

HEARTY WELCOME TO HON'BLE CHAIRMAN & MEMBERS OF SEAC

FOR THE PRESENTATION OF EXTENSION OF VALIDITY  
OF ENVIRONMENTAL CLEARANCE

FOR BUILDING STONE QUARRY

OF M/s. SOUTHERN ROCK & AGGREGATE MINING COMPANY

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,

THALAPPILLY TALUK, THRISSUR DISTRICT, KERALA STATE

PRODUCTION CAPACITY : BUILDING STONE 3,00,000 TPA

File No. : 285 / SEIAA / KL / 1362 / 2014

DATE : \_\_\_/02/2021

Prepared by :

METAMORPHOSIS PROJECT CONSULTANTS PVT. LTD - BENGALURU

EIA Consultants Certificate No. :

NABET/EIA/1821/RA /0129 Valid till : 30/11/2021



## Company Background /History

- **Southern Rock and Aggregate Mining Company** is a Proprietorship company established in the year 1987. Company's head office is situated at Vallamkulam, Thiruvalla. The company was established by **Mr. T. Mathew Abraham**.
- **Mr. T. Mathew Abraham** is the proprietor of the company.
- **Mr. Prince Abraham** is the Authorized signatory.
- The said quarry lease was granted by the Director of Mining and Geology Govt. of Kerala for a period of twelve years which was executed on **19<sup>th</sup> March 2015 and it is valid till 18<sup>th</sup> March 2027**. the details of area and Sy. Nos. are given below:

Sr. No	Name of the Village	Survey Nos.	Taluk & District	Area in Ha.
1	Painkulam	1019/3, 1019/4 1019/5, 1019/6, 1019/7, 1021/6, 1021/8, 1021/9, 1027P , 1028P, 1029P & 1030P	Thallapilly & Thrissur	7.8000



## Company Background /History

Initially, the Environmental Clearance was granted by the State Environmental Impact Assessment Authority (SEIAA) to produce 3,00,000 TPA of Building stone material on 05/12/2014 as per the EIA notification 2006.

As per the terms and conditions laid down in Environmental Clearance (EC), the EC is valid for 5 years and got expired on 04/12/2019. In view of this, The application was submitted to SEIAA requesting for the extension of the Environment Clearance validity.

**Southern Rock and Aggregate Mining Company** seeks the extension of validity of environmental clearance to carry out continued operation of Building stone quarrying.



## Company Background /History

- ✓ Application was uploaded on web portal on 04/09/2019 vide Proposal No. **SIA/KL/MIN/42268/2014**
- ✓ Submission of Hard Copy to Authority on 01/10/2019
- ✓ Scheme of mining Approved by Department of Mining & Geology on 29/3/2019.
- ✓ Receipt of letter from SEIAA to give the PPT presentation on 11/02/2020 in 110<sup>th</sup> SEAC meeting
- Accordingly, PPT presentation was made before 110<sup>th</sup> SEAC meeting held on 11/02/2020.
- Committee directed to submit the Standard TOR and EIA.
- Standard TOR application was uploaded on web portal on 22/05/2020 vide Proposal No. **SIA/KL/MIN/52608/2020**, thereafter, hard copy was submitted to SEIAA.



## Company Background /History

**Southern Rock and Aggregate Mining Company** is prime supplier of Ballast to Southern Railway and having the contract. Stone Ballast is one of the components of Railway track structure and it is essential for the stability of track which in turn improve the safety of running trains. Since the quality of Southern Rocks Ballast was good Railways were depending on this ballast.

Since, the EC got expired on 04/12/2019, **Southern Rock and Aggregate Mining Company** were not in a position to supply the ballast material to Southern Railway. So they have served the notice to issue the material or the contract will be terminated as per the terms and conditions.

**Southern Rock and Aggregate Mining Company** Filed an petition in the High Court of Kerala at Eranakulam being the writ petition WP (C) No. 17533 OF 2020 (N).

The judgment for the same was given by HONOURABLE HIGH COURT on 2<sup>nd</sup> November 2020,

In view of the judgment, we request you to kindly extend / renew the validity of the environment clearance.

## Notice from Railways

By Registered Post with Ack. Due.

SOUTHERN RAILWAY

No.J/W.148/7129

Divisional Office,  
Works Branch,  
Palghat,  
Dt.18/11/2019

**M/s.Southern Rock & Aggregate Mining Co.,  
Vallamkulam,Thiruvalla. 689 541.**

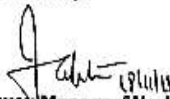
Sirs,

Sub: Proposed collection and training out 50mm machine crushed stone ballast at  
shoranur Depot.  
Agreement No.J/269 dated 28/10/2019.

\*\*\*

The work 'Proposed collection and training out 50mm machine crushed stone ballast at Shoranur Depot' was awarded to you vide letter of acceptance No.J/W.148/7129 dated 06/08/2019. Quantity of ballast so far collected is 3170.915cum. For the last one week no collection was done. Ballast is urgently required for ongoing track work. Caution imposed for track maintenance work and without dumping necessary ballast on track caution cannot be withdrawn. Ballast is also required to proposed BCM/Deep screening work. Therefore, please re-start the collection of ballast work with more men and material, otherwise action will be taken terminate under the provisions of General Conditions of Contract.

Yours faithfully,

  
Divisional Railway Manager/Works,  
S. Railway, Palakkad,

Copy to: ADEN/SRR for necessary action.

## Photographs showing the railway ballast



# Details of approved Mining plan and Scheme of quarrying

Initially, the first Mining plan was prepared for five years (i.e, 2014 – 15 to 2018 – 19) and it was approved by District Geologist, Thrissur, which got expired on 31.03.2019. Thereafter, a Scheme of mining was prepared for next five year (i.e, 2019 – 20 to 2023-24) and the same was approved by District Geologist, Thrissur.

Government of Kerala  
Office of the District Geologist, Thrissur District  
Mining and Geology Department, Thrissur, Kerala

Letter No. 168/C2/1100/15 Date: 31.02.2015

M/s. Southern Rock & Aggregate Mining Company  
Vallankulam, Thiruvalla  
Works : Pankulam Village Thalappilly Taluk,  
Thrissur, Kerala - 679531

Sub: Approval of Eco-friendly mining plan - Building Stone Quarry of  
Southern Rock & Aggregate Mining Co at Survey Nos 1019/3, 1019/4, 1019/5,  
1019/6, 1019/7, 1021/6, 1021/8, 1021/9, 1027P, 1028P, 1029P and 1030P extend  
7.88a of Pankulam Village, Thalappilly Taluk, Thrissur District, Kerala-Reg  
Sir,

The mining plan for the building stone quarry project at Survey Nos. 1019/3,  
1019/4, 1019/5, 1019/6, 1019/7, 1021/6, 1021/8, 1021/9, 1027P, 1028P, 1029P and  
1030P of extent 7.8000 Ha of Pankulam Village, Thalappilly Taluk, Thrissur  
District, Kerala is hereby approved vide the powers delegated to the district  
geologist for the approval of mining plan for the minor minerals vide Order of  
Industries Department, Government of Kerala No. G.O. No. 05/2015/D  
(D.12.01.2015) and Kerala minor mineral concession Rule, 2015 with the following  
conditions.

1. That you will follow the prescribed Rules & Regulations of Central Government and State Government issued from time to time in regard to mining.
2. That you will follow the Mine Safety Rules & Regulations.
3. That you will store the mining waste in the earmarked location/dumping yard only as specified in the plan.
4. That you will carry out the plantation as committed in the plan.
5. That provision shall be made for the housing facility for the labour with all basic infrastructure facilities including safe drinking water, toilets etc. within the site.



Yours faithfully

Geologist  
MINING AND GEOL  
OFFICE OF DISTRICT AND SUB-DISTRICT  
SUB-DISTRICT OFFICE  
THRISUR

No.294 C2/1100/2019  
District Office and Department  
of Mining & Geology, Minor Civil Supplies,  
Construction, Thrissur-20  
Web: www.dog.kerala.gov.in  
E-mail: geodis@kerala.gov.in  
Phone 0487 2328177  
Thurs 29.02.2019

From  
The District Geologist  
Thrissur

To  
Southern Rock & Aggregate Mining Company  
Pankulam P.O., Changanassery, Thrissur District

Re:  
Sub: Minor & Mineral-Mineable Minerals-Approval of Mining Plan-Grant of  
Building Stone quarry at Survey No 1019/3, 4, 5, 6, 7, 1021/6, 8, 9, 1027p,  
1028P, 1029p, 1030p of Pankulam Village, Thalappilly Taluk, Thrissur  
District.

Ref:- 1. The Mines and Minerals (Development and Regulation) Act 1957  
2. The Kerala Minor Mineral Concession Rules 2015  
3. Your Application dated 25.03.2019

The mining plan of building stone quarry project at Survey Nos. 1019/3, 4, 5, 6, 7, 1021/6, 8, 9, 1027p, 1028p, 1029p, 1030p of Pankulam Village,  
Thalappilly Taluk, Thrissur District for an area 7.8 hectares is hereby approved with the  
following conditions.

- That you will follow the prescribed Rules and Regulations of Central Government and State Government issued from time to time in regard to mining operation
- That you will follow the Mine Safety Rules and Regulations.
- That you will store the mining waste in the earmarked location/dumping yard only as specified in the plan.
- That you will carry out the environmental management procedures as committed in the plan without fail.
- That your yearly production shall be returned to us as envisaged in the plan
- That any modification in the scheme shall only be carried out with prior approval from the authority concerned.

