

December
2025

**Executive Summary for Conducting Public Hearing
FOR**

**“Thiru.T.Bharathan Rough Stone and Gravel Quarry
over a total extent of 4.31.0 Ha”**

At

**S.F.No. 98/1, 95/2, 80/2B & 95/1 of Eraiyur Village,
Vanur Taluk, Villupuram District, Tamilnadu State**

Project Proponent:

**Thiru.T.Bharathan,
S/o.Thambiraj,
No.11, 1/2 Thiruvakarai Main Road,
Nemili Village, Vanur Taluk,
Viluppuram District.**

Project termed under schedule 1(a) Category B₁

Prepared By:

Ecotech Labs Pvt. Ltd.



NABET Accredited EIA Consultant

**48, 2nd Main Road, Ram Nagar South Extension,
Pallikaranai, Chennai – 600100.**

EXECUTIVE SUMMARY

1. Project Background:

The Proposed project total extent area is 4.31.0 Ha, it is Patta land (Consent registered) S.F. No: 98/1, 95/2, 80/2B & 95/1 of Eraiyur Village, Vanur Taluk and Viluppuram District, TamilNadu State for a period of 10 years. The category of project is B1 Cluster, it is a Rough Stone and Gravel Quarry. The lease area exhibits plain terrain topography with very gentle slope towards north and covered thin layer of clayey black cotton soil followed by gravel, weathered rock formation and massive Charnockite rock formations. The massive rock formation is noticed / occurred at an average depth of 2.0 mts from the surface i.e. below topsoil and weathered rock formation.

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. Quarrying operation is carried out Splitting of rock mass of considerable volume from the parent rock mass by jackhammer drilling and blasting, hydraulic excavators are used for loading the Rough stone from pithead to needy Crusher. Occasionally hydraulic excavators are attached with rock breakers for fragmentation to avoid secondary blasting.

The quarry operation is proposed up to depth for 47.0m (2.0m Gravel & 45.0m Rough Stone) Below ground level for the proposed mining plan. The Total Geological reserve is about 5405276.25 Ts of Rough stone and 174716 Ts of Gravel. The Mineable Reserves are 2880528.75 Ts of Rough stone and 148572 Ts of Gravel for a period of 10 years. Production schedule is proposed production of 2880528.75 Ts of Rough stone and 148572 Ts of Gravel for the period of ten years only.

The precise area communication letter was received from Assistant Director, Department of Geology and Mining, Viluppuram District has passed an order vide R.c.No. A/G&M/51/2025, dated 04.08.2025 for lease period of 10 years and The Mining Plan was approved by the Assistant Director, Geology & Mining, , Viluppuram vide letter R.c.No. A/G&M/51/2025, dated 04.08.2025 for the period of 10 years. There is no CRZ zone, Western Ghats, notified Bird sanctuaries, wildlife sanctuaries as per Wildlife protection Act 1972, within the radius of 15Km. Oussudu Lake Bird Sanctuary located 15.43 kms, SE & Kazhuveli Wetland Bird Sanctuary located at 16.57 kms, E from the project site and National Petrified/Fossil Wood Park Thiruvakkarai located 5 kms, SE direction.

The project does not require huge amount of water for quarry operation and total water requirement is 1.72 KLD. (0.72 KLD) Drinking water use only Packaged drinking water is available from the nearby approved water vendors and (0.5 KLD) and (0.5 KLD) of water use only road tankers supply. Requirements will be arranged from nearby sources.

The project cost is about Rs. Rs. 85,05,000/- (Eighty-Five Lakhs and Five Thousand Rupees Only). EMP (Environmental Management Plan) Cost is about 8,57,10,003/- (Eight Crore Fifty Seven Lakh Ten Thousand and Three Rupees Only).

2. Nature & Size of the Project

The New Rough Stone and Gravel Quarry over an extent of 4.31.0 Hectares land is located at Eraiyur Village of Vanur Taluk, Villupuram District.

