

EXECUTIVE SUMMARY FOR PROPOSED ROUGH STONE QUARRY CATEGORY – B1

(Public Hearing Upgraded after Terms of Reference (ToR) as per the provisions of
EIA Notification 2006 & amendments thereof)

APPROVED TOR VIDE TOR IDENTIFICATION No. TO25B0108TN5921018N (FILE NO. 12354) DATED: 30.07.2025

PROPOSED QUARRY LEASE DETAILS	
SURVEY NOS	10/1 (BLOCK-1)
VILLAGE	PADALUR (EAST)
TALUK	ALATHUR
DISTRICT	PERAMBALUR
EXTENT	1.50.00 Ha
CLUSTER EXTENT	16.03.6 Ha
MINEABLE RESERVES (upto 56m (26m AGL and 30mBGL)	ROUGH STONE: 3,12,605 m ³
PROPOSED PRODUCTION QUANTITY FOR FIVE YEARS (upto 56m (26m AGL and 30mBGL)	ROUGH STONE: 3,12,605 m ³
LAND	GOVERNMENT LAND

(Sector No. 1(a) (Sector no.1 as per NABET)

Category of the Project: B1 Cluster Mining, Total Cluster Area – 16.03.6 Ha

Baseline Monitoring Period – March 2025 – May 2025

APPLICANT

THIRU. R. RAJKUMAR,

S/o. Rajaram, No.4C, 4th Floor,

Sivam Sri Madhav, Kuttimani Nagar, Pichandar Kovil,

Trichy-621 216

ENVIRONMENTAL CONSULTANT	LABORATORY
M/s. GLOBAL MINING SOLUTIONS (NABET Accredited & ISO 9001 Certified Consultant) Plot No. 6, S.F.No. 13/2, A2, VS City, RC Chettypatty, Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455. NABET Accreditation No: NABET/EIA/23-26/SA 0241 Valid up to: 04.01.2026 Contact: 97502 23535 & 94446 54520 Email: infoglobalmining@gmail.com, globalminingsolutionssalem@gmail.com	M/s. SHRIENT ANALYTICAL & RESEARCH LABS PRIVATE LIMITED (NABL Accredited Testing Laboratory) Valid up to: 29.09.2025 #416/15, Dhargas Road, Perungalathur, West Tambaram, Chennai, Tamil Nadu, India.

EXECUTIVE SUMMARY

1.0 Introduction

Environmental Impact Assessment (EIA) as a tool used to identify the environmental, social and economic impacts of a project prior to decision-making. It aims to predict environmental impacts at an early stage in project planning and design, find ways and means to reduce adverse impacts, shape projects to suit the local environment and present the predictions and options to decision-makers.

This proposal is towards obtaining environmental clearance for Rough Stone Quarry located at S. No. 10/1 (Block 1), Padalur (E) Village, Alathur Taluk, Perambalur District, Tamil Nadu, for production capacity of 3,12,605 m³ of Rough Stone for the period of 5 years with ultimate depth up to 56m (26m AGL and 30m BGL). The mining plan has prepared and same was approved by Assistant Director, Department of Geology and Mining, Perambalur vide Rc. No. 123/G&M/2025, dated 23.04.2025.

As per EIA notification, 2006 and its subsequent amendments the proposed "Rough Stone Quarry of Thiru. R. Rajkumar" falls under Schedule 1(a) Mining of Minerals. It is further classified under Category B1 due to the overall extent of cluster area is 16.03.6 Ha which is >5 Ha. The ToR for the preparation of EIA/EMP was approved vide ToR Identification No. TO25B0108TN5921018N Dated: 30.07.2025. This report has been prepared in line with the approved TOR for production of maximum excavation 3,12,605 m³ of Rough Stone for 5 years.

1.1 Details of Project Proponent

Name of the Proponent	: Thiru. R. Rajkumar
Status of the Proponent	: Individual
Address	S/o. Rajaram, No.4C, 4th Floor, Sivam Sri Madhav, Kuttimani Nagar, Pichandar Kovil, Trichy-621 216

1.2 Size and Location of the Project

S. No.	Feature	Description
1	Co-ordinates of the project	Latitude: 11°07'03.37"N to 11°07'08.76"N Longitude: 78°50'24.25"E to 78°50'28.37"E
2	Type of land	Government Poramboke Land
3	Extent of lease area	1.50.0 Ha and the cluster area within 500 m radius including the proposed mine is 16.03.6 Ha > 5 Ha
4	Type of lease	Existing Quarry
5	Toposheet No.	58 I /16
6	Geological Resource	6,27,205 m ³
7	Mineable Resource	3,12605 m ³ – 49.8%
8	Proposed production quantity for five years	3,12605 m ³
9	Peak Production / year	The Annual Peak production quantity of Rough Stone - 63145 m ³ (5th year)
10	Proposed depth of mining	56 m (26m AGL and 30m BGL)

1.3 Statutory Details:

There is no litigation/court cases pending against this project.

a) Precise Area Communication:

The Project Proponent has obtained Precise area communication letter received from the Assistant Director, Department of Geology and Mining, Perambalur, vide vide Rc.No. 123/G&M/2025, dated 09.04.2025. **The letter copy enclosed as Annexure – 1.**

b) Mining Plan Approval Letter:

The project proponent has prepared a Mining Plan under rule 8, 41 & 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 and the same has been approved by the

Assistant Director, Department of Geology and Mining, Perambalur, vide vide Rc.No. 123/G&M/2025, dated 23.04.2025. **The approval letter along with approved plan is enclosed as Annexure – 2.**

c) 500m radius quarry features:

The project proponent has obtained an official letter from the Assistant Director (FAC), Department of Geology and Mining, Perambalur vide Letter vide Rc.No. 123/G&M/2025, dated 16.06.2025. **The letter copy enclosed as Annexure - 3.**

d) VAO certification regarding 300 meter features of the project area.

There are no historical places, schools, cemeteries, temples, bird sanctuaries, and wildlife sanctuaries within 300 metres of the proposed project area. In this regard, the project proponent has received an official letter from the Village Administrative Officer, Padalur (East), dated 17.04.2025.

e) Land document of the proposed lease area:

It is a Government Poramboke Land and the proponent has obtained Tender

f) CER Letter:

The project proponent has obtained an official letter from Panchayat Union Middle School, Thiruvankurichi, Padalur (E) Village, dated 24.04.2025.

g) QP Certificate:

The mining plan for this project has been prepared by Thiru.C.Natarajan, a Geologist, has 10 years of experience with M.Sc Geology. He is working at Global Mining Solutions as a QP for preparing Mining Plans.

h) NABET Certificate:

The Project Proponent has engaged Global Mining Solutions to prepare a Pre-Feasibility report & Environmental Clearance application for this project. Global Mining Solution is A NABET & an ISO 9001 Certified Consultant.

EXECUTIVE SUMMARY FOR PROPOSED ROUGH STONE QUARRY OF THIRU. R. RAJKUMAR AT S.F.NO. 10/1 (BLOCK-1) OVER AN EXTENT OF 1.50.0 HECTARES AT PADALUR (EAST) VILLAGE, ALATHUR TALUK, PERAMBALUR DISTRICT, TAMIL NADU STATE

Salient Features of the Project

S. No.	Particulars	Details
1.	Proponent Name	Thiru. R. Rajkumar
2.	Proposed project	Rough Stone Quarry of Thiru. R. Rajkumar
3.	Extent	1.50.0 Ha and the cluster area within 500 m radius including the proposed mine is 16.03.6 Ha > 5 Ha
4.	Location	S. No. 10/1 (Block 1), Padalur (E) Village, Alathur Taluk, Perambalur District
5.	Co-ordinates of the project site	Latitude: 11°07'03.37"N TO 11°07'08.76"N Longitude: 78°50'24.25"E TO 78°50'28.37"E
6.	Topography	Plain Terrain
7.	Site Elevation above MSL	≈ 150 m from above MSL. Initial RL before commencement of Mining – 150m BGL and Final RL after completion of Mining Operation – 94m BGL
8.	Topo Sheet No.	58 I /16
9.	Minerals of Mine	Rough Stone
10.	Proposed production in m3	3,12,605 m3 of Rough Stone up to the depth of 56m (26m AGL and 30m BGL) for the period of 5 years
11.	Ultimate Depth of mining	56m (26m AGL and 30m BGL)
12.	Method of Mining	Opencast Mining with a bench height of 5m and bench width of 5m is proposed
13.	Drilling/Blasting	Drilling and controlled Blasting is proposed
14.	No. of Working days	300 Days
15.	Water requirement & Source	5.0 kLD and will be sourced from local vendors

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16.	Manpower	30 Nos.
17.	Project Cost	Rs. 538.47 lakhs
18.	Mining Plan Approval	Assistant Director, Department of Geology and Mining, Perambalur vide Rc.No. 123/G&M/2025, dated 23.04.2025
19.	Safety Zone	0.23.0 Ha will be maintained as safety zone and tree saplings will be planted in this area
20.	Ground water level	67m BGL
21.	Distance of Stone Crusher	180m, SW
22.	Previous History & CCR	The applied area was previously operated by some other I before 2015. Hence CCR is not applicable.

