August 2023

Executive Summary

Tvl. Sri Vinayaka Enterprises Rough Stone Quarry - 2.85.0 Ha

For

PUBLIC HEARING

At

S.F Nos : 136 (Part 8) of Venkateshapuram Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu

PROJECT PROPONENT

Tvl.Sri Vinayaka Enterprises,
Beggili Village
Venkateshapuram
Schoolagiri Taluk,
Krishnagiri District – 635 117

EIA Notification 2006 Schedule 1(a) Category B1 (Cluster)

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EXECUTIVE SUMMARY

1. Project Background:

The existing Rough Stone Quarry is over an extent of 2.85.0 Ha. It is a Government Poramboke land in S.F.No. 136 (Part 8) of Venkateshapuram Village, Shoolagiri Taluk, and Krishnagiri District. The category of project is B1, It is a Rough stone quarry in Venkateshapuram village. The area is situated on hilly terrain area sloping towards eastern side covered with Rough Stone which does not sustain any type of vegetation.

The quarry operation is proposed to carry out with conventional open cast semi mechanized mining with 5.0 meter vertical bench and 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 of 56 m (24 m above ground level (AGL) and 32 m below ground level (BGL) including the existing depth of 14.36 m). The total Geological Resources is about 11,43,748 m^3 of Rough stone. The Mineable Reserves is estimated at 4,35,474 m^3 of Rough Stone to be mined for (Sixty months) Five years only. The Precise Area Communication Letter received from District Collector Office, Department of Geology and Mining, Krishnagiri District vide letter Rc.No.1263/2018/Mines, dated 13.11.2018. The Mining Plan was approved by The Deputy Director, Geology & Mining, Krishnagiri vide letter Rc.No.1263/2018/Mines, dated 06.02.2019.

The project area does not fall in Hill Area Conservation Authority region. There is no interstate boundary, CRZ zone, Western Ghats, notified Bird sanctuaries, wild life sanctuaries as per Wild life protection Act 1972, within the radius of 15Km.

2. NATURE & SIZE OF THE PROJECT

The existing Rough Stone Quarry over an extent of 2.85.0 Hectares land is located at Venkateshapuram Village, Shoolagiri Taluk, Krishnagiri District.

Mineral intends to quarry	: Rough stone Quarry
District	: Krishnagiri
Taluk	: Shoolagiri
Village	: Venkateshapuram
S. F. Nos.	: 136 (Part 8)
Extent	: 2.85.0 Hectares

Table 1: Brief Description of the Project

S. No	Particulars	Details
1	Latitude	Latitude : 120 44' 44.08" N to 120 44' 37.76" N
2	Longitude	Longitude : 770 56' 31.57" E to 770 56' 28.62" E
3	Site Elevation above MSL	840 m from MSL
4	Topography	Hilly terrain topography
5	Land use of the site	Government Poramboke Land
6	Extent of lease area	2.85.0 Ha
7	Nearest highway	NH 44 – Bengaluru – Chennai- 6.68 km, S SH 17C – Bagalur – Berikai Road – 6.92 km, N
8	Nearest railway station	Hosur Railway Station – 13.17 km, WSW
9	Nearest airport	Kempegowda International Airport – 56.26 km, NW
10	Nearest town / city	Town – Shoolagiri - 11.57 km, SE City – Hosur - 13.44 km, WSW District - Krishnagiri - 38.56 km, SE
11	Rivers / Canal	• Ponnaiyar River, 4.43km, W
12	Lake	❖ Bukkasagaram Lake, 2.43km, S ❖ Muthali Lake, 4.42km, NW ❖ Peddakullu Lake, 4.77km, WNW ❖ Kamandoddi New Lake, 5.95km, SSW ❖ Kamandoddi Lake- 6.69 km SE ❖ Kamandoddi Old Lake, 6.85km, SSW ❖ Kumudapalli Lake, 7.49km, WSW ❖ Konerapalli Lake, 7.60km, SSE ❖ Ieyland Lake, 7.71km, WSW ❖ Kelavarapelli Reservoir, 7.78km, NW ❖ Chappadi Lake, 8.48km, SSE ❖ Tippalam Lake, 8.70km, WSW ❖ Alasantham Lake - 10.05 km SW ❖ Basthi Lake- 10.93 km W ❖ Vasanth Nagar Lake - 11.18 km SW ❖ Chinnar Reservior - 13.02 km SE ❖ Shanthapuram Lake - 13.14 km NW ❖ Chandramkudi Eri- 13.34 km W ❖ Bedarapalli Lake- 14.49 km NW
13	Hills / valleys	❖ Brahmma Hills – 11.80 km SW
14	Archaeologically places	❖ Shoolagiri Fort – 12.09 km SE
15	National parks / Wildlife Sanctuaries	Nil in 15 km radius