Yours faithfully  
Geologist  
MINING AND GEOL  
OFFICE OF DISTRICT AND SUB-DISTRICT  
SUB-DISTRICT OFFICE  
THRISUR



## SALIENT FEATURES

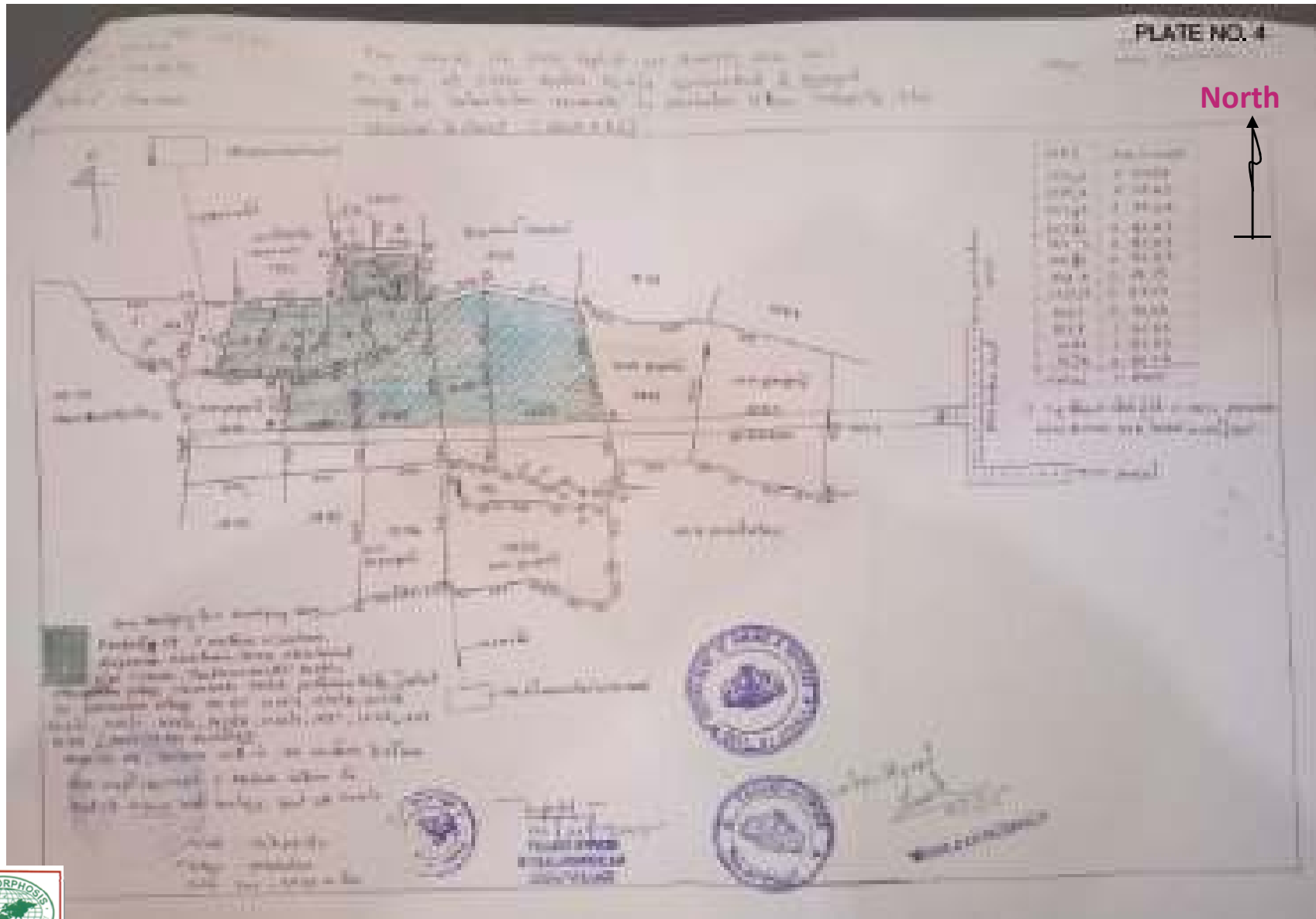
Longitude	E: 76° 17' 38.2" to E: 76° 34' 53.4"
Latitude	N: 10° 44' 02.6" to N: 10° 44' 11.2"
Topo sheet No.	Toposheet Number 58 B / 6
Highest & Lowest Elevation	120 MSL and 60 MSL.
Nearest Town	Nearest human settlement is 108 m from the quarry area towards west, Nearest village is Vallathol Nagar which is at a distance of 1.50 Kms towards west of the quarry lease.
Nearest Railway Station	Nearest railway Station is Vallathol Nagar Railway station which is at a distance of 1.5 Kms (Aerial Distance) towards west of quarry area.
Nearest Airport	Cochin Airport is about 65 Kms from the site.



## Location and accessibility to the quarry



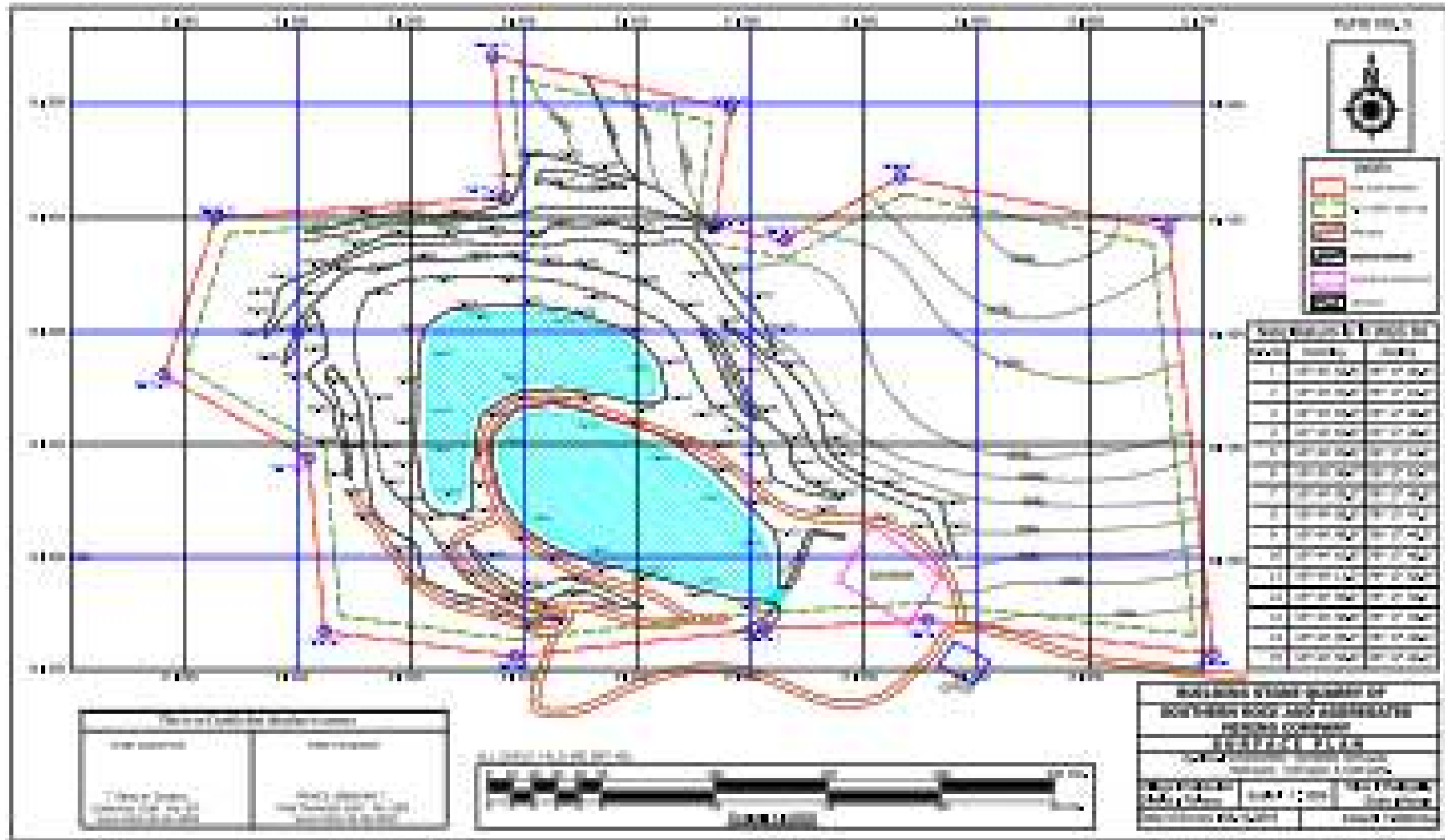
## Lease area showing on village Map and Approved by Village Officer







## Surface Plan along with GPS readings of all the corners





Present land use around 500 m of Quarry Area



## Project Site Photographs showing the boundary pillar





## Quarry Site Photographs



Access Road to Quarry Site



Photographs showing the quarry benches



Photographs showing the Plant Premises



Photographs showing the quarry benches



## Quarry Site Photographs



Photographs showing the quarry benches



Photographs showing the quarry benches

## Geology

Entire quarry area is exposed by Charnockite (commercially known as Granite), towards the south of the quarry area it covered by topsoil with the thickness varying up to 0.70 to 1.0 mts. Charnockite is the country rock in the quarry site. The geological parameters / features of the ore body as obtained from the field mapping studies reveal the following.

