November 2023

Executive Summary for Conducting Public Hearing

FOR

"M/s. Sumuka Blue Metals & M. Sand Rough Stone Quarry over a total extent of 3.00.0 Ha"

At

S.F.No. 288 (Part) of Venkatesapuram Village, Shoolagiri Taluk, Krishnagiri District, Tamilnadu State

Project Proponent:

M/s. Sumuka Blue Metals & M. Sand,
Proprietor V. Nagaraja,
Athimugam Village,
Shoolagiri Taluk,
Krishnagiri District – 635 105

Project termed under schedule 1(a) Category B_1

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EXECUTIVE SUMMARY

1. Project Background:

The Existing project is in Government Poramboke Land having total extent area of 3.00.0 Ha, located at S.F.No. 288 (Part) of Venkatesapuram Village of Shoolagiri Taluk, Krishnagiri District and Tamil Nadu. The category of project is B1, it is an existing rough stone quarry in Venkatesapuram village. The area is situated on hilly terrain sloping towards the Southeast covered with Rough Stone which does not sustain any type of vegetation.

The quarry operation is proposed to carry out with conventional open cast mechanized mining with a 5.0-meter vertical bench with a bench width of 5.0 meter. The Quarry operation involves shallow jack hammer drilling, slurry blasting, loading and transportation.

The quarry operation is proposed up to depth for 59.0m – 2.0 m Topsoil + 57.0 m Rough Stone Above Ground Level Height is 20 m and Below Ground Level Depth 39 m. The Total Geological resources is about 5,98,299 m^3 of Rough Stone and 3,496 m^3 of Topsoil. The Mineable Reserves is about 2,53,413 m^3 of Rough Stone and 2,964 m^3 of Topsoil. The year wise production/recoverable reserves of rough stone for 5 years is about 2,53,413 m^3 of Rough stone and 2,964 m^3 of Topsoil. Total proposed period of mining is five years.

The Mining Plan was approved by the Deputy Director, Department of Geology & Mining, Krishnagiri vide letter Rc. No. 233/2019/Mines dated 10.09.2019. The project area does not fall in Hill Area Conservation Authority region. There is no interstate boundary, CRZ zone, Western Ghats, notified Bird sanctuaries as per Wildlife protection Act 1972, within the radius of 15 km. Cauvery North Wildlife Sanctuary is located at a distance of 23.90 km, S, Cauvery South Wildlife Sanctuary is located at a distance of 49.96 km, S and Koundinya Wildlife Sanctuary is located at distance of 47.75 km, E from the project site.

2. Nature & Size of the Project

The Rough Stone Quarry over an extent of 3.00.0 Hectares land is located at Venkatesapuram Village of Shoolagiri Taluk, Krishnagiri District.

Mineral intends to quarry : Rough stone.
District : Krishnagiri
Taluk : Shoolagiri
Village : Venkatesapuram
S. F. Nos. : 288 (Part)
Extent : 3.00.0 Hectares

Table 1: Brief Description of the Project

S. No	Particulars	Details
1	Latitude	12° 45' 10.63" N to 12° 45' 15.31" N
2	Longitude	77° 57' 32.71" E to 77° 57' 39.47" E
3	Site Elevation above MSL	862 m above MSL
4	Topography	Hilly terrain
5	Land use of the site	Government Poramboke land
6	Extent of lease area	3.00.0 Ha
7	Nearest highway	NH-44/AH-45: Dharmapuri to Bengaluru Road – 8.20 Km – S MDR 456/SH 17C: Berigai – KGF Road – 5.93 Km – N MDR 422 : Berigai – Shoolagiri Road – 1.62 km - E
8	Nearest railway station	Hosur Railway Station – 15.26 Km - W
9	Nearest airport	Kempagowda International Airport – 55.72 Km - NW
10	Nearest town / city	Town - Hosur – 13.42 Km - W City - Hosur – 13.42 Km - W District - Krishnagiri – 35.50 Km – SE
11	Rivers / Canal / Dam	• Ponnaiyar River – 6.41 Km – SW • Kelavarapalli Dam – 9.40 km, W
12	Lake	• Bukkasagaram Lake – 3.55 Km – SW • Doripalli Lake – 4.83 km – S • Koladasapuram Lake – 5.76 km – W • Thummanapalli Lake – 5.94 km – SW