16	Reserved / Protected Forests	❖ Athimugam RF – 0.18 km SE ❖ Ramasandiram RF – 2.56 km SW ❖ Miditepalli RF – 2.96 km N ❖ Sanamavu R.F. – 3.42 km SW ❖ Berikai Extension R.F. - 4.07 km NE ❖ Settipalli R.F.- 5.70 km SE
17	Seismicity	Mine Lease area comes under Seismic zone-III

2. NEED FOR THE PROJECT

- ❖ Rough stone is quarried for producing crusher aggregates to the nearby building contractors, road contractors and nearby villagers.
- ❖ After the entire reserves mined out, the area will be used as water reservoir to have an artificial recharge to the nearby wells.
- ❖ The rough stone is hard and compact in nature. It can be crushed only in crushers for producing aggregates.
- ❖ As the mining continues, no reclamation or back filling is required.

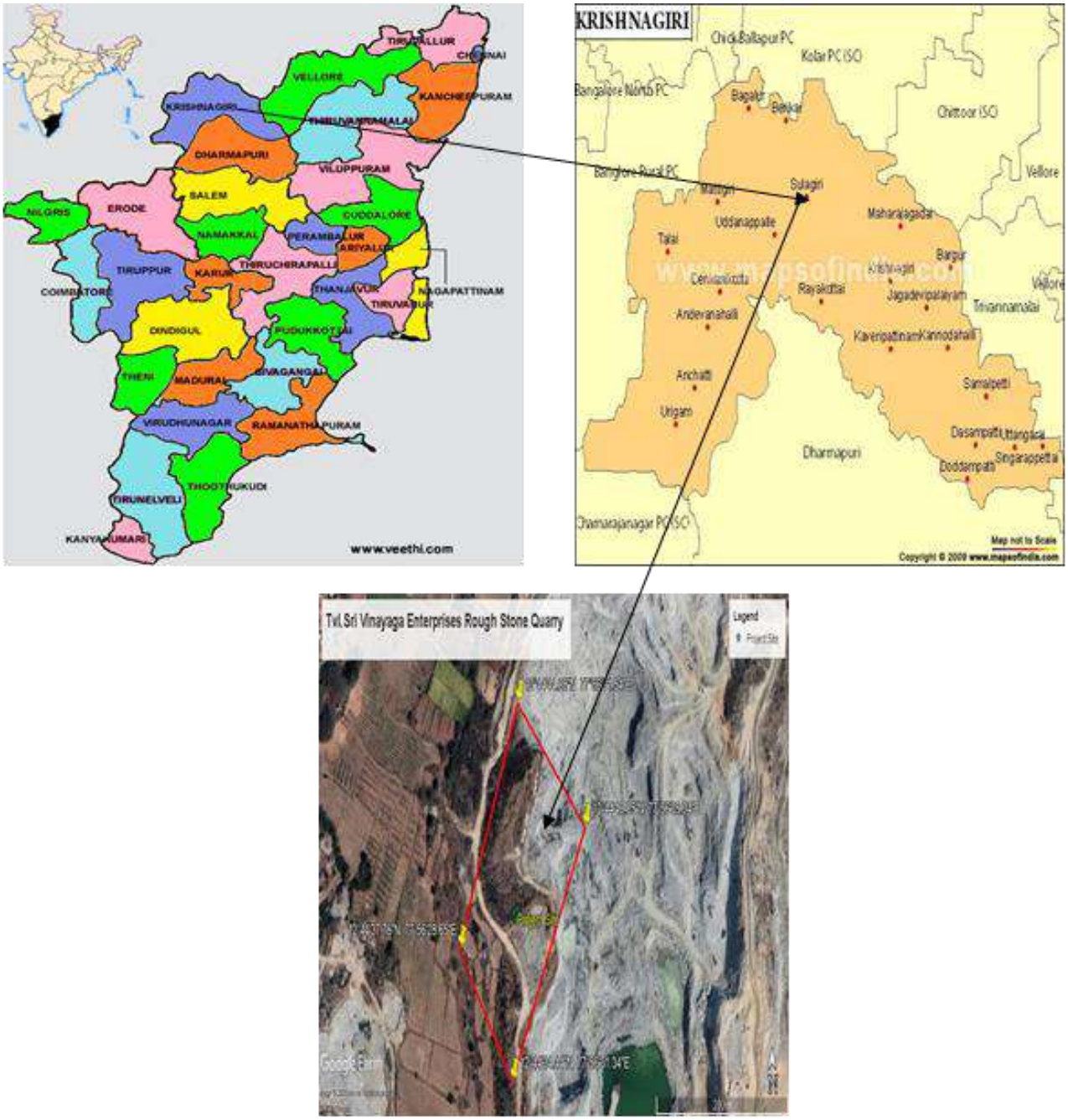

Figure 1: Location Map of the Project Site

Figure 2: Google Image of the Project Site

4. CHARNOCKITE

Generally, the Charnockite is grey to greenish colored, coarse to medium grained, greasy nature with or without garnet. Because of the limited outcrops, the quarry sections are studied to infer the various interrelationships between the litho units. Charnockite is interbanded nature with crystalline carbonate rocks are observed in most of the quarry in Pandalgudi, Lakshmipuram, Gopalapuram, Sundakottai chinnakamanpatti, Weathering of the Charnockite on the surface gives a deceptive look of gneiss and in the quarry sections at depth the fresh charnockite is exposed, which are well exemplified in almost all the Charnockite quarry sections.

