Application Form (Draft EIA Report)

For

Proposed Rough Stone and Gravel Quarry – 3.76.67 Ha

at

S. F Nos. 70/4A & 70/5B in Midithepalli Village of Shoolagiri Taluk, Krishnagiri District,

Tamil Nadu State

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

Category of the Project: B1 Cluster Mining

Baseline Period: April 2025 - June 2025

Environmental Consultant & Laboratory details: Ecotech Labs Pvt Ltd,





No 48, 2nd Main road, South extension Ram Nagar, Pallikaranai, Chennai -600100. **Proponent details:** M/s. R. K. M Sand and Aggregates,

Proprietor:

Thiru.Ravikumar, Villa No.126, Adarsh Palm, Retreat Villas, Devarabisanahalli,

Bangalore,

Karnataka - 560 103.

Date:

From

M/s.R.K.M Sand and Aggregates,

Proprietor: Thiru.Ravikumar, Villa No.126, Adarsh Palm, Retreat Villas, Devarabisanahalli, Bangalore, Karnataka – 560 103.

To

The District Environmental Engineer

Tamilnadu Pollution Control Board, Plot No:140A, SIPCOT Industrial Complex, Hosur, Krishnagiri – 635 126.

Sir,

Sub: Request to conduct Public Hearing – Environmental Clearance for the "M/s.R.K.M Sand and Aggregates Rough Stone and Gravel Quarry" over a total extent of 3.76.67 Ha at S. F. Nos. 70/4A & 70/5B in Midithepalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu – Reg

Ref: ToR Identification No. TO25B0108TN5423420N Dated: 13.05.2025

Please find enclosed herewith the application of Draft EIA Report along with necessary enclosures towards seeking environmental clearance for the M/s.R.K.M Sand and Aggregates Rough Stone and Gravel Quarry" over a total extent of 3.76.67 Ha at S. F. Nos. 70/4A & 70/5B in Midithepalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu. In this regard, we had obtained the Terms of Reference from State Environmental Impact Assessment Authority (SEIAA) TamilNadu; vide reference mentioned above for conducting EIA studies. We wish to inform that the draft EIA report complying with all the conditions mentioned in the TOR has been prepared and the copies of the same are enclosed with this letter. With reference to the above, we kindly request the TNPCB to make the necessary arrangements for Conducting the Public hearing for the Rough Stone Quarry. With the above, we request the TNPCB to accept and process our application for conducting the Public Hearing at the earliest.

Thanking you Yours Sincerely

Authorized Signatory

Enclosures: Draft EIA report

M/s. R.K.M Sand and Aggregates,

Proprietor: Thiru.Ravikumar,

Villa No.126, Adarsh Palm,

Retreat Villas, Devarabisanahalli,

Bangalore, Karnataka – 560 103.

UNDERTAKING

We, M/s.R.K.M Sand and Aggregates, undertaking that the Draft Environmental Impact

Assessment (EIA) Report for Rough Stone and Gravel Quarry over an extent of 3.76.67 Ha at

S.F.No. 70/4A & 70/5B of Midithepalli Village, Shoolagiri Taluk, Krishnagiri District,

Tamilnadu State under project category B1 and Schedule S.No.1(a)

ToR issued by the State Expert Appraisal Committee, TN vide ToR Identification No.

TO25B0108TN5423420N Dated: 13.05.2025

I, hereby assure that all the information and data provided in the EIA report is accurate, true and

correct and owns responsibility for the same.

Place: Krishnagiri

Yours faithfully

Date:

For M/s. R.K.M Sand and Aggregates,

Plot No.48A, 2nd Main Road, Ram Nagar, South Extension, Pallikkaranai, Chennai - 600 100 GST NO. 33AADCE6103A2ZH PAN NO. AADCE6103A



Cell No. 98400 87542
Email: info@ecotechlabs.in
Website: www.ecotechlabs.in
CIN: U74900TN2014PTC094895

UNDERTAKING

I, Dr. A. Dhamodharan, Managing Director, confirms that this Draft EIA Report of Rough Stone and Gravel Quarry over an extent of 3.76.67 Ha at S.F.No. 70/4A & 70/5B of Midithepalli Village, Shoolagiri Taluk, Krishnagiri District, Tamilnadu State has been prepared at M/s. Ecotech Labs Pvt. Ltd., Chennai.

I also confirm that I shall be fully accountable for any miss-leading information mentioned in this Report.

Signature:

Name: Dr. A. Dhamodharan

J-Dlamin

Designation: Managing Director

Name of the EIA Consultant Organization: M/s. Ecotech Labs Pvt Ltd., Chennai.

NABET Certificate No: NABET/EIA/25-28/RA 0400

Date: Place: Chennai

Declaration of Experts contributing to the EIA

Declaration by experts contributing to the EIA report for Rough Stone and Gravel Quarry (minor mineral) mining project of M/s.R.K.M Sand and Aggregates Rough Stone and Gravel Quarry over a total extent of 3.76.67 Ha at S.F.No. 70/4A & 70/5B of Midithepalli Village, Shoolagiri Taluk, Krishnagiri District, Tamilnadu State.

I, hereby certify that I was a part of the EIA team in the following capacity that developed the above EIA.

Project	New Rough Stone and Gravel Quarry – 3.76.67 Ha
Type & Category	1 (a) Mining of Minerals
	M/s.R.K.M Sand and Aggregates,
Project Proponent	Proprietor: Thiru.Ravikumar
Environment	M/s. Eco Tech Labs Pvt. Ltd.,
Consultant with their	QCI Accreditated
Accreditation Status	
NABET Certificate	NABET/ EIA/25-28/ SA 0400
No.	NADL1/ LIA/25-20/ 5A 0400
EIA Coordinator	Dr. A. Dhamodharan (Mining of Minerals)
Name	A-D Jamin
	19-0) Karal
Signature	
Period of Involvement	April 2025 to June 2025
	M/s. Eco Tech Labs Pvt. Ltd.
	No. 48, 2nd Main Road,
Contact Information	Ram Nagar South Extension
-	Pallikaranai, Chennai - 600 100
	Mobile: +91 9789906200
	E-mail: dhamo@ecotechlabs.in

Functional Area Experts

The basic fact division that environment and laboratory are accredited by NABL and Ministry of Environment and Forests, India and by other international bodies, stand testimony to its emphasis.

S. No.	Functio nal areas	Name of the experts	Involvement (period and task)	Signature and date
1	AP	Mrs. K. Vijayalakshmi	 Selection of Baseline Monitoring stations based on the wind direction. Interpretation of Baseline data by comparing it with standards prescribed by CPCB against the type of area. Identification of sources of air pollution and suggesting mitigation measures to minimize impact. Period: March 2022 – Till now 	c. A. F.
2	WP	Dr. A. Dhamodharan	1. Selection of baseline Monitoring Locations for Ground water analysis and also identifying nearest surface water to be studied. 2. Interpretation of baseline data collected 3. Identification of impacts based on the baseline study conducted and also to the ground water and nearby surface water due to the proposed project 4. Preparation of suitable and appropriate mitigation plan. Period: March 2022 – Till now	A-Damin
3	SHW	Dr. A. Dhamodharan	1. Identification of nature of solid waste generated 2. Categorization of the generated waste and estimating the quantity of waste to be generated based on the per capita basis. Identification of impacts of SHW on Environment 3. Suggesting suitable mitigation measures by recommending appropriate disposal method for each category of waste generated 4. Top soil and refuse management <i>Period: March 2022 – Till now</i>	J- Manily

4	SE	Mr. S. Pandian	1. Primary data collection through the census questionnaire 2. Obtaining Secondary data from authenticated sources and incorporating the same in EIA report. 3. Impact assessment & proposing suitable mitigation plan 4. CSR budget allocation by discussing with the local body and allotting the same for need based activity. Period: March 2022 – Till now *INVOLVES PUBLIC HEARING	Danning
5	EB	Dr. A. Dhamodharan	1. Primary data collection through field survey and sheet observation for ecology and biodiversity 2. Secondary Collection through various authenticated sources 3. Prediction of anticipated impacts and suggesting appropriate mitigation measures. Period: March 2022 – Till now	A-Dlomin
6	HG	Dr. T. P. Natesan	1. Study of existing surface drainage arrangements in the core and buffer zone, impact due to mining on these drainage courses and suggestion of mitigative measures 2. Determination of groundwater use pattern, development of rainwater harvesting program. Storm water management through garland drainage system. Period: March 2022 – Till now	(1) NG 1-1
7	GEO	Dr. T. P. Natesan	1. Field survey for assessing regional and local geology, aquifer distribution, Determination of groundwater use pattern, development of rainwater harvesting program. Period: March 2022 – Till now	(n) ~

8	SC	Dr. A. Dhamodharan	1. Interpretation of baseline report 2. Identification of possible impacts on soil, prediction of soil conservation and suggesting suitable mitigation measures. Period: March 2022 – Till now	A-Damin
9	AQ	Mrs. K. Vijayalakshmi	 Collection of Meteorological data for the baseline study period Plotting wind rose plot and thereby selecting the monitoring locations based on the wind pattern Estimation of sources of air emissions and air quality modeling is done Interpretation of the results obtained Identification of the impacts and suggesting suitable mitigation measures. Period: March 2022 – Till now 	c. Sp. F.
10	NV	Mrs. K. Vijayalakshmi	 Selection of monitoring locations Interpretation of baseline data Prediction of impacts due to noise pollution and suggestion of appropriate mitigation measures Period: May 2022 – Till now 	Kier
11	LU	Dr. T. P. Natesan	 Collection of Remote sensing satellite data to study the land use pattern. Primary field survey and limited field verification for land categorization in the study area Preparation of Land use map using Satellite data for 10km radius around the project site. Period: March 2022 – Till now 	
12	RH	Mrs. K. Vijayalakshmi	 Identification of the risk Interpreting consequence contours Suggesting risk mitigation measures Period: March 2022 – Till now 	Kieir

Declaration by the Head of the accredited consultant organization/ authorized person

I, Dr. A. Dhamodharan, hereby confirm that the above-mentioned experts prepared the EIA report of mining project at S.F.No. 70/4A & 70/5B of Midithepalli Village, Shoolagiri Taluk, Krishnagiri District, Tamilnadu State

I also confirm that the consultant organization shall be fully accountable for any misleading information mentioned in this statement.