		• Berikai Lake – 6.16 km – N • Gangapuram Lake – 6.73 km – SW • A. Kothur Lake – 7.03 km – SW • Subbagiri Lake – 7.08 km – S • Kamandoddi New Lake – 7.38 km – SW • Kamandoddi Lake – 8.18 km – S • Old Lake – 9.51 km - S
13	Hills / valleys	Nil in 15 km radius
14	Archaeologically places	Nil in 15 km radius
15	National parks / Wildlife Sanctuaries	• Cauvery North Wildlife Sanctuary – 23.90 km, S • Cauvery South Wildlife Sanctuary – 49.96 km, S • Koundinya Wildlife Sanctuary – 47.75 km, E
16	Reserved / Protected Forests	• Punnagaram RF – 100 m – S • Marandapalli RF – 5.73 km – SE • Settipalli RF – 5.82 km – SE • Perandapalli RF – 6.50 km – SW • Sanamavu RF – 12.58 km - SW
17	Seismicity	Proposed Lease area come under Seismic zone-II (low risk area)
18	Defense Installations	Nil in 15 Km radius

3. Need for the Project

- ❖ The mining activities as proposed are the backbone of all construction and infrastructure projects as the raw material for construction is available only from such mining. The Rough stone extracted will be transported to be Stone crusher of district Krishnagiri.
- ❖ The raw Rough stone as well as the crushed material of stone is in high demand in real estate, construction projects as well as in building construction projects.
- ❖ Rough stone is quarried for producing crusher aggregates to the nearby building contractors, road contractors and nearby villagers.
- ❖ After quarrying the entire reserves mined out, the area will be used as water reservoir to have an artificial recharge to the nearby wells.

- No damage to the land is caused, no reclamation or back filling is required.