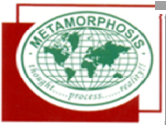
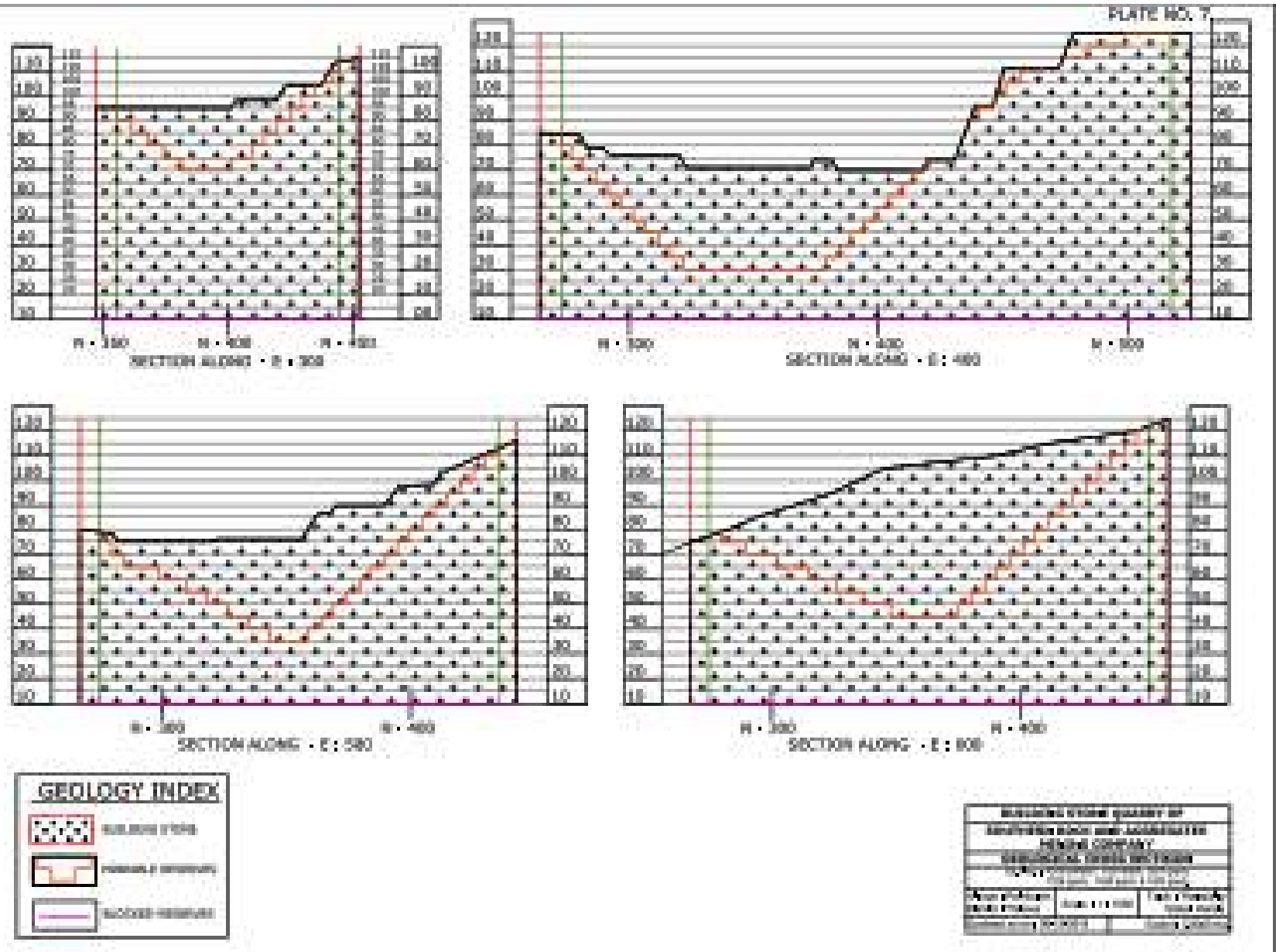
<b>General strike</b>	:	E - W with local variation of $10^0$ – $15^0$ on either side.
<b>Dip</b>	:	$70^0$ - $80^0$ dipping southerly.
<b>Length of the ore body</b>	:	375 mts.
<b>Width of the ore body</b>	:	170-180 mts.
<b>Depth of the ore body</b>	:	80-100 mts







# Geological Cross sections



## Reserves & Life of the Quarry

Insitu Reserves		Unit: tonnes
Category	ROM Building Stone	Waste Rock
Geological reserves	75,83,078	4,00,109
<b>Mineable reserves</b>	<b>35,36,078</b>	<b>1,86,109</b>
Blocked reserves	40,47,000	2,14,000

Note : Geological Reserves = Mineable Reserves + Blocked Reserves

Considering the mineable reserves and average production, the estimated life of the quarry is 10 - 12 years , when once quarry becomes operational after renewal / extension of validity of EC.

The life of the mine is estimated only for the Mineable reserves. The blocked reserves are blocked due to the practical and technical constraints such as lease boundary.







SOUTHERN ROCKS & AGGREGATE MINING COMPANY								
TABLES SHOWING THE CROSS SECTION WISE RESERVES ESTIMATION OF MINEABLE.								
ABSTRACT - CROSS SECTION WISE								
BETN. CR. SEC.		AV. AREA	Sec Int.	VOLUME	Sp. Gr. / Bu. Dn.	TONNAGE	MINEABLE @ 95 %	WASTE @ 5 %
E : 250	E : 300	662.50	50.00	33,125.00	2.50	82,812.50	78,671.88	4,140.63
E : 300	E : 400	2,832.50	100.00	283,250.00	2.50	708,125.00	672,718.75	35,406.25
E : 400	E : 500	3,975.00	100.00	397,500.00	2.50	993,750.00	944,062.50	49,687.50
E : 500	E : 600	4,777.50	100.00	477,750.00	2.50	1,194,375.00	1,134,656.25	59,718.75
E : 600	E : 700	2,972.50	100.00	297,250.00	2.50	743,125.00	705,968.75	37,156.25
<b>TOTAL</b>		<b>15,220.00</b>		<b>1,488,875.00</b>	<b>2.50</b>	<b>3,722,187.50</b>	<b>3,536,078.13</b>	<b>186,109.38</b>

SOUTHERN ROCKS & AGGREGATE MINING COMPANY								
TABLES SHOWING THE BENCH WISE RESERVES ESTIMATION OF MINEABLE.								
ABSTRACT - BENCH WISE								
BENCH RL		AV. AREA	Sec Int.	VOLUME	Sp. Gr. / Bu. Dn.	TONNAGE	MINEABLE @ 95 %	WASTE @ 5 %
125.00		-	100.00	-	2.50	-	-	-
120.00		110.00	100.00	11,000.00	2.50	27,500.00	26,125.00	1,375.00
115.00		130.00	100.00	13,000.00	2.50	32,500.00	30,875.00	1,625.00
110.00		235.00	100.00	23,250.00	2.50	58,125.00	55,218.75	2,906.25
105.00		430.00	100.00	42,625.00	2.50	106,562.50	101,234.38	5,328.13
100.00		580.00	100.00	56,750.00	2.50	141,875.00	134,781.25	7,093.75
95.00		690.00	100.00	66,375.00	2.50	165,937.50	157,640.63	8,296.88
90.00		990.00	100.00	90,375.00	2.50	225,937.50	214,640.63	11,296.88
85.00		1,075.00	100.00	100,250.00	2.50	250,625.00	238,093.75	12,531.25
80.00		1,105.00	100.00	104,625.00	2.50	261,562.50	248,484.38	13,078.13
75.00		1,160.00	100.00	111,625.00	2.50	279,062.50	265,109.38	13,953.13
70.00		1,530.00	100.00	150,500.00	2.50	376,250.00	357,437.50	18,812.50
65.00		1,620.00	100.00	162,000.00	2.50	405,000.00	384,750.00	20,250.00
60.00		1,395.00	100.00	139,500.00	2.50	348,750.00	331,312.50	17,437.50
55.00		1,180.00	100.00	118,000.00	2.50	295,000.00	280,250.00	14,750.00
50.00		980.00	100.00	98,000.00	2.50	245,000.00	232,750.00	12,250.00
45.00		780.00	100.00	78,000.00	2.50	195,000.00	185,250.00	9,750.00
40.00		530.00	100.00	53,000.00	2.50	132,500.00	125,875.00	6,625.00
35.00		415.00	100.00	41,500.00	2.50	103,750.00	98,562.50	5,187.50
30.00		285.00	100.00	28,500.00	2.50	71,250.00	67,687.50	3,562.50
25.00		-	100.00	-	2.50	-	-	-
20.00		-	100.00	-	2.50	-	-	-
<b>TOTAL</b>		<b>15,220.00</b>	<b>100.00</b>	<b>1,488,875.00</b>	<b>2.50</b>	<b>3,722,187.50</b>	<b>3,536,078.13</b>	<b>186,109.38</b>
<b>ratio</b>							<b>1:</b>	<b>0.05263</b>

# Reserves Calculations



CALCULATION BETWEEN SECTION E : 250 E : 250									
S.L	P : 250	P : 300	AV. AREA	Sec Incl.	VOLUME	Sp. Gr. / Bq. Ton	TONNAGE	MINERAL @ 95 %	WASTE @ 5 %
130.00		13.00	5.00	50.00	250.00	2.50	625.00	593.75	31.25
125.00		15.00	7.50	50.00	375.00	2.50	937.50	890.61	46.88
120.00		50.00	25.00	50.00	1,250.00	2.50	3,125.00	2,968.75	156.25
115.00		205.00	102.50	50.00	5,125.00	2.50	12,812.50	12,171.87	640.62
110.00		545.00	272.50	50.00	13,625.00	2.50	34,062.50	32,468.75	1,593.75
105.00		290.00	145.00	50.00	7,250.00	2.50	18,125.00	17,218.75	906.25
100.00		215.00	107.50	50.00	5,375.00	2.50	13,437.50	12,868.75	568.75
95.00		175.00	87.50	50.00	4,375.00	2.50	10,937.50	10,390.61	546.88
90.00		300.00	150.00	50.00	7,500.00	2.50	18,750.00	17,937.50	812.50
Total	-	1,515.00	662.50	50.00	39,125.00	2.50	97,812.50	93,671.88	4,140.61

CALCULATION BETWEEN SECTION P : 300 P : 400									
S.L	P : 300	P : 400	AV. AREA	Sec Incl.	VOLUME	Sp. Gr. / Bq. Ton	TONNAGE	MINERAL @ 95 %	WASTE @ 5 %
130.00	-	305.00	52.50	130.00	6,725.00	2.50	16,812.50	15,968.75	843.75
125.00	-	45.00	22.50	130.00	2,725.00	2.50	6,812.50	6,468.75	343.75
120.00	30.00	15.00	12.50	130.00	1,250.00	2.50	3,125.00	2,968.75	156.25
115.00	15.00	45.00	22.50	130.00	2,725.00	2.50	6,812.50	6,468.75	343.75
110.00	50.00	15.00	32.50	130.00	3,225.00	2.50	8,062.50	7,718.75	403.75
105.00	205.00	5.00	10.00	130.00	1,300.00	2.50	3,250.00	3,062.50	187.50
100.00	545.00	10.00	17.50	130.00	17,750.00	2.50	44,375.00	42,156.25	2,218.75
95.00	290.00		145.00	130.00	14,500.00	2.50	36,250.00	34,437.50	1,812.50
90.00	215.00	35.00	115.00	130.00	15,925.00	2.50	39,762.50	37,668.75	2,093.75
85.00	175.00	90.00	132.50	130.00	15,225.00	2.50	38,062.50	36,168.75	1,893.75
80.00	300.00	200.00	250.00	130.00	20,200.00	2.50	50,500.00	47,975.00	2,525.00
75.00	-	615.00	312.50	130.00	31,750.00	2.50	79,375.00	75,436.25	3,938.75
70.00	-	585.00	292.50	130.00	20,250.00	2.50	50,625.00	48,468.75	2,156.25
65.00	-	515.00	257.50	130.00	26,750.00	2.50	66,875.00	63,531.25	3,343.75
60.00	-	685.00	342.50	130.00	35,125.00	2.50	87,812.50	83,918.75	4,893.75
55.00	-	435.00	217.50	130.00	21,750.00	2.50	54,375.00	51,656.25	2,718.75
50.00	-	885.00	592.50	130.00	29,225.00	2.50	73,062.50	69,718.75	3,343.75
45.00	-	515.00	257.50	130.00	15,750.00	2.50	39,375.00	37,531.25	1,843.75
40.00	-	285.00	142.50	130.00	14,250.00	2.50	35,625.00	33,843.75	1,781.25
Total	3,420.00	4,440.00	2,802.50	208.00	200,400.00	2.50	500,500.00	475,718.75	24,681.25