Signature:

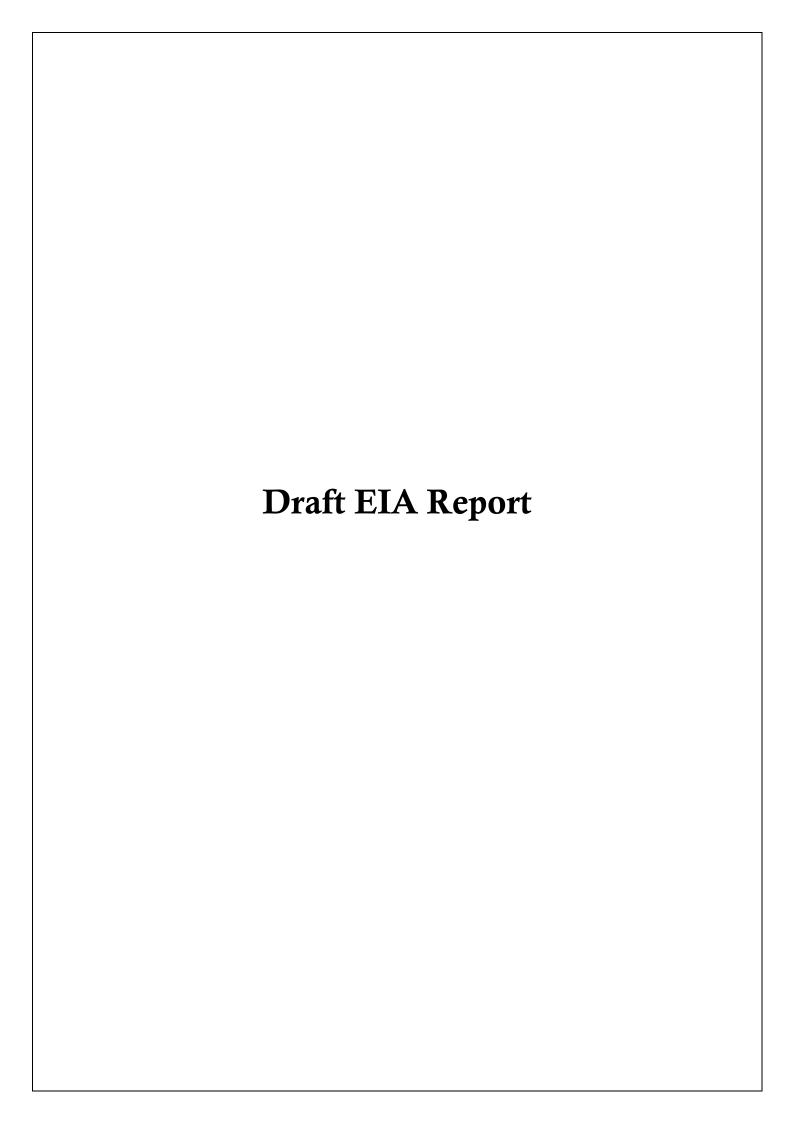
Name: Dr.A. Dhamodharan

Designation: Managing Director

Name of the EIA consultant organization: M/s. Eco Tech Labs Private Limited

NABET Certificate No: NABET/ EIA/25-28/ RA 0400

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Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	•

CONTENTS

	EXI	ECUTIVE SUMMARY	. 13
1	INT	TRODUCTION	. 33
	1.1	PREAMBLE	. 33
	1.2	GENERAL INFORMATION ON MINING OF MINERALS	. 33
	1.3	ENVIRONMENTAL CLEARANCE	. 34
	1.4	TERMS OF REFERENCE (TOR)	. 35
	1.5	POST ENVIRONMENTAL CLEARANCE MONITORING	. 35
	1.5.	1 METHODOLOGY ADOPTED	. 35
	1.6	GENERIC STRUCTURE OF THE EIA DOCUMENT	. 35
	1.7	DETAILS OF PROJECT PROPONENT	. 37
	1.8	BRIEF DESCRIPTION OF THE PROJECT	. 37
	1.8.	1 PROJECT NATURE, SIZE & LOCATION	. 37
2	PR	OJECT DESCRIPTION	. 39
	2.1	GENERAL	. 39
	2.1.	1 NEED FOR THE PROJECT:	. 41
	2.2	BRIEF DESCRIPTION OF THE PROJECT	. 42
	2.2.	1 SITE CONNECTIVITY:	. 45
	2.3	LOCATION DETAILS:	. 46
	2.3.	1 SITE PHOTOGRAPHS	. 48

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	•

2.3.2	LAND USE BREAKUP OF THE MINE LEASE AREA
2.3.3	HUMAN SETTLEMENT
2.4	LEASEHOLD AREA49
2.5	GEOLOGY49
2.6	QUALITY OF RESERVES: 52
2.6.1	ESTIMATION OF RESERVES
2.6.2	GEOLOGICAL RESOURCES
2.6.3	MINEABLE RESERVES
2.6.4	YEAR WISE PRODUCTION PLAN
2.7	TYPE OF MINING
2.7.1	METHOD OF WORKING:
2.7.2	OVERBURDEN57
2.7.3	MACHINERIES TO BE USED
2.7.4	BLASTING: 58
2.8	MAN POWER REQUIREMENTS 59
2.8.1	WATER REQUIREMENT 60
2.9	PROJECT IMPLEMENTATION SCHEDULE
2.10	SOLID WASTE MANAGEMENT
2.11	MINE DRAINAGE
2.12	POWER REQUIREMENT62
2.13	PROJECT COST62

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	1

	2.14	GREENBELT	63
3	DES	SCRIPTION OF THE ENVIRONMENT	64
	3.1	GENERAL:	64
	3.1.	1 STUDY AREA:	64
	3.1.	2 INSTRUMENTS USED	65
	3.1.	BASELINE DATA COLLECTION PERIOD:	65
	3.1.	FREQUENCY OF MONITORING	65
	3.1.	5 SECONDARY DATA COLLECTION	67
	3.1.	5 STUDY AREA DETAILS	67
	3.1.	7 SITE CONNECTIVITY:	69
	3.2	LAND USE ANALYSIS	69
	3.2.	LAND USE CLASSIFICATION	69
	3.2.	2 METHODOLOGY	70
	3.2	3 SATELLITE DATA	71
	3.2.	4 SCALE OF MAPPING	71
	3.2	5 INTERPRETATION TECHNIQUE	71
	3.2.	5 FIELD VERIFICATION	72
	3.2.	7 DESCRIPTION OF THE LAND USE / LAND COVER CLASSES	72
	3.3	WATER ENVIRONMENT	75
	3.3.	I CONTOUR & DRAINAGE	75
	3.3.	2 GEOMORPHOLOGY	75

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	1

3.3.3	GEOLOGY:	76
3.3.4	HYDROGEOLOGY	78
3.3.5	GROUND WATER QUALITY MONITORING	79
3.3.6	INTERPRETATION OF RESULTS:	82
3.3.7	SURFACE WATER ANALYSIS	85
3.3.8	CLIMATOLOGY & METEOROLOGY:	86
3.3.9	SELECTION OF SAMPLING LOCATIONS:	89
3.4 A	AMBIENT AIR QUALITY	89
3.4.1	AMBIENT AIR QUALITY: RESULTS & DISCUSSION	90
3.4.2	INTERPRETATION OF AMBIENT AIR QUALITY:	92
3.5 N	NOISE ENVIRONMENT:	94
3.5.1	DAY NOISE LEVEL (LEQ DAY)	95
3.5.2	NIGHT NOISE LEVEL (LEQ NIGHT)	96
3.6 S	SOIL ENVIRONMENT	96
3.6.1	BASELINE DATA:	97
3.7 E	ECOLOGY AND BIODIVERSITY	. 100
3.7.1	METHODS AVAILABLE FOR FLORAL ANALYSIS:	. 100
3.7.2	FIELD STUDY& METHODOLOGY ADOPTED:	. 101
3.7.3	STUDY OUTCOME:	. 101
3.7.4	CALCULATION OF SPECIES DIVERSITY BY SHANNON – WIENER INI	DEX,
EVEN	NNESS AND RICHNESS BY MARGALEF:	. 110

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	•

	3.7.5	5 CALCULATION OF SPECIES DIVERSITY BY SHANNON – WIENER I	NDEX,
	EVE	ENNESS AND RICHNESS BY MARGALEF FOR TREES	111
	3.7.6	5 FLORAL STUDY IN THE BUFFER ZONE:	114
	3.7.7	7 FAUNAL COMMUNITIES	115
	3.8	DEMOGRAPHY AND SOCIO ECONOMICS	118
	3.9	TRAFFIC IMPACT ASSESSMENT	120
4	ANT	TICIPATED ENVIRONMENTAL IMPACTS & MITIGATION MEASURES	122
	4.1	INTRODUCTION	122
	4.2	LAND ENVIRONMENT:	123
	4.3	WATER ENVIRONMENT:	125
	4.4	AIR ENVIRONMENT:	127
	4.4.1	SOURCE CHARACTERIZATION	129
	4.5	NOISE ENVIRONMENT:	133
	4.6	BIOLOGICAL ENVIRONMNENT:	135
	4.7	SOCIO ECONOMIC ENVIRONMNENT:	136
	4.8	OTHER IMPACTS:	139
5	ANA	ALYSIS OF ALTERNATIVES	140
	5.1	GENERAL	140
	5.1.1	ANALYSIS FOR ALTERNATIVE SITES AND MINING TECHNOLOGY	140
6	ENV	VIRONMENTAL MONITORING PROGRAM	142
	6.1	GENERAL:	142

