAC) Kerala (Constituted by the Competent Authority) as per prescribed procedure under EIA Notification 2006 accorded Environmental Clearance under the provision of Environmental Impact Assessment Notification 2006 & for the Building Stone Quarry project in Survey Nos. 10193,10194, 10195, 10196, 10197, 10218, 10219, 10278P, 1028P, 1029P & 1030P at Pankulam Village, Panjal Panchayath, Thalapilly Taluk, Thrissur District, Kerala State of M/s. Southern Rock & Aggregate Mining Company Vide No. 285/SEAAC/KL/1363/2014 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 www.keralapublic.in

କାନ୍ତିକାର୍



കേരളം കേരള KERALA

DB 139621

Building Stone Quarry of M/s. SOUTHERN ROCK & AGGREGATE MINING COMPANY.

AFFIDAVIT

I, PRINCE ABRAHAM S/oMr. MATHEW ABHARAM being the authorized signatory of M/s. SOUTHERN ROCK & AGGREGATE MINING COMPANY, owning the Building Stone Quarry situated at Survey Nos.: 1019/3, 1019/4 1019/5, 1019/6, 1019/7, 1021/6, 1021/8, 1021/9, 1027P , 1028P, 1029P &1030P. Painkulam Village, Thallapilly Taluk of Thrissur District of Kerala State, extends over an area of 7.8000 Ha, do hereby state that, the EXISTING OVERBURDEN site/s are already strengthened by carrying out with plantation / vegetation, construction of retention walls, drains and etc., (photographs enclosed). Further we assure you that the extension of the EXISTING OVERBURDEN / NEW OVERBURDEN DUMP sites will be strengthened by plantation / Vegetation, construction of retaining wall and any other protective measures required from time to time.

Authorized signatory for and on behalf of
M/s. SOUTHERN ROCK & AGGREGATE MINING COMPANY

Place : Painkulam
Date : 11.09.2021




PRINCE ABRAHAM

No. 27199
Value 100/-
10-9-2021

No. 3 Dist. Court Vendor
Leena Thekkakara TGR

മെതാം 80 ദിം
മാലിക്കും മെന്തോസ്
മുന്നി
23.8.20





GOVERNMENT OF KERALA

No 36528/Funds-2/18/Fin

*Finance Fund Department
Thiruvananthapuram
Dated 15-06-2020*

From:

*Additional Chief Secretary(Finance)
Govt. Secretariat,
Thiruvananthapuram.*

To:

*SOUTHERN ROCK & AGGREGATE MINING COMPANY VALLAMKULAM
(PO), THIRUVALLA, KERALA-689541,*

Sir/Madam,

***Sub : Contribution received towards Chief Minister's Distress Relief Fund - Receipt
Forwarding- Reg.***

*Please find enclosed receipt for your valuable contribution towards Chief
Minister's Distress Relief Fund vide your No 3547 for ₹. 200000 /- (Rupees Two
Lakh only)*

Thanking you

Yours faithfully

Additional Chief Secretary(Finance)

Encl Receipt No C3313467 dated 15-06-2020 for ₹. 200000 /-



CHIEF MINISTER'S DISTRESS RELIEF FUND KERALA

B No : C3313467

Received with thanks the sum of ₹. 200000/- (Rupees Two Lakh only) from SOUTHERN ROCK & AGGREGATE MINING COMPANY VALLAMKULAM (PO), THIRUVALLA, KERALA-689541 as donation towards '**Chief Minister's Distress Relief Fund**'.

Contribution to CMDRF is **100% tax** exempt under Section 80G(2) of the Income Tax Act, 1961 vide **PAN No. AAAGD0584M**.



**Additional Chief Secretary(Finance)
Treasurer
Chief Minister's Distress Relief Fund**

Thiruvananthapuram
15-06-2020



GOVERNMENT OF KERALA

No 36528/Funds-2/18/Fin

*Finance Fund Department
Thiruvananthapuram
Dated 19-05-2020*

From:

*Additional Chief Secretary(Finance)
Govt. Secretariat,
Thiruvananthapuram.*

To:

*SOUTHERN ROCK & AGGREGATE MINING COMPANY,
CHERUTHURUTY ,*

Sir/Madam,

***Sub : Contribution received towards Chief Minister's Distress Relief Fund - Receipt
Forwarding- Reg.***

*Please find enclosed receipt for your valuable contribution towards Chief
Minister's Distress Relief Fund vide your No FB84948 for ₹. 200000 /- (Rupees
Two Lakh only)*

Thanking you

Yours faithfully

Additional Chief Secretary(Finance)

Encl Receipt No C3312969 dated 19-05-2020 for ₹. 200000 /-



CHIEF MINISTER'S DISTRESS RELIEF FUND KERALA

B No : C3312969

Received with thanks the sum of ₹. 200000/- (Rupees Two Lakh only) from SOUTHERN ROCK & AGGREGATE MINING COMPANY, CHERUTHURUTY as donation towards '**Chief Minister's Distress Relief Fund**'.