Mineral intends to quarry	:	Rough stone and Gravel
District	:	Villupuram
Taluk	:	Vanur
Village	:	Eraiyur
S. F. Nos.	:	98/1, 95/2, 80/2B & 95/1
Extent	:	4.31.0 Hectares

Table 1: Brief Description of the Project

S. No	Particulars	Details
1	Latitude	12°04'09.17"N to 12°04'20.02"N
2	Longitude	79°38'29.02"E to 79°38'37.20"E
3	Site Elevation above MSL	The altitude of the lease area is 78.0m above MSL.
4	Mining plan period	10 Years
5	Topography	Flat terrain
6	Land use of the site	Patta Land (Consent registered)
7	Extent of lease area	4.31.0 Ha
8	Nearest highway	MDR-808: Perumbakkam to Pidaripattu Road is about 1.52 Kms on East of the area SH-136 Mailam to Puducherry Road is about 1.44 Kms on N of the area
9	Nearest railway station	Mailam Railway Station – 10.86 km, NW Villupuram Junction – 21.08 km, SW

10	Nearest airport	Chennai International Airport – 117.16 km - NE
11	Nearest town / city	Town - Villupuram - 19.77 km - SW City - Villupuram - 19.77 km - SW District – Villupuram - 19.77 km - SW
12	Rivers / Canal / Dam	❖ Sankarabarani River – 4.70 kms, S ❖ Gingee River – 5.99 kms, W ❖ Tondi River – 8.44 kms, NW ❖ Varaga Nadhi – 8.51 kms, SW ❖ Chettipattu Small Dam – 5.21 kms, S ❖ Veedur Dam – 6.14 kms, W ❖ Sankarabarani Reservoir – 7.63 kms, SE ❖ Sengadu-Mathur Small dam (Pambe Water Reservoir) – 12.92 kms, SW
13	Lake/Pond	❖ Eraiyur Lake – 0.93 Kms, E ❖ Konamangalam Lake – 1.83 kms, NW ❖ Kanniyam Lake – 1.83 Kms, N ❖ Ambuzhukai Lake – 2.17 Kms, SE ❖ Nemili Lake – 2.18 Kms, S ❖ Veedur Lake – 2.28 Kms, SW ❖ Korakkeni Lake – 3.02 Kms, S ❖ Thaludhali Lake – 3.03 kms, N ❖ Ponnampundi Lake – 3.05 Kms, SW ❖ Thaludhali Kulam – 3.11 kms, N ❖ Kunnam Lake – 4.40 kms, NE ❖ Mailam Lake – 6.29 Kms, N ❖ Ezhaoli Lake – 7.20 Kms, W ❖ Thirukkanur Lake – 8.59 kms, S ❖ Mannadipet Pond – 8.75 kms, S ❖ Avudayarpattu Lake – 9.01 kms, W ❖ Katterikuppam Lake – 9.17 kms, SE ❖ Sompel Lake – 10.79 kms, S

		❖ Melakondai Pond – 11.36 kms, W ❖ Annamputhur Lake – 11.53 kms, N ❖ Kumalam Lake – 11.63 kms, S ❖ Mathur Lake – 11.76 kms, SW ❖ Omandur Lake – 11.91 kms, N ❖ Katrambakkam Lake – 12.15 kms, E ❖ Thoravi Lake – 12.97 kms, W ❖ Pulichapallam Lake – 13.11 kms, SE ❖ Budhur Lake – 13.32 kms, SW ❖ Nallavur Lake – 14.34 kms, NE ❖ Kodur Lake – 15.33 kms, E ❖ Oussudu Lake – 15.46 Kms, SE
14	Hills / valleys	❖ Nil in 15 km radius
15	Archaeologically places	❖ National Petrified/Fossil Wood Park, Thiruvakkarai – 5 kms, SE
16	National parks / Wildlife Sanctuaries	❖ Oussudu Lake Bird Sanctuary – 15.43 kms, SE ❖ Kazhuveli Wetland Bird Sanctuary – 16.57 kms, NEE
17	Reserved / Protected Forests	❖ Melkondai R.F – 10.66 Kms, W ❖ Kongarampoondi R.F – 10.73 kms, W
18	Seismicity	Proposed Lease area come under Seismic zone-III (Moderate risk area)

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 and gravel extracted will be transported to be Stone crusher of Villupuram District.
- ❖ 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 artificial recharge to the nearby wells.
- ❖ No damage to the land is caused, no reclamation or backfilling is required.