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	1

7	\mathbf{A}	DDI	TIONAL STUDIES	146
	7.1	G	GENERAL	146
	7.	1.1	PUBLIC HEARING:	146
	7.	1.2	RISK ASSESSMENT:	146
	7.	1.3	IDENTIFICATION OF HAZARD	147
	, ,	- • -	GENERAL PRECAUTIONARY MEASURES FOR THE RISK INVOLVED IN TOSED MINE:	
	7.	1.5	SAFETY TEAM:	150
	7.	1.6	EMERGENCY CONTROL CENTRE	150
	7.2	D	DISASTER MANAGEMENT	150
			EMERGENCY MANAGEMENT PLAN FOR PROPOSED MINES ON SITE- OFFSI	
	7.	2.1	ONSITE OFF-SITE EMERGENCY PLAN:	151
	7.	2.2	EMERGENCY PLAN:	152
	7.	2.3	EMERGENCY CONTROL:	152
	7.3	N	NATURAL RESOURCE CONSERVATION	152
	7.4	R	RESETTLEMENT AND REHABILITATION:	153
8	Pl	ROJ	TECT BENEFITS	154
	8.1	G	GENERAL	154
	8.	1.1	PHYSICAL BENEFITS	154
	8.2	S	OCIAL BENEFITS	154
	8.3	P	PROJECT COST / INVESTMENT DETAILS	155

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	1

9	EN	VIRONMENTAL MANAGEMENT PLAN	156
	9.1	INTRODUCTION	156
	9.2	SUBSIDENCE	156
	9.3	MINE DRAINAGE	156
	9.3	1 STORM WATER MANAGEMENT	156
	9.3	2 DRAINAGE	157
	9.3	3 ADMINISTRATIVE AND TECHNICAL SETUP	157
1	0 SU	MMARY & CONCLUSION	168
	10.1	INTRODUCTION	168
	10.2	PROJECT OVERVIEW	168
	10.3	JUSTIFICATION OF THE PROPOSED PROJECT	170
1	1 DIS	SCLOSURE OF CONSULTANT	173
	11.1	INTRODUCTION	173
	11.2	ECO TECH LABS PVT. LTD – ENVIRONMENT CONSULTANT	173

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	-

LIST OF TABLES:

TABLE 1-1: POST ENVIRONMENTAL CLEARANCE MONITORING	35
TABLE 2-1: QUARRY WITHIN 500M RADIUS	40
TABLE 2-2 SALIENT FEATURES OF THE PROJECT	42
TABLE 2-3: LOCATION DETAILS	46
TABLE 2-4: LAND USE PATTERN	48
TABLE 2-5: HABITATION	49
TABLE 2-6: DETAILS OF MINING	52
TABLE 2-7: GEOLOGICAL RESOURCES	53
TABLE 2-8: MINEABLE RESERVES.	54
TABLE 2-9: YEAR WISE PRODUCTION PLAN	55
TABLE 2-10: LIST OF MACHINERIES USED	58
TABLE 2-11: DRILLING AND BLASTING PARAMETERS	58
TABLE 2-12: BLASTING DETAILS	59
TABLE 2-13: MAN POWER REQUIREMENTS	60
TABLE 2-14: WATER REQUIRMENT	60
TABLE 2-15: SOLID WASTE MANAGEMENT	62
TABLE 3-1: FREQUENCY OF SAMPLING AND ANALYSIS	65
TABLE 3-2 STUDY AREA DETAILS	67
TABLE 3-3 LAND USE PATTERN	75
TABLE 3-4 GROUND WATER QUALITY ANALYSIS	79

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	1

TABLE 3-5: STANDARD PROCEDURE	80
TABLE 3-6 GROUND WATER SAMPLING RESULTS Error! Bookmark not defi	INED.
TABLE 3-7 SURFACE WATER SAMPLE RESULTS	85
TABLE 3-8: SELECTION OF SAMPLING LOCATION	89
TABLE 3-9 AMBIENT AIR QUALITY	91
TABLE 3-10 NOISE ANALYSIS	94
TABLE 3-11 DAY NOISE LEVEL (LEQ DAY)	95
TABLE 3-12 NIGHT NOISE LEVEL (LEQ NIGHT)	96
TABLE 3-13 SOIL QUALITY ANALYSIS	97
TABLE 3-14 SOIL QUALITY ANALYSIS	98
TABLE 3-15 CALCULATION OF DENSITY, FREQUENCY (%), DOMINANCE, RELATIVE DENSITY RELATIVE FREQUENCY, RELATIVE DOMINANCE & IMPORTANT VALUE INDEX	
TABLE 3-16 TREE SPECIES IN THE CORE ZONE	103
TABLE 3-17 SHRUBS IN THE CORE ZONE	106
TABLE 3-18 HERBS & GRASSES IN THE CORE ZONE	108
TABLE 3-19 CALCULATION OF SPECIES DIVERSITY	110
TABLE 3-20 LIST OF FAUNA SPECIES	116
TABLE 3-21: DEMOGRAPHY SURVEY STUDY	119
TABLE 3-22: NO. OF VEHICLES PER DAY	121
TABLE 3-23: EXISTING TRAFFIC SCENARIO AND LOS	121
TABLE 4-1 EMISSION FACTORS FOR UNCONTROLLED MINING	131

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	1

TABLE 5-1: ALTERNATIVE FOR TECHNOLOGY AND OTHER PARAMETERS	141
TABLE 6-1: ENVIRONMENTAL MONITORING PROGRAMME	142
TABLE 6-2: MONITORING SCHEDULE DURING MINING	145
TABLE 9-1: IMPACTS AND MITIGATION MEASURES	158
TABLE 9-2: BUDGETARY ALLOCATION FOR EMP DURING MINING	161
TABLE 10-1: PROJECT OVERVIEW	168
TARIE 10-2: ANTICIPATE IMPACTS & APPROPRIATE MITIGATION MEASURES	171

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	-

LIST OF FIGURES:

FIGURE 1.1: LOCATION MAP OF THE PROJECT SITE	38
FIGURE 2.1: LOCATION MAP OF THE PROJECT SITE	44
FIGURE 2.2: GOOGLE EARTH IMAGE AND COORDINATES OF THE PROJECT SITE	45
FIGURE 2.3: SITE CONNECTIVITY	45
FIGURE 2.4: TOPO MAP OF PROJECT SITE	46
FIGURE 2.5: ENVIRONMENTAL SENSITIVITY WITHIN 15KM RADIUS	47
FIGURE 2.6: SITE PHOTOGRAPHS	48
FIGURE 2.7: GEOMORPHOLOGY	51
FIGURE 2.8 LITHOLOGY	51
FIGURE 2.9 YEAR WISE PRODUCTION PLAN Error! Bookmark not i	DEFINED.
FIGURE 3.1: SITE CONNECTIVITY	69
FIGURE 3.2 FLOW CHART SHOWING METHODOLOGY OF LAND USE MAPPING	70
FIGURE 3.3 LAND USE CLASSES AROUND 10 KM RADIUS FROM THE PROJECT SITE	74
FIGURE 3.4 GEOMORPHOLOGY WITHIN 10KM FROM THE PROJECT SITE	76
FIGURE 3.5 GEOLOGY WITHIN 10KM FROM THE PROJECT SITE	77
FIGURE 3.6 GROUND WATER PROSPECTS WITHIN 5 KM RADIUS OF THE PROJECT SITE	79
FIGURE 3.7 WIND ROSE	88
FIGURE 3.8 CONCENTRATION OF PM10 (μG/M³) IN STUDY AREA	92
FIGURE 3.9 CONCENTRATION OF PM2.5 (μG/M³) IN STUDY AREA	93
FIGURE 3.10 CONCENTRATION OF SOX (μG/M³) IN STUDY AREA	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	1

FIGURE 3.11 CONCENTRATION OF NOX (μG/M3) IN STUDY AREA
FIGURE 3.12 SOIL EROSION PATTERN WITHIN 5 KM RADIUS OF THE PROJECT SITE 97
FIGURE 3.13 SOCIO ECONOMIC MAP SURROUNDING THE PROJECT SITE
FIGURE 3.14: SITE CONNECTIVITY

ABBREVIATION

LU -LAND USE

AP – AIR POLLUTION MONITORING, PREVENTION AND CONTROL

AQ- METEOROLOGY, AIR QUALITY MODELING AND PREDICTION

WP – WATER POLLUTION MONITORING, PREVENTION AND CONTROL

EB- ECOLOGY AND BIODIVERSITY

NV- NOISE & VIBRATION

SE- SOCIO-ECONOMICS

HG- HYDROLOGY, GROUND WATER AND WATER CONSERVATION

GEO – GEOLOGY

RH – RISK ASSESSMENT AND HAZARDS MANAGEMENT

SHW -SOLID AND HAZARDOUS WASTE MANAGEMENT

SC- SOIL CONSERVATION

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

EXECUTIVE SUMMARY

1. Project Background:

The Proposed project is in Patta land having total extent area of 3.76.67 Ha, located at S.F.No.70/4A & 70/5B of Midithepalli Village of Shoolagiri Taluk, Krishnagiri District and Tamil Nadu. The category of project is B1, it is a fresh rough stone and gravel quarry in Midithepalli village. The area is situated on gently sloping terrain towards the Eastern side, covered with Rough Stone and Gravel which does not sustain any type of vegetation.

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

The quarry operation is proposed up to depth for 47.0m (2.0m Gravel + 45.0m Rough stone). The Total Geological reserve is about 96,630m³ of Gravel and 21,44,580m³ of Rough Stone. The Mineable Reserves are 82,530m³ of Gravel and 12,24,475m³ of Rough stone. Production schedule is proposed an average production of 82,530m³ of Gravel and 12,24,475m³ of Rough stone for Ten years only.