Contribution to CMDRF is **100% tax** exempt under Section 80G(2) of the Income Tax Act,1961 vide **PAN No. AAAGD0584M**.



**Additional Chief Secretary(Finance)
Treasurer
Chief Minister's Distress Relief Fund**

Thiruvananthapuram
19-05-2020

FIGURE – 1
PHOTOGRAPHS SHOWING THE RAINWATER HARVESTING POND



FIGURE – 2
PHOTOGRAPHS SHOWING THE AVENUE PLANTATION



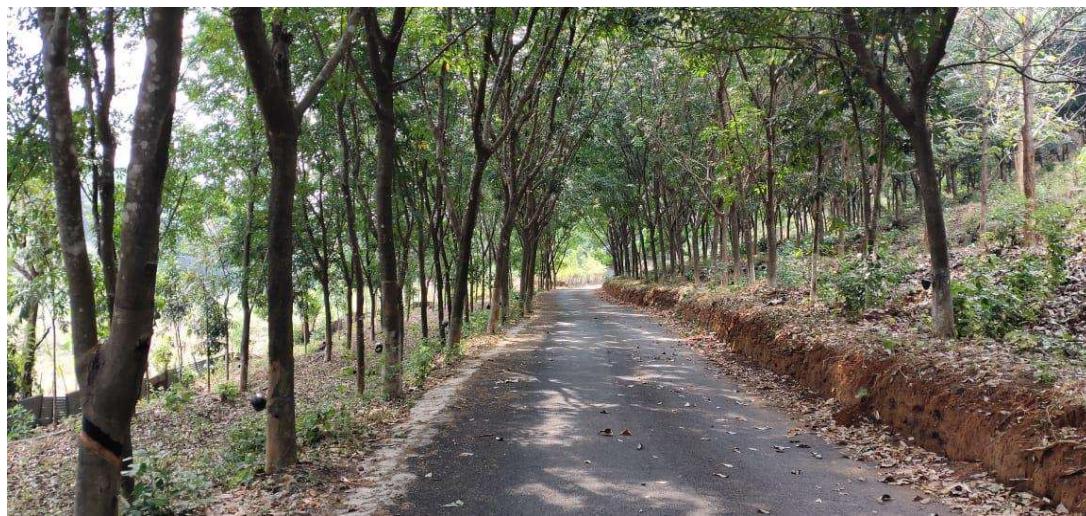


FIGURE – 3
PHOTOGRAPHS SHOWING THE SOLAR ENERGY LIGHTS



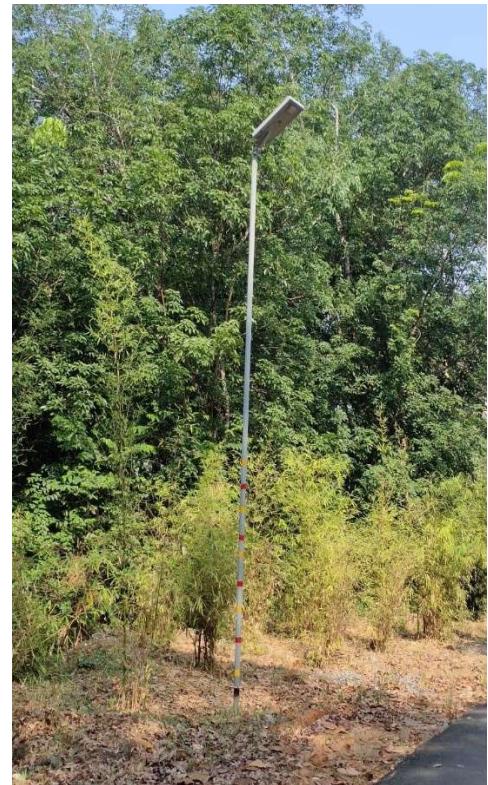
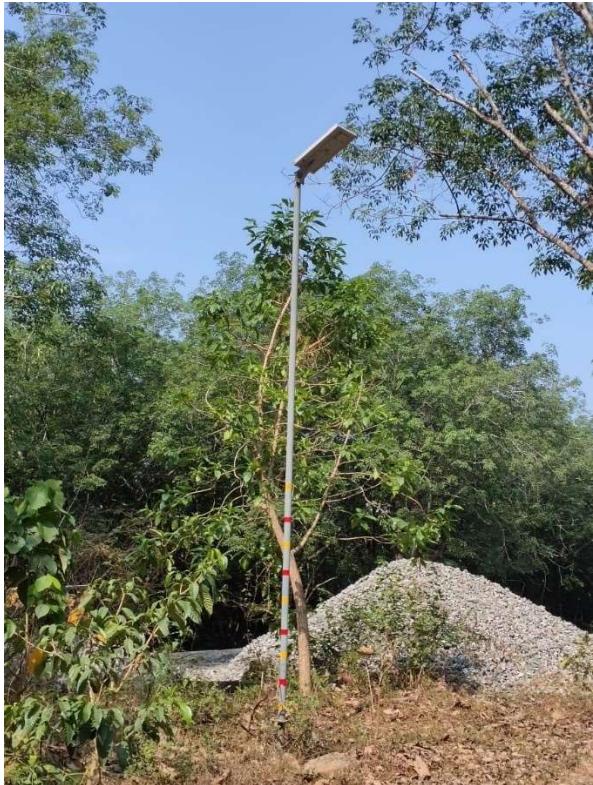