CALCULATION BETWEEN SECTION E : 400 E : 500									
S.L	P : 400	P : 500	Sec Incl.	VOLUME	Sp. Gr. / Bq. Ton	TONNAGE	MINERAL @ 95 %	WASTE @ 5 %	
130.00	165.00		52.50	130.00	5,250.00	2.50	32,312.50	31,468.75	843.75
125.00	45.00		22.50	130.00	2,250.00	2.50	5,625.00	5,356.25	268.75
120.00	15.00	10.00	12.50	130.00	1,250.00	2.50	3,125.00	2,968.75	156.25
115.00	40.00	35.00	27.50	130.00	2,750.00	2.50	6,875.00	6,606.25	468.75
110.00	15.00	60.00	37.50	130.00	5,750.00	2.50	9,375.00	8,906.25	468.75
105.00	5.00	100.00	52.50	130.00	5,750.00	2.50	32,312.50	31,468.75	843.75
100.00	30.00	115.00	62.50	130.00	9,375.00	2.50	35,625.00	34,656.25	968.75
95.00	-	215.00	107.50	130.00	15,750.00	2.50	39,375.00	37,931.25	1,443.75
90.00	25.00	230.00	122.50	130.00	12,750.00	2.50	31,875.00	30,268.75	1,606.25
85.00	60.00	270.00	130.00	130.00	16,900.00	2.50	42,250.00	40,137.50	2,112.50
80.00	260.00	575.00	437.50	130.00	40,750.00	2.50	136,375.00	129,906.25	6,468.75
75.00	645.00	530.00	572.50	130.00	57,250.00	2.50	194,375.00	187,268.75	7,106.25
70.00	585.00	490.00	537.50	130.00	50,750.00	2.50	176,875.00	170,931.25	5,943.75
65.00	535.00	245.00	440.00	130.00	44,000.00	2.50	136,000.00	129,500.00	6,500.00
60.00	485.00	280.00	532.50	130.00	58,250.00	2.50	145,625.00	138,843.75	6,781.25
55.00	435.00	210.00	322.50	130.00	32,250.00	2.50	80,625.00	76,593.75	4,031.25
50.00	285.00	245.00	265.00	130.00	36,250.00	2.50	90,250.00	86,806.25	3,443.75
45.00	515.00	80.00	257.50	130.00	30,750.00	2.50	76,875.00	73,368.75	3,506.25
40.00	285.00		142.50	130.00	14,250.00	2.50	35,625.00	33,843.75	1,781.25
30.00	285.00		242.50	130.00	14,250.00	2.50	35,625.00	33,843.75	1,781.25
Total	4,940.00	5,810.00	5,875.00	208.00	597,500.00	2.50	1,993,750.00	1,944,843.75	68,906.25

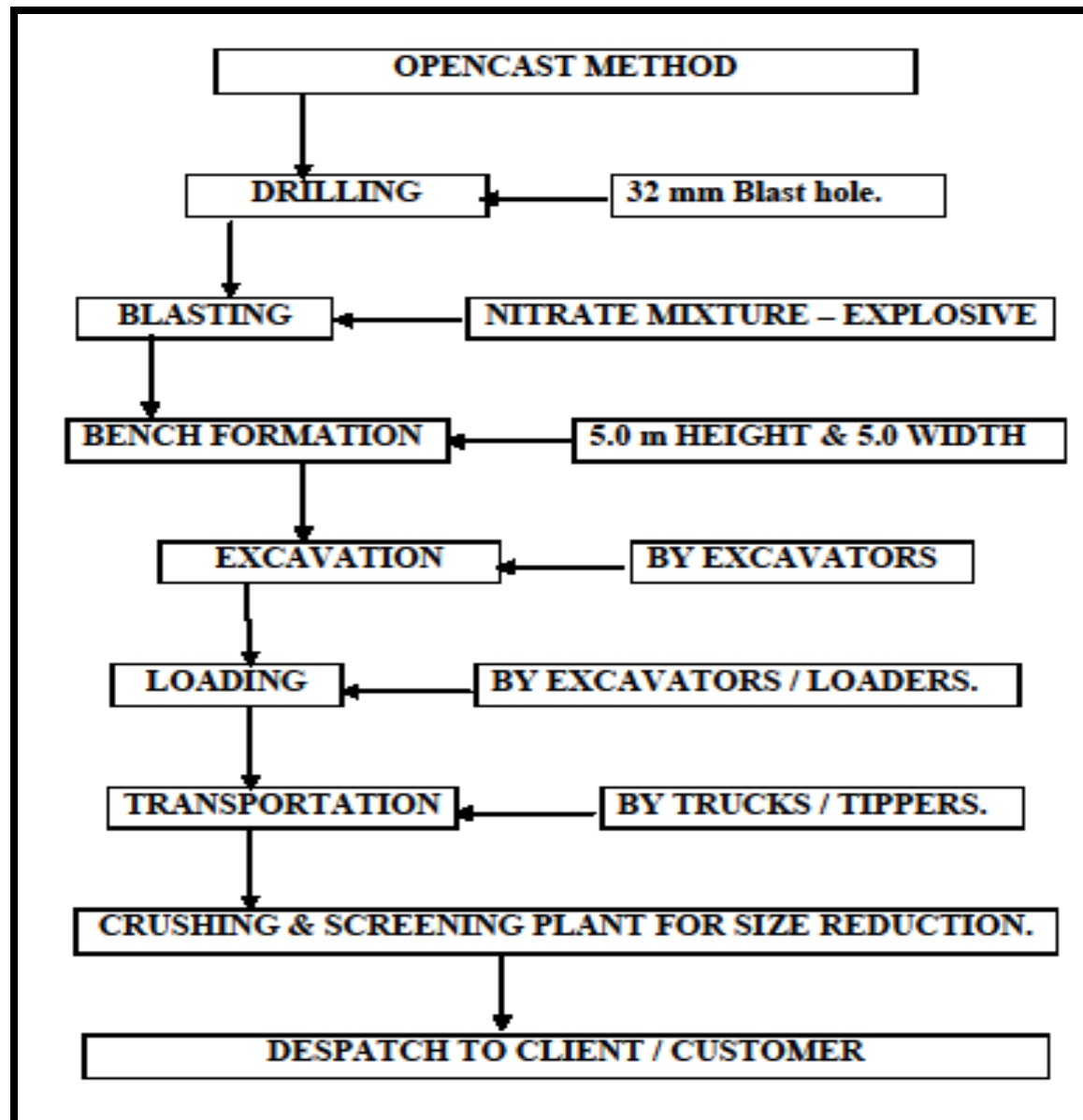
# Reserves Calculations

CALCULATION BETWEEN SECTION E : 500 E:600									
B.L	E : 500	E:600		Sec Int.	VOLUME	Sp. Gr. / Bu. Dn.	TONNAGE	MINEABLE @ 95 %	WASTE @ 5 %
120.00	-	5.00	2.50	100.00	250.00	2.50	625.00	593.75	31.25
115.00	-	85.00	42.50	100.00	4,250.00	2.50	10,625.00	10,093.75	531.25
110.00	10.00	200.00	105.00	100.00	10,500.00	2.50	26,250.00	24,937.50	1,312.50
105.00	35.00	340.00	187.50	100.00	18,750.00	2.50	46,875.00	44,531.25	2,343.75
100.00	60.00	455.00	257.50	100.00	25,750.00	2.50	64,375.00	61,156.25	3,218.75
95.00	100.00	480.00	290.00	100.00	29,000.00	2.50	72,500.00	68,875.00	3,625.00
90.00	115.00	520.00	317.50	100.00	31,750.00	2.50	79,375.00	75,406.25	3,968.75
85.00	215.00	570.00	392.50	100.00	39,250.00	2.50	98,125.00	93,218.75	4,906.25
80.00	220.00	615.00	417.50	100.00	41,750.00	2.50	104,375.00	99,156.25	5,218.75
75.00	270.00	625.00	447.50	100.00	44,750.00	2.50	111,875.00	106,281.25	5,593.75
70.00	575.00	555.00	565.00	100.00	56,500.00	2.50	141,250.00	134,187.50	7,062.50
65.00	520.00	465.00	492.50	100.00	49,250.00	2.50	123,125.00	116,968.75	6,156.25
60.00	430.00	380.00	405.00	100.00	40,500.00	2.50	101,250.00	96,187.50	5,062.50
55.00	345.00	300.00	322.50	100.00	32,250.00	2.50	80,625.00	76,593.75	4,031.25
50.00	280.00	215.00	247.50	100.00	24,750.00	2.50	61,875.00	58,781.25	3,093.75
45.00	210.00	135.00	172.50	100.00	17,250.00	2.50	43,125.00	40,968.75	2,156.25
40.00	145.00		72.50	100.00	7,250.00	2.50	18,125.00	17,218.75	906.25
35.00	80.00		40.00	100.00	4,000.00	2.50	10,000.00	9,500.00	500.00
<b>Total</b>	<b>3,610.00</b>	<b>5,945.00</b>	<b>4,777.50</b>	<b>100.00</b>	<b>477,750.00</b>	<b>2.50</b>	<b>1,194,375.00</b>	<b>1,134,656.25</b>	<b>59,718.75</b>