Environmental Settings of the Project

S. No.	Particulars	Details
1.	Nearest Highway	National Highway (NH-38) Viluppuram – Trichy - 0.6km - W The State Highway (SH-142) Perambalur – Thuraiyur - 11.8Km -NW.
2.	Interstate Boundary	Not Applicable
3.	Nearest Railway Station	Kallakkudi Palanganatham Railway Station – 20.01 km – SE
4.	Nearest Airport	Trichy International Airport – 41.31 km - S
5.	Nearest Village	Irur – 735 m (NW)
6.	Water bodies	Tank 0.52 km, S, Kuttai 275m (N), Tank 0.8 km, SE, Pudukurichi Eri – 2.9km, NE, Karai Big – 4.07km, NE, Therani Tank – 2.79km, SE, Thiruvalakuruchi Eri – 1.74

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		km, SE, Maruthadi Eri – 1.46km, SW, Perumalpalayam eri – 1.61km, SW, Nanthai River (4.3km, SE)
7.	Reserved Forest	Naranamangalam R.F.- 2.93km (NW), Nedungur R.F.- 4 (SW), Velur R.F.- 5.27km (NW), Maniyankurichi R.F.- 5. (SW), Maramareddipalayam R.F.- 8.26km (SW)
8.	Eco Sensitive Zone and Wildlife Sanctuary (Notified)	Nil within 10km Radius Karaivetti Birds Sanctuary – 26.76km km (SE)
9.	Archaeological important places	Nil within 10 km radius
10.	Defense Installations	Nil within 10 km radius
11.	Nearest Port	Nil within 10 km radius
12.	Seismic Zone	Nil within 10 km radius

2.0 Project Description

The type of the project is opencast mechanized mining method to excavate Rough Stone within the proposed Mine Lease area with drilling, blasting, loading and transportation.

2.1 Location details

This is a Rough Stone Quarry located in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State. The area lies in the north latitude of **11°07'03.37"N TO 11°07'08.76"N** and eastern longitude of **78°50'24.25"E TO 78°50'28.37"E** and **toposheet number 58 I/16**. This proposed project area is classified as Government Poramboke Land and the applicant has Tender & does not fall within 10 km radius of any Eco – sensitive zone, Wild life Sanctuary, National Park, Tiger Reserve, Elephant Corridor and Biosphere Reserves.

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2.2 Geological resources

The Geological resource were calculated considering the depth of 56 m (26m AGL and 30m BGL). Availability of Resources is given below.

Available Geological Resources

Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Top soil m³	Geological Resources of Rough stone in m³	Bulk Density	Top soil in Ts	Geological Resources of Rough stone in Ts
XY-AB	Above Ground Level	I	68	36	1	2448	-	2	4896.00	-
		II	57	34	5	-	9690	2.75	-	26647.50
		III	68	34	5	-	11560	2.75	-	31790.00
		IV	68	34	5	-	11560	2.75	-	31790.00
	Below Ground Level	V	68	34	5	-	11560	2.75	-	31790.00
		VI	68	34	5	-	11560	2.75	-	31790.00
		VII	68	34	5	-	11560	2.75	-	31790.00
		VIII	68	34	5	-	11560	2.75	-	31790.00
		IX	68	34	5	-	11560	2.75	-	31790.00
		X	68	34	5	-	11560	2.75	-	31790.00
Total						2448	102170	-	4896.00	280967.50
XY-CD	Above Ground Level	I	31	35	1	1085	-	2	2170.00	-
		II	31	34	5	-	5270	2.75	-	14492.50
		III	31	34	5	-	5270	2.75	-	14492.50
		IV	31	34	5	-	5270	2.75	-	14492.50
	Below Ground Level	V	31	34	5	-	5270	2.75	-	14492.50
		VI	31	34	5	-	5270	2.75	-	14492.50
		VII	31	34	5	-	5270	2.75	-	14492.50
		VIII	31	34	5	-	5270	2.75	-	14492.50
		IX	31	34	5	-	5270	2.75	-	14492.50
		X	31	34	5	-	5270	2.75	-	14492.50
Total						1085	47430	-	2170.00	130432.50
XY-EF	Above Ground Level	I	34	20	1	680	-	2	1360.00	-
		II	34	8	5	-	1360	2.75	-	3740.00
		III	34	18	5	-	3060	2.75	-	8415.00
		IV	51	34	5	-	8670	2.75	-	23842.50
	Below Ground Level	V	51	34	5	-	8670	2.75	-	23842.50
		VI	51	34	5	-	8670	2.75	-	23842.50
		VII	51	34	5	-	8670	2.75	-	23842.50
		VIII	51	34	5	-	8670	2.75	-	23842.50
		IX	51	34	5	-	8670	2.75	-	23842.50
		X	51	34	5	-	8670	2.75	-	23842.50
Total						680	65110	-	1360.00	179052.50
X1Y1-AB	Above Ground Level	I	70	29	1	2030	-	2	4060.00	-
		II	70	27	5	-	9450	2.75	-	25987.50
		III	70	27	5	-	9450	2.75	-	25987.50
		VI	70	27	5	-	9450	2.75	-	25987.50
	Below Ground Level	V	70	27	5	-	9450	2.75	-	25987.50
		VI	70	27	5	-	9450	2.75	-	25987.50
		VII	70	27	5	-	9450	2.75	-	25987.50
		VIII	70	27	5	-	9450	2.75	-	25987.50
		IX	70	27	5	-	9450	2.75	-	25987.50

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(BLOCK-1) OVER AN EXTENT OF 1.50.0 HECTARES AT PADALUR (EAST) VILLAGE, ALATHUR TALUK,
PERAMBALUR DISTRICT, TAMIL NADU STATE**

		X	70	27	5	-	9450	2.75	-	25987.50
		XI	70	27	5	-	9450	2.75	-	25987.50
Total						2030	94500	-	4060.00	259875.00
X1Y1-CD	Above Ground Level	I	29	45	1	1305	-	2	2610.00	-
		II	29	29	5	-	4205	2.75	-	11563.75
		III	29	44	5	-	6380	2.75	-	17545.00
		IV	29	44	5	-	6380	2.75	-	17545.00
		V	29	44	5	-	6380	2.75	-	17545.00
	Below Ground Level	VI	29	44	5	-	6380	2.75	-	17545.00
		VII	29	44	5	-	6380	2.75	-	17545.00
		VIII	29	44	5	-	6380	2.75	-	17545.00
		IX	29	44	5	-	6380	2.75	-	17545.00
		X	29	44	5	-	6380	2.75	-	17545.00
		XI	29	44	5	-	6380	2.75	-	17545.00
Total						1305	61625	-	2610.00	169468.75
X1Y1-EF	Above Ground Level	I	10	27	1	270	-	2	540.00	-
		II	10	27	5	-	1350	2.75	-	3712.50
		III	10	27	5	-	1350	2.75	-	3712.50
		IV	10	27	5	-	1350	2.75	-	3712.50
		V	10	27	5	-	1350	2.75	-	3712.50
		VI	51	27	5	-	6885	2.75	-	18933.75
	Below Ground Level	VII	51	27	5	-	6885	2.75	-	18933.75
		VIII	51	27	5	-	6885	2.75	-	18933.75
		IX	51	27	5	-	6885	2.75	-	18933.75
		X	51	27	5	-	6885	2.75	-	18933.75
		XI	51	27	5	-	6885	2.75	-	18933.75
		XII	51	27	5	-	6885	2.75	-	18933.75
Total						270	53595	-	540.00	147386.25
X2Y2-AB	Above Ground Level	I	71	40	1	2840	-	2	5680.00	-
		II	33	39	5	-	6435	2.75	-	17696.25
		III	70	39	5	-	13650	2.75	-	37537.50
		IV	70	39	5	-	13650	2.75	-	37537.50
		V	70	39	5	-	13650	2.75	-	37537.50
		VI	70	39	5	-	13650	2.75	-	37537.50
	Below Ground Level	VII	70	39	5	-	13650	2.75	-	37537.50
		VIII	70	39	5	-	13650	2.75	-	37537.50
		IX	70	39	5	-	13650	2.75	-	37537.50
		X	70	39	5	-	13650	2.75	-	37537.50
		XI	70	39	5	-	13650	2.75	-	37537.50
		XII	70	39	5	-	13650	2.75	-	37537.50
Total						2840	142935	-	5680.00	393071.25
X2Y2-CD	Below Ground Level	IX	30	22	2	-	1320	2.75	-	3630.00
		X	30	22	5	-	3300	2.75	-	9075.00
		XI	30	22	5	-	3300	2.75	-	9075.00
		XII	30	22	5	-	3300	2.75	-	9075.00
		XIII	30	22	5	-	3300	2.75	-	9075.00
Total						-	14520	-	-	39930.00
X2Y2-EF	Above Ground Level	I	10	10	1	100	-	2	200.00	-
		II	10	10	5	-	500	2.75	-	1375.00
		III	10	10	5	-	500	2.75	-	1375.00
		IV	10	10	5	-	500	2.75	-	1375.00
		V	10	10	5	-	500	2.75	-	1375.00
	Below Ground Level	VI	10	10	5	-	500	2.75	-	1375.00
		VII	10	10	5	-	500	2.75	-	1375.00
		VIII	10	10	5	-	500	2.75	-	1375.00
		IX	10	10	5	-	500	2.75	-	1375.00
			40	29	2	-	2320	2.75	-	6380.00
		X	50	39	5	-	9750	2.75	-	26812.50

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		XI	50	39	5	-	9750	2.75	-	26812.50
		XII	50	39	5	-	9750	2.75	-	26812.50
		XIII	50	39	5	-	9750	2.75	-	26812.50
Total						100	45320	-	200.00	124630.00
Grand Total						10758	627205	-	21516.00	1724813.75

Topsoil Formation : 21,516 Ts

The Geological Resources of Rough stone : 17,24,813.75 Ts

2.3 Mineable resources

The mineable reserves are calculated by considering bench formation and leaving 7.5 m (Safety Barrier all around the applied area) and 10 m safety distance in applied lease areas.

Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Top soil in m³	Mineable Reserves of Rough stone in m³	Bulk Density	Top soil in Ts	Mineable Reserves of Rough stone in Ts
XY-AB	Above Ground Level	I	58	26	1	1508	-	2	3016.00	-
		II	57	24	5	-	6840	2.75	-	18810.00
		III	58	24	5	-	6960	2.75	-	19140.00
		IV	58	24	5	-	6960	2.75	-	19140.00
	Below Ground Level	V	58	24	5	-	6960	2.75	-	19140.00
		VI	53	19	5	-	5035	2.75	-	13846.25
		VII	48	14	5	-	3360	2.75	-	9240.00
		VIII	43	9	5	-	1935	2.75	-	5321.25
Total						1508	38050	-	3016.00	104637.50
XY-CD	Above Ground Level	I	31	25	1	775	-	2	1550.00	-
		II	31	24	5	-	3720	2.75	-	10230.00
		III	31	24	5	-	3720	2.75	-	10230.00
		IV	31	24	5	-	3720	2.75	-	10230.00
	Below Ground Level	V	31	24	5	-	3720	2.75	-	10230.00
		VI	31	19	5	-	2945	2.75	-	8098.75
		VII	31	14	5	-	2170	2.75	-	5967.50
		VIII	31	9	5	-	1395	2.75	-	3836.25
Total						775	21390	-	1550.00	58822.50
XY-EF	Above Ground Level	I	34	10	1	340	-	2	680.00	-
		II	34	8	5	-	1360	2.75	-	3740.00
		III	34	8	5	-	1360	2.75	-	3740.00

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		IV	41	24	5	-	4920	2.75	-	13530.00
	Below Ground Level	V	41	24	5	-	4920	2.75	-	13530.00
		VI	36	19	5	-	3420	2.75	-	9405.00
		VII	31	14	5	-	2170	2.75	-	5967.50
		VIII	26	9	5	-	1170	2.75	-	3217.50
Total						340	19320	-	680.00	53130.00
X1Y1-AB	Above Ground Level	I	60	29	1	1740	-	2	3480.00	-
		II	60	27	5	-	8100	2.75	-	22275.00
		III	60	27	5	-	8100	2.75	-	22275.00
		IV	60	27	5	-	8100	2.75	-	22275.00
		V	60	27	5	-	8100	2.75	-	22275.00
	Below Ground Level	VI	60	27	5	-	8100	2.75	-	22275.00
		VII	55	27	5	-	7425	2.75	-	20418.75
		VIII	50	27	5	-	6750	2.75	-	18562.50
		IX	45	27	5	-	6075	2.75	-	16706.25
		X	40	27	5	-	5400	2.75	-	14850.00
		XI	35	22	5	-	3850	2.75	-	10587.50
Total						1740	70000	-	3480.00	192500.00
X1Y1-CD	Above Ground Level	I	29	45	1	1305	-	2	2610.00	-
		II	29	29	5	-	4205	2.75	-	11563.75
		III	29	44	5	-	6380	2.75	-	17545.00
		IV	29	44	5	-	6380	2.75	-	17545.00
		V	29	44	5	-	6380	2.75	-	17545.00
	Below Ground Level	VI	29	44	5	-	6380	2.75	-	17545.00
		VII	29	44	5	-	6380	2.75	-	17545.00
		VIII	29	44	5	-	6380	2.75	-	17545.00
		IX	29	44	5	-	6380	2.75	-	17545.00
		X	29	39	5	-	5655	2.75	-	15551.25
		XI	29	29	5	-	4205	2.75	-	11563.75
Total						1305	58725	-	2610.00	161493.75
X1Y1-EF	Above Ground Level	VI	41	27	5	-	5535	2.75	-	15221.25
	Below Ground Level	VII	41	27	5	-	5535	2.75	-	15221.25
		VIII	36	27	5	-	4860	2.75	-	13365.00
		IX	31	27	5	-	4185	2.75	-	11508.75
		X	26	27	5	-	3510	2.75	-	9652.50
		XI	21	27	5	-	2835	2.75	-	7796.25
		XII	16	22	5	-	1760	2.75	-	4840.00
Total						-	28220	-	-	77605.00
X2Y2-AB	Above Ground Level	I	61	29	1	1769	-	2	3538.00	-
		II	33	29	5	-	4785	2.75	-	13158.75
		III	60	29	5	-	8700	2.75	-	23925.00
		IV	60	29	5	-	8700	2.75	-	23925.00
		V	60	29	5	-	8700	2.75	-	23925.00

EXECUTIVE SUMMARY FOR PROPOSED ROUGH STONE QUARRY OF THIRU. R. RAJKUMAR AT S.F.NO. 10/1 (BLOCK-1) OVER AN EXTENT OF 1.50.0 HECTARES AT PADALUR (EAST) VILLAGE, ALATHUR TALUK, PERAMBALUR DISTRICT, TAMIL NADU STATE

	Below Ground Level	VI	60	29	5	-	8700	2.75	-	23925.00
		VII	60	29	5	-	8700	2.75	-	23925.00
		VIII	55	24	5	-	6600	2.75	-	18150.00
		IX	50	19	5	-	4750	2.75	-	13062.50
		X	45	14	5	-	3150	2.75	-	8662.50
		XI	35	9	5	-	1575	2.75	-	4331.25
Total						1769	64360	-	3538.00	176990.00
X2Y2-CD	Below Ground Level	IX	30	12	2	-	720	2.75	-	1980.00
		X	30	7	5	-	1050	2.75	-	2887.50
Total						-	1770	-	-	4867.50
X2Y2-EF	Below Ground Level	IX	40	29	2	-	2320	2.75	-	6380.00
		X	35	24	5	-	4200	2.75	-	11550.00
		XI	30	19	5	-	2850	2.75	-	7837.50
		XII	20	14	5	-	1400	2.75	-	3850.00
Total						-	10770	-	-	29617.50
Grand Total						7437	312605	-	14874.00	859663.75

The available mineable reserve is computed as 8,59,663.75Ts of rough stone and 14,874Ts of Topsoil up to a depth of 56m (26m above ground level and 30m below ground level) only.

2.4 Yearwise production resources

The project proponent has proposed to carry out 3,12,605 Cu.m of Rough stone upto a depth of 56m (26m AGL and 30m BGL) for the period of five years

Year	Section	Topography	Benc h	Length in (m)	Widt h in (m)	Dept h in (m)	Top soil m³	Mineable Reserves of Rough stone in m³	Bulk Densit y	Top soil in Ts	Mineable Reserves of Rough stone in Ts
I	X2Y2- AB	Above Ground Level	I	61	29	1	1769	-	2	3538.0 0	-
			II	33	29	5	-	4785	2.75	-	13158.75
			III	60	29	5	-	8700	2.75	-	23925.00
			IV	60	29	5	-	8700	2.75	-	23925.00
	X1Y1- AB	Above Ground Level	I	60	29	1	1740	-	2	3480.0 0	-
			II	60	27	5	-	8100	2.75	-	22275.00
			III	60	27	5	-	8100	2.75	-	22275.00
	X1Y1- CD	Above Ground Level	I	29	45	1	1305	-	2	2610.0 0	-
			II	29	29	5	-	4205	2.75	-	11563.75
			III	29	44	5	-	6380	2.75	-	17545.00
	XY-EF	Above Ground Level	I	34	10	1	340	-	2	680.00	-
			II	34	8	5	-	1360	2.75		3740.00
	XY-CD	Above Ground Level	I	31	25	1	775	-	2	1550.0 0	-
			II	31	24	5	-	3720	2.75	-	10230.00
	XY-AB	Above Ground Level	I	58	26	1	1508	-	2	3016.0 0	-
			II	57	24	5	-	6840	2.75	-	18810.00
			III	15	24	5	-	1800	2.75	-	4950.00
Total							7437	62690	-	14874	172397.50

EXECUTIVE SUMMARY FOR PROPOSED ROUGH STONE QUARRY OF THIRU. R. RAJKUMAR AT S.F.NO. 10/1 (BLOCK-1) OVER AN EXTENT OF 1.50.0 HECTARES AT PADALUR (EAST) VILLAGE, ALATHUR TALUK, PERAMBALUR DISTRICT, TAMIL NADU STATE