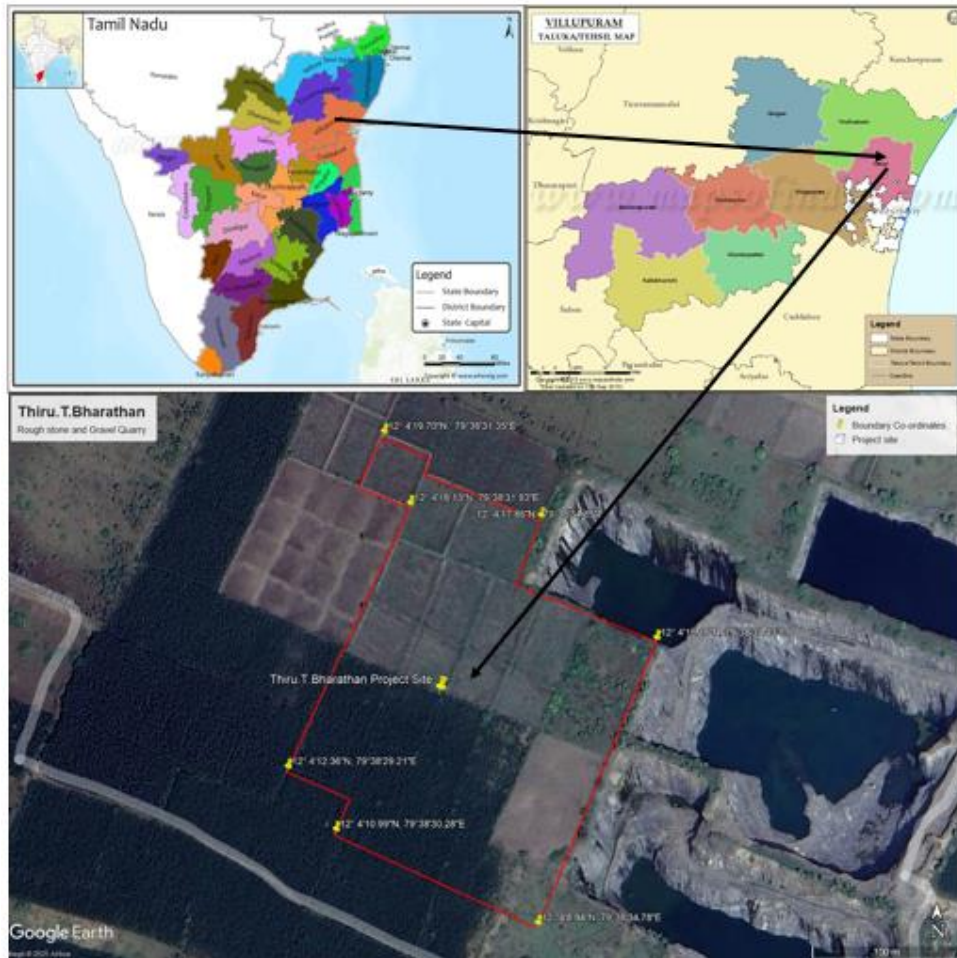


Figure 1: Location Map of the Project Site

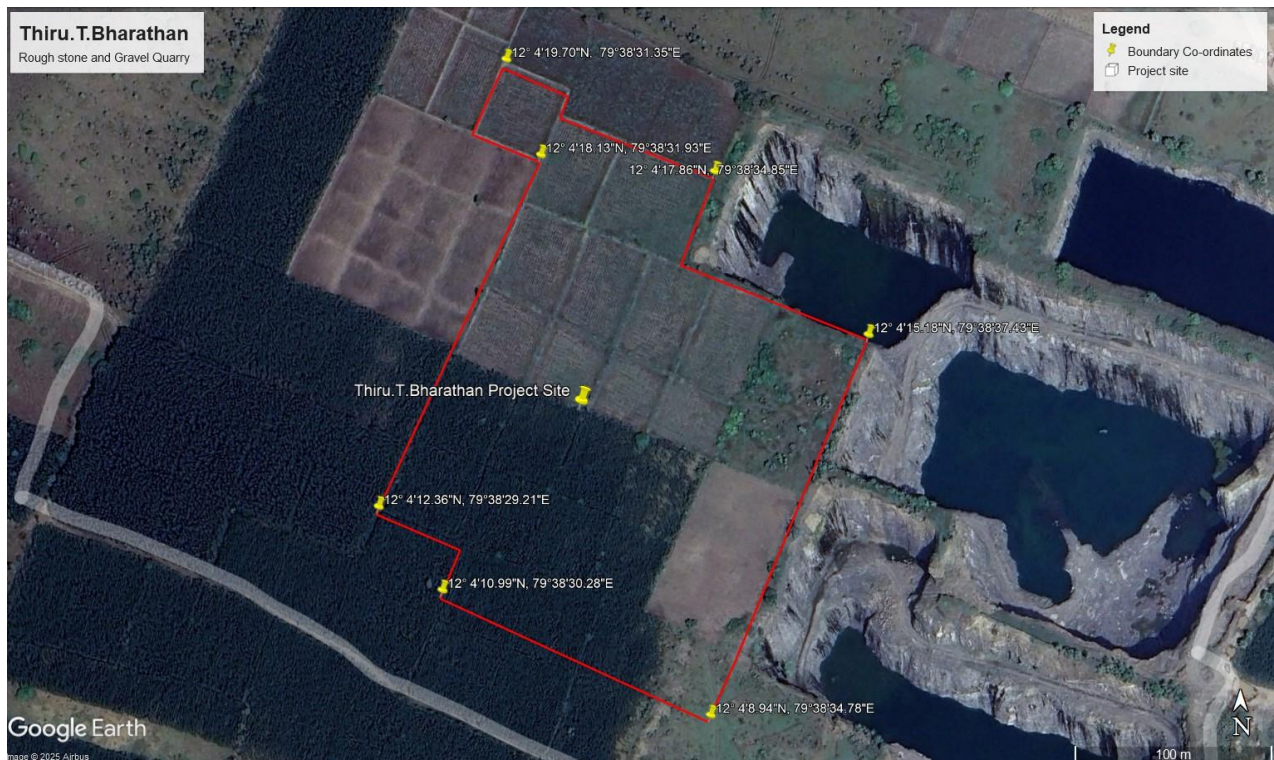
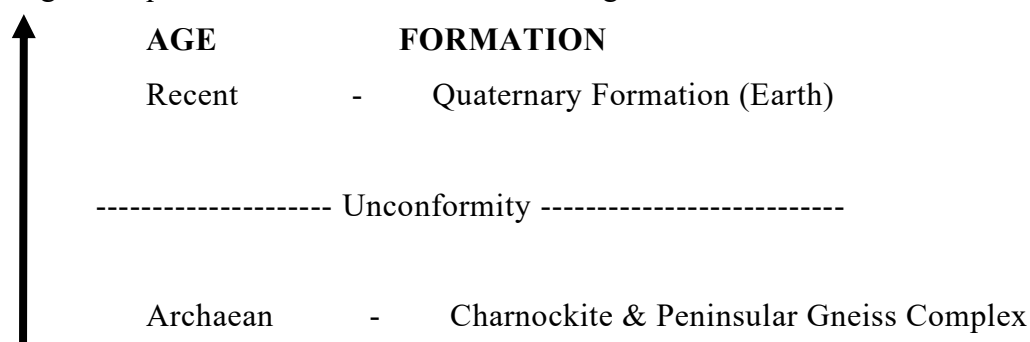


Figure 2: Google Image of the Project Site

4. Charnockite

The greater part of the district is covered by rocks belonging to Archaean age comprising the Charnockite group, the Migmatite complex, Sathyamangalam group and the Bhavani group and the alkali complex of Proterozoic age. West of Kallakurichi (Southwestern part of the district), the area comprises the Charnockite Group of rocks, viz., Charnockite, pyroxene-granulite and garnetiferous gabbro. West of Tirukoilur (Central part of the district) and east of the Charnockite terrain (i.e., Kallakurichi area) the Migmatite complex is made up of Hornblende-Biotite gneiss. Peninsular gneiss forms the oldest rock formations, in which the massive formation of Charnockite body N30°E – S30°W with dipping towards SE60°.

The general geological sequences of the rocks in this area are given below:



5. Geological Resources

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

Table 2. Geological resources

section	Bench	length in (m)	Width in (m)	Depth in (m)	Gravel in m ³	Geological Resources Rough in m ³	Bulk Density	Gravel in (Ts)	Geological Resources in (Ts)
XY-AB	I	29	150	2	8700		2	17400	
	II-X	29	150	45		195750	2.75		538312.50
XY-CD	I	173	196	2	67816		2	135632	
	II-X	173	196	45		1525860	2.75		4196115.00
XY-EF	I	47	87	2	8178		2	16356	
	II-X	47	87	45		184005	2.75		506013.75
XIYI- GH	I	36	37	2	2664		2	5328	
	II-X	36	37	45		59940	2.75		164835.00
Total					87358	1965555		174716	5405276.25