CALCULATION BETWEEN SECTION E:600 E:700									
B.L	E:600	E:700		Sec Int.	VOLUME	Sp. Gr. / Bu. Dn.	TONNAGE	MINEABLE @ 95 %	WASTE @ 5 %
120.00	5.00		2.50	100.00	250.00	2.50	625.00	593.75	31.25
115.00	85.00		42.50	100.00	4,250.00	2.50	10,625.00	10,093.75	531.25
110.00	200.00		100.00	100.00	10,000.00	2.50	25,000.00	23,750.00	1,250.00
105.00	340.00		170.00	100.00	17,000.00	2.50	42,500.00	40,375.00	2,125.00
100.00	455.00		227.50	100.00	22,750.00	2.50	56,875.00	54,031.25	2,843.75
95.00	480.00		240.00	100.00	24,000.00	2.50	60,000.00	57,000.00	3,000.00
90.00	520.00		260.00	100.00	26,000.00	2.50	65,000.00	61,750.00	3,250.00
85.00	570.00		285.00	100.00	28,500.00	2.50	71,250.00	67,687.50	3,562.50
80.00	615.00		307.50	100.00	30,750.00	2.50	76,875.00	73,031.25	3,843.75
75.00	625.00		312.50	100.00	31,250.00	2.50	78,125.00	74,218.75	3,906.25
70.00	555.00		277.50	100.00	27,750.00	2.50	69,375.00	65,906.25	3,468.75
65.00	465.00		232.50	100.00	23,250.00	2.50	58,125.00	55,218.75	2,906.25
60.00	380.00		190.00	100.00	19,000.00	2.50	47,500.00	45,125.00	2,375.00
55.00	300.00		150.00	100.00	15,000.00	2.50	37,500.00	35,625.00	1,875.00
50.00	215.00		107.50	100.00	10,750.00	2.50	26,875.00	25,531.25	1,343.75
45.00	135.00		67.50	100.00	6,750.00	2.50	16,875.00	16,031.25	843.75
<b>Total</b>	<b>5,945.00</b>	<b>-</b>	<b>2,972.50</b>	<b>100.00</b>	<b>297,250.00</b>	<b>2.50</b>	<b>743,125.00</b>	<b>705,968.75</b>	<b>37,156.25</b>



## Process Flow Chart of Quarry Operation



## Proposed Production for next Five year.

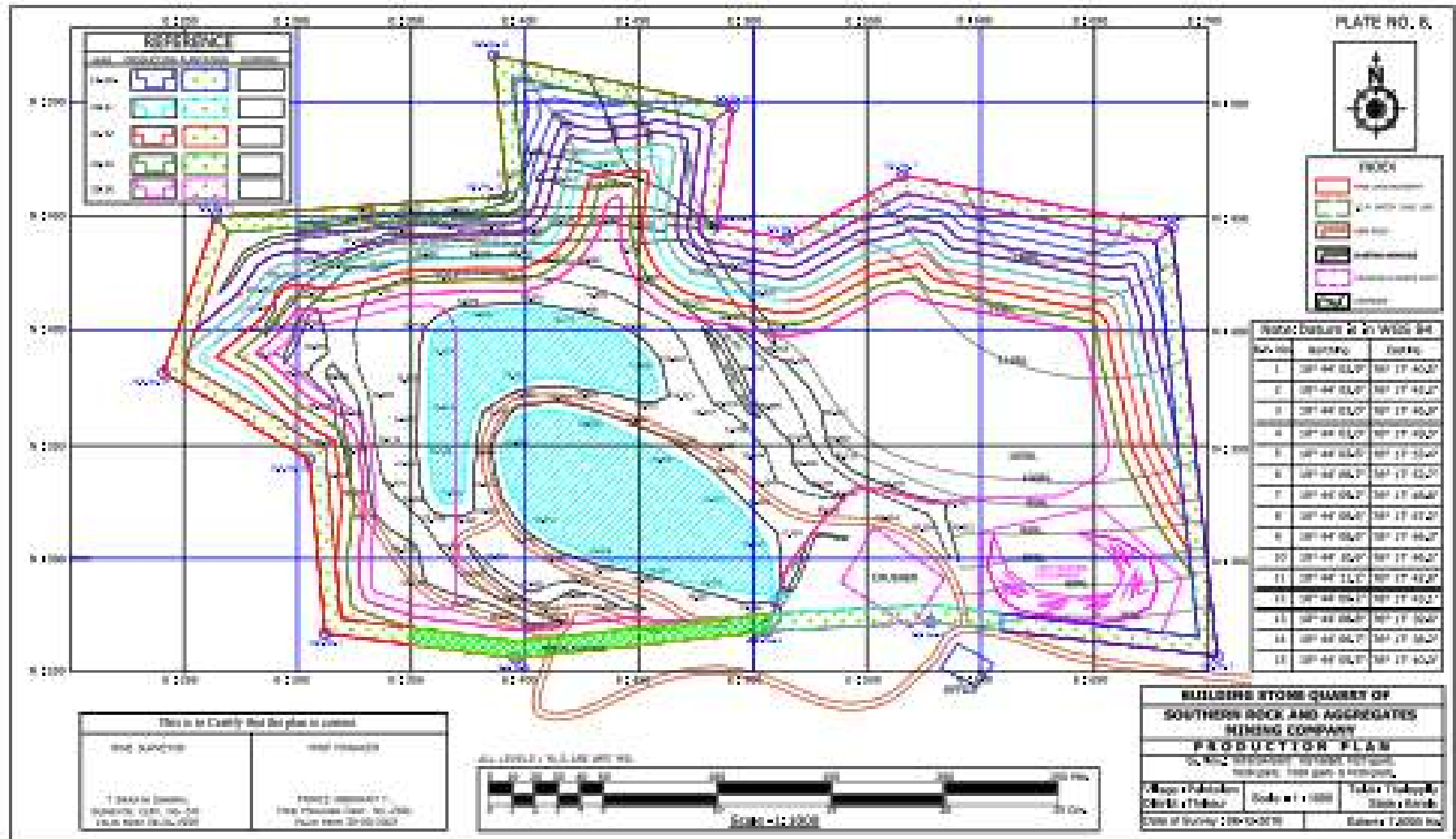
Unit in Tonnes			
Year	ROM	Waste	Strip Ratio
1st Year 2019 - 20	2,99,547	15,766	1: 0.05
2nd Year 2020 - 21	2,97,469	15,656	1: 0.05
3rd Year 2021- 22	2,99,844	15,781	1: 0.05
4th year 2022 - 23	2,99,547	15,766	1: 0.05
5th year 2023 - 24	2,98,359	15,703	1: 0.05
<b>Total</b>	<b>14,94,766</b>	<b>78,672</b>	<b>1: 0.05</b>

## Proposed Production for next Successive block of Five year.

Qty in tonnes	
Block of five years	Proposed Production
1 <sup>st</sup> block of 5 year 2019 – 20 to 2023 – 24	14,94,766
2 <sup>nd</sup> block of 5 year 2024 – 25 to 2028 – 29	15,00,000
3 <sup>rd</sup> block of 5 year 2029 – 30 to 2033 – 34	5,41,312
<b>Total</b>	<b>35,36,078</b>



# Production plan – proposed five years









## **STATUS OF COMPLIANCE TO EC CONDITIONS**



## Compliance to EC Conditions

- (i) Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified elsewhere.

Rain Water Harvesting pits is provided to collect the rain water as per the KMNR /KPBR.



- (ii) Environmental Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.

Environmental Monitoring Cell headed by Quarry / Mines Manager along with qualified Environmental Consultant / Engineers is being engaged for effective implementation of the pollution control measures.



## Compliance to EC Conditions - Contd.,

(iii) 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.

Avenue trees planted either side of the road, approach road and internal roads. The photographs of the same shown below:





## Compliance to EC Conditions - Contd.,

(iv) The project shall incorporate devices for solar energy generation and utilization wherever possible.

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.



## Compliance to EC Conditions - Contd.,

**(v) 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 for the same are enclosed herewith.





## Compliance to EC Conditions - Contd.,

(vi) The eco-restoration plan submitted with the proposal should be fully implemented.

Eco-restoration plan as per the Post Mine Closure Plan Will be Implemented in the quarry as per the plan submitted. However plantation, protective bunds and etc., has been carried out few photographs of the same is shown in below :



## Compliance to EC Conditions - Contd.,



Photographs showing the  
plantation within quarry on  
road and safety buffer (7.50  
mts)





## Compliance to EC Conditions - Contd.,



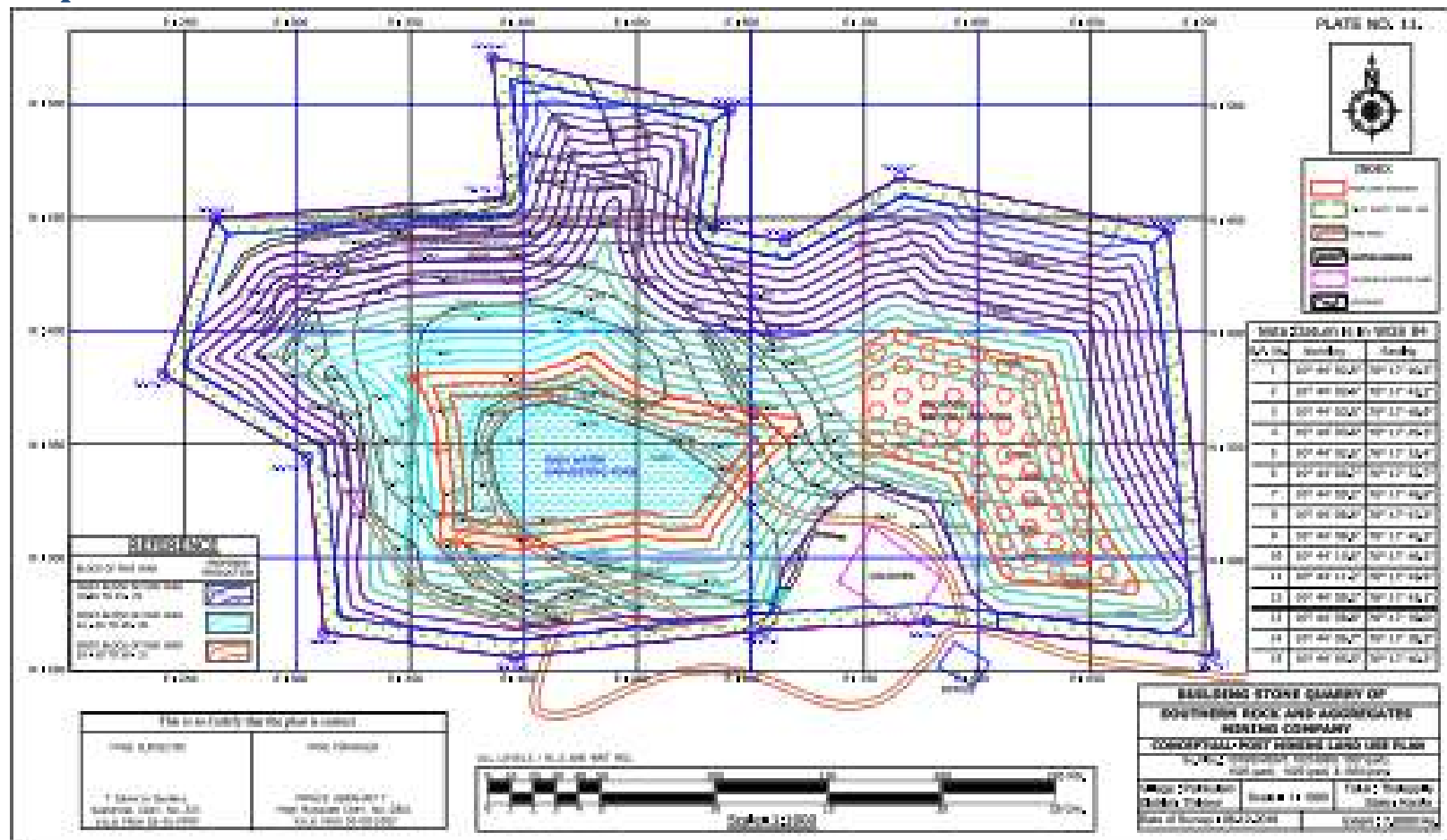
PHOTOGRAPHS SHOWING THE PROTECTIVE AND SAFETY MESURES