Figure 1: Location Map of the Project Site

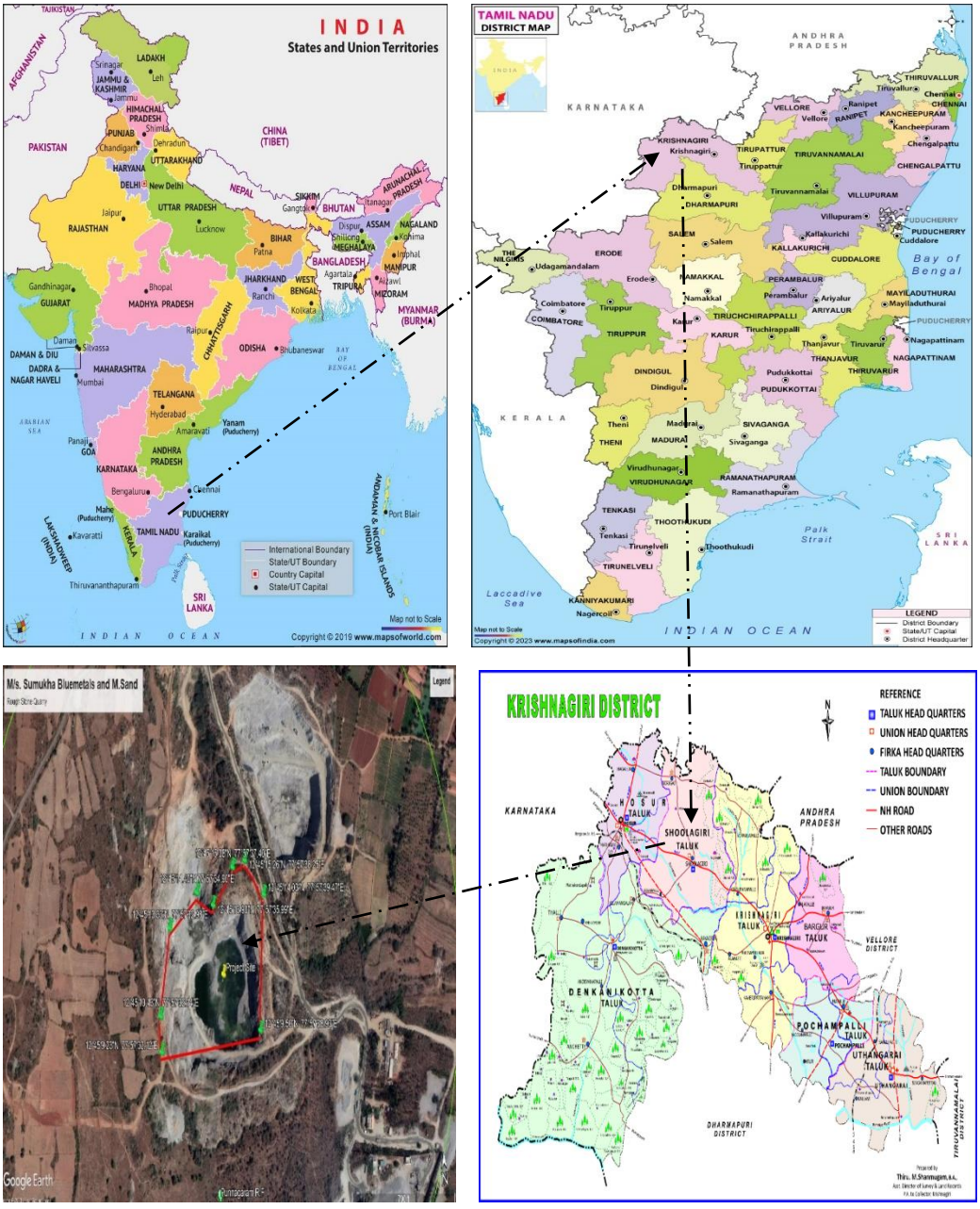

Figure 2: Google Image of the Project Site

4. Charnockite

Charnockite and granitic gneisses are extensively quarried as rough stone which is used as aggregates for construction of building, laying of roads and for preparation of value added products like hollow blocks, pillar stones, M-sand etc. Charnockite occurs as massive bodies, greyish colour, medium to coarse grained, composed quartz, feldspar and orthopyroxene. At places, metamorphic gneissic banding (alternate dark and black colour) in charnockite is noticed. Top portion, it gives gneissic appearance but 1-5m depth below it is typical charnockite of grey colour.

5. Geological resources

The geological resources have been calculated based on the cross-section method.

Table 2. Geological resources

GEOLOGICAL RESERVES								
Section	Bench	L (m)	W (m)	D (m)	Volume In M3	Roughstone Reserves in m3 @ 95%	Mine waste in m3 @ 5%	Top Soil in m3
XY-EF	I	46	38	2				3496
	III	15	23	5	1725	1639	86	
	IV	18	39	5	3510	3335	175	
	V	55	39	5	10725	10189	536	
	VI	59	39	5	11505	10930	575	
	VII	65	40	5	13000	12350	650	
	VIII	71	41	5	14555	13827	728	
	IX	77	41	5	15785	14996	789	
	X	83	42	5	17430	16559	871	
	XI	103	66	5	33990	32291	1699	
	XII	103	66	5	33990	32291	1699	
TOTAL					**156215**	**148407**	**7808**	**3496**
X1Y1-AB	III	24	19	5	2280	2166	114	
	IV	31	25	5	3875	3681	194	
	V	37	29	5	5365	5097	268	
	VI	43	33	5	7095	6740	355	
	VII	47	36	55	8460	8037	423	
	VIII	51	40	5	10200	9690	510	
	IX	53	44	5	11660	11077	583	
	X	61	47	5	14335	13618	717	
	XI	61	68	5	20740	19703	1037	
	XII	61	68	5	20740	19703	1037	
TOTAL					**104750**	**99512**	**5238**	
X1Y1-CD	X	35	1	5	175	166	9	
	XI	72	74	5	26640	25308	1332	
	XII	72	74	5	26640	25308	1332	
TOTAL					**53455**	**50782**	**2673**	
X1Y1-EF	III	9	1	5	45	43	2	