5. GEOLOGICAL RESOURCES

Table 2. Geological resources

Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Volume In M^3	Geological Reserves in m^3 @ 95%	Mine waste in m^3 @ 5%	Top Soil in m^3
XY-AB	I	1	38	1				38
	III	1	39	3	117	111	6	
	IV	1	41	5	205	195	10	
	V	1	45	5	225	214	11	
	VI	86	135	5	58050	55148	2902	
	VII	86	135	5	58050	55148	2902	
	VIII	86	135	5	58050	55148	2902	
	IX	86	135	5	58050	55148	2902	
	X	86	135	5	58050	55148	2902	
	XI	86	135	5	58050	55148	2902	
	XII	86	135	5	58050	55148	2902	
TOTAL					**406897**	**386556**	**20341**	**38**
XY-CD	I	25	99	1				2475
	II	35	18	2	1260	1197	63	
	III	35	85	5	14875	14131	744	
	IV	49	100	5	24500	23275	1225	
	V	53	130	5	34450	32728	1722	
	VI	53	130	5	34450	32728	1722	
	VII	53	130	5	34450	32728	1722	
	VIII	53	130	5	34450	32728	1722	
	IX	53	130	5	34450	32728	1722	
	X	53	130	5	34450	32728	1722	
	XI	53	130	5	34450	32728	1722	
	XII	53	130	5	34450	32728	1722	
TOTAL					**316235**	**300427**	**15808**	**2475**
XY-EF	I	47	70	1				3290
	II	57	73	5	20805	19765	1040	
	III	68	76	5	25840	24548	1292	
	IV	81	80	5	32400	30780	1620	
	V	81	124	5	50220	47709	2511	
	VI	81	124	5	50220	47709	2511	
	VII	81	124	5	50220	47709	2511	
	VIII	81	124	5	50220	47709	2511	
	IX	81	124	5	50220	47709	2511	
	X	81	124	5	50220	47709	2511	
	XI	81	124	5	50220	47709	2511	
	XII	81	124	5	50220	47709	2511	