(vii) At least 10 percent of the total excavated pit area should be retained as water storage area 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 waste. This will be done at the final stage of the quarry closure. The same is dealt in the approved mining plan. Conceptual Plan is shown below:



## Compliance to EC Conditions - Contd.,

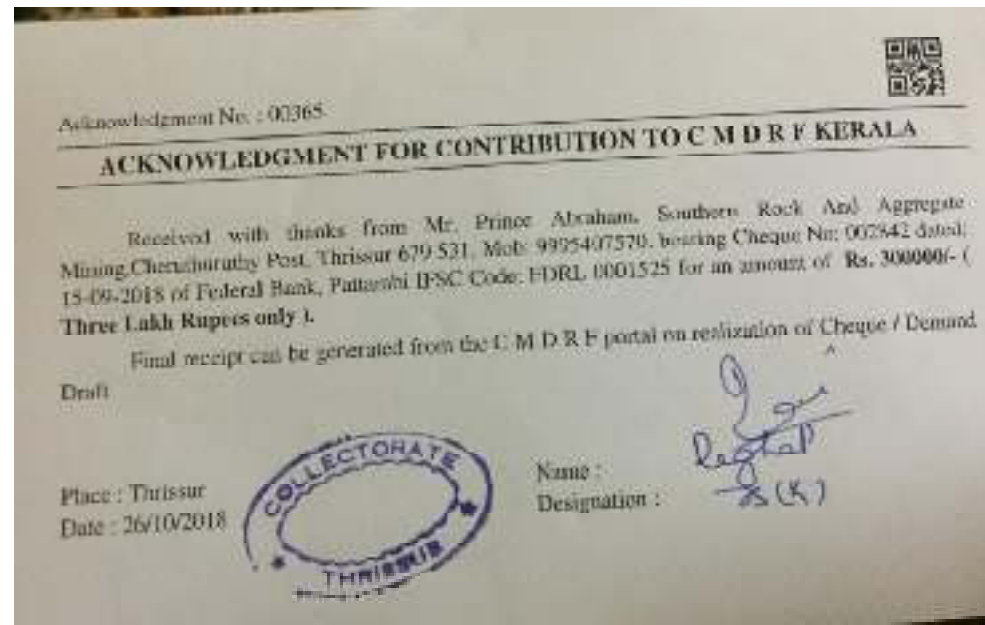
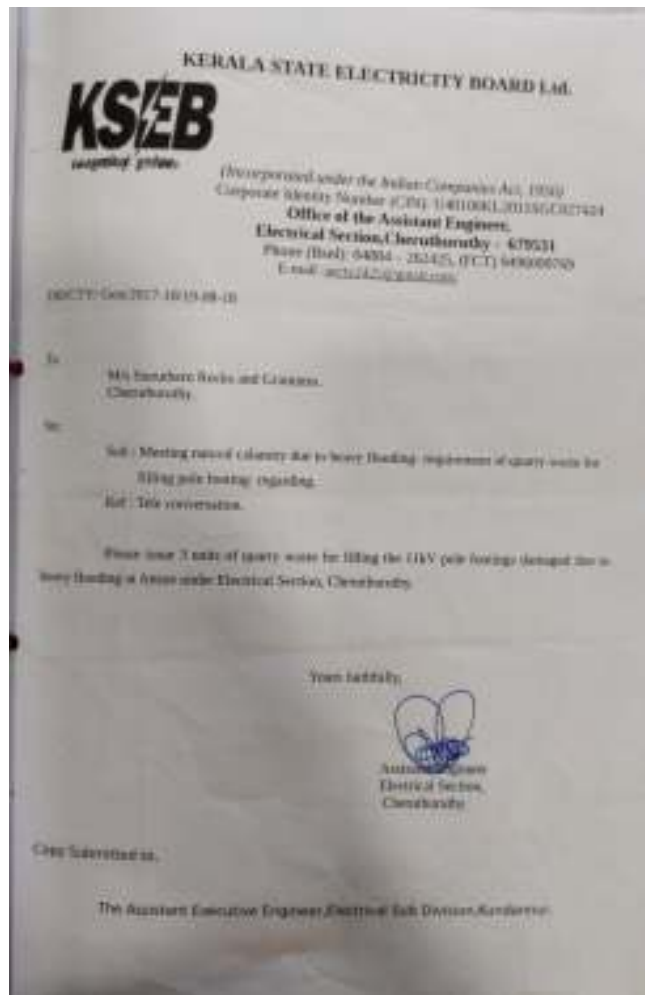
**(viii)** Corporate Social Responsibility (CSR) agree upon by the proponent should be implemented in tune with the conditions specified in the Companies Act, 2013.

As a Corporate Social Responsibility, management has initiated and taken up the following works towards social commitment:

1. Supply of waste 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/-
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 waste to Panjal Gramma Panchayat, Shoranur Police station to repair the damaged road due to floods.
8. Similarly, quarry waste 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.



## Compliance to EC Conditions - Contd.,





## Compliance to EC Conditions - Contd.,



## മാനസികാരോഗ്യ ആശുപത്രിയിൽ വൈദ്യുതി വാൻ

[illegible]


## Compliance to EC Conditions - Contd.,

[illegible]





## Compliance to EC Conditions - Contd.,




43




[illegible]

**ജൂനിയർ ഓഫീസർ സി.പി.**  
 കെ.എസ്.എസ്. ഓഫീസ്  
 ഗവണ്മെന്റ് ഗവൺമെന്റ്  
 നമ്പർ: 274957

  
 ഗവണ്മെന്റ് ഓഫീസ്, ചെറുപുഴ  
 Mob: 9447015302

തീയതി: 21/04/2018

ശ്രീ. ഗവണ്മെന്റ് ഓഫീസ്  
 9-ാം ഘട്ടത്തിൽ ചെറുപുഴ ജില്ലാ ഓഫീസ്  
 നവീകരണത്തിന് (ഭാഗം), കെ.-എസ്  
 1966 ജനന നമ്പർ 274957 ഓഫീസ്  
 ഓഫീസിൽ ഉൾപ്പെടുത്തിയ ഒരു ഓഫീസ്  
 നോട്ടീഫിക്കേഷൻ.



## Compliance to EC Conditions - Contd.,



Photograph showing the Distribution of Tab / TV for students during the pandemic situation to attend their online classes.

Distribution of food grains / groceries to the needy people at Panjal during the pandemic situation.

Renovation / repair of three houses through local panchayat for needy people by supplying the required materials.





## Compliance to EC Conditions - Contd.,

(ix) – Lease area shall be fenced off with barbed wire to a maximum height of 4 ft around, before starting the mines. Fencings all around the boundary of quarrying area has been provided.



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

As per the stipulations of Explosive Department the warning alarms is being given during the blasting time and it is ensured that no person shall enter the premises at this time.

(xi) - Control measure for noise and vibration prescribed by SPCB - Kerala should be implemented

All the necessary measures are implemented to control noise and vibration as per KSPCB guidelines



## Compliance to EC Conditions - Contd.,

**(xii)** - Quarrying activities should be implemented to day time as per KSPCB guidelines.

Quarrying activities are restricted to only day time as per the KSPCB Guidelines.

**(xiii)** - Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.

Controlled blasting is being followed / practiced as per regulation of explosive department under the supervision of competent persons. Blasting Time 10.0 AM to 10.30 AM & 1.00 PM to 1:30 PM

**(xiv)** - A licensed person should supervise/ control the blasting operations

Having one competence mines manger, second class manager, foreman and two mates.

**(xv)** - Access road to the quarry shall be tarred to contain dust emission that may arise during transportation of materials.

Access road has been tarred and maintained effectively. and also the avenue plantation has been carried out.





## Compliance to EC Conditions - Contd.,



Photographs showing the roads  
asphalted



## Compliance to EC Conditions - Contd.,

**(xvi)** - Overburden materials should be managed within the site and the old quarries, if any, should be reclaimed and restored

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.

**(xvii)**- Height of benches should not exceed 5m and width should not be less than 5 m.

Height of the benches are maintained such that it is not exceeding 5m similarly width of the benches are not less than 5 m.



**(xviii)** - Mats to reduce fly rocks blast to a maximum of 10 PPV should be provided.

Mats to reduce the fly rocks blast to a maximum of 10 PP has been provided.





## Compliance to EC Conditions - Contd.,

**(xix)** - Maximum depth of mining from general ground level at site shall not exceed 10 m.

**(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 amplification in addition to the provisions of green belt and hollow brick envelop for crushers to 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 equipments such as ear muffs, helmets, etc.

It is ensured that, the PPE are provided to all the workers on site

It is ensured that, no mining operations shall exceed below 10 m from the general ground level..

It is ensured that, no mining operations shall is carried out at a places having a slope greater than 45<sup>0</sup>

In the crushing units, entire activity is made in-house and Closed Conveyor System is practiced by constructed with hallow bricks wall and regular monitoring is being carried-out.



## Compliance to EC Conditions - Contd.,

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

In the crushing units, entire activity is made in-house and Closed Conveyor System is practiced by constructed with hollow bricks wall and regular monitoring is being carried-out.



(xxiv) – The transportation of minerals should be done in covered trucks to contain dust emissions

Transportation trucks carrying minerals is covered to contain dust emission

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

It is ensured that, it will be planted 5 times of the loss hat has been occurred while clearing.