The Mining Plan was approved by the Deputy Director, Geology & Mining, Krishnagiri vide letter Rc.No.768/2024 Mines dated 18.12.2023. There is no 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 Rough Stone and Gravel Quarry over an extent of 3.76.67 Hectares land is located Midithepalli Village of Shoolagiri Taluk, Krishnagiri District.

Mineral intends to quarry : Rough stone and Gravel

District : Krishnagiri

Taluk : Shoolagiri

Village : Midithepalli

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

S. F. Nos. : 70/4A & 70/5B

Extent : 3.76.67 Hectares

Table 1: Brief Description of the Project

S. No	Particulars	Details
1	Latitude	12° 46' 07.7657" N to 12° 45' 57.2328" N
2	Longitude	77° 57' 10.9141" E to 77° 57' 01.9504" E
3	Site Elevation above MSL	The altitude of the area is 869m above MSL.
4	Topography	slightly elevated terrain
5	Land use of the site	Patta land
6	Extent of lease area	3.76.67 На
7	Nearest highway	MDR 422 – Berigai to Shoolagiri Road – 3.18 Km - SE NH 48 – Hosur to Krishnagiri Road – 9.37 Km - S
8	Nearest railway station	Hosur Railway Station – 14.82 km - SW
9	Nearest airport	Kempagowda International Airport – 54.02 Km - NW
10	Nearest town / city	Town - Shoolagiri – 11.67 km - SE City - Hosur – 13.02 km - W District - Krishnagiri – 37.30 km - SE
11	Rivers / Canal	Ponnaniyar River – 6.09Km - SW
12	Lake	 Muthali lake – 4.67Km – W Bukkasagaram Lake – 4.76Km- S Berikai Lake – 5.12Km – N

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

		Peddakullu Lake – 5.86Km – SW
		• Lake 1 – 5.25Km – SW
		• Doripalli Lake – 6.28Km – S
		• Thummanapalli Lake – 6.89Km – SSW
		• Kelavarapalli Reservoir – 7.14Km – W
		• Kamandoddi Lake – 8.56Km – S
		• Kumudapalli Lake – 9.57Km – SW
		• Moranapalli Lake – 9.89Km - SW
13	Hills / valleys	Nil in 15 km radius
14	Archaeologically places	Nil in 15 km radius
15	National parks / Wildlife	• Cauvery North Wildlife Sanctuary – 25.35 Km – S
13	Sanctuaries	• Cauvery South Wildlife Sanctuary – 47.26 Km - SW
		• Meditepalli RF – 1.29Km – N
	D 1/D 1 1	• Berigai RF – 1.73Km – SE
16	Reserved / Protected	• Berigai Extension RF – 2.17Km – NE
	Forests	• Sanamavu RF – 5.91Km – SW
		• Settipalli RF – 7.37Km – SE
17	Seismicity	Proposed Lease area come under Seismic zone-II (low risk
1,	Selement	area)
18	Defense Installations	Nil in 15 Km radius

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

3. Need for the Project

- ❖ The mining activities as proposed are the backbone of all construction and infrastructure projects as the raw material for construction is available only from such mining. The Rough stone extracted will be transported to be Stone crusher of district Krishnagiri.
- ❖ The raw Rough stone as well as the crushed material of stone is in high demand in real estate, construction projects as well as in building construction projects.
- * Rough stone is quarried for producing crusher aggregates to the nearby building contractors, road contractors and nearby villagers.
- ❖ After quarrying the entire reserves mined out, the area will be used as water reservoir to have an artificial recharge to the nearby wells.
- ❖ No damage to the land is caused, no reclamation or back filling is required.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

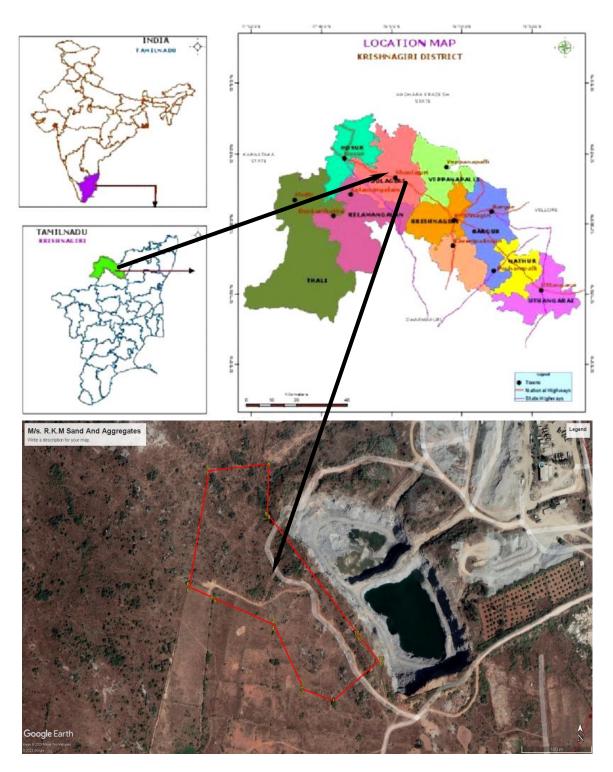


Figure 1: Location Map of the Project Site

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

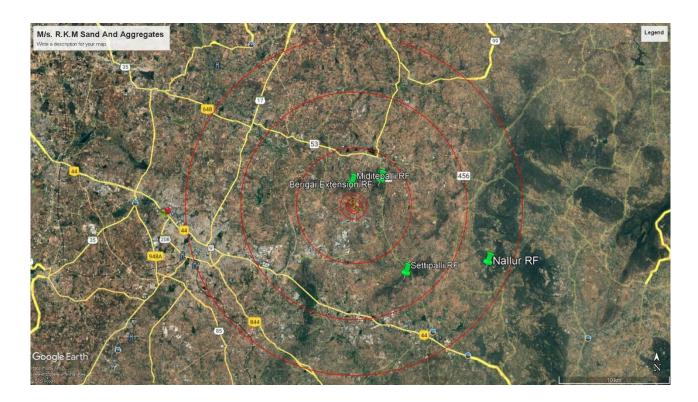


Figure 2: Google Image of the Project Site

4. Charnockite

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

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

5. Geological resources

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

Table 2. Geological resources

Section	Bench	L (m)	W (m)	D (m)	Volume in (Cu.m.)	Geological Reserve in Cu.m (100%)	Gravel in (Cu.m.)
	I	236	150	2			70800
	II	221	141	5	155805	155805	
	III	236	150	5	177000	177000	
	IV	236	150	5	177000	177000	
XY-AB	V	236	150	5	177000	177000	
A I -AB	VI	236	150	5	177000	177000	
	VII	236	150	5	177000	177000	
	VIII	236	150	5	177000	177000	
	IX	236	150	5	177000	177000	
	X	236	150	5	177000	177000	
	To	otal			1571805	1571805	70800
	I	123	105	2			25830
	II	107	105	5	56175	56175	
	III	123	105	5	64575	64575	
XY-CD	IV	123	105	5	64575	64575	
	V	123	105	5	64575	64575	
	VI	123	105	5	64575	64575	
	VII	123	105	5	64575	64575	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

VIII	123	105	5	64575	64575	
IX	123	105	5	64575	64575	
X	123	105	5	64575	64575	
To	tal		572775	572775	25830	
Grand	l Total		2144580	2144580	96630	

Mineable reserves:

The Mineable reserves are calculated by deducting 7.5m & 10m Safety distance and bench loss. In this regard, since the adjacent area also to be under new lease area, necessary action will be taken to get permission from DGMS in future to comply regulation under (111)3 of MMR.1961.

Table 3. Mineable Reserves

Section	Bench	L (m)	W (m)	D (m)	Volume in (Cu.m.)	Mineable Reserve in Cu.m(100%)	Gravel in (Cu.m.)
	I	229	135	2			61830
	II	221	133	5	146965	146965	
	III	229	135	5	154575	154575	
	IV	224	125	5	140000	140000	
XY-AB	V	219	115	5	125925	125925	
AT IID	VI	214	105	5	112350	112350	
	VII	209	95	5	99275	99275	
	VIII	204	85	5	86700	86700	
	IX	199	75	5	74625	74625	
	X	194	65	5	63050	63050	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

	Tot	al=			1003465	1003465	61830
	I	115	90	2			20700
	II	107	86	5	46010	46010	
	III	115	78	5	44850	44850	
	IV	110	68	5	37400	37400	
XY-CD	V	105	58	5	30450	30450	
	VI	100	48	5	24000	24000	
	VII	95	38	5	18050	18050	
	VIII	90	28	5	12600	12600	
	IX	85	18	5	7650	7650	
	Total=					221010	20700
	Grand Total=					1224475	82530

Table 4. Year wise Production Plan

Year	Section	Bench	L (m)	W (m)	D (m)	Volume In M3	Recoverable Reserve in m3 @ 100%	Gravel in m3
	XY-AB	I	229	135	2			61830
I-Year		II	221	133	5	146965	146965	
		TOTA	L			146965	146965	61830
		I	115	90	2			20700
II-Year	XY-CD	II	107	86	5	46010	46010	
11 1 641		III	115	78	5	44850	44850	
		TOTA	L		90860	90860	20700	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

III-Year	XY-AB	III	229	135	5	154575	154575	
III I cui		TOTA	AL	<u> </u>	154575	154575		
IV-Year	XY-AB	IV	224	125	5	140000	140000	
IV-ICai		TOTA	A L			140000	140000	
	XY-CD	IV	110	68	5	37400	37400	
V-Year	AT-CD	V	105	58	5	30450	30450	
v-1 cai	XY-AB	V	219	115	5	125925	125925	
		TOTA	A L			193775	193775	
	XY-AB	VI	214	105	5	112350	112350	
VI-Year	XY-CD	VI	100	48	5	24000	24000	
-		TOTA	A L		136350	136350		
	XY-AB	VII	209	95	5	99275	99275	
VII-Year	XY-CD	VII	95	38	5	18050	18050	
-		TOTA	A L		117325	117325		
	XY-AB	VIII	204	85	5	86700	86700	
VIII-Year	XY-CD	VIII	90	28	5	12600	12600	
-		TOTA	A L		99300	99300		
	XY-AB	IX	199	75	5	74625	74625	
IX-Year	XY-CD	IX	85	18	5	7650	7650	
-		TOTA	AL			82275	82275	
X-Year	XY-AB	X	194	65	5	63050	63050	
		TOTA	A L	1		63050	63050	
I	Gr	and Total				1224475	1224475	82530

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

6. Mining

Opencast mining

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

Process Description

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

7. Water Requirement

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

Table 5. Water Balance

Purpose	Quantity	Source
Drinking Water	1.0 KLD	Mineral water purchased from approved water vendors available Midithepalli village which is about 1.70 km NE from the project site.
Green belt	0.5 KLD	Other domestic activities through road tankers supply
Dust suppression	0.5 KLD	From road tankers supply
Total	2.0 KLD	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

8. Manpower

Total manpower required for the project is approximately 20 persons. The workers will be from nearby villages.