FIGURE – 4
PHOTOGRAPHS SHOWING THE WATER SPRINKELERS



FIGURE – 5

PHOTOGRAPHS SHOWING THE ECO PROTECTIVE MEASURES SUCH AS BUNDS, PLANTATIONS.



PHOTOGRAPHS SHOWING THE ECO PROTECTIVE MEASURES SUCH AS BUNDS, PLANTATIONS.



FIGURE – 6

PHOTOGRAPHS SHOWING THE ECO PROTECTIVE MEASURES SUCH AS BUNDS, PLANTATIONS.

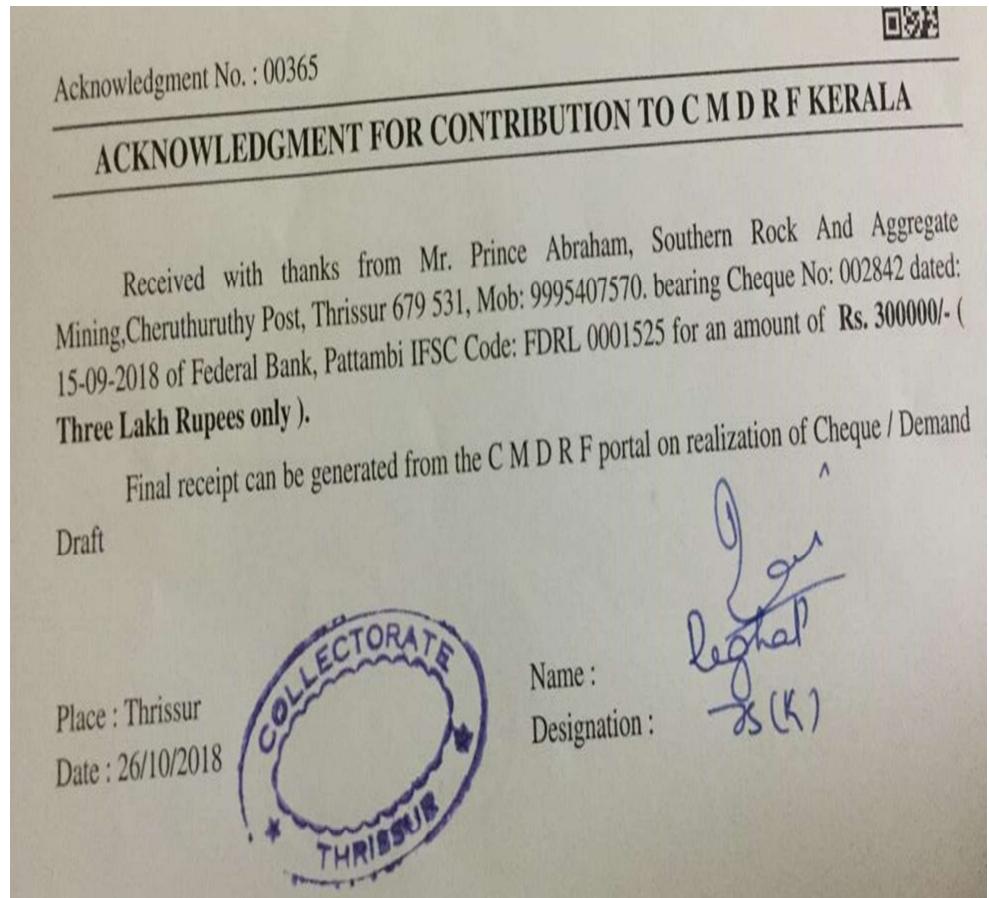


FIGURE - 7

PHOTOGRAPHS SHOWING THE CONTRIBUTION OF THE ELECTRIC CARGO VAN TO THE MENTAL HOSPITAL THRISSUR.