	IV	10	1	5	50	48	2	
	V	10	1	5	50	48	2	
	VI	11	1	5	55	52	3	
	VII	11	1	5	55	52	3	
	VIII	12	1	5	60	57	3	
	IX	14	1	5	70	67	3	
	X	15	1	5	75	71	4	
	XI	65	50	5	16250	15438	812	
	XII	65	50	5	16250	15438	812	
TOTAL					**32960**	**31314**	**1646**	
X2Y2-AB	II	24	1	5	120	114	6	
	III	35	1	5	175	166	9	
	IV	43	31	5	6665	6332	333	
	V	50	69	5	17250	16388	862	
	VI	58	69	5	20010	19010	1000	
	VII	65	69	5	22425	21304	1121	
	VIII	70	69	5	24150	22943	1207	
	IX	74	69	5	25530	24254	1276	
	X	77	69	5	26565	25237	1328	
	XI	77	69	5	26565	25237	1328	
	XII	77	69	5	26565	25237	1328	
TOTAL					**196020**	**186222**	**9798**	
X2Y2-CD	X	11	16	5	880	836	44	
	XI	70	66	5	23100	21945	1155	
	XII	70	66	5	23100	21945	1155	
TOTAL					**47080**	**44726**	**2354**	
X2Y2-EF	V	4	1	5	20	19	1	
	VI	6	1	5	30	29	1	
	VII	7	1	5	35	33	2	
	VIII	9	1	5	45	43	2	
	IX	10	1	5	50	48	2	
	X	12	22	5	1320	1254	66	
	XI	60	63	5	18900	17955	945	
	XII	60	63	5	18900	17955	945	
TOTAL					**39300**	**37336**	**1964**	

GRAND TOTAL	**629780**	**598299**	**31481**	**3496**

Table 3. Mineable Reserves

MINEABLE RESERVES								
Section	Bench	L (m)	W (m)	D (m)	Volume In M3	Mineable Roughstone Reserves in m3 @ 95%	Mine waste in m3 @ 5%	Top Soil in m3
XY-EF	I	39	38	2				2964
	III	15	23	5	1725	1639	86	
	IV	18	39	5	3510	3335	175	
	V	34	31	5	5270	5007	263	
	VI	28	27	5	3780	3591	189	
	VII	24	22	5	2640	2508	132	
	VIII	20	18	5	1800	1710	90	
	IX	16	14	5	1120	1064	56	
	X	12	9	5	540	513	27	
	XI	22	28	5	3080	2926	154	
	XII	12	23	5	1380	1311	69	
TOTAL					**24845**	**23604**	**1241**	**2964**
X1Y1-AB	III	24	19	5	2280	2166	114	
	IV	31	25	5	3875	3681	194	
	V	30	29	5	4350	4133	217	
	VI	30	33	5	4950	4703	247	
	VII	29	36	5	5220	4959	261	
	VIII	28	40	5	5600	5320	280	
	IX	25	44	5	5500	5225	275	
	X	28	47	5	6580	6251	329	
	XI	23	56	5	6440	6118	322	
	XII	18	51	5	4590	4361	229	
TOTAL					**49385**	**46917**	**2468**	
X1Y1-CD	X	35	1	5	175	166	9	
	XI	72	66	5	23760	22572	1188	
	XII	72	61	5	21960	20862	1098	
TOTAL					**45895**	**43600**	**2295**	