Table 6. Man Power

		Operators	3 Nos		
1.	Skilled	Mechanic	2 No		
		Blaster / Mat	1 No		
2.	Semi – skilled	Drivers	3 Nos		
		Musdoor / Labors	6 Nos		
3.	Unskilled	Cleaners	2 Nos		
		Office Boy	1 No		
4.	4. Management & Supervisory staff				
	Total				

9. Solid Waste Management

Table 7 Solid Waste Management

S. No	Туре	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

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Table 8 500m Radius Cluster Mine

1) Details of Existing quarries:

S. No.	Name of the lessee	Village & Taluk	Mineral	S.F. No	Extent	Rc. No & Date	Lease Period
1.	Thiru.B.Srikar, S/o. Bharathy D.No.25, Shanti Nagar (West), 2 nd Cross, Hosur – 635109.	Shoolagiri & Midithepalli	Rough stone	79	1.86.50	Rc. No. 646/2021/ Mines dated: 08.08.24	08.08.24 To 07.08.34
2.	Thiru.D.Sreenivasalu, S/o. Vekateshwarlu, No. Radha lakshmi Nilayam, Devachandra Main road, Bangalore	Shoolagiri & Midithepalli	Rough stone	80/1 80/2	3.17.08	Rc. No. 1305/2018/ Mines dated: 20.12.22	20.12.22 to 19.12.32
3.	Thiru.Venkat reddy, S/o. (Late) Uthama Reddy, Kolar Taluk, Uddanahalli, Chakkarasanahalli, Karnataka	Shoolagiri & Midithepalli	Rough stone	81/2 82/1	2.05.92	Rc. No. 1308/2018/ Mines dated: 31.10.2022	31.10.22 to 30.10.32

2) Details of Expired/Old Quarries:

S.No.	Name of the lessee	Village	S.F.No	Extent	GO No. & Date	Lease period
1.	M/s. Sarva Infra Pvt. Ltd, 540, 3 rd floor, CMH Road, Indira Nagar, Bangalore.	Shoolagiri & Midithepalli	70/1B, 70/1C	4.05.0	Rc.No. 09/2014/ Mines Dated:26.10.2015	28.10.2015 to 27.10.2020

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

3) Details of Proposed Quarries

S. No.	Name of the lessee	Village & Taluk	Mineral	S.F. No	Extent	GO No. & Date	Lease period
1.	M/s.R.K.M Sand and Aggregates, Proprietor: Thiru.Ravikumar, Villa No.126, Adarsh Palm, Retreat Villas, Devarabisanahalli, Bangalore, Karnataka – 560 103.	Shoolagiri, Midithepalli	Rough stone	70/4A & 70/5B	3.76.67	-	Instant proposal

The Total extent of the Existing / Lease expired / Proposed quarries are 14.91.17 Ha.

10. Land Requirement

The total extent area of the project is 3.76.67 Ha, Patta land in Midithepalli Village of Shoolagiri Taluk, Krishnagiri District.

Table 9 Land Use Breakup

S. No.	Land Use	Present Area (Hect)	Area in use during the quarrying period (Hect)
1.	Area under Quarrying	Nil	3.09.0
2.	Infrastructure	Nil	0.01.0
3.	Roads	Nil	0.01.0
4.	Green Belt	Nil	0.65.67
5.	Unutilized Area	3.76.67	Nil
	Total	3.76.67 Ha	3.76.67 Ha

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

11. Human Settlement

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

Table 10 Habitation

SL. NO.	DIRECTION	VILLAGE	POPULATION	DISTANCE
1	NW	Alnatham	327	1.50 Km
2	Е	Athetti	180	1.50 Km
3	SE	Mensandoddi	310	1.81 Km
4	SW	Venkatesapuram	2873	1.60 Km

12. Power Requirement

The Rough Stone 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.

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

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

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 : 17 °C

ii) Average Maximum Temperature : 39 °C

iii) Average Annual Rainfall of the area: 968 mm

13.2 Air Environment

Ambient air monitoring was carried out on a monthly basis in the surrounding areas of the Mine Lease area to assess the ambient air quality at the source. To know the ambient air quality at a larger distance i.e., in the study area of 5 km. radius, air quality survey has been conducted at 5 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 PM_{10} (67-41 $\mu g/m^3$), $PM_{2.5}$ (33-14 $\mu g/m^3$), SO_2 (21-6 $\mu g/m^3$), NO_2 (34 -11 $\mu g/m^3$), all the parameters are well within the standards prescribed by National Ambient Air Quality during the study period from April 2025 to June 2025.

13.3 Noise Environment

The maximum Day noise and Night noise were found to be 65 dB(A) and 54 dB(A) respectively in Government High School, Muthali. The minimum Day Noise and Night noise were 44 dB(A) and 39 dB(A) respectively which was observed in project site. The observed values are all well within the Standards prescribed by CPCB.

13.4 Water Environment

- The average pH ranges from 6.74 8.53.
- TDS value varied from 405 mg/l to 1003 mg/l

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

- Hardness varied from 227 to 630 mg/l
- Chloride varied from 34.7 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 6.90 to 8.96 with organic matter 0.11 to 0.83%. 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 the 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. The Green belt has been recommended as one of the major components of the Environmental Management Plan, which will improve ecology, environment and quality of the surrounding area.
- 3. Local trees like Neem, Pungam, Naval etc will be planted along the lease boundary and avenues as well as over non-active dumps at a rate of 100 trees per annum with interval 5m.
- 4. The rate of survival expected to be 80% in this area

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Table.11 Plantation/ Afforestation Program

Name of species proposed	Survival	No of species
Neem, Pungam, Poovarasu, Naval, Mantharai, Arasa Maram, Magizham, Vilvam, vaagai, Marudha maram, Thandri, Poovarasu, Manjadi, Usil, Aathi, Panai, Uzha, Illuppai, Eachai, Vanni Maram	80%	1900
Total		1900

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 equipment 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

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

- 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 80,50,000**/- for deployment of machinery and creation of infrastructural facilities like approach road, mine office / Workers Shed, First Aid Room etc., including electrifications and water supply.

Table 12 Project Cost details

S. No.	Description	Cost
1	Fixed Asset Cost	Rs.40,50,000/-
2	Operational and Fencing Cost	Rs. 40,00,000/-
	Total	Rs. 80,50,000/-

20. Corporate Environmental Responsibility

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

Table 13 CER Cost

S.No.	CER Activity	CER value (Rs)
1.	PUPS – Midithepalli Village, Shoolagiri Taluk, Krishnagiri	
	District, Tamil Nadu State.(65 Students)	
	Providing facilities are:	3,00,000/-
	> Two Classroom Building, Staff toilet, Prayer assembly hall	3,00,000/-
	with stage, Dining hall with handwash	
	R.O Water Facility	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

	Total	5,00,000
	 District, Tamil Nadu State. (164 Students) Providing facilities are: ➤ Two Class room Building, Staff toilet, Prayer assembly hall with stage, Dining hall with handwash ➤ R.O Water Facility ➤ Greenbelt Development inside and around the campus – 50 No's. ➤ Environmental, Social Awareness and General Knowledge Books in Tamil Language 	2,00,000/
2.	PUPS - Athimugam Village, Shoolagiri Taluk, Krishnagiri	
	 No's. Environmental, Social Awareness and General Knowledge Books in Tamil Language Hygienic Toilet Facility and maintenance upto lease period. 	
	 Smart Classroom facility Greenbelt Development inside and around the campus – 50 	

21. Benefits of the Project

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

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

1 Introduction

1.1 PREAMBLE

Environment Impact Assessment (EIA) is a process used to identify the environmental, social & economic impacts of a project prior to decision making. It aims to predict environmental impacts at an early stage of project planning and design, find ways and means to reduce adverse impacts, shape projects to suit the local environment and present the prediction options to the proponent. By using EIA, both environmental & economic benefits can be achieved. By considering environmental effects - prediction & mitigation, early benefits in project planning, protection of the environment, optimum utilization of resources, thus saving overall time & cost of the project.