TOTAL	**480805**	**456765**	**24040**	**3290**
GRAND TOTAL	**1203937**	**1143748**	**60189**	**5803**

Table 3. Mineable Resources

Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Volume In M3	Mineable Reserves in m3 @ 95%	Mine waste in m3 @ 5%	Top Soil in m3
XY-AB	I	1	28	1				28
	III	1	28	3	84	80	4	
	IV	1	25	5	125	119	6	
	V	1	24	5	120	114	6	
	VI	76	99	5	37620	35739	1881	
	VII	71	89	5	31595	30015	1580	
	VIII	66	79	5	26070	24767	1303	
	IX	61	69	5	21045	19993	1052	
	X	56	59	5	16520	15694	826	
	XI	51	49	5	12495	11870	625	
	XII	46	39	5	8970	8522	448	
TOTAL					**154644**	**146913**	**7731**	**28**
XY-CD	I	1	89	1				89
	III	35	74	5	12950	12303	647	
	IV	49	84	5	20580	19551	1029	
	V	53	99	5	26235	24923	1312	
	VI	53	89	5	23585	22406	1179	
	VII	53	79	5	20935	19888	1047	
	VIII	53	69	5	18285	17371	914	
	IX	53	59	5	15635	14853	782	
	X	53	49	5	12985	12336	649	
	XI	53	39	5	10335	9818	517	
	XII	53	29	5	7685	7301	384	
TOTAL					**169210**	**160750**	**8460**	**89**
XY-EF	I	36	60	1				2160
	II	45	62	5	13950	13253	697	
	III	51	60	5	15300	14535	765	
	IV	59	59	5	17405	16535	870	
	V	54	88	5	23760	22572	1188	
	VI	49	78	5	19110	18155	955	
	VII	44	68	5	14960	14212	748	
	VIII	39	58	5	11310	10745	565	
	IX	34	48	5	8160	7752	408	

	X	29	38	5	5510	5235	275	
	XI	24	28	5	3360	3192	168	
	XII	19	18	5	1710	1625	85	
TOTAL					**134535**	**127811**	**6724**	**2160**
GRAND TOTAL					**458389**	**435474**	**22915**	**2277**

Table 4. Year wise Production Plan

YEAR	Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Volume In M3	Reserves in m3 @ 95%	Mine waste in m3 @ 5%	Top Soil in m3
I YEAR	XY-AB	I	1	28	1				28
		III	1	28	3	84	80	4	
		IV	1	25	5	125	119	6	
		V	1	24	5	120	114	6	
		VI	76	99	5	37620	35739	1881	
	XY-CD	I	1	89	1				89
		III	35	74	5	12950	12303	647	
		IV	49	84	5	20580	19551	1029	
		V	53	99	5	26235	24923	1312	
		VI	53	89	5	23585	22406	1179	
	XY-EF	I	36	60	1				2160
		II	45	62	5	13950	13253	697	
		III	51	60	5	15300	14535	765	
		IV	59	59	5	17405	16535	870	
		V	54	88	5	23760	22572	1188	
		VI	49	78	5	19110	18155	955	
	TOTAL					**210824**	**200285**	**10539**	**2277**
II YEAR	XY-AB	VII	71	89	5	31595	30015	1580	
	XY-CD	VII	53	79	5	20935	19888	1047	
	XY-EF	VII	44	68	5	14960	14212	748	
	TOTAL					**67490**	**64115**	**3375**	
III YEAR	XY-AB	VIII	66	79	5	26070	24767	1303	
	XY-CD	VIII	53	69	5	18285	17371	914	
	XY-EF	VIII	39	58	5	11310	10745	565	
	TOTAL					**55665**	**52883**	**2782**	
IV YEAR	XY-AB	IX	61	69	5	21045	19993	1052	
		X	56	59	5	16520	15694	826	
	XY-CD	IX	53	59	5	15635	14853	782	
		X	53	49	5	12985	12336	649	
	XY-EF	IX	34	48	5	8160	7752	408	
		X	29	38	5	5510	5235	275	

	TOTAL					**79855**	**75863**	**3992**	
V YEAR	XY-AB	XI	51	49	5	12495	11870	625	
		XII	46	39	5	8970	8522	448	
	XY-CD	XI	53	39	5	10335	9818	517	
		XII	53	29	5	7685	7301	384	
	XY-EF	XI	24	28	5	3360	3192	168	
		XII	19	18	5	1710	1625	85	
	TOTAL					**44555**	**42328**	**2227**	
	GRAND TOTAL					**458389**	**435474**	**22915**	**2277**

The proposed rate of production of Rough stone is estimated as 435474 m^3 for next five (I-V) years.

6. MINING

Opencast mining

The quarry operation is proposed to carry out with conventional open cast semi mechanized mining with 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.