X1Y1-EF	XI	48	50	5	12000	11400	600	
	XII	43	50	5	10750	10213	537	
TOTAL					**22750**	**21613**	**1137**	
X2Y2-AB	II	24	1	5	120	114	6	
	III	35	1	5	175	166	9	
	IV	43	21	5	4515	4289	226	
	V	42	54	5	11340	10773	567	
	VI	45	49	5	11025	10474	551	
	VII	47	44	5	10340	9823	517	
	VIII	47	39	5	9165	8707	458	
	IX	46	34	5	7820	7429	391	
	X	44	29	5	6380	6061	319	
	XI	39	24	5	4680	4446	234	
	XII	34	19	5	3230	3069	161	
TOTAL					**68790**	**65351**	**3439**	
X2Y2-CD	X	11	6	5	330	314	16	
	XI	70	51	5	17850	16958	892	
	XII	70	46	5	16100	15295	805	
TOTAL					**34280**	**32567**	**1713**	
X2Y2-EF	X	1	12	3	36	34	2	
	XI	48	48	5	11520	10944	576	
	XII	43	43	5	9245	8783	462	
TOTAL					**20801**	**19761**	**1040**	
GRAND TOTAL					**266746**	**253413**	**13333**	**2964**

Table 4. Year wise Production Plan

YEARWISE DEVELOPMENT AND PRODUCTION RESERVES								
Section	Bench	L (m)	W (m)	D (m)	Volume In M3	Mineable Roughstone Reserves in m3 @ 95%	Mine waste in m3 @ 5%	Top Soil in m3
XY-EF	I	39	38	2				2964
	III	15	23	5	1725	1639	86	
	IV	18	39	5	3510	3335	175	
	V	34	31	5	5270	5007	263	

	VI	28	27	5	3780	3591	189	
	VII	24	22	5	2640	2508	132	
	VIII	20	18	5	1800	1710	90	
	IX	16	14	5	1120	1064	56	
	X	12	9	5	540	513	27	
	XI	22	28	5	3080	2926	154	
	XII	12	23	5	1380	1311	69	
TOTAL					**24845**	**23604**	**1241**	**2964**
X1Y1-AB	III	24	19	5	2280	2166	114	
	IV	31	25	5	3875	3681	194	
	V	30	29	5	4350	4133	217	
	VI	30	33	5	4950	4703	247	
	VII	29	36	5	5220	4959	261	
	VIII	28	40	5	5600	5320	280	
	IX	25	44	5	5500	5225	275	
	X	28	47	5	6580	6251	329	
	XI	23	56	5	6440	6118	322	
	XII	18	51	5	4590	4361	229	
TOTAL					**49385**	**46917**	**2468**	
X1Y1-CD	X	35	1	5	175	166	9	
	XI	72	66	5	23760	22572	1188	
	XII	72	61	5	21960	20862	1098	
TOTAL					**45895**	**43600**	**2295**	
X1Y1-EF	XI	48	50	5	12000	11400	600	
	XII	43	50	5	10750	10213	537	
TOTAL					**22750**	**21613**	**1137**	
X2Y2-AB	II	24	1	5	120	114	6	
	III	35	1	5	175	166	9	
	IV	43	21	5	4515	4289	226	
	V	42	54	5	11340	10773	567	
	VI	45	49	5	11025	10474	551	
	VII	47	44	5	10340	9823	517	
	VIII	47	39	5	9165	8707	458	
	IX	46	34	5	7820	7429	391	
	X	44	29	5	6380	6061	319	

	XI	39	24	5	4680	4446	234	
	XII	34	19	5	3230	3069	161	
TOTAL					**68790**	**65351**	**3439**	
X2Y2-CD	X	11	6	5	330	314	16	
	XI	70	51	5	17850	16958	892	
	XII	70	46	5	16100	15295	805	
TOTAL					**34280**	**32567**	**1713**	
X2Y2-EF	X	1	12	3	36	34	2	
	XI	48	48	5	11520	10944	576	
	XII	43	43	5	9245	8783	462	
TOTAL					**20801**	**19761**	**1040**	
GRAND TOTAL					**266746**	**253413**	**13333**	**2964**

6. Mining

Opencast mining

The quarry operation is proposed to carry out with conventional open cast mechanized mining with 5.0-meter vertical bench with a bench width of 5.0 meter. The Quarry operation involves shallow jack hammer drilling, blasting, loading and transportation.