II	XY-AB	Above Ground Level	III	43	24	5	-	5160	2.75	-	14190.00
	XY-CD	Above Ground Level	III	31	24	5	-	3720	2.75	-	10230.00
	XY-EF	Above Ground Level	III	34	8	5	-	1360	2.75	-	3740.00
	X1Y1-CD	Above Ground Level	IV	29	44	5	-	6380	2.75	-	17545.00
			V	29	44	5	-	6380	2.75	-	17545.00
	X1Y1-AB	Above Ground Level	IV	60	27	5	-	8100	2.75	-	22275.00
			V	60	27	5	-	8100	2.75	-	22275.00
	X2Y2-AB	Above Ground Level	V	60	29	5	-	8700	2.75	-	23925.00
VI			60	29	5	-	8700	2.75	-	23925.00	
XXX1-EF	Above Ground Level	VI	41	27	5	-	5535	2.75	-	15221.25	
Total							-	62135	-	-	170871.25
III	XY-EF	Above Ground Level	IV	41	24	5	-	4920	2.75	-	13530.00
		Below Ground Level	V	41	24	5	-	4920	2.75	-	13530.00
	XY-CD	Above Ground Level	IV	31	24	5	-	3720	2.75	-	10230.00
		Below Ground Level	V	31	24	5	-	3720	2.75	-	10230.00
	XY-AB	Above Ground Level	IV	58	24	5	-	6960	2.75	-	19140.00
		Below Ground Level	V	58	24	5	-	6960	2.75	-	19140.00
	X1Y1-EF	Below Ground Level	VII	41	27	5	-	5535	2.75	-	15221.25
	X1Y1-CD	Below Ground Level	VI	29	44	5	-	6380	2.75	-	17545.00
	X1Y1-AB	Below Ground Level	VI	60	27	5	-	8100	2.75	-	22275.00
	X2Y2-AB	Below Ground Level	VII	60	29	5	-	8700	2.75	-	23925.00
			VIII	23	24	5	-	2760	2.75	-	7590.00
Total							-	62675	-	-	172356.25
IV	X2Y2-AB	Below Ground Level	VIII	32	24	5	-	3840	2.75	-	10560.00
	X2Y2-CD	Below Ground Level	IX	30	12	2	-	720	2.75	-	1980.00
	X2Y2-EF	Below Ground Level	IX	40	29	2	-	2320	2.75	-	6380.00

EXECUTIVE SUMMARY FOR PROPOSED ROUGH STONE QUARRY OF THIRU. R. RAJKUMAR AT S.F.NO. 10/1 (BLOCK-1) OVER AN EXTENT OF 1.50.0 HECTARES AT PADALUR (EAST) VILLAGE, ALATHUR TALUK, PERAMBALUR DISTRICT, TAMIL NADU STATE

	X1Y1-EF	Below Ground Level	VIII	36	27	5	-	4860	2.75	-	13365.00	
			IX	31	27	5	-	4185	2.75	-	11508.75	
	X1Y1-CD	Below Ground Level	VII	29	44	5	-	6380	2.75	-	17545.00	
			VIII	29	44	5	-	6380	2.75	-	17545.00	
	X1Y1-AB	Below Ground Level	VII	55	27	5	-	7425	2.75	-	20418.75	
			VIII	50	27	5	-	6750	2.75	-	18562.50	
	XY-AB	Below Ground Level	VI	53	19	5	-	5035	2.75	-	13846.25	
			VII	48	14	5	-	3360	2.75	-	9240.00	
	XY-CD	Below Ground Level	VI	31	19	5	-	2945	2.75	-	8098.75	
			VII	31	14	5	-	2170	2.75	-	5967.50	
	XY-EF	Below Ground Level	VI	36	19	5	-	3420	2.75	-	9405.00	
			VII	31	14	5	-	2170	2.75	-	5967.50	
Total							-	61960	-	-	170390.00	
V	X2Y2-EF	Below Ground Level	X	35	24	5	-	4200	2.75	-	11550.00	
			XI	30	19	5	-	2850	2.75	-	7837.50	
			XII	20	14	5	-	1400	2.75	-	3850.00	
	X2Y2-CD	Below Ground Level	X	30	7	5	-	1050	2.75	-	2887.50	
	X2Y2-AB	Below Ground Level	IX	50	19	5	-	4750	2.75	-	13062.50	
			X	45	14	5	-	3150	2.75	-	8662.50	
			XI	35	9	5	-	1575	2.75	-	4331.25	
	X1Y1-AB	Below Ground Level	IX	45	27	5	-	6075	2.75	-	16706.25	
			X	40	27	5	-	5400	2.75	-	14850.00	
			XI	35	22	5	-	3850	2.75	-	10587.50	
	X1Y1-CD	Below Ground Level	IX	29	44	5	-	6380	2.75	-	17545.00	
			X	29	39	5	-	5655	2.75	-	15551.25	
			XI	29	29	5	-	4205	2.75	-	11563.75	
	X1Y1-EF	Below Ground Level	X	26	27	5	-	3510	2.75	-	9652.50	
			XI	21	27	5	-	2835	2.75	-	7796.25	
			XII	16	22	5	-	1760	2.75	-	4840.00	
	XY-EF	Below Ground Level	VIII	26	9	5	-	1170	2.75	-	3217.50	
	XY-CD	Below Ground Level	VIII	31	9	5	-	1395	2.75	-	3836.25	
	XY-AB	Below Ground Level	VIII	43	9	5	-	1935	2.75	-	5321.25	
	Total							-	63145	-	-	173648.75
	Grand Total							7437	312605	-	14874	859663.75

2.5 Land use of the project area

The entire project site is Government Land and the applicant has obtained tender. The land use pattern of the mine lease area as of today and conceptual stage is given below.

EXECUTIVE SUMMARY FOR PROPOSED ROUGH STONE QUARRY OF THIRU. R. RAJKUMAR AT S.F.NO. 10/1 (BLOCK-1) OVER AN EXTENT OF 1.50.0 HECTARES AT PADALUR (EAST) VILLAGE, ALATHUR TALUK, PERAMBALUR DISTRICT, TAMIL NADU STATE

Sl. No.	Land Use	Present Area (Ha)	Area in use during the quarrying period (Ha)
1.	Quarrying Pit	0.52.0	1.25.0
2.	Infrastructure	Nil	0.01.0
3.	Roads	0.01.0	0.01.0
4.	Green Belt	Nil	0.23.0
5.	Unutilized	0.97.0	Nil
	Total =	1.50.0	1.50.0

Ultimate Pit dimension (M) end of Mining plan Period			
Pit No	Length (max) in(m)	Width (Avg) in (m)	Depth(max) in(m)
I	140	89	56 m (26m AGL and 30m BGL)

2.6 Method of mining

Opencast mechanized mining with a bench height of 5m and bench width of 5m and 80° Slope is proposed. The quarry operation involves shallow jack hammer drilling, slurry blasting, excavation, loading and transportation of Rough Stone to the needy customers. Occasionally hydraulic excavators are attached with rock breakers for fragmentation to avoid secondary blasting.

2.7 Greenbelt Development

Green belt development plan is proposed for the 5 year period.

Year	No. of trees proposed to be planted	Survival %	Name of the Species	No. of trees expected to be grown
I	230	80%	Neem, Casuarina, Pongamia pinnata, etc.,	184
II		80%		
III		80%		
IV		80%		
V		80%		

3 Description of the Environment

The baseline monitoring study was carried out during March 2025 – May 2025 to assess the existing environmental scenario in the area. For the purpose of EIA studies, project area was considered as the core zone and area outside the project area up to 10km radius from the periphery of the project site was considered as buffer zone. Baseline Environmental data has been collected for: -

- a) Land
- b) Water
- c) Air
- d) Noise
- e) Biological
- f) Socio-economic status

3.1 LAND ENVIRONMENT

The existing land use pattern of the study area is tabulated below in table 11.2.

Table - 11.2 Land use Pattern of the study area

Sl.No.	LAND USE / LAND COVER	Area in Sq.Km	Area in Percentage
1	Built-up land	6.47	2.03
2	Crop land	207.65	65.3
3	Existing quarries	3.7	1.16
4	Fallow land	14.78	4.65
5	Hill and forest	31	9.75
6	Land with scrub	16.67	5.24
7	Land without scrub	23.39	7.36
8	Plantations	2.83	0.89
9	Water bodies	11.48	3.61
	Total Area	291.37	100.00

Source: Survey of India Toposheet and Landsat Satellite Imagery

3.2 SOIL CHARACTERISTICS

Results of the soil samples show that the pH values were found to be 7.45 to 8.12 and Electrical Conductivity values were ranging between 190.2 – 295.6 $\mu\text{mhos/cm}$. Soils are generally Silty Clay. Organic matter values were ranging between 0.77 – 1.32 %. Total Nitrogen values were ranging between 136 – 390 mg/kg. Phosphorus values were ranging between 1.21 – 1.69 $\mu\text{g/g}$. Potassium values were ranging between 605 - 1030 mg/kg. Sodium values were ranging between 315 - 535 mg/kg. Total Sulphur values were observed to be BDL. The soil quality data for the 7 samples collected and analyzed are provided in Table no – 3.14.