Process Description

- The reserves and resource are arrived based upon the Geological investigation
- Removal of Rough Stone by Excavators by Drilling and Blasting.
- Shallow Drilling With Jackhammer 25.5 mm Dia.
- Minimum Blasting With Class 3 Explosives.

7. Water Requirement

This Rough stone quarry project does not require huge water and electricity for the project.

Table 5. Water Balance

Purpose	**Quantity**	**Sources**
Drinking Water	1.0 KLD	Packaged Drinking water vendors available in Venkateshapuram Village which is about ≃ 1.50 km on NW side of the area.
Green belt	0.5KLD	Other domestic activities through road tankers supply
Dust suppression	1.0 KLD	From road tankers supply
Total	**2.5 KLD**	

8. Manpower

The nearby villagers will be getting employment benefits in the proposed working quarry.

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	1 No.
4.	Management & Supervisory Staff		3 No.
Total			**18 Nos**

9. Solid Waste Management

Table 7 Solid Waste Management

S. No	Type	Quantity	Disposal Method
1	Organic	3.2 kg/day	Municipal bin including food waste
2	Inorganic	4.9 kg/day	TNPCB authorized recyclers

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

Table 8. 500m Radius Cluster Mine

1) Existing other quarries:

S. No.	Name of the Owner	Village & Taluk	S.F.Nos.	Extent in Hect.	Lease Period
1.	Thiru Y. Jagadesh	Venkatesapuram Shoolagiri Taluk	136 (Part -7)	3.50.0	13.07.2018 to 12.07.2023
2.	Thiru. Manjunaika	Venkatesapuram Shoolagiri Taluk	136 (Part -3)	4.10.0	08.03.2019 to 07.03.2024

2) Details of abandoned /Old Quarries

S. No.	Name of the Owner	Village & Taluk	S.F.Nos.	Extent in Hect.	Lease Period

1.	Thiru. A.D. Mohan	Venkatesapuram	136 (Part -2)	4.00.0	RC No, 78/12 Mines dated 21.05.2012
2.	Thiru. V. Jayaprakash	Venkatesapuram Shoolagiri Taluk	136 (Part -4)	2.00.0	Roc. 73/2016/Mines
3.	Thiru T. Muniraj	Venkatesapuram Shoolagiri Taluk	136 (Part -5)	1.30.0	Roc. 74/2016/Mines
4.	Thiru N. Haries	Venkatesapuram Shoolagiri Taluk	136 (Part -6)	3.00.0	Roc. 75/2016/Mines
5.	Thiru V. Madesh	Venkatesapuram Shoolagiri Taluk	136 (Part -9)	3.00.0	Roc. 77/2016/Mines

3) Details of Present Proposed quarries

S. No.	**Name of the Owner**	**Village & Taluk**	**S.F.Nos.**	**Extent in Hect.**	**Lease Period**
1	Tvl. Sri Vinayaka Enterprises	Venkatesapuram Shoolagiri Taluk	136 (Part -8)	2.85.0	Precise area given Instant Proposal
2	Thiru S. Chinnanna	Venkatesapuram Shoolagiri Taluk	136 (Part -1)	2.80.0	Precise area given
3	Tvl. S V Blue Metals	Venkatesapuram Shoolagiri Taluk	136 P—12)	2.70.0	Precise area given
Details of other proposed /applied quarries					
	Nil	Nil	Nil	Nil	Nil

10. Land Requirement

The total extent area of the project is 2.85.0 Ha, Government Poramboke Land in Village of Venkateshapuram, Shoolagiri Taluk, and Krishnagiri District.

Table 9 Land Use Breakup

SL. NO.	**LAND USE**	**PRESENT AREA (Ha)**	**AREA IN USE DURING THE QUARRYING PERIOD (Ha)**
1.	Area under Quarrying	1.43.0	2.52.0
2.	Infrastructure	Nil	0.01.0

3.	Roads	0.01.0	0.01.0
4.	Green Belt & Dump	Nil	0.31.0
5.	Unutilized Area	1.41.0	Nil
	Total	**2.85.0**	**2.85.0**

11. Human Settlement

There are no habitations within 300m radius. There are villages located in this area within 15 km radius of the quarry.