Table 2(a) Mineable resources

section	Bench	length in (m)	Width in (m)	Depth in (m)	Gravel in m ³	Mineable Reserves Rough stone in m ³	Bulk Density	Gravel in (Ts)	Mineable Reserves in (Ts)
XY-AB	I	21	134	2	5628		2	11256	
	II	15	128	5		9600	2.75		26400.00
	III	10	118	5		5900	2.75		16225.00
	IV	5	108	5		2700	2.75		7425.00
TOTAL					5628	18200		11256	50050.00
XY-CD	I	173	180	2	62280		2	124560	
	II	173	174	5		150510	2.75		413902.50
	III	173	164	5		141860	2.75		390115.00
	IV	173	154	5		133210	2.75		366327.50
	V	173	144	5		124560	2.75		342540.00
	VI	168	134	5		112560	2.75		309540.00
	VII	163	124	5		101060	2.75		277915.00
	VIII	158	114	5		90060	2.75		247665.00
	IX	148	104	5		76960	2.75		211640.00
	X	138	94	5		64860	2.75		178365.00
TOTAL					62280	995640		124560	2738010
XY-EF	I	39	71	2	5538		2	11076	
	II	36	65	5		11700	2.75		32175.00
	III	31	55	5		8525	2.75		23443.75
	IV	26	45	5		5850	2.75		16087.50
	V	21	35	5		3675	2.75		10106.25
	VI	16	25	5		2000	2.75		5500.00
	VII	11	15	5		825	2.75		2268.75
TOTAL					5538	32575		11076	89581.25
XIYI- GH	I	20	21	2	840		2	1680	
	II	14	15	5		1050	2.75		2887.50
TOTAL					840	1050		1680	2887.50
GRAND TOTAL					74286	1047465		148572	2880528.75

Table 3. Yearwise Production Plan

Year	section	Bench	L in (m)	W in (m)	D in (m)	Gravel m³	Yearwise Production in m³	Bulk Density	Gravel in (Ts)	Yearwise Production in (Ts)
I	XY-AB	I	21	134	2	5628		2	11256	
		II	15	128	5		9600	2.75		26400.00
	XY-CD	I	110	180	2	39600		2	79200	
		II	110	174	5		95700	2.75		263175.00
TOTAL						45228	105300		90456	289575.00
II	XY-CD	I	63	180	2	22680		2	45360	
		II	63	174	5		54810	2.75		150727.50
	XY-EF	I	39	71	2	5538		2	11076	
		II	36	65	5		11700	2.75		32175.00
	XIYI-GH	I	20	21	2	840		2	1680	
		II	14	15	5		1050	2.75		2887.50
	XY-EF	III	31	55	5		8525	2.75		23443.75
	XY-CD	III	36	164	5		29520	2.75		81180.00
TOTAL						29058	105605		58116	290413.75
III	XY-CD	III	128	164	5		104960	2.75		288640.00
TOTAL							104960			288640.00
IV	XY-CD	III	9	164	5		7380	2.75		20295.00
	XY-AB	III	10	118	5		5900	2.75		16225.00
		IV	5	108	5		2700	2.75		7425.00
	XY-CD	IV	116	154	5		89320	2.75		245630.00
TOTAL							105300			289575.00
V	XY-CD	IV	57	154	5		43890	2.75		120697.50
	XY-EF	IV	26	45	5		5850	2.75		16087.50
		V	21	35	5		3675	2.75		10106.25

$$\begin{aligned}
&= 31\text{m}^3 \text{ or } 5.16 \text{ Lorry Loads per day} \\
&= 4,907 / 600 \text{ days (2 Years)} \\
&= 49\text{m}^3 \text{ or } 8 \text{ Lorry Loads per day}
\end{aligned}$$

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 with slope of 60° . The Quarry operation involves shallow hand jack hammer drilling, mild explosives in blasting, excavation, loading and transportation of rough stone to the needy crusher.

Process Description

- The reserves and resources have arrived based upon the Geological investigation
- Removal of Gravel by Excavators and directly Loaded into Tippers.
- Removal of Rough Stone by Excavators by Drilling and Blasting.
- Shallow Drilling With Jackhammer of 30-32 mm 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 1.45 KLD. Domestic water will be sourced from nearby Eraiyur Village and other water will be sourced from nearby road tankers supply.