1.2 GENERAL INFORMATION ON MINING OF MINERALS

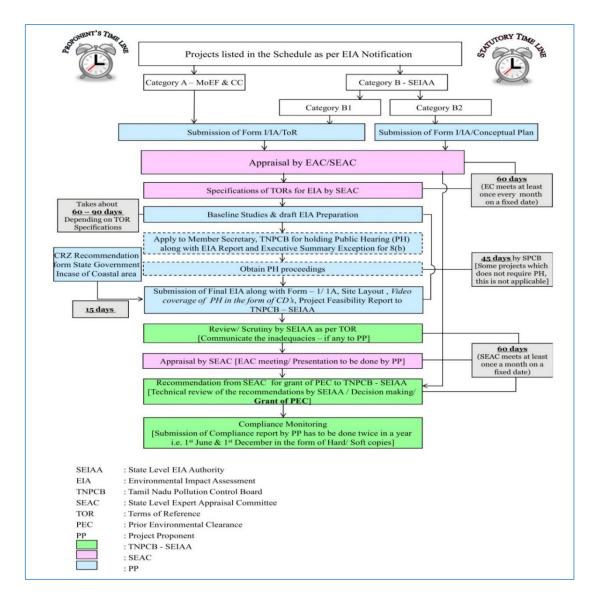
The Entire district is underlain by the rocks belonging to hard crystalline rock masses of Archaean age. The Archaean rocks in this area are represented by rocks of eastern Ghat complex comprising charnockites, Migmatite complex of composite gneiss. The district is covered by metamorphic crystalline rocks of charnockite, composite gneiss of Archaean age. These rocks are highly metamorphosed and have been subjected to sever folding, crushing and faulting. Charnockites group is occupied by North and Southern part of the basin. The other rock type is encountered by composite granitic gneiss of Epidote hornblende biotite gneiss and hornblende biotite gneiss are occupy in the middle portion of the basin. Charnockite group occupies the high ground as well as plain and it is poorly weathered and jointed. They are generally black grey to dark grey in colour medium to coarse grained texture, and generally massive and un-foliated. A gneissic rock occurs as linear bands in the middle portion of the area and is highly migmatite. Mostly, micaceous with bands of granites, pegmatites, quartz veins the rock is well foliated. The Hornblende biotite gneiss forms the country rock of the area and epidote hornblende gneiss (Proterozoic age) occurs as small isolated outcrops. The crystalline formations are charnockite, granitic gneiss of Archean age have been intruded by dolerite dykes and pegmatite veins. These rocks are highly metamorphosed and have been subjected to very severe folding, crushing and faulting. The crystalline rocks are subjected to tectonic activities under various orogenic cycles resulting in the development of secondary structures such as joints. fissures and cleavages. The intensity of weathering varies from place to place.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

1.3 ENVIRONMENTAL CLEARANCE

As per EIA Notification, 2006 and its subsequent amendments (O.M vide No. F. No. L- 11011/175/2018-IA-II(M) Govt of India MOEF&CC on December 12th, 2018) project comes under category B1 cluster & schedule 1(a) under item 1

The proposed project is categorized under Category "B1" 1(a) (Cluster) - {Mining of Minerals} as the 500m radius area is more than 5 Ha including the mine lease area. Hence, the project will be considered at SEAC, Tamil Nadu.



Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

1.4 TERMS OF REFERENCE (TOR)

The terms of Reference have been issued by SEAC TN vide TOR Identification No. TO25B0108TN5423420N Dated: 13.05.2025. additional ToR points were recommended by SEAC TN in addition to the Standard ToR Points. The replies for the same were addressed in this report.

1.5 POST ENVIRONMENTAL CLEARANCE MONITORING

1.5.1 Methodology adopted

Post project monitoring will be carried out as per conditions stipulated in the environmental clearance letter issued by SEIAA, consent issued by SPCB as well as according to CPCB guidelines. The lease area is considered as core zone and the area lying within 10 km radius from the lease boundary is considered as buffer zone, where some impacts may be observed on physical and biological environment. In the buffer zone slight impact may be observed and that too is occasional.

Table 1-1: Post Environmental Clearance Monitoring

S. No.	Description	Frequency of Monitoring
1.	Ambient Air Quality Monitoring	Quarterly/ Half Yearly
2.	Water level & Quality Monitoring	Quarterly/ Half Yearly
3.	Noise Level Monitoring	Quarterly/ Half Yearly
4.	Soil Quality Monitoring	Yearly
5.	Medical Check-up	Yearly

1.6 GENERIC STRUCTURE OF THE EIA DOCUMENT

Chapter 1: Introduction. This chapter contains the general information on the mining of minerals, major sources of environmental impacts in respect of mining projects and details of environmental clearance process.

Chapter 2: Project Description. In this chapter the proponent should also furnish detailed description of the proposed project, such as the type of the project, need for the project, project location, layout, project activities during construction and operational phases, capacity of the project, project operation i.e., land availability, utilities (power and water supply) and infrastructure facilities such as roads, railways, housing and other

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

requirements. If the project site is near a sensitive area it is to be mentioned clearly why an alternative site could not be considered. The project implementation schedule estimated cost of development as well as operation etc. should also be included.

- **Chapter 3:** Analysis of Alternatives (Technology and Site). This chapter gives details of various alternatives both in respect of location of site and technologies to be deployed, in case the initial scoping exercise considers such a need.
- *Chapter 4:* Description of Environment. This chapter should cover baseline data in the project area and study area.
- Chapter 5: Impact Analysis and mitigation measures. This chapter describes the anticipated impacts on the environment and mitigation measures. The method of assessment of impacts including studies carried out, modelling techniques adopted to assess the impacts where pertinent should be elaborated in this chapter. It should give details of the impacts on the baseline parameters, both during the construction and operational phases, and suggests the mitigation measures to be implemented by the proponent.
- **Chapter 6:** Environmental Monitoring Program. This chapter should cover the planned environmental monitoring program. It should also include the technical aspects of monitoring the effectiveness of mitigation measures.
- **Chapter 7:** Additional Studies. This chapter should cover the details of the additional studies required in addition to those specified in the ToR and which are necessary to cater to more specific issues applicable to the particular project.
- *Chapter 8:* Project Benefits. This chapter should cover the benefits accruing to the locality, neighborhood, region and nation as a whole. It should bring out details of benefits by way of improvements in the physical infrastructure, social infrastructure, employment potential and other tangible benefits.
- *Chapter 9:* Environmental Cost Benefit Analysis. This chapter should cover on Environmental Cost Benefit Analysis of the project.
- Chapter 10: Environmental Management Plan. This chapter should comprehensively present the Environmental Management Plan (EMP), which includes the administrative and technical setup, summary

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

matrix of EMP, and the cost involved to implement the EMP, both during the construction and operational phase and provisions made towards the same in the cost estimates of project construction and operation. This chapter should also describe the proposed post-monitoring scheme as well as inter-organizational arrangements for effective implementation of the mitigation measures.

Chapter 11: Summary and Conclusions. This chapter gives the summary of the full EIA report condensed to ten A-4 size pages at the maximum. It should provide the overall justification for the implementation of the project and should explain how the adverse effects have been mitigated.

Chapter 12: Disclosure of Consultants. This chapter should include the names of the consultants engaged with their brief resume and nature of consultancy rendered.

1.7 <u>DETAILS OF PROJECT PROPONENT</u>

Project Proponent : M/s. RKM Sand and Aggregates

Status of the Proponent : Individual

Proponent's Name & Address : M/S. R.K.M Sand and Aggregates,

Prop. Thiru. D. Ravikumar,

Villa No. 126, Adarsh Palm,

Retreat Villas, Devarabisanahalli,

Bangalore, Karnataka- 560 103.

1.8 BRIEF DESCRIPTION OF THE PROJECT

1.8.1 Project Nature, Size & Location

As per EIA Notification, 2006 and its subsequent amendments (O.M vide No. F. No. L-11011/175/2018-IA-II(M) Govt of India MOEF&CC on December 12th, 2018) project comes under category B1 cluster & schedule 1(a) under item 1.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Proposed proposal pertains to Rough stone and gravel mining project by mechanized open cast method on allotted mine lease area at Midithepalli Village, Shoolagiri Taluk of Krishnagiri District, Tamil Nadu. It is an elevated terrain. The total allotted mine lease for the proposed project is 3.76.67 Ha with their maximum production capacity i.e., 82,530m³ of Gravel and 12,24,475 m³ of rough stone for the period of Ten years only.

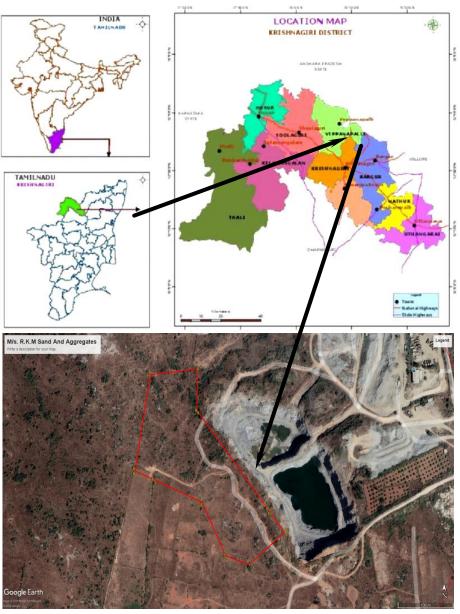


Figure 1.1: Location Map of the Project site

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

2 Project Description

This chapter furnishes detailed description of the proposed project, such as the type of the project, need for the project, project location, layout, project activities during mining, capacity of the project, project operation i.e., land availability, utilities (power and water supply) and infrastructure facilities such as roads, railways, housing and other requirements. The project implementation schedule estimated cost for carrying out entire mining activity is included.

2.1 **GENERAL**

Proposed proposal pertains to Rough stone and gravel mining project by open cast mechanized method on allotted mine lease area at Midithepalli Village, Shoolagiri Taluk of Krishnagiri District, Tamil Nadu. It is a slightly elevated terrain. We have obtained a fresh mining plan from the Department of Geology and Mining, Krishnagiri District for 3.76.67 Ha land area in the S.F.Nos. 70/4A & 70/5B for a proposed mining depth of 47.0m Gravel 2.0m + Rough stone 45.0m and ten years production of 12,24,475 m³ of Rough Stone and 82,530 m³ of Gravel.

Type of the project:

As per EIA Notification, 2006 and its subsequent amendments (O.M vide No.F.No. L-11011/175/2018-IA-II(M) Govt of India MOEF&CC on December 12th, 2018) project comes under category B1 cluster & schedule 1(a) under item 1. The project required to be appraised at state level by State Environment Impact Assessment Authority, Tamil Nadu. Environment Clearance study will involve preparation of draft EIA report on the basis of baseline & impact assessment study is carried out. Also, before appraisal, under 7(III) of EIA notification 2006, the project involves the Public Consultation and the same will be conducted under SPCB (TN) in Krishnagiri District. The proceedings of the same will be incorporated in the Final EIA Report.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

The mines within 500m radius from the project site is listed below.