Table 10 Habitation

SL. NO	DIRECTION	VILLAGE	POPULATION	DISTANCE
1	North	Venkateshapuram	550	1.6 Km
2	East	Doripalli	120	3.0 Km
3	South	Bukkasagaram	600	2.3 km
4	West	Dasapalle	350	3.8 km

12. Power Requirement

The Electricity for Mines office and Lights only at nights (working is restricted on day time only between 9 Am to 5 Pm). Diesel (HSD) will be used for quarrying machineries around **675308 litres of HSD** will be used for the entire project life. Diesel will be brought from nearby diesel pumps. No power is required for the project. Lightings on the Night time the power will be taken from nearby electric poles after obtaining permission from concerned authorities.

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 : 18º C

ii) Average Maximum Temperature. : 38°Celsius

iii) Average Annual Rainfall of the area: 800 mm-900 mm

13.2 Air Environment

Ambient air monitoring was carried out on 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 5 km. radius, air quality survey has been conducted at 5 locations. Major air pollutants like Particulate Matter (PM10), Sulphur Dioxide (SO_2), and Nitrogen Dioxide (NO_2) were monitored and the results are summarized below.

The baseline levels of PM_{10} (44- 64 µg/m^3), $PM_{2.5}$ (15- 31 µg/m^3), SO_2 (6-20 µg/m^3), NO_2 (14-37 µg/m^3), all the parameters are well within the standards prescribed by National Ambient Air Quality during the study period from April to June 2023.

13.3 Noise Environment

The maximum Day noise and Night noise were found to be 65 dB(A) and 55 dB(A) respectively in Government higher secondary school, Bukkasagaram. The minimum Day Noise and Night noise were 47 dB (A) and 35 dB(A) respectively which was observed in Sri kalabhairaveshwara Temple, Perumalapalli. The observed values are all well within the Standards prescribed by CPCB.

13.4 Water Environment

- The average pH ranges from 7.34 to 8.1
- TDS value varied from 505 mg/l to 1015 mg/l
- Hardness varied from 252 to 717 mg/l
- Chloride varied from 71.3 to 223 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 6.21 to 8.14 with organic matter 0.12 to 0.68 %. The

concentration of Nitrogen, Phosphorus & Potassium has been found to be in good amount in the soil samples.

13.6 Biological Environment

The existing 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 a Government Poramboke land. There is no hutment in the lease area. No human being will be displaced from the project area so no person will be affected contrary local people will get job opportunities and better facilities. There is no rehabilitation & resettlement of people is required.

15. Greenbelt Development

1. The development of greenbelt in the peripheral buffer zone of the mine area.
2. Green belt has been recommended as one of the major component of Environmental Management Plan, which will improve ecology, environment and quality of the surrounding area.
3. Local trees like Neem, Vilvam, Panai, etc will be planted along the lease boundary and avenues as well as over Non-active dumps at a rate of 1500 trees 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, Vilvam, Vaagai, Eachai, Naval, Mantharai, Magizha Maram, Vila Maram, Poo Marudhu, Panai, Marudha maram, Thandri, Sengondrai, Poovarasu, Thethankottai Maram, Pungam	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 1,45,02,000 /-** 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 (Rs.)
1	Fixed cost	1,15,02,000
2	Operational cost	30,00,000
	Total Cost	**1,45,02,000**

Table .13 EMP Cost

S.No.	Categories	Capital cost	Recurring cost
1	Air Environment	296000	183000
2	Noise Environment	40000	2199370
3	Water Environment	28500	5000
4	Waste Management	15000	7000
5	Implementation of EC, Mining plan & DGMS Condition	831500	109700
6	Green belt development	390000	45000
		1601000	**2549070**
	Total	**Rs. 41,50,070**	

Year 1	Year 2	Year 3	Year 4	Year 5
41,50,070	26,76,524	28,10,350	29,50,867	30,98,411

Total EMP Cost for 5 Years - Rs. 1,56,86,221/-

20. Corporate Environmental Responsibility

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

Table 14 CER Cost

S.No.	CER Activity	Cost (Rs)
1.	➢ Provision of Desks, Benches, Mic Set, Environmental awareness books in Library for Students, Green belt development, and Toilet rooms in PUP School, Beggili ➢ Provision of Xerox machine, Mic Set, Environmental awareness books in Library for Students, Green belt development, and Toilet rooms in PUP School, Menasanadodddi	5,00,000/-
Total		**5,00,000**

21. Benefits of the Project

- There is positive impact on socio-economics 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 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.