മാനസികാരോഗം ആശുപത്രിയിൽ വൈദ്യുതി വാന്





FIGURE – 8

PHOTOGRAPHS SHOWING THE DISTRIBUTION OF THE TAB / TV FOR THE STUDENTS DURING THE PANDEMIC SITUATION.



FIGURE – 9

PHOTOGRAPHS SHOWING THE RENOVATION AND REPAIR OF THREE HOUSES TO THE NEEDY PEOPLE.



FIGURE – 10.

PHOTOGRAPHS SHOWING THE DISTRIBUTION OF THE FOOD GRAINS TO THE NEEDY PEOPLE AT PANJAL VILLAGE.



FIGURE – 11.

**PHOTOGRAPHS SHOWING THE MATTRESS SUPPLIED FOR
SETTING UP THE FIRST LINE COVID CENTER AT THRISSUR**



FIGURE – 12.
PHOTOGRAPHS SHOWING THE FOOD SUPPLIED DURING THE FLOODS.



FIGURE – 13.
PHOTOGRAPHS SHOWING THE FENCING OF THE QUARRY BOUNDARY



FIGURE – 14.
PHOTOGRAPHS SHOWING THE BLASTING TIME



FIGURE – 15.

PHOTOGRAPHS SHOWING THE ASPHALTED ROADS OF APPROACH AND HAULAGE.



FIGURE – 16.

PHOTOGRAPHS SHOWING THE PROPER MAINTENANCE OF QUARRY BENCHES AND SYSTEMATIC WORKING.



FIGURE – 17.
PHOTOGRAPHS SHOWING THE CONVEYOR BELTS COVERED.



FIGURE – 18.

PHOTOGRAPHS SHOWING THE TALL GROWING PLANTS / TREES ALONG THE QUARRY BOUNDARY WHICH ACT AS ACOUSTIC BARRIER.



FIGURE – 19.

PHOTOGRAPHS SHOWING THE PERSONNEL PROTECTIVE EQUIPMENT PROVIDED TO THE PERSONNEL



FIGURE – 20.
PHOTOGRAPHS SHOWING THE GARLAND DRAINS



FIGURE – 21.
PHOTOGRAPHS SHOWING THE TRUCKS COVERED BY TARPAULINS



FIGURE – 22.
PHOTOGRAPHS SHOWING THE PLANTATION CARRIED OUT IN THE BUFFER ZONE 7.50 MTS.

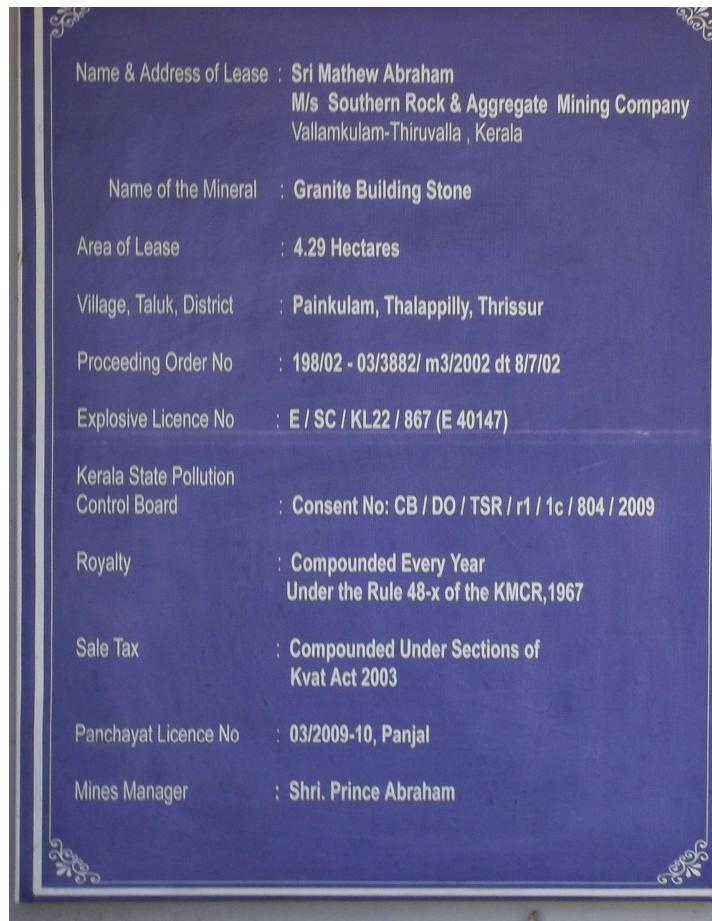


FIGURE – 23.
PHOTOGRAPHS SHOWING THE EXPLOSIVE MAGAZINE



FIGURE – 24.