Table 2-1: Quarry within 500m Radius

1) Details of Existing quarries:

S. No.	Name of the lessee	Village & Taluk	Mineral	S.F. No	Extent	Rc. No & Date	Lease Period
1.	Thiru.B.Srikar, S/o. Bharathy, No.25, Shanthi Nagar (West), 2 nd Cross, Hosur Tk, Krishnagiri - 635109	Shoolagiri, Midithepalli	Rough stone	79	1.86.50	-	08.08.24 To 07.08.34
2.	Thiru.D.Sreenivasalu, S/o. Vekateshwarlu, No. Radha lakshmi Nilayam, Devachandra Main road, Bangalore	Shoolagiri & Midithepalli	Rough stone	80/1	3.17.08	Rc.No. 1305/2018/ Mines dated: 20.12.22	20.12.22 to 19.12.32
3.	Thiru.Venkat reddy, S/o. (Late) Uthama Reddy, Kolar Taluk, Uddanahalli, Chakkarasanahalli, Karnataka	Shoolagiri & Midithepalli	Rough stone	81/2 82/1	2.05.92	Rc.No. 1308/2018/ Mines dated: 31.10.2022	31.10.2022 to 30.10.2032

2) Details of Expired/Old Quarries:

S.No.	Name of the lessee	Village	S.F.No	Extent	GO No. & Date	Lease period
1.	M/s. Sarva Infra Pvt. Ltd, 540, 3 rd floor, CMH Road, Indira Nagar, Bangalore.	Shoolagiri & Midithepalli	70/1B, 70/1C	4.05.0	Rc.No. 09/2014/ Mines Dated:26.10.2015	28.10.2015 to 27.10.2020

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

3) Details of Proposed Quarries

S. No.	Name of the lessee	Village & Taluk	Mineral	S.F. No	Extent	GO No. & Date	Lease period
1.	M/s.R.K.M Sand and Aggregates, Proprietor: Thiru.Ravikumar, Villa No.126, Adarsh Palm, Retreat Villas, Devarabisanahalli, Bangalore, Karnataka – 560 103.	Shoolagiri, Midithepalli	Rough stone	70/4A & 70/5B	3.76.67	-	Instant proposal

The Total extent of the Existing / Lease expired / Proposed quarries are 14.91.17Ha

2.1.1 *Need for the project:*

The Entire district is underlain by the rocks belonging to hard crystalline rock masses of Archaean age. The Archaean rocks in this area are represented by rocks of eastern Ghat complex comprising charnockites, Migmatite complex of composite gneiss. The district is covered by metamorphic crystalline rocks of charnockite, composite gneiss of Archaean age. These rocks are highly metamorphosed and have been subjected to sever folding, crushing and faulting. Charnockites group is occupied by the North and Southern part of the basin. The other rock type is encountered by composite granitic gneiss of Epidote hornblende biotite gneiss and hornblende biotite gneiss are occupy in the middle portion of the basin. Charnockite group occupies the high ground as well as plain and it is poorly weathered and jointed. They are generally black grey to dark grey in colour medium to coarse grained texture, and generally massive and un-foliated. A gneissic rock occurs as linear bands in the middle portion of the area and is highly migmatite. Mostly, micaceous with bands of granites, pegmatites, guartz veins the rock is well foliated. The Hornblende biotite gneiss forms the country rock of the area and epidote hornblende gneiss (Proterozoic age) occurs as small isolated outcrops. The crystalline formations are charnockite, granitic gneiss of Archaen age have been intruded by dolerite dykes and pegmatite veins. These rocks are highly metamorphosed and have been subjected to very severe folding, crushing and faulting. The crystalline rocks are subjected to tectonic

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

activities under various orogenic cycles resulting in the development of secondary structures such as joints. fissures and cleavages. The intensity of weathering varies from place to place.

2.2 BRIEF DESCRIPTION OF THE PROJECT

Table 2-2 Salient Features of the Project

S. No.	Description	Details	
1	Project Name	Rough Stone and Gravel Quarry-3.76.67 ha	
2	Proponent	M/S. R.K.M Sand and Aggregates,	
		Prop.Thiru. D. Ravikumar,	
3	Mining Lease Area Extent	3.76.67 На	
4	Location	S.F.Nos. 70/4A & 70/5B of Midithepalli Village,	
		Shoolagiri Taluk, Krishnagiri District.	
5	Latitude	12° 46' 07.7657" N to 12° 45' 57.2328" N	
6	Longitude	77° 57' 10.9141" E to 77° 57' 01.9504" E	
7	Topography	slightly elevated terrain	
8	Site Elevation above MSL	The altitude of the area is 869m above MSL.	
9	Topo sheet No.	57- H/13	
10	Minerals of Mine	Rough Stone and Gravel Quarry	
11	Proposed production of Mine	12,24,475 m ³ of Rough Stone & 82,530m ³ of Topsoil	
12	Ultimate depth of Mining	47 m (2m Gravel + 45m Rough stone)	
13	Method of Mining	Open cast, mechanized mining	
14	Water demand	2.0 KLD	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha Draft EIA	
Project Proponent	nt M/s. RKM Sand and Aggregates Report	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

15	Source of water	Water will be supplied through tankers supply	
16	Manpower	20 Nos.	
17	Mining Lease	Precise Area Communication Letter received from Deput Director, Dept. of Geology & Mining, Krishnagiri vid letter Rc.No.768/2024 Mines Dated 25.11.2024.	
18	Mining Plan Approval	Mining Plan was approved by the Deputy Director, Dept. of Geology & Mining, Krishnagiri vide letter Rc.No.768/2024 Mines Dated 18.12.2024	
19	Production details	Geological resources: 21,44,580 m³ of Rough stone and 96,630m³ of Gravel & Proposed year wise recoverable reserves: 12,24,475m³ of Rough Stone and 82,530m³ of Gravel.	
20	Boundary Fencing	10 m barrier all along the boundary Fencing will be provided.	
21	Disposal of overburden	The entire lease area is covered 2.0m of Gravel and the estimated quantity of Gravel is 33210m ³ . Gravel formation will be removed and hydraulic excavators are used for loading the gravel into the tipper from pit head to needy buyers. This will be done only after obtaining permission and paying necessary seigniorage fees to the Government.	
22	Ground water	The ground water table is reported as 66m below ground level in nearby wells of this area. Mining depth taken as 39m. Now, proposed quarry depth is above the water table. Hence, quarrying may not affect the ground water. Now,	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha Draft ELA	
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

		the proposed quarry depth is above the water table. Hence,	
		quarrying may not affect the ground water.	
22	Habitations within 300m radius	There is no Habitation within 300m radius of the project	
23	of the Project Site	site.	
24	Drinking water	Water will be supplied through tankers from Midithepalli	
24		village which is about 1.70 km NE from the project site.	

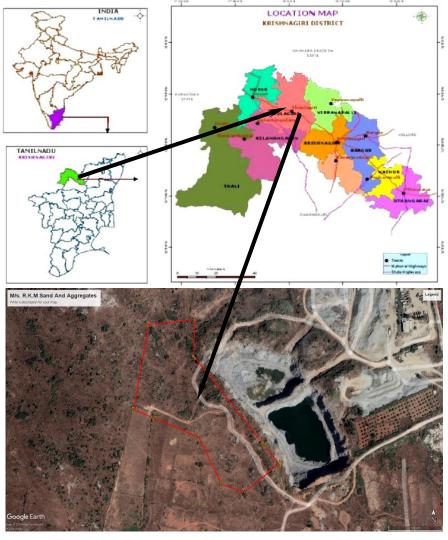


Figure 2.1: Location Map of the Project Site

Project	Rough stone and Gravel Quarry – 3.76.67 Ha Draft	
Project Proponent	nt M/s. RKM Sand and Aggregates Repo	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	



Figure 2.2: Google Earth Image and Coordinates of the Project Site

2.2.1 Site Connectivity:

The site is connected to haul village road which is about 1.43 km – South.



Figure 2.3: Site Connectivity

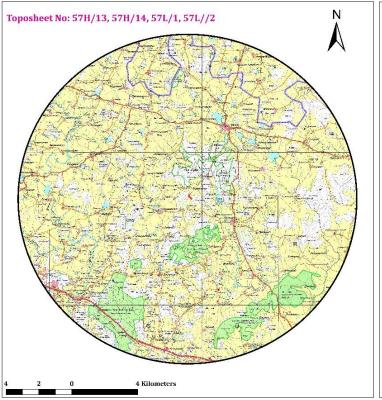
Project	Rough stone and Gravel Quarry – 3.76.67 Ha Draft El	
Project Proponent	nt M/s. RKM Sand and Aggregates Report	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

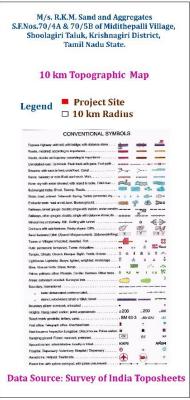
2.3 LOCATION DETAILS:

Table 2-3: Location Details

S. No	Particulars	Details
1.	Latitude	12° 46' 07.7657" N to 12° 45' 57.2328" N
2.	Longitude	77° 57' 10.9141" E to 77° 57' 01.9504" E
3.	Site Elevation above MSL	The altitude of the area is 869m above MSL.
4.	Topography	Slightly elevated terrain
5.	Land use of the site	Patta land
6.	Extent of lease area	3.76.67 Ha

Figure 2.4: Topo Map of Project Site





Project	Rough stone and Gravel Quarry – 3.76.67 Ha Draft EIA	
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