Process Description

- The reserves and resource are arrived based upon the Geological investigation.
- Removal of Topsoil by Excavators and directly Loaded into Tippers.
- Removal of Rough Stone by Excavators by Drilling and Blasting.
- Shallow Drilling With Jackhammer of 25.5mm Dia.
- Minimum Blasting With Class 3 Explosives.
- Loading of Rough Stone By Excavators Into Tippers.

7. Water Requirement

Total water requirement for the mining project is 2.0 KLD. Domestic water will be sourced from nearby Athimugam Village and other water will be source from nearby road tankers supply.

Table 5. Water Balance

Purpose	Quantity	Source
Drinking Water	1.0 KLD	Packaged Drinking water vendors available in Athimugam which is about 1.60 km - E from project area
Green belt	0.5 KLD	Other domestic activities through road tankers supply
Dust suppression	0.5 KLD	From road tankers supply
Total	**2.0 KLD**	

8. Manpower

Total manpower required for the project is approximately 18 persons. Workers will be from nearby villages.

Table 6. Man Power

1.	Skilled	Operator	2 No.
		Mechanic	1 No.
		Blaster/Mat	1 No.
2.	Semi – skilled	Driver	2 Nos
3.	Unskilled	Musdoor / Labors	5 Nos
		Cleaners	3 Nos
		Office Boy	1No
4.	Management & Supervisory staff		3 Nos
	Total		**18 Nos**

9. Solid Waste Management

Table 7 Solid Waste Management

S. No	Type	Quantity	Disposal Method
1	Organic	3.24 kg/day	Municipal bin including food waste
2	Inorganic	4.86 kg/day	TNPCB authorized recyclers

As per CPCB guidelines: MSW per capita/day =0.45 kg/day

Table 8. 500m Radius Cluster Mine

1) Details of Existing quarries:

S. No.	Name of the Lessee	Village & Taluk	Mineral	S.F. No	Extent in Ha	GO No. & Date	Lease Period
1.	Thiru. N. Muniraj, Thrichipalli Village, Thorapalli Post, Hosur Taluk, Krishnagiri Dist.	Venkatesapuram Village & Shoolagiri Taluk	Rough stone	285 (Part)	4.92.0	Roc. 123/2008/Mines/Dt 2.7.2018	04.07.2018 to 03.07.2023
2.	Thiru. V. Nagaraja, S/o. Venkatappa Reddy, Koppa Village, Hulimangala (Post), Anekal Taluk, Bangalore District	Venkatesapuram village & Shoolagiri Taluk	Rough stone	287/1	2.16.0	Roc. 478/2018/ Mines Dated: 19.02.2021	19.02.2021 to 18.02.2031

3	M/s. Sumukha Blue Metals, Propo: V. Nagaraj Reddy, Athimugam Village, Shoolagiri Taluk, Krishnagiri District	Venkatesapuram Village & Shoolagiri Taluk	Rough Stone	294 (Part 2)	3.75.0	Roc. No. 216/2018/Mines dated 30.04.2021	30.04.2021 to 29.04.2021

2) Details of abandoned/Old Quarries:

S. No.	Name of the lessee	Village	S.F. No	Extent in Ha	GO No. & Date	Lease period
1.	……..Nil……..					

3) Details of Proposed Quarries

S. No.	Name of the lessee	Village & Taluk	Mineral	S.F. No	Extent	GO No. & Date	Lease period
1.	M/s. Sumukha Blue Metals & M. Sand, Pro. V. Nagaraja, Athimugam Village, Shoolagiri Taluk, Krishnagiri District	Venkatesapuram Village & Shoolagiri Taluk	Rough Stone	288 (Part)	3.00.0	Roc.233/2019/Mines Dt. 13.06.2019	Precise Area given Instant Proposal

The Total extent of the Existing / Lease expired / Proposed quarries are 13.83.0 Ha.