Table 4. Water Balance

Purpose	Quantity	Sources
Drinking Water	0.72 KLD	Packaged Drinking water vendors are available in Eraiyur village which is about 1.71 km E from the project site.
Afforestation & Green belt	0.5 KLD	Other domestic activities through road tankers supply
Dust suppression Sprinkling	0.5 KLD	From road tankers supply
Total	1.72 KLD	

8. Manpower

Total manpower required for the project is approximately 10 persons. Workers will be from nearby villages.

Table 5. Man Power Requirement

S.No.	Levels & Details		Persons
1.	Skilled	Operators- Excavator & Jackhammer	4 Nos
2.	Semi – skilled	Drivers	4 Nos
3.	Unskilled	Musdoor/Labours, Cleaners & Watch man	4 Nos
4.	Management & Supervisory staff	Second Class Mines Manager (with valid statutory qualification):	1 No
		Mines Foreman (with valid statutory qualification)	1 No
		Mines Mate (with valid statutory qualification)	1 No
		Blaster	1 No
Total			16 Nos

No child less than 18 years will be entertained during quarrying operations.

9. Solid Waste Management

Table 6 Solid Waste Management

S. No	Type	Quantity	Disposal Method
1	Organic	2.88 kg/day	Municipal bin including food waste
2	Inorganic	4.32 kg/day	TNPCB authorized recyclers

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

Table 7. 500m Radius Cluster Mine

1. Existing quarries:							
S. No.	Name of the Lessee/Permit Holder	Name of the Mineral	Taluk & Village	S.F. Nos.	Extent in Hect.	Lease Period	Remarks
1.	K.Anandavelu, S/o.Kesavan No.225, Mettu Street, Eraiur village, Vanur Taluk, Viluppuram Dt	Rough Stone & Gravel	Vanur Taluk Eraiur village	76/2, 76/3A, 76/6	0.86.0 0.22.0 1.10.0 Total 2.18.0	24.07.2024 to 23.07.2029	-
2	A.Veeraragavan, S/o.Ananthavelu, No.225, Mettu Street, Eraiur village, Vanur Taluk, Viluppuram Dt	Rough Stone & Gravel	Vanur Taluk Eraiur village	75/1, 75/4, 75/5, 75/6, 76/3B2	0.53.5 0.30.0 0.76.0 0.24.0 0.59.13 Total 2.42.63	11.04.2025 to 10.04.2035	-
3.	A.Aridoss, S/o.Arikrishnan, No:87, School Street, Kadagampattu village, Suthukeni Post, Vanur Taluk, Viluppuram Dt.	Rough Stone	Vanur Taluk Eraiur village	102/1A (Part), 102/1B2	0.05.0 1.29.5 Total 1.35.0	14.07.2022 to 13.07.2027	-
Proposed Area:							
1.	T.Bharathan, S/o.Thambiraj, No.11,1/2, Thiruvakkarai Main Road, Nemili village, Vanur Tk, Viluppuram Dt	Rough Stone & Gravel	Vanur Taluk Eraiur village	98/1, 95/2, 80/2B, 95/1	0.43.0 1.68.0 0.51.5 1.68.5 Total 4.31.0	-	

2.	P.Subramanian, S/o.Pandurangan, 3 rd Street, Pudu Nagar, Kondareddypalayam, Mannadipattu Commune, Puduchery.	Rough Stone & Gravel	Vanur Taluk Eraiyr village	85/1A, 88/1A2, 88/1B Total 2.41.42	1.88.0 0.35.42 0.18.0	-	
Abandoned quarries:							
1.	E.Jeyasankar, S/o.Elumalai, No.198, Vinayakar Koil Street, Eraiyur village, Vanur Tk, Viluppuram Dt.	Rough Stone & Gravel	Vanur Taluk Eraiyr village	93/4, 93/5, 94/1B, 94/4 Total 3.37.5	1.14.0 0.21.0 0.27.0 1.75.5	15.02.2019 to 14.02.2024	-
2.	T.Vasudevan, S/o.Thangavel, Eraiyr village, Vanur Tk, Viluppuram Dt.	Rough Stone & Gravel	Vanur Taluk Eraiyr village	80/3, 80/4, 81/1, 81/3, 81/4, 81/5, 81/6, 94/1A, 94/2, 94/3 Total 4.83.5	0.28.0 0.47.0 0.48.0 0.36.0 0.36.0 0.35.0 1.18.0 0.27.0 0.29.0 0.79.5	15.02.2019 to 14.02.2024	-

The Total extent of the Existing / Lease expired / Proposed quarries are 12.68.05 Ha

10. Land Requirement

The total extent area of the project is 2.41.42 Ha, Patta land in Eraiyur Village of Vanur Taluk, Villupuram District.