## Compliance to EC Conditions - Contd.,

**(xxvi) – Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.**

Spent oil from diesel engines will be stored in the empty barrel and the same will be sold to the approved / authorized recycler / processors as per HMW Rules, 2016.

**(xxvii) – Explosives should be stored in a magazines in isolated place specified and approved by the Explosives Department.**

Explosives will be stored in a magazine at isolated places with a stipulated safety distance from quarry area, nearest dwelling and any other structure. It will be transported, handled and used in accordance with Indian Explosive Act 1884, MSIHC Rules 1989, Mines Act, 1952 and regulations there under.CAM

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

Minimum buffer distance of 100 m from the boundary area to the nearest dwelling unit or any other structures has been left.

**(xxix) – 200 m buffer distance should be maintained from forest boundaries.**

200 mts buffer distance has been maintained from the forest boundaries.



## Compliance to EC Conditions - Contd.,

**(xxx) – Consent from Kerala State Pollution Control Board under Water and Air Act (s) should have been obtained before initiating activity.**

Consent from Kerala State Pollution Control Board under water and Air Act has been obtained and renewed regularly.



**KERALA STATE POLLUTION CONTROL BOARD**

FILE NO. / PCB/2007/28607  
Date of issue 06/06/2017

**INTEGRATED CONSENT TO OPERATE - RENEWAL**

Consent No. / PCB/HQ/154/06/000047817  
Ref : Previous Consent No/PCB/HQ/154/06/000047817 dated 04.06.2016

The 'Integrated Consent to Operate' issued as per notification No. 144/2016, dated 04.06.2016, is hereby renewed for a period of 5 years from 04.06.2016 to 04.06.2021 and issued in the name of **CHILICUTTI BUILDINGS, THIRUVARUR** (779534) located in PO No 0003 and issued in the name of **CHILICUTTI BUILDINGS, THIRUVARUR** (779534) (779534) The consent is subject to the conditions stipulated therein and the following modifications:

**4. GENERAL**

S.No.	Name	Description
1	End Date of Consent renewal	31.05.2020

**H. Stack Details**

Stack No.	Source of Emission	Emission Rate/No./Hr	Stack Height (mtr)		Control Equipment
			Ground Level to Stack	Stack Level to Stack	

**III. CONDITIONS**

- The PM10 is not to exceed at the boundary shall not exceed 100 µg/m<sup>3</sup>.
- The PM2.5 is not to exceed at the boundary shall not exceed 50 µg/m<sup>3</sup>.
- The noise level (L<sub>eq</sub>) at 1m inside the boundary of the site should not exceed the ambient noise standard applicable to the adjoining areas.
- A designated pollution control officer at the boundary of the premises shall not permit the leak of effluents to the area as per the National Ambient Air Quality Standards.
- The consent issued from this date shall be valid only for a period when all other necessary documents

1. The applicant shall be a citizen of India.  
 2. The applicant shall be a resident of India.  
 3. The applicant shall be a Hindu, Muslim, Christian, Sikh, Jain, Buddhist, or any other religion.  
 4. The applicant shall be a person of sound mind and full age.  
 5. The applicant shall be a person who is not a member of any other religious community.  
 6. The applicant shall be a person who is not a member of any other caste or tribe.  
 7. The applicant shall be a person who is not a member of any other community.  
 8. The applicant shall be a person who is not a member of any other group.  
 9. The applicant shall be a person who is not a member of any other association.  
 10. The applicant shall be a person who is not a member of any other organization.  
 11. The applicant shall be a person who is not a member of any other society.  
 12. The applicant shall be a person who is not a member of any other club.  
 13. The applicant shall be a person who is not a member of any other union.  
 14. The applicant shall be a person who is not a member of any other association of persons.  
 15. The applicant shall be a person who is not a member of any other body corporate.  
 16. The applicant shall be a person who is not a member of any other institution.  
 17. The applicant shall be a person who is not a member of any other establishment.  
 18. The applicant shall be a person who is not a member of any other office.  
 19. The applicant shall be a person who is not a member of any other department.  
 20. The applicant shall be a person who is not a member of any other ministry.  
 21. The applicant shall be a person who is not a member of any other government.  
 22. The applicant shall be a person who is not a member of any other state.  
 23. The applicant shall be a person who is not a member of any other union territory.  
 24. The applicant shall be a person who is not a member of any other country.  
 25. The applicant shall be a person who is not a member of any other world.  
 26. The applicant shall be a person who is not a member of any other universe.  
 27. The applicant shall be a person who is not a member of any other multiverse.  
 28. The applicant shall be a person who is not a member of any other dimension.  
 29. The applicant shall be a person who is not a member of any other plane.  
 30. The applicant shall be a person who is not a member of any other space.  
 31. The applicant shall be a person who is not a member of any other time.  
 32. The applicant shall be a person who is not a member of any other matter.  
 33. The applicant shall be a person who is not a member of any other energy.  
 34. The applicant shall be a person who is not a member of any other force.  
 35. The applicant shall be a person who is not a member of any other power.  
 36. The applicant shall be a person who is not a member of any other influence.  
 37. The applicant shall be a person who is not a member of any other effect.  
 38. The applicant shall be a person who is not a member of any other result.  
 39. The applicant shall be a person who is not a member of any other consequence.  
 40. The applicant shall be a person who is not a member of any other outcome.  
 41. The applicant shall be a person who is not a member of any other end.  
 42. The applicant shall be a person who is not a member of any other purpose.  
 43. The applicant shall be a person who is not a member of any other aim.  
 44. The applicant shall be a person who is not a member of any other goal.  
 45. The applicant shall be a person who is not a member of any other objective.  
 46. The applicant shall be a person who is not a member of any other intention.  
 47. The applicant shall be a person who is not a member of any other purpose of life.  
 48. The applicant shall be a person who is not a member of any other mission.  
 49. The applicant shall be a person who is not a member of any other vision.  
 50. The applicant shall be a person who is not a member of any other dream.  
 51. The applicant shall be a person who is not a member of any other aspiration.  
 52. The applicant shall be a person who is not a member of any other ambition.  
 53. The applicant shall be a person who is not a member of any other desire.  
 54. The applicant shall be a person who is not a member of any other wish.  
 55. The applicant shall be a person who is not a member of any other want.  
 56. The applicant shall be a person who is not a member of any other need.  
 57. The applicant shall be a person who is not a member of any other requirement.  
 58. The applicant shall be a person who is not a member of any other demand.  
 59. The applicant shall be a person who is not a member of any other necessity.  
 60. The applicant shall be a person who is not a member of any other essential.  
 61. The applicant shall be a person who is not a member of any other indispensable.  
 62. The applicant shall be a person who is not a member of any other vital.  
 63. The applicant shall be a person who is not a member of any other crucial.  
 64. The applicant shall be a person who is not a member of any other important.  
 65. The applicant shall be a person who is not a member of any other significant.  
 66. The applicant shall be a person who is not a member of any other major.  
 67. The applicant shall be a person who is not a member of any other primary.  
 68. The applicant shall be a person who is not a member of any other basic.  
 69. The applicant shall be a person who is not a member of any other fundamental.  
 70. The applicant shall be a person who is not a member of any other elementary.  
 71. The applicant shall be a person who is not a member of any other simple.  
 72. The applicant shall be a person who is not a member of any other plain.  
 73. The applicant shall be a person who is not a member of any other common.  
 74. The applicant shall be a person who is not a member of any other ordinary.  
 75. The applicant shall be a person who is not a member of any other usual.  
 76. The applicant shall be a person who is not a member of any other normal.  
 77. The applicant shall be a person who is not a member of any other typical.  
 78. The applicant shall be a person who is not a member of any other average.  
 79. The applicant shall be a person who is not a member of any other standard.  
 80. The applicant shall be a person who is not a member of any other norm.  
 81. The applicant shall be a person who is not a member of any other rule.  
 82. The applicant shall be a person who is not a member of any other law.  
 83. The applicant shall be a person who is not a member of any other principle.  
 84. The applicant shall be a person who is not a member of any other doctrine.  
 85. The applicant shall be a person who is not a member of any other theory.  
 86. The applicant shall be a person who is not a member of any other system.  
 87. The applicant shall be a person who is not a member of any other method.  
 88. The applicant shall be a person who is not a member of any other technique.  
 89. The applicant shall be a person who is not a member of any other process.  
 90. The applicant shall be a person who is not a member of any other procedure.  
 91. The applicant shall be a person who is not a member of any other protocol.  
 92. The applicant shall be a person who is not a member of any other regulation.  
 93. The applicant shall be a person who is not a member of any other ordinance.  
 94. The applicant shall be a person who is not a member of any other decree.  
 95. The applicant shall be a person who is not a member of any other edict.  
 96. The applicant shall be a person who is not a member of any other command.  
 97. The applicant shall be a person who is not a member of any other order.  
 98. The applicant shall be a person who is not a member of any other instruction.  
 99. The applicant shall be a person who is not a member of any other direction.  
 100. The applicant shall be a person who is not a member of any other guidance.  
 101. The applicant shall be a person who is not a member of any other advice.  
 102. The applicant shall be a person who is not a member of any other counsel.  
 103. The applicant shall be a person who is not a member of any other opinion.  
 104. The applicant shall be a person who is not a member of any other view.  
 105. The applicant shall be a person who is not a member of any other belief.  
 106. The applicant shall be a person who is not a member of any other faith.  
 107. The applicant shall be a person who is not a member of any other religion.  
 108. The applicant shall be a person who is not a member of any other belief system.  
 109. The applicant shall be a person who is not a member of any other ideology.  
 110. The applicant shall be a person who is not a member of any other philosophy.  
 111. The applicant shall be a person who is not a member of any other worldview.  
 112. The applicant shall be a person who is not a member of any other cosmology.  
 113. The applicant shall be a person who is not a member of any other metaphysics.  
 114. The applicant shall be a person who is not a member of any other ontology.  
 115. The applicant shall be a person who is not a member of any other epistemology.  
 116. The applicant shall be a person who is not a member of any other axiology.  
 117. The applicant shall be a person who is not a member of any other ethics.  
 118. The applicant shall be a person who is not a member of any other moral philosophy.  
 119. The applicant shall be a person who is not a member of any other political philosophy.  
 120. The applicant shall be a person who is not a member of any other social philosophy.  
 121. The applicant shall be a person who is not a member of any other economic philosophy.  
 122. The applicant shall be a person who is not a member of any other legal philosophy.  
 123. The applicant shall be a person who is not a member of any other environmental philosophy.  
 124. The applicant shall be a person who is not a member of any other aesthetic philosophy.  
 125. The applicant shall be a person who is not a member of any other art philosophy.  
 126. The applicant shall be a person who is not a member of any other literary philosophy.  
 127. The applicant shall be a person who is not a member of any other musical philosophy.  
 128. The applicant shall be a person who is not a member of any other dance philosophy.  
 129. The applicant shall be a person who is not a member of any other film philosophy.  
 130. The applicant shall be a person who is not a member of any other television philosophy.  
 131. The applicant shall be a person who is not a member of any other radio philosophy.  
 132. The applicant shall be a person who is not a member of any other internet philosophy.  
 133. The applicant shall be a person who is not a member of any other computer philosophy.  
 134. The applicant shall be a person who is not a member of any other mobile phone philosophy.  
 135. The applicant shall be a person who is not a member of any other social media philosophy.  
 136. The applicant shall be a person who is not a member of any other video game philosophy.  
 137. The applicant shall be a person who is not a member of any other sports philosophy.  
 138. The applicant shall be a person who is not a member of any other entertainment philosophy.  
 139. The applicant shall be a person who is not a member of any other leisure philosophy.  
 140. The applicant shall be a person who is not a member of any other hobby philosophy.  
 141. The applicant shall be a person who is not a member of any other pastime philosophy.  
 142. The applicant shall be a person who is not a member of any other recreation philosophy.  
 143. The applicant shall be a person who is not a member of any other amusement philosophy.  
 144. The applicant shall be a person who is not a member of any other enjoyment philosophy.  
 145. The applicant shall be a person who is not a member of any other pleasure philosophy.  
 146. The applicant shall be a person who is not a member of any other satisfaction philosophy.  
 147. The applicant shall be a person who is not a member of any other fulfillment philosophy.  
 148. The applicant shall be a person who is not a member of any other happiness philosophy.  
 149. The applicant shall be a person who is not a member of any other joy philosophy.  
 150. The applicant shall be a person who is not a member of any other bliss philosophy.  
 151. The applicant shall be a person who is not a member of any other ecstasy philosophy.  
 152. The applicant shall be a person who is not a member of any other euphoria philosophy.  
 153. The applicant shall be a person who is not a member of any other elation philosophy.  
 154. The applicant shall be a person who is not a member of any other exhilaration philosophy.  
 155. The applicant shall be a person who is not a member of any other excitement philosophy.  
 156. The applicant shall be a person who is not a member of any other thrill philosophy.  
 157. The applicant shall be a person who is not a member of any other adrenaline philosophy.  
 158. The applicant shall be a person who is not a member of any other rush philosophy.  
 159. The applicant shall be a person who is not a member of any other buzz philosophy.  
 160. The applicant shall be a person who is not a member of any other high philosophy.  
 161. The applicant shall be a person who is not a member of any other kick philosophy.  
 162. The applicant shall be a person who is not a member of any other pep philosophy.  
 163. The applicant shall be a person who is not a member of any other pump philosophy.  
 164. The applicant shall be a person who is not a member of any other goad philosophy.  
 165. The applicant shall be a person who is not a member of any other prod philosophy.  
 166. The applicant shall be a person who is