PHOTOGRAPHS SHOWING THE EC CONDITIONS DISPLAY BOARD



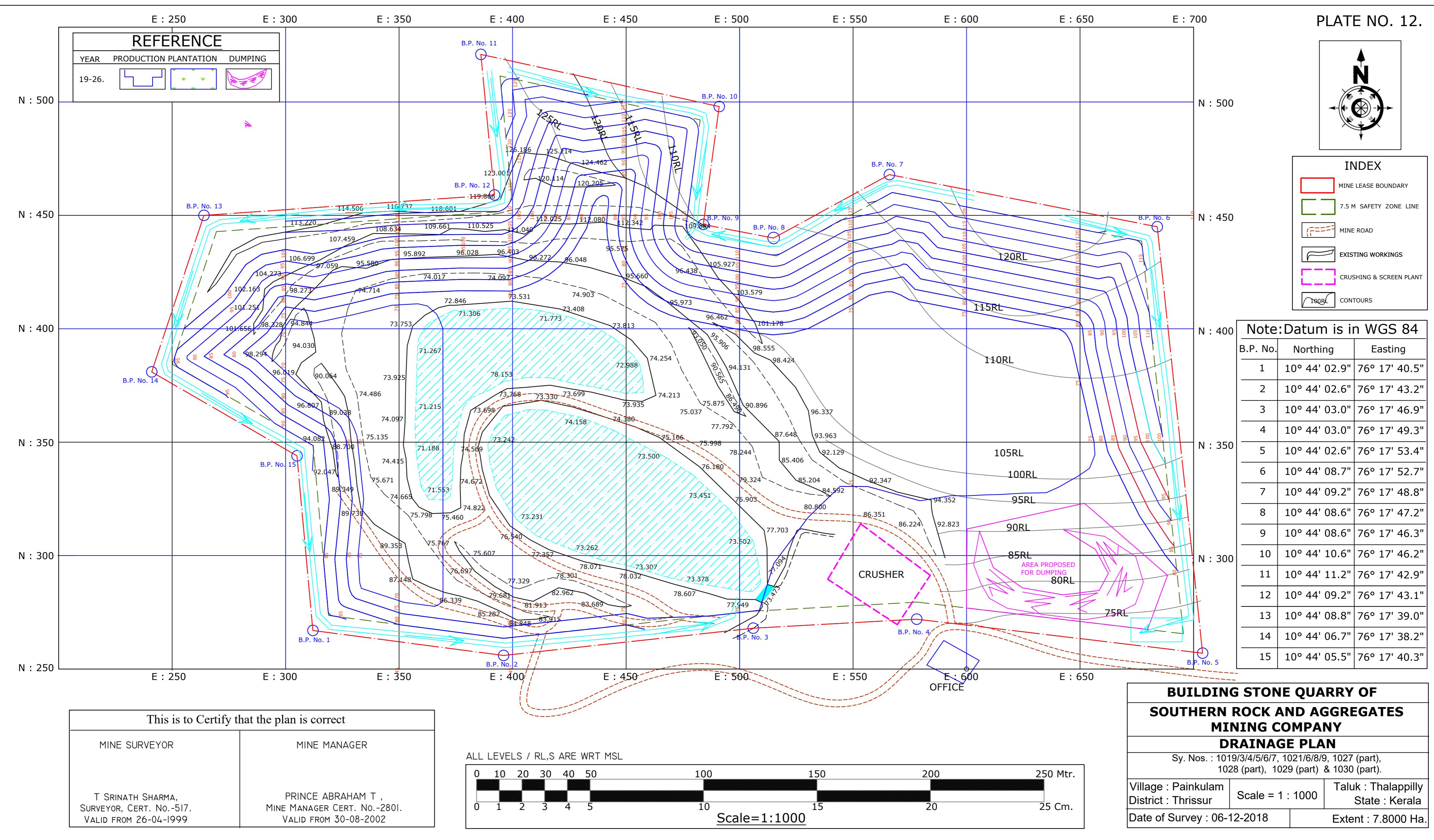


PLATE NO. 2