10. Land Requirement

The total extent area of the project is 3.00.00 Ha, Government Poramboke land in Venkatesapuram Village of Shoolagiri Taluk, Krishnagiri District.

Table 9 Land Use Breakup

S. No.	Land Use	Present Area (Hect)	Area in use during the quarrying period (Hect)
1.	Area under quarrying	2.00.0	2.91.0
2.	Infrastructure	Nil	0.01.0
3.	Roads	0.01.0	0.01.0
4.	Green Belt	Nil	0.07.0
5.	Unutilized Area	0.99.0	Nil
	Total	**3.00.0**	**3.00.0**

11. Human Settlement

There are no habitations within 300m radius. There are villages located in this area within a 5km radius of the quarry.

Table 10 Habitation

SL. NO.	DIRECTION	VILLAGE	POPULATION	DISTANCE
1	North East	Mensandoddi	200	0.43
2	East	Athimugam	900	1.45
3	South East	Punnagaram	120	1.71
4	South West	Bukkasagaram	800	3.78
5	West	Gollapalli	150	2.34
6	North West	Venkatesapuram	250	2.52

12. Power Requirement

The Rough Stone Quarry project does not require huge water and electricity for the project.

16 Litres diesel per hour for excavator for mining and loading for Rough stone needed.

13. Scope of the Baseline Study

This chapter contains information on existing environmental scenario on the following parameters.

1. Micro – Meteorology

2. Water Environment
3. Air Environment
4. Noise Environment
5. Soil / Land Environment
6. Biological Environment
7. Socio-economic Environment

13.1 Micro – Meteorology

Meteorology plays a vital role in affecting the dispersion of pollutants, once discharged into the atmosphere. Since meteorological factors show wide fluctuations with time, meaningful interpretation can be drawn only from long-term reliable data.

i) Average Minimum Temperature : 18˚C

ii) Average Maximum Temperature : 3 8 ˚C

iii) Average Annual Rainfall of the area: 968 mm

13.2 Air Environment

Ambient air monitoring was carried out on a monthly basis in the surrounding areas of the Mine Lease area to assess the ambient air quality at the source. To know the ambient air quality at a larger distance i.e., in the study area of 10 km. radius, air quality survey has been conducted at 5 locations. Major air pollutants like Particulate Matter (PM_{10}), Sulphur Dioxide (SO_2), Nitrogen Dioxide (NO_2) were monitored, and the results are summarized below.

The baseline levels of PM10 (65-33 µg/m³), PM2.5 (31-13 µg/m³), SO2 (23-5 µg/m³), NO2 (44-9 µg/m³), all the parameters are well within the standards prescribed by National Ambient Air Quality during the study period from June 2023 to August 2023.

13.3 Noise Environment

The maximum Day noise and Night noise were found to be 64 dB(A) and 55 dB(A) respectively in Government Higher Secondary School, Bukkasagaram. The minimum Day Noise and Night noise were 39 dB(A) and 33 dB(A) respectively which was observed in Project Site and St. Paul School, Mahadevapuram. The observed values are all well within the Standards prescribed by CPCB.

13.4 Water Environment

- The average pH ranges from 7.56 – 8.2.
- TDS value varied from 516 mg/l to 785 mg/l
- Hardness varied from 266 mg/l to 476 mg/l
- Chloride varied from 78.3 mg/l to 163 mg/l

13.5 Land Environment

The analysis results shows that the majority of soil in the project and surrounding area is slightly alkaline in nature and pH value ranges from 6.98 to 8.56 with organic matter 0.08 to 1.33%. The concentration of Nitrogen, Phosphorus & Potassium has been found to be in good amount in the soil samples.

13.6 Biological Environment

The proposed Mining lease area is mostly dry barren ground with small shrubs and bushes. No specific endangered flora & fauna exist within the mining lease area.

14. Rehabilitation/ Resettlement

- The overall land of the mine is Government Poramboke land. There is no displacement of the population within the project area and adjacent nearby area. Social development of nearby villages will be considered in this project.
- The mine area does not cover any habitation. Hence the mining activity does not involve any displacement of human settlement.