## Compliance to EC Conditions - Contd.,

(xxxi) – All other statutory clearance should have been obtained, as applicable, by project proponent from the respective competent authorities including that for blasting and storage of explosives.

All the statutory clearances / permissions which are applicable are obtained eg. Explosive license, Consent form KSPCB and etc.,

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

No changes in the scope of the project hence the same is not applicable.

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

NOT APPLICABLE





## Compliance to EC Conditions - Contd.,

**(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 and Air (Prevention and Control of Pollution) Act 1981, the Environment (protection) Act 1986, the Public liability (Insurance) Act 1991 and EIA Notification, 2006.

The stipulations laid down by the Statutory Authorities under different Acts and notifications is being complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974 and 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 shall be in 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](http://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 should be forwarded to the office of this Authority as confirmation.



It has been published in two local news paper namely : English version in HINDU and Malayalam version in MALAYALA MANORAMA



## Compliance to EC Conditions - Contd.,

**(xxxvi)** – The 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, are received while processing the proposal. The Clearance letter shall also be put on the website of the company by the proponent.

The copy of the clearance letter has been submitted 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, are received while processing the proposal. The Clearance letter 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.

Half yearly compliance report is being submitted to Regional office of MoEF & CC, Government of India and also to the Director of Environment and Climate Change,

Government of Kerala.



## Compliance to EC Conditions - Contd.,

(xxxviii) – The conditions 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.

The conditions of Environment Clearance has been displayed in a metallic board at entrance of the quarry area.

**SOUTHERN ROCK & AGGREGATE MINING COMPANY**

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

Sl No	License	Number	Issue Date	Validity
1	Environmental Clearance	No.285/2014/0,1/02/2014	4/5/2014	20 Years
2	Mining Lease Area (D.R. Order)	No.230/2014-15/1794/93/2015	1/7/2015	12 Years
3	GST	31RCUP7124SL/25	7/1/2017	
4	Pollution Control Board			
1 Quarry		No.PCB/DO/15A/14/100/804/2017	6/6/2017	3 years
2 Crusher		No.PCB/DO/15A/14/100/804/2018	6/12/2018	3 Years
5	Explosive License	No.150/RL/22/867/84147	1/28/2015	5 Years
6	Prochapt License	CS-C3/146/2019/2019-30-114	4/9/2019	3 Years
7	Feasibility Compounded	No.1806/M/2018	3/23/2019	Every Year
8	Person Manager	PROVINCE AGGREGATE		



(xxxix) – The proponent should provide notarized affidavit (including the number and date of environmental clearance proceedings) that all conditions stipulated in the EC shall be scrupulously followed.

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



# Amount spent towards CER / CSR activities.

SOUTHERN ROCK & AGGREGATES MINING COMPANY		
Below table shows the CSR / CER amount spent		
Year	2017-18	Amount in INR
1	Donation to Kidney Federation	50,000.00
2	Distribution of school kit to students at Government schools	40,000.00
3	Contribution towards road repairs through panchayath.	100,000.00
4	Donations to the Orphanages & Patients - Tribel group	85,000.00
5	Onam Kit Distribution	50,000.00
6	Supply of aggregates for construction to the needy peoples nearby	100,000.00
7	Contribution towards renovation / repair of Church / Masjid / Temple and local festivals	150,000.00
Total		575,000.00

Year	2019-20	Amount in INR
1	Electric Van Donated to Mental Hospital Thrissur	200,000.00
2	Distribution of school kit to students at Government schools	50,000.00
3	Contribution towards road repairs through panchayath.	180,000.00
4	Contribution towards renovation / repair of Church / Masjid / Temple and local festivals	325,000.00
5	Supply of aggregates for construction to the needy peoples nearby	225,000.00
6	Donations to the Orphanages & Patients Tribels group	50,000.00
7	supply of food grains to the needy people in nearby villages	50,000.00
Total		1,080,000.00

SOUTHERN ROCK & AGGREGATES MINING COMPANY		
Below table shows the CSR / CER amount spent		
Year	2018-19	Amount in INR
1	CM Disaster Relief Fund during Floods	300,000.00
2	Distribution of school kit to students at Government schools	50,000.00
3	Contribution towards road repairs through panchayath.	150,000.00
4	Donations to the Orphanages & Patients - Deshmangalam.	88,000.00
5	Onam Kit Distribution	80,000.00
6	Supply of aggregates for construction to the needy peoples nearby	125,000.00
7	Contribution towards renovation / repair of Church / Masjid / Temple and local festivals	250,000.00
Total		1,043,000.00

Year	2020-21	Amount in INR
1	Tv / Tab Donation for school children during pandemic situation	75,000.00
2	Towards Coats / matteress for setting up first line Covid centre at Thrissur & COVID PPE's	200,000.00
3	Contribution towards road repairs through panchayath.	200,000.00
4	Contribution towards renovation / repair of Church / Masjid / Temple and local festivals	200,000.00
5	Supply of aggregates for construction to the needy peoples nearby	150,000.00
6	Donations to the Orphanages & Patients - Deshmangalam	30,000.00
7	Contribution towards Renovation / Repair of three houses at Valathol Nagar	200,000.00
Total		1,055,000.00

Grand Total being the amount the sum of Rs. Thirty Seven Lakh Fifty Thirty Thousand only.	3,753,000.00
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## Photographs of CER / CSR



Photographs showing mattresses supplied for setting up the first line covid centre at Thrissur



## Photographs of CER / CSR

**Photographs  
showing the  
peoples of  
Southern  
Rocks engaged  
in the Flood  
relief /  
evacuation  
activities**

[illegible][View Translation](#)

## Photographs of CER / CSR

**Photographs  
showing the  
supply of food  
from Southern  
Rocks during  
the Flood**



## Proposed CER activities

As a part of Corporate Environment Responsibility, the Project proponent has proposed to initiate certain socio-economic activities in the surrounding villages which are given in below **Table**

Sr. No	Description	Amount in INR	Remarks
1.	Medical checkup camps nearby villages Cheruthuruthy, Painkulam, Killimangalam	75,000/-	yearly
2.	Distribution of school bag, umbrella, text and note books for the school children	75,000/-	yearly
3.	Contribution to construction of houses for poor / needy people at least 3 – 5 people @ Rs. 50,000/- each	2,50,000/-	yearly
4.	Contribution for marriages to poor / needy people at least 6 people @ Rs. 25,000/- each	1,50,000/-	yearly
5.	Contribution for local cultural and festivals	1,50,000/-	yearly
6.	Distribution of ration through panchayat to the needy people during Onam / Ramzan / Christmas festival at least 50 families @ Rs. 500/- per family each festival	25,000/-	yearly
7.	Repair and maintenance of road / construction of Bus shelter	2,50,000/-	--
8.	Financial/Machineries support for differently abeled peoples for manufacturing of paper bags.	2,50,000/-	One time
	<b>Total</b>	<b>12,25,000/-</b>	<b>--</b>



Additionally, 1% of the annual profit shall be given to the concerned Panchayath for Biodiversity Management Committee towards eco-restoration.

## Conclusion

*This is to bring to the knowledge of the SEAC that we have been operating the quarry following all the EC conditions and abiding with the concerned rules, regulations and laws.*

*in view of the above, we humbly request the Hon'ble SEAC to consider our request and extend the validity of the Environment clearance.*

**THANK YOU**