3.3 AMBIENT AIR QUALITY

The results of ambient air quality monitoring for the period **(March 2025 to May 2025)** are presented in Chapter 3. The ambient air quality data for PM₁₀, PM_{2.5}, SO₂, NO₂, CO studied at 5 locations as per prescribed guidelines/ methods. As per the monitoring data, the PM₁₀ values were in the range of 41 – 76.1 $\mu\text{g/m}^3$. PM_{2.5} values were in the range of 19.3 – 36.5 $\mu\text{g/m}^3$. SO₂ levels were ranging from 4.2 – 8.2 $\mu\text{g/m}^3$. NO₂ levels were ranging from 6.2 – 13.2 $\mu\text{g/m}^3$. While comparing with the NAAQ Norms laid by MoEF, all monitored values of PM₁₀, PM_{2.5}, SO₂, NO₂ & CO were found to be well within the prescribed standards. The CO values in the all locations found to be below detectable limit.

3.4 WATER ENVIRONMENT

Ground Water

Suitability of ground water for drinking/irrigation/industrial purposes is determined keeping in view the effects of various chemical constituents present in water as required human use, plant use. Though many ions are very essential for the growth of plants and human body but when present in excess, have an adverse effect on health and growth.

As Per the data it has been observed that the pH value varies from 7.36 to 7.94, Chlorides Ranges From 75.5 - 510 mg/l, Sulphates value found to be between 56.9 - 355 mg/l, Fluoride Ranges low in lease area i.e. 0.23 – 0.63, Hardness varies from 180 - 454 mg/l, and Total dissolved solid 318 – 1282 mg/l. The ground water has been analyzed as per IS10500: 2012 and found to be suitable for drinking purpose. So, the results of chemical and bacteriological analysis of water samples are classified under good class for drinking purpose with respect to total dissolved solids. Total hardness of the samples ranged from soft to moderately hard waters and can be fairly used for drinking. Regular ground water monitoring is suggested as the quality of ground water may fluctuate with groundwater consumption and seasonal variations.

Surface Water

The surface water analysis of Nattarmangalam eri, Nanthai River (U/s and D/s) reveals both the water fits Class B as per Best Designated Use of water classification of CPCB.

3.5 NOISE ENVIRONMENT

From the table 3.12, it is observed that the day Equivalent Noise (Leq-d) level were ranging from 45.1 to 50.8 dB(A) and Night Equivalent Noise (Leq-n) level were ranging from 37.5 to 43.3 (A). While comparing with the MoEF Norm of 55 dB(A) for day time and 45 dB(A) for night time in Residential areas, the monitored ambient noise levels are within the limit values.

3.6 BIOLOGICAL ENVIRONMENT

There is no schedule I species of animals observed within study area as per Wildlife Protection Act 1972 as well as no species is in vulnerable, endangered or threatened category as per IUCN. There is no endangered red list species found in the study area. Hence this small operation over short period of time will not have any significant impact on the surrounding flora and fauna.

3.7 SOCIO-ECONOMIC ENVIRONMENT

An attempt has been made to assess the impact of the proposed mining project at Padalur (East) Village on Socioeconomic aspect of the study area. The various attributes that have been taken into account are population composition, employment generation, occupational shift, household income and consumption pattern. Implementation of the Proposed Mine Project will generate both direct and indirect employment. Besides, Mining operation will be legally valid and it will bring income to the state exchequer.

4. ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

The main scope of the EIA study is to quantify the cumulative impact in the study area due to cluster quarries and formulate the effective mitigation measures for each individual leases. A detailed account of the emission sources, emissions control equipment, background Air quality levels, Meteorological measurements, Dispersion model and all other aspects of pollution like effluent discharge, Dust generation etc., have been discussed in Chapter 4 of this report.

The project proponent will adopt all the necessary mitigation measures and management plan mentioned in this report and also comply the conditions stipulated in Environmental clearance and CTO of this project.

Anticipated Impacts & Mitigation Measures

Impact	Mitigation Measures
Land Environment	
❖ Destruction of natural landscapes ❖ Changes in soil characteristics ❖ Soil erosion and slope instability ❖ Problems to agricultural land and human habitations due to dust, and noise caused by movement of heavy vehicles.	❖ Rough stone does not produce any toxic effluents in the form of solids, liquids, or gases. ❖ At the end of life of mine, the excavated mine pit / void of 2.15.8 Ha. will act as artificial reservoir for collecting rain water

EXECUTIVE SUMMARY FOR PROPOSED ROUGH STONE QUARRY OF THIRU. R. RAJKUMAR AT S.F.NO. 10/1 (BLOCK-1) OVER AN EXTENT OF 1.50.0 HECTARES AT PADALUR (EAST) VILLAGE, ALATHUR TALUK, PERAMBALUR DISTRICT, TAMIL NADU STATE

	and helps to meet out the demand or crises during drought season. ❖ After mine closure the greenbelt (0.23.0 Ha.) will be developed along the safety barrier and top benches and 0.02 ha are approach road and Infrastructure. ❖ The periphery of the mining lease area will be converted to a greenbelt to prevent Noise and sound propagation to the nearby lands. ❖ Entire mined out area will be properly fenced to prevent inadvertent entry of human and animals. ❖ Construction of garland drains all around the quarry pit and construction of settling traps at strategic location in lower elevations to prevent soil erosion due to surface runoff during rainfall and also to collect the storm water for various uses within the proposed area.
Water Environment	
❖ Impact due to Usage of Water in mines ❖ Generation of waste water from vehicle washing ❖ Domestic sewage ❖ Washouts from surface exposure or working areas ❖ Impact on Surface Water Resources ❖ Impact on Ground water ❖ Impact on Water Quality	❖ Nanthai River is situated at a distance of 4.26 km in north east direction and two tank passing at 600m (S) and 800m in SE direction. No other water bodies close to the project site; there is no proposal for discharging of wastewater outside the project area. ❖ There is no proposal for a rough stone processing or workshop within the project area, so no effluent is anticipated in the mine. ❖ The required water (5.0 KLD) will be sourced initially from outside agencies.

EXECUTIVE SUMMARY FOR PROPOSED ROUGH STONE QUARRY OF THIRU. R. RAJKUMAR AT S.F.NO. 10/1 (BLOCK-1) OVER AN EXTENT OF 1.50.0 HECTARES AT PADALUR (EAST) VILLAGE, ALATHUR TALUK, PERAMBALUR DISTRICT, TAMIL NADU STATE

	Later the rainwater collected in the mine pit sump will be used for this purpose. ❖ Regular water quality will be carried in nearby villages to ensure the water quality is not affected due to the quarrying activities. ❖ Domestic sewage from site office & urinals/latrines provided in project area will be discharged through septic tank followed by soak pit system. ❖ Only clear and settled water free from silt content will be used for dust suppression and greenbelt development. ❖ De-silting will be carried out before and immediately after the monsoon season and the settling tank and drains will be cleaned weekly, especially during monsoons. ❖ The dimension of the rain water harvesting pond will be 12,000 cu.m. The rain water stored in the pond will be utilized for plantation, dust suppression activities.
Air Environment	
❖ Generation of Fugitive Dust ❖ Dust will be generated mainly during excavation, loading & unloading activities. ❖ Reduction in visibility due to dust plumes. ❖ Coating of vegetation leading to reduced photosynthesis. ❖ Inhibited growth, destroying of foliage, degradation of crops; ❖ Increase in health hazards due to inhalation of dust.	❖ Using Wet drilling methods, allowing drilling only with PPE, carrying out blasting only during specified times, avoiding blasting during unfavorable weather conditions, using explosives of good quality, using mist sprayers Regular wetting of transport, Covering the materials carried in tippers with tarpaulin, Proper maintenance of vehicles used for transportation, conducting regular emission tests for vehicles used for transport.

EXECUTIVE SUMMARY FOR PROPOSED ROUGH STONE QUARRY OF THIRU. R. RAJKUMAR AT S.F.NO. 10/1 (BLOCK-1) OVER AN EXTENT OF 1.50.0 HECTARES AT PADALUR (EAST) VILLAGE, ALATHUR TALUK, PERAMBALUR DISTRICT, TAMIL NADU STATE

	❖ Speed restrictions will be imposed to avoid spillage of loaded materials upon the road and to reduce wear and tear of the road. ❖ Weekly inspections of the condition of the access road by competent person employed, and immediate action will be taken to address any potholes or damage to the road surface. ❖ Development of greenbelt is proposed in the safety zone of 10m and 7.5m barriers in the lease area. ❖ Personal Protective Equipment's will be provided to all workers
Noise & Vibration	
❖ The main noise generating source during mining operation and related activities are drilling, excavation, loading, unloading and transportation.	❖ Usage of sharp drill bits while drilling which will help in reducing noise; ❖ Secondary blasting will be totally avoided and hydraulic rock breaker are utilized for breaking boulders; ❖ Controlled blasting with proper spacing, burden, stemming and optimum charge/delay will reduce noise; ❖ The blasting will be carried out during favorable atmospheric condition and less human activity timings by using nonelectrical initiation system; ❖ Proper maintenance, oiling and greasing of machines will be done every week to reduce generation of noise; ❖ Provision of sound insulated chambers for the workers working on machines (HEMM) producing higher levels of noise;