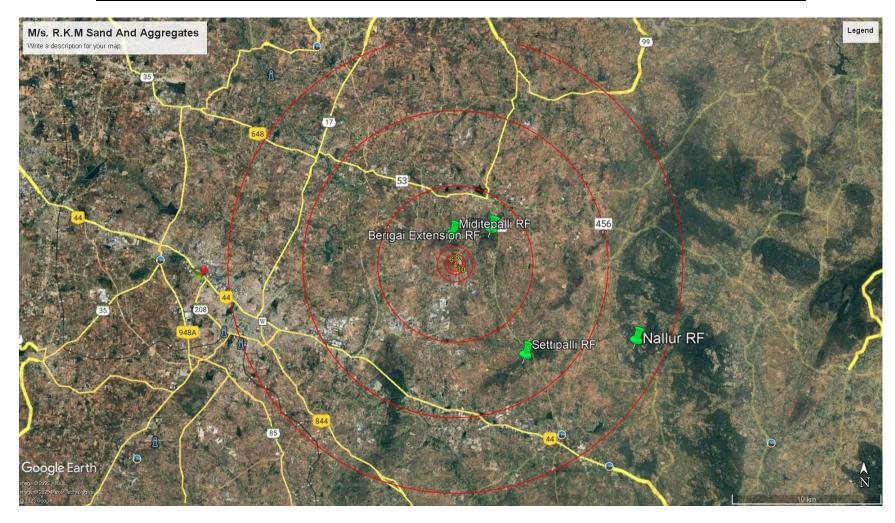


Figure 2.5: Environmental Sensitivity within 15km radius

Project	Rough stone and Gravel Quarry – 3.76.67 Ha Draft	
Project Proponent	t M/s. RKM Sand and Aggregates Report	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

2.3.1 Site Photographs

The site photographs of the project site are as follows

Figure 2.6: Site Photographs





2.3.2 Land Use Breakup of the Mine Lease Area

The Mine Lease area is Elevated terrain. The land use pattern of the mine lease area as follows.

Table 2-4: Land use pattern

S. No.	Land Use	Present Area (Hect)	Area in use during the quarrying period (Hect)
1.	Area under Quarrying	Nil	3.09.0
2.	Infrastructure	Nil	0.01.0
3.	Roads	Nil	0.01.0
4.	Green Belt	Nil	0.65.67
5.	Unutilized Area	3.76.67	Nil
	Total	3.76.67 Ha	3.76.67 На

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

2.3.3 Human Settlement

There are no habitations within the radius of 300m. The nearby habitations are as follows

Table 2-5: Habitation

SL. NO.	DIRECTION	VILLAGE	POPULATION	DISTANCE	
1	North	Karnapalli	280	4.5 Kms	
2	East	Naraseepuram	240	4.1Kms	
3	South	Guttlapalli	200	1.0kms	
4	West	Advanapalli	250	3.1Kms	

2.4 <u>LEASEHOLD AREA</u>

The Rough Stone Quarry Mine of 3.76.67 Ha is a Patta land. The lease area falls in S.F No: 70/4A & 70/5B of Midithepalli Village, Shoolagiri Taluk, Krishnagiri District. There is no reserve forest or protected forest land within the lease area. There is neither human settlement within 300m radius from the lease area.

2.5 GEOLOGY

Krishnagiri District is underlain by crystalline metamorphic complex in the western parts of district and sedimentary tract in eastern side. An area of 4551 Sq.km is covered by crystalline rocks (63%) and 2671 Sq.km is covered by sediments (37%).

The general geological sequence of formation is given below:

- Quaternary Laterites, Sands and Clays
- Tertiary Sandstone, Gravels and Clays
- Cretaceous Limestone.
- Calcareous Sandstone and Clay unconformity.
- Archaean Charnockites, Gneisses, Granites, Dolerites and Pegmatite

The major part of the area is covered by metamorphic crystalline rocks of charnockite, granitic gneiss of Archaean age intruded by dolerite dykes and pegmatite veins. These rocks are highly metamorphosed and

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

have been subjected to very severe folding, crushing and faulting. Ground Water occurs under phreatic conditions and wherever there are deep seated fractures, it occurs under semi-confined to confined conditions.

Occurrence of Ground Water in hard rock depends upon the intensity and depth of weathering, fractures and fissures present in the rocks. Granites and gneisses yield moderately compared to the yield in Charnockites. The depth of well in hard rock generally ranges between 8 and 15m below ground level. Generally, yield in open wells ranges from 30 to 250m³ /day and in bore well between 260 and 430 m³ /day. The weathered thickness varies from 2.5 m to 42m in general. There are 3 to 5 fracture zones within 100 m and 1 to 4 fracture zones between 100 and 200 m. The Cretaceous formation is represented by Arenaceous Limestone, Calcareous sand - stone and marl. The Tertiary formation is an argillaceous comprising of Silty clay stones, argillaceous Limestone. The Quaternary deposits represented by the river deposits of Ponnaiyar and Varahanadhi spread over as patches in Villupuram District. The alluvium consists of unconsolidated sands, gravelly sands, clays and clayey sands. The thickness of the sands ranges between 15 and 25 m in the alluvial formation which also form potential aquifers. In some areas, sandstone of tertiary formation are potential groundwater reservoirs.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

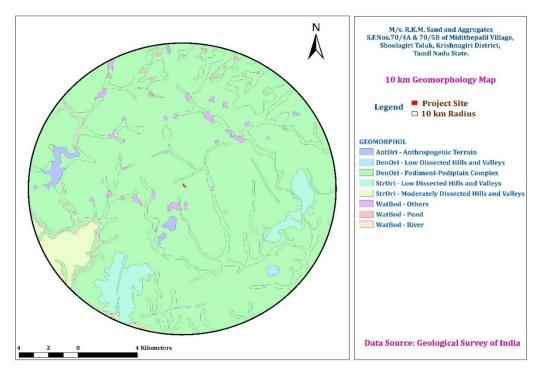


Figure 2.7: Geomorphology

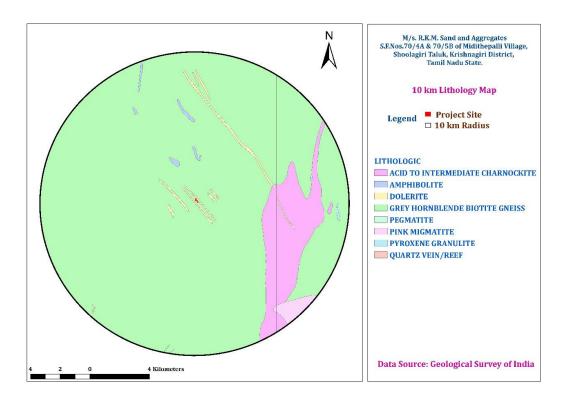


Figure 2.8 Lithology

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

2.6 QUALITY OF RESERVES:

The mining lease area is 3.76.67 Ha, with production capacity of 12,24,475m³ of Rough Stone and 82,530 m³ of Gravel. Due to its significant role in the domestic as well as infrastructural market, making the mining of Stone along with associated minor minerals is economically viable.

Table 2-6: Details of Mining

S. No	Particulars	Details
1	Method of Mining	Open Cast mechanized
2	Geological resources	21,44,580 m ³ of Rough Stone & 96,630 m ³ Gravel
3	Recoverable Reserves	12,24,475m³ of Rough Stone & 82,530 m³ of Gravel
4	Proposed Production	12,24,475 m ³ of Rough Stone & 82,530 m ³ of Gravel
5	Elevation Range of the Mine Site	The altitude of the area is 869m above MSL.

2.6.1 Estimation of Reserves

The practical method of the systematic geological mapping and delineation of Rough stone (Charnockite) within the field was done and careful evaluation of body luster, physical properties, engineering properties, commercial aspects, etc. The Topographical, Geological plan and sections demarcated the commercial marketable Rough stone (Charnockite) deposit has been prepared in 1:1000 scale and the estimated balance Geological resources as 12,24,475 m³ of Rough Stone.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

2.6.2 *Geological resources*

Gravel:

The Thickness of Gravel in this area is 2.0m and the total volume of Gravel will be 96,630 m³.

Rough Stone:

The Available Geological Resources is estimated as 21,44,580m³ respectively. Gravel is calculated up to a depth of 2m and Rough Stone at a depth of 45m. Total Depth-47m.

Table 2-7: Geological resources

Section	Bench	L (m)	W (m)	D (m)	Volume in (Cu.m.)	Geological Reserve in Cu.m (100%)	Gravel in (Cu.m.)
	I	236	150	2		, ,	70800
	II	221	141	5	155805	155805	
	III	236	150	5	177000	177000	
	IV	236	150	5	177000	177000	
XY-AB	V	236	150	5	177000	177000	
A I -AD	VI	236	150	5	177000	177000	
	VII	236	150	5	177000	177000	
	VIII	236	150	5	177000	177000	
	IX	236	150	5	177000	177000	
	X	236	150	5	177000	177000	
	To	tal=			1571805	1571805	70800
	I	123	105	2			25830
	II	107	105	5	56175	56175	
	III	123	105	5	64575	64575	
	IV	123	105	5	64575	64575	
XY-CD	V	123	105	5	64575	64575	
A1-CD	VI	123	105	5	64575	64575	
	VII	123	105	5	64575	64575	
	VIII	123	105	5	64575	64575	
	IX	123	105	5	64575	64575	
	X	123	105	5	64575	64575	
	То	tal=			572775	572775	25830
	Grand	Total=		2144580	2144580	96630	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

2.6.3 Mineable Reserves

Gravel:

The Thickness of Gravel in this area is 2.0m and the total volume of Gravel will be 82,530 m³.

Rough stone:

The Mineable reserves and the Recoverable reserves are 12,24,475m³ respectively, at the rate of 100% recovery upto the permissible depth. Total Depth - 47m (2m Gravel + 45m Rough Stone).

Table 2-8: Mineable Reserves

Section Bench L W D (m) (m)			Volume in (Cu.m.)	Mineable Reserve in Cu.m(100%)	Gravel in (