15. Greenbelt Development

1. The development of greenbelt in the peripheral buffer zone of the mine area.
2. The Green belt has been recommended as one of the major components of the Environmental Management Plan, which will improve ecology, environment and quality of the surrounding area.
3. Local trees like Neem, Pungam, Naval etc will be planted along the lease boundary and avenues as well as over non-active dumps at a rate of 300 trees per annum with interval 5m.
4. The rate of survival expected to be 80% in this area

Table.11 Plantation/ Afforestation Program

Name of species proposed	Survival	No of species

Neem, Pungam, Poovarasu, Naval, Mantharai, Arasa Maram, Magizham, Vilvam, vaagai, Marudha maram, Thandri, Poovarasu, Manjadi, Usil, Aathi, Panai, Uzha, Illuppai, Eachai, Vanni Maram, Sengondrai, Sarakondrai, Aacha. Aayili	80%	1500
Total		**1500**

16. Anticipated Environmental Impacts

16.1 Air Environment and Mitigation Measures

1. Water sprinkling will be done on the roads & unpaved roads.
2. Proper mitigation measures like water sprinkling will be adopted to control dust emissions.
3. Plantation will be carried out on approach roads, solid waste site & nearby mine premises.
4. To control the emissions regular preventive maintenance of equipments will be carried out.

16.2 Noise Environment and Mitigation Measures

1. Periodical monitoring of ambient noise will be done as per CPCB guidelines.
2. No other equipment except the transportation vehicles and excavator for loading will be allowed.
3. Noise generated by these equipments shall be intermittent and does not cause much adverse impact

17. Responsibilities for Environmental Management Cell (EMC)

The responsibilities of the EMC include the following:

i. Environmental Monitoring of the surrounding area

ii. Developing the green belt/Plantation

iii. Ensuring minimal use of water

iv. Proper implementation of pollution control measures

18. Environmental Monitoring Program

A monitoring schedule with respect to Ambient Air Quality, Water & Wastewater Quality, Noise Quality as per Tamil Nadu State Pollution Control Board (TNPCB), shall be maintained.

19. Project Cost

The total project cost is **Rs. 2,34,00,000/-** for deployment of machinery and creation of infrastructural facilities like approach road, mine office / Workers Shed, First Aid Room etc., including electrifications and water supply.

Table 12 Project Cost details

S. No.	Description	Cost
1	Fixed Asset Cost	Rs. 2,14,00,000/-
2	Operational Cost	Rs. 20,00,000/-
	Total	**Rs. 2,34,00,000/-**

Environmental Management Plan Cost is about **Rs.1,14,53,913/-** for 5 years.

20. Corporate Environmental Responsibility

The Corporate Environment Responsibility (CER) fund will be provided to the below activity.

S.No.	CER Activity	CER value (Rs)
1.	(i) Panchayat Union Primary School, Mensandoddi Village, Shoolagiri Union, Krishnagiri District (ii) Government High School, Venkatesapuram, Shoolagiri Taluk, Krishnagiri District Providing facilities are: ➢ Painting the School Campus ➢ Micset, See-Saw, Swing for Playground ➢ Levelling the Playground ➢ Formation of Barrier Guard Safety metal mess fencing work for 100 meters	5,00,000/-

	➢ R.O Water Facility ➢ Planting trees in and around the periphery of the school campus – 50 No's. ➢ Environmental Science & General Knowledge Books ➢ Smart Classroom facility ➢ Hygienic Toilet facility and maintenance upto lease period	
Total		**5,00,000/-**

Table 13 CER Cost

21. Benefits of the Project

- There is a positive impact on socioeconomics of people living in the villages. Mining operations in the subject area has positive impact by providing direct and indirect jobs opportunities.
- The project is environmentally compatible, financially viable and would be in the interest of the construction industry thereby indirectly benefiting the masses.
- Quarrying in this area is not going to have any negative impact on the social or cultural life of the villagers in the near vicinity.