	❖ Green Belt will be developed around the project areas and along the haul roads. The plantation minimizes propagation of noise; ❖ Personal Protective Equipment (PPE) like ear muffs/ear plugs will be provided to the operators of HEMM and persons working near HEMM and their use will be ensured through training and awareness. ❖ Regular medical check-up and proper training to personnel to create awareness about adverse noise level effects.
Ground Vibration	
❖ The vibration due to blasting can cause damage to the nearby structures if appropriate technology and control measures are not adopted in the blasting operation. ❖ Fly rock is another possible damage causing outcome of blasting.	❖ Proper quantity of explosive, suitable stemming materials and appropriate delay system should be adopted to avoid overcharging and for safe blasting; ❖ Adequate safe distance from blasting should be maintained as per DGMS guidelines; ❖ Blasting shelter should be provided as per DGMS guidelines; ❖ Blasting operations shall be carried out only during day time; ❖ The charge per delay shall be minimized and preferably more number of delays will be used per blasts; ❖ During blasting, other activities in the immediate vicinity shall be temporarily stopped; ❖ Drilling parameters like depth, diameter and spacing will be properly designed to give proper blast;

EXECUTIVE SUMMARY FOR PROPOSED ROUGH STONE QUARRY OF THIRU. R. RAJKUMAR AT S.F.NO. 10/1 (BLOCK-1) OVER AN EXTENT OF 1.50.0 HECTARES AT PADALUR (EAST) VILLAGE, ALATHUR TALUK, PERAMBALUR DISTRICT, TAMIL NADU STATE

	❖ Blasting will be carried out under the supervision of statutory persons as approved by DGMS. ❖ A well-defined SOP will be framed under the leadership of top management and the same will be followed for each blasting. ❖ Regular PPV monitoring will be carried out to ensure PPV limits i.e., 0.5 mm/s.
Biological Environment	
❖ Direct impacts include land clearance and excavation causing destruction of flora and fauna and loss of habitats. ❖ Indirect impacts include habitat degradation due to noise, dust, and human activity.	❖ Only some common herbs, shrubs and grass will be cleared. So, there will be no impact on the biodiversity. ❖ Green belt development with suitable species will enhance the biodiversity of the project area. ❖ The core zone or buffer zone does not encompass any threatened flora or fauna species.
Socio-Economic Environment	
❖ Health and safety of workers and the general public. ❖ Increase in traffic volumes and sizes of road vehicles. ❖ Economic issues, including the increase in employment opportunities.	❖ Around 30 local workers will get employment opportunities along with periodical training to generate local skills. ❖ Mine management will contribute for the upliftment of these villages by conducting regular medical camps, assistance in developing necessary infrastructure facilities like maintenance of schools, village roads, drinking water supply, etc.
Occupational Health & Safety	

EXECUTIVE SUMMARY FOR PROPOSED ROUGH STONE QUARRY OF THIRU. R. RAJKUMAR AT S.F.NO. 10/1 (BLOCK-1) OVER AN EXTENT OF 1.50.0 HECTARES AT PADALUR (EAST) VILLAGE, ALATHUR TALUK, PERAMBALUR DISTRICT, TAMIL NADU STATE

❖ Exposure to Dust ❖ Noise and Vibration Exposure ❖ Physical Hazards ❖ Respiratory hazards due to Dust exposure	❖ Provision of rest shelters for mine workers with amenities like drinking water etc. ❖ All safety measures like use of safety appliances, such as dust masks, helmets, shoes, safety awareness programs, awards, posters, slogans related to safety etc. ❖ Training of employees for use of safety appliances and first aid in vocational training center. ❖ Weekly maintenance and testing of all equipment as per manufacturers' guidelines. ❖ Pre placement and Yearly Medical Examination of all workers by a medical Officer. ❖ First Aid facility will be provided at the mine site. ❖ Close surveillance of the factors in working environment and work practices which may affect environment and worker's health by the mine's manager employed. ❖ Working of mine as per approved mining plan and environmental plans.
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5. ANALYSIS OF ALTERNATIVES

There are no alternatives suggested as the proposed mining area has the following advantages:

- ❖ The mineral deposit occurs in a non-forest area.
- ❖ There is no habitation within the applied lease area; hence, no R & R issues exist.
- ❖ There is no river, stream, nallas and water bodies in the or passing through the applied mine lease areas.
- ❖ Mine connectivity through road and rail is good.
- ❖ The proposed mining operations do not intersect the ground water level. Hence, no impact on ground water environment.

6. ENVIRONMENTAL MONITORING PROGRAM

Environmental Monitoring program will be conducted for various environmental components as per conditions stipulated in Environmental Clearance Letter issued by SEIAA & Consent to Operate issued by TNPCB. Post project monitoring program is detailed in Chapter 6.

PP will supervise the overall environmental management plan of the project during operation. The capital cost of Rs. .14 Lakhs and the recurring cost of Rs. 10.83 Lakhs have been allocated under the EMP budget which includes Environmental Monitoring Cost.

7. ADDITIONAL STUDIES

Risk Analysis & Disaster Management Plan

The methodology for the risk assessment has been based on the specific risk assessment guidance issued by the Directorate General of Mine Safety (DGMS). The DGMS risk assessment process is intended to identify existing and probable hazards in the work environment and all operations and assess the risk levels of those hazards in order to prioritize those that need immediate attention.

Further, mechanisms responsible for these hazards are identified and their control measures set to time table are recorded along with pinpointed responsibilities. In the

unlikely event that a consequence has occurred, disaster management kicks in. This includes instituting procedures pertaining to a number of issues such as communication, rescue, and rehabilitation. These are addressed in the disaster management plan. Both, the RA and DMP, are living documents and need to be updated whenever there are changes in operations, equipment, or procedures. Assessment is all about preventing accidents and taking necessary steps to prevent it from happening.

The Disaster Management Plan (DMP) is a guide, giving general considerations, directions, and procedures for handling emergencies likely to arise from planned operations. The DMP has been prepared on the basis of the Risk Assessment and related findings covered in the report.

Terms of Reference with Public Hearing (ToR) for the project was issued vide ToR Identification No. TO25B0108TN5921018N dated 30.07.2025. Now, this Draft EIA / EMP Report is prepared for conducting Public Hearing as the project falls under B1 Category.

Although the individual lease area of this project is less than 5 Ha, the three existing quarries and this proposed quarries within the 500m radius works out to >5 Ha. A Cumulative impact study is conducted to determine the impact of the existing and proposed quarries located within 500m radius on the environment and are detailed in Section 7.4.

Cumulative Impact Study

The baseline monitoring conducted for this project reflects the cumulative impact of the existing quarry and impact of this proposed project on air environment do not exceed the permissible limits set by CPCB for air pollution.

The existing project (Thiru. M. Baskaran) provided employment opportunities for 15 people and this proposed will provide direct employment opportunities for 30 people.

This proposed project has allocated Rs. 5.0 Lakhs as the CER budget.

8. PROJECT BENEFITS

Financial benefits

- This project will contribute financially through payment of taxes like royalty, GST, etc
- The project will also contribute via CSR.
- The demands of people during public hearing will also be considered by the project proponent

Social benefits

- This project provides employment to 30 people directly. Local people will be hired for unskilled labour.
- Through CSR, nearby schools, hospitals will be benefitted.

9. CONCLUSION

EIA study was performed as per the approved ToR. Various environmental attributes were studied relating with aspects of mining activities. The related impacts were identified and evaluated. Considering all the possible ways to mitigate the environmental concerns, Environmental Management Plan was prepared and accordingly fund was allocated. The EMP has been dynamic, flexible and subject to periodic review.

The project will increase the revenue of the State Govt. as well as it will help in the social upliftment of the local community. The green belt development programme will help in increasing the green cover in the area. Thus, the proposed project is not likely to affect the environment or adjacent ecosystem adversely.

The Mine Management will be responsible for the project review of EMP and its implementation to ensure that the EMP remains effective and appropriate. Thus, the proper steps will be taken to accomplish all the goals mentioned in the EMP and the project will bring the positive impact in the study area.



ANNEXURE-1

Rc.No.123/G&M/2025, Dated:09.04.2025

Department of Geology & Mining,
Collectorate,
Perambalur - 621212

PRECISE AREA COMMUNICATION LETTER



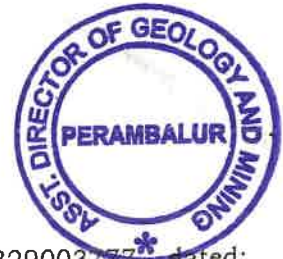
Sub : Mines and Minerals - Perambalur District - Rough Stone - e-Tender cum auction conducted on 27.03.2025 under Tender ID: 2025_CGAM_525779_1 - Thiru.R.Rajkumar (BID ID:1270716) quoted highest Bid amount (H1) For the quarry listed in Serial Number 23 - Declared as H1 bidder - H1 Bid Amount remitted - Solvency Certificate submitted - Precise Area Communicated - Reg.