Table 8 Land Use Breakup

S. No.	Land Use	Present Area (Hect)	Area in use during the quarrying period (Hect)
1.	Quarrying Pit	Nil	3.71.43
2.	Infrastructure	Nil	0.01.00
3.	Roads	0.01.00	0.01.00
4.	Green Belt	Nil	0.54.17
5.	Unutilized	4.30.00	0.03.40
	Total	4.31.00 Ha	4.31.00 Ha

11. Human Settlement

There are no habitations within 500m radius. There are villages located in this area within 5 km radius of the quarry.

Table 9 Habitation

S. No	Name of the Village	Approximate distance	Direction from lease applied area	Approximate population
1.	Karasanur	2.7	NE	2862
2.	Eraiur	1.2	SE	3257
3.	Konamangalam	2.0	NW	907
4.	Koraikeni	3.8	SW	200

12. Power Requirement

The Rough Stone and Gravel Quarry project does not require huge water and electricity for the project. **16 Litre** diesel per hour for excavator for mining and loading for Rough stone needed and **10 Litre** diesel per hour for excavator for mining and loading for gravel.

13. Scope of the Baseline Study

This chapter contains information on existing environmental scenarios 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 to 26° C
- ii) Average Maximum Temperature: 30° C to 40° C
- iii) Average Annual Rainfall of the area: 985 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 10 km. radius, air quality surveys have been conducted at 7 locations. Major air pollutants like Particulate Matter (PM₁₀), Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂) were monitored, and the results are summarized below.

The baseline levels of PM₁₀ (65-36 µg/m³), PM_{2.5} (33-13 µg/m³), SO₂ (25-4 µg/m³), NO₂ (36-9 µg/m³), all the parameters are well within the standards prescribed by National Ambient Air Quality during the study period from September to November 2025.

13.3 Noise Environment

The maximum Day noise and Night noise were found to be 65 dB(A) and 52 dB(A) respectively in Project site. The minimum Day Noise and Night noise were 55 dB (A) and 40 dB(A) respectively, which was observed in Veeran Temple, Avadaiyarpattu. The observed values are all well within the Standards prescribed by CPCB.

13.4 Water Environment

- The average pH ranges from 7.04 – 7.98.
- TDS value varied from 335 mg/l to 1082 mg/l
- Hardness varied from 164 to 712 mg/l
- Chloride varied from 25.5 to 210 mg/l

13.5 Land Environment

The analysis results show that the majority of soil in the project and surrounding area is slightly alkaline in nature and pH value ranges from 7.65 to 8.31 with organic matter 0.17 to 1.83 %. 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 mine is Patta 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. Green belt has been recommended as one of the major components 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 215 trees per annum with interval 5m.
4. The rate of survival expected to be 80% in this area

Table.10 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, Pungam, Sandhana Vembu, Uva, Uzha, Illuppai, Sarakondrai, Puthranjivi, etc.,	80%	2155
Total		2155

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. 85,05,000/-** 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 .11 Project Cost details

S. No.	Description	Cost (Rs.)
1	Fixed Asset Cost	25,05,000/-
2	Machinery Cost	60,00,000 /-
	Total	85,05,000/-

The project cost is about **Rs. 85,05,000/-** (Eighty-Five Lakhs and Five Thousand Rupees Only).

The EMP (Environmental Management Plan) Cost is about **Rs.8,57,10,003/-** (Eight Crore Fifty-Seven Lakh Ten Thousand and Three Rupees Only).

20. Corporate Environmental Responsibility

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

Table 12 CER Cost

S.No.	CER Activity	CER value (Rs)
1.	Govt Hr. Sec School. Eraiyur - 604 304, Vanur Tk, Villupuram Dt (Total strength 414 students) Providing facilities are: ➤ Installation of UPS, Inverter, New submersible motor, Purchase of new iron bureaus, Furniture for office such as tables, chairs, and Purchase of computers for the office. ➤ Basic amenities such as Environmental awareness books (Tamil) in Library for students, Green Belt development, RO water purifiers, Hygienic Toilet and maintenance of toilet upto lease period.	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.