Ref: 1. G.O.(Ms).No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024
2. Perambalur District Gazette(Extraordinary) Notification No.1, dated:18.02.2025.
3. E-Tender published under Tender ID:2025_CGAM_525779_1 in Tamil Nadu Governmente-tender portal.
4. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.123/G&M/2025, dated:28.03.2025 (to remit 10% of highest bid amount)
5. Remittance challan No. 20250329003777 dated:01.04.2025 submitted by Thiru. R.Rajkumar (BID ID:1270716).
6. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.123/G&M/2025, dated 01.04.2025 (to remit remaining 90% of the bid amount)
7. Remittance challans dated. 03.04.2025 submitted by Thiru. R.Rajkumar(BID ID:1270716).
8. Solvency Certificate No.TN-1720250403108, dated 05.04.2025 submitted by Thiru. R.Rajkumar(BID ID:1270716).

I invite your attention to the references cited above

Notice Inviting Tender (NIT) was published vide Perambalur District Gazette Extraordinary Notification No.1, dated.18.02.2025, inviting applications for grant of rough stone quarry leases in Government poramboke lands in Perambalur District through e-Tender cum Auction. Online tender was published in Tamil Nadu Government e-tender portal (<https://tntenders.gov.in/>) under Tender ID:2025_CGAM_525779_1 and e-Auction was conducted 27.03.2025 for bidders whos' bids were qualified technically and financially.

After Financial Evaluation, Thiru. R.Rajkumar(BID ID:1270716) was declared as H1 bidder for the quarry listed in Serial Number 23 of the Gazette as he quoted highest bid amount of Rs.4,29,00,000/- for the said quarry. The H1 bidder was directed to remit 10% of the Highest bid amount vide notice in the reference 4th cited and accordingly, the H1 bidder has remitted 10% of the bid amount to a sum of Rs.



42,90,000/- and submitted remittance challan No. 20250329003777 dated: 01.04.2025 to this office.

Subsequently, Thiru.R.Rajkumar(BID ID:1270716) was directed to remit the remaining 90% of Highest bid amount after adjusting the Bid Security already paid by him within one month to Government head of account and to submit original remittance challan to this office. The H1 bidder was also directed to submit a solvency certificate of immovable properties for a value not less than 20% of the bid amount within one month as required under sub- rule (16)(B)(ii)(I) of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959.

Accordingly, Thiru. R.Rajkumar(BID ID:1270716) has remitted Rs.3,23,67,263/- after deducting Rs. 62,42,737/-(the Bid Security amount already paid by the bidder) in Government account within one month and submitted remittance challans to this office. The H1 bidder has also submitted a solvency certificate to value of Rs. 1,00,00,000/- within one month.

The details of H1 Bidder for the quarry listed in Serial No.23 of the District Gazette, H1 Bid Amount offered and remittance of Bid amount by bidder are as follows.

1.	Quarry Detail	
	Serial No. in District Gazette No.01, dated 18.02.2025.	23
	Taluk	Alathur
	Village	Padalur (East)
	S.F.No.	10/1 (Block 1)
	Extent	1.50.0 Hectares
	Lease Period	5 Years
2.	H1 Bidder, Bid Amount Remittance	
	H1 Bidder	Thiru. R.Rajkumar (BID ID:1270716) S/o. Rajaram, No. 4C, 4 th floor, Sivam Sri Madhav, Kuttimani Nagar, Pichandar kovil, Trichy-621 216.
	H1 Bid Amount	Rs.4,29,00,000/-
	10% of H1 bid amount remitted	42,90,000/- (Challan No. 20250329003777 dated: 01.04.2025)
	Bid Security (EMD) already remitted	Rs.62,42,737/-
	90% of bid amount paid after adjusting Bid Security already paid	Rs.3,23,67,263/- (Challan No. 20250403012000, dated 03.04.2025 Challan No. 20250403011855, dated 03.04.2025 Challan No. 20250403011576, dated 03.04.2025 Challan No. 20250403011697, dated 03.04.2025)
3.	Solvency Certificate Details	
	Certificate No.	TN-1720250403108
	Date	05.04.2025
	Value	Rs. 1,00,00,000/-
	Issued by	Tahsildar, Mannachanallur Taluk, Tiruchirappalli District.



The H1 Bidder, Thiru. R.Rajkumar(BID ID:1270716) has remitted entire H1 Bid Amount of Rs.4,29,00,000/- in Government account and also submitted solvency certificate to value of Rs.1,00,00,000/- which is more than the 20% of bid amount within one month as per sub- rule 16 of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959

Therefore, in exercise of the powers conferred under sub rule 17(a) of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959, an extent of 1.50.0 hectares of Government land in S.F.No.10/1 (Block 1) of Padalur (East) Village, Alathur Taluk, Perambalur District as notified in Serial Number.23 of the Perambalur District Gazette (Extraordinary) Notification No.1, dated: 18.02.2025 is hereby fixed as Precise Area for grant of permission to quarry Roughstone for a period of 5 years to Thiru.R.Rajkumar (BID ID:1270716), subject to the following conditions

1. 10 meters safety distance should be left out for the adjacent Government lands.
2. The applicant shall not make any hindrance to the adjacent lands and public.
3. The applicant should submit approved Mining Plan, Environment Clearance and Consent to Establish (CTE) & Consent to Operate (CTO) issued by competent authorities for grant of quarrying lease in the subject area.

The applicant Thiru.R.Rajkumar(BID ID:1270716) is directed to submit draft Mining Plan for the above area within 90 days for the approval of the Assistant Director, Geology and Mining, Perambalur and to submit Environment Clearance obtained from SEIAA, Tamil Nadu and CTE & CTO issued by the Tamil Nadu Pollution Control Board subsequently for further action.

Encl: Map showing the proposal lease area.

[Signature]
Assistant Director,
Geology and Mining,
Perambalur.

To
Thiru. R.Rajkumar (BID ID:1270716)
S/o. Rajaram,
No.4C, 4th floor,
Sivam Sri Madhav,
Kuttimani Nagar,
Pichandar kovil,
Trichy-621 216.
Copy to:

1. The Chairman,
SEIAA Level Environment Impact Assessment Authority,
Panagal Maligai, Saidapet,
Chennai.
2. The Commissioner of Geology and Mining, Chennai-32.



ANNEXURE-2

From

Thiru D.Bernard, M.Sc.,
Assistant Director,
Geology and Mining,
Perambalur.

To

Thiru.R.Rajkumar,
S/o. Rajaram,
No.4C/, 4th floor, Sivam Sri Madhav,
Kuttimani Nagar,
Pchindar Kovil,
Trichy - 621 216.

Rc.No.123/G&M/2025, **Dated: 23.04.2025**

Sir,

Sub: Mines and Minerals - Perambalur District - Rough Stone - e-Tender cum auction conducted for Roughstone quarries in Government lands - Thiru.R.Rajkumar quoted highest Bid amount (H1) For the quarry in S.F.No. 10/1 (Block 1), OAE of 1.50.0 hectares in Padalur (East) Village, Alathur Taluk - Declared as H1 bidder - H1 Bid Amount remitted - Precise Area Communicated - Draft Mining Plan submitted for approval - Approved - Reg.

- Ref:
1. G.O.(Ms). No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024
 2. Perambalur District Gazette(Extraordinary) Notification No.1, dated:18.02.2025.
 3. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.123/G&M/2025, dated:28.03.2025
 4. The Assistant Director, Geology and Mining, Perambalur Precise Area Communication letter Rc.No.123/G&M/2025, dated 09.04.2025.
 5. Thiru.R.Rajkumar, S/o. Rajaram letter dated 15.04.2025.

Tender cum Auction for grant of Roughstone quarries in Government lands notified in Perambalur District Gazette Extraordinary Notification No.1, dated.18.02.2025 was conducted through online as per Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959.

Thiru.R.Rajkumar, S/o. Rajaram was declared as Highest Bidder for the quarry in S.F.No. 10/1 (Block 1), to an extent of 1.50.0 hectares in Padalur (East) Village, Alathur Taluk, Perambalur District and the lease period proposed for the subject quarry is 5 years. The Highest Bidder, Thiru.R.Rajkumar remitted entire highest bid amount and other statutory documents in time in accordance with rules and in the reference, 4th cited, precise area was communicated to him with a request to submit Mining Plan for the approval of the Assistant Director, Geology and Mining, Perambalur District and Environmental Clearance obtained from SEIAA for further process.

Accordingly, in the reference 5th cited, the successful bidder has submitted 3 copies of Draft Mining Plan prepared by Qualified Person for the above area. The draft Mining Plan submitted by Thiru.R.Rajkumar, has been scrutinized as per extant rules and guide lines / instructions issued by the Commissioner of Geology and Mining, Chennai in the letter Rc.No.3868/LC/2012 dated.19.11.2012. The following observations were made in scrutiny.

- a. 10-meter safety distance is earmarked for the adjoining Government lands.
- b. The Geological reserve of Roughstone in the subject area has been assessed as 17,24,813 metric tonnes.
- c. The mineable reserve has been computed as 8,59,664 metric tonnes of Roughstone up to a depth of 56m (26m AGL + 30m BGL).
- d. The lease period of the subject Roughstone quarry is 5 years and it has been proposed for the production of 8,59,664 metric tonnes of Roughstone up to a depth of 56m (26m AGL + 30m BGL) in the mining plan in five years.
- e. The depth of water table in the subject area is reported as 67m BGL and workable depth has been proposed to 30m BGL in the mining plan. Hence, the quarrying operation will not affect the water table in the area.
- f. Drilling and blasting using jack hammers and shot hole blasting are proposed. Small dia, 25mm slurry explosives are proposed to be used for shattering and heaving effect for removal and winning of Roughstone. No deep hole drilling or primary blasting is proposed.
- g. It has been proposed to adopt controlled blasting measures for minimizing ground vibration and fly rocks.
- h. Machineries like Tractor mounted compressor attached with Jack hammers, excavators with rock breaker attachment are proposed for quarrying operation. Tippers of 5/10 Tons capacity are proposed for transportation.

4) The Mining Plan is prepared in accordance with the guidelines / instructions issued and tallies with the field conditions. The special conditions imposed in the precise area communication letter have been incorporated in the Mining Plan. Therefore, the draft mining plan is hereby approved subject to the following conditions.

- i. That the Mining Plan is approved without prejudice to any other laws applicable to the quarry area from time to time whether made by the Central Government, State Government or any other authority.
- ii. That the approval of the Mining Plan does not in any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Regulations and Development) Amendment Act 2015 or Mineral (other than

Atomic and Hydrocarbon Energy Minerals) concession Rules 2016, or Tamil Nadu Minor Mineral Concession Rules, 1959 or any other laws including Forest (Conservation) Act 1980, Forest Conservation Rule, 1981, Environment Protection Act, 1980 and the rules made there under.

- iii. That the Mining plan is approved without prejudice to any other order or directions from any court of competent jurisdiction.
- iv. That the approval of Mining Plan does not confer any rights for the renewal of quarry lease.
- v. The approval is valid up to the subsistence of the lease period only.

Encl: 2copies of approved Mining Plan.

[Signature]
22/04/25
Assistant Director,
Geology and Mining,
Perambalur.

Copy to:

1. The Chairman,
SEIAA Level Environment Impact Assessment Authority,
PanagalMaligai, Saidapet,
Chennai.
2. The Commissioner of Geology and Mining, Chennai-32.

[Signature]
23/4/24



ANNEXURE-3

From

Thiru D.Bernard, M.Sc.,
Assistant Director,
Dept of Geology and Mining,
Perambalur.

To

Thiru.R.Rajkumar,
S/o. Rajaram,
No.4C/, 4th floor, Sivam Sri
Madhav, Kuttimani Nagar,
Pchindar Kovil,
Trichy – 621 216.

Rc.No.123/G&M/2025

Dated : 16.06.2025

Sub: Mines and Minerals - Perambalur District - Rough Stone - e-Tender cum auction conducted for Roughstone quarries in Government lands - Thiru.R.Rajkumar S/o Rajaram quoted highest Bid amount (H1) For the quarry in S.F.No. 10/1 (Block 1), OAE of 1.50.0 hectares in Padalur (East) Village, Alathur Taluk -Declared as H1 bidder - H1 Bid Amount remitted - Precise Area Communicated - Draft Mining Plan submitted for approval - Details of quarries situated within 500 mts radial distance requested - furnished - Reg.

- Ref:
1. G.O.(Ms). No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024
 2. Perambalur District Gazette (Extraordinary) Notification No.1, dated: 18.02.2025.
 3. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.123/G&M/2025, dated: 28.03.2025
 4. The Assistant Director, Geology and Mining, Perambalur Precise Area Communication letter Rc.No.123/G&M/2025, dated 09.04.2025.
 5. Thiru. R.Rajkumar S/o Rajaram letter dated 15.04.2025.

The applicant Thiru.R.Rajkumar S/o Rajaram, Perambalur in the reference 5th cited has requested to provide the details of quarries situated within 500 mts radius distance from the proposed lease area referred in the subject.

Accordingly, the details of quarries (existing, proposed, expired, abandoned) situated within 500 mts radial distance from the subject area are furnished below,

1) Existing quarries:

Sl. No	Name of the Owner	Taluk / Village	S.F.Nos.	Extent	GO. No	Lease Period	Remarks
1.	M.Baskaran, S/o.MuthuRediyar Thiruvalakuruchi, Padalur (East) Village, AlathurTaluk, Perambalur District.	Alathur, Padalur (E)	1/7F(P), 1/7G(P) ,1/3(P) etc	1.33.0	Rc.No.9 6/2021 /Mines dated 23.05.2 024	23.08.202 4 to 22.08.203 4	Working

2) Proposed quarries:

Sl. No	Name of the Owner	Taluk / Village	S.F.Nos.	Extent	Lease Period	Remarks
1	Thiru. R.Rajkumar S/o. Rajaram, No.4C, 4 th floor, Sivam Sri Madhav, Kuttimani Nagar, Pichandar kovil, Trichy-621 216.	Alathur/ Padalur (East)	10/1 (Block 1)	1.50.0	-	Instant Proposal
2	Thiru.M.Thangaraj S/o. Maran, No.158/34A, Abiramapuram west, Collector Office Road, Perambalur -621 212.	Alathur/ Padalur (East)	10/1 (Block 5)	2.10.0	-	Presently proposed
3	Thiru.Hariharan. L No. 9, Dhanalakshmi Street Postal Nagar, Nemilicheri Chrompet, Kancheepuram District - 600 044.	Alathur/ Padalur (East)	10/1 (Block 2)	1.40.6	-	Presently proposed
4	Thiru.P.Velmurugan No.1, Royal mahalakshmi Nagar, Virudhachalam, Cuddalore -606 001.	Alathur/ Padalur (East)	10/1 (Block 3)	1.40.0	-	Presently proposed
5	M/s. Rajamalai Metals No. 3/350 H, Jeya Complex, Main Road, Padalur, Perambalur-621 109.	Alathur/ Padalur (East)	10/1 (Block 4)	1.40.0	-	Presently proposed
6	M/s.SR Mines and Minerals Flat No.2/1, Room No.4,Ramanujam Building,V.N Nagar, Karur Bibass Road, Trichy-620002.	Alathur/ Padalur (East)	10/1 (Block 6)	2.20.0	-	Presently proposed
7	M/s.Mars Mines No.24/7, Padalur East, Alathur Taluk, Perambalur -621 109.	Alathur/ Padalur (East)	10/1 (Block 7)	1.30.0	-	Presently proposed

8	Thiru.Vinoth R 44/4 Subbramaniyan Kovil street, Tittakudi, Cuddalore District-606 106.	Alathur/ Padalur (East)	10/1 (Block 8)	1.20.0	-	Presently proposed
9	M/s.Anjancyya Minerals No.3/379J, Ward -08, Main Road, Irur, Alathur Taluk, Perambalur District - 621 109.	Alathur/ Padalur (East)	10/1 (Block 9)	1.20.0	-	Presently proposed
10	Thiru.P.Velmurugan No.1, Royal mahalakshmi Nagar, Virudhachalam, Cuddalore -606 001.	Alathur/ Padalur (East)	10/1 (Block 13)	1.00.0	-	Presently proposed

3) Expired quarries

Sl. No	Name of the Owner	Taluk / Village	S.F.Nos.	Extent	Lease Period	Remarks
1	Nil					

4) Abandoned quarries:

Sl. No	Name of the Owner	Taluk /Village	S.F.Nos.	Extent	Lease period	Remarks
1	M.Baskaran, S/o.MuthuRediyar Thiruvalakuruchi, Padalur (East) Village, AlathurTaluk, Perambalur District.	Padalur(E) Alathur	4(1)(P),4(2)(P)7(3)(P)	2.00.0	24.01.2018 to 23.01.2023	Further grant of quarry lease is not feasible in these areas.
2	K.Mathiyalagan, S/o.Kanagasabi, State Bank Colony, Kumbakonam.	Padalur(E) Alathur	10/1 Block No.18	1.00.0	23.05.2007 to 22.05.2017	
3	B.Senthilkumar, S/o.P.Balagopal, 454,4 th Cross Road, Shanmugam Nagar, Uiyakondam, Thirumalai, Trichirappalli.	Padalur(E) Alathur	10/1 (Part)	1.00.0	12.04.2006 to 11.04.2016	
4	M.Ravi, S/o.Muthukrishnan, No2/78, Malaiyadivaram, Chettikulam Post, Kunnam TK,Perambalur District.	Padalur(E) Alathur	10/1 Block No.20	1.00.0	11.05.2007 to 10.05.2017	
5	V.Panneerselvam, S/o.Veerasingam, South Street, Thennamanadu	Padalur Perambalur	10/1 ,Block 22	1.00.0	31.05.2011 to 30.05.2021	

	Post, Orathanadu Taluk, Thanjavur District.					
6	R.Sureshbabu, S/o.V.Rajagopal, No.244, Philomina Nagar, 3 rd Street, Nanjikottai Road, Thanjavur.	Padalur(E) Alathur	10/1 Block 17	1.00.0	23.05.2007 to 22.05.2017	

[Signature]
 Assistant Director,
 Geology and Mining,
 Perambalur.

[Signature]
 16/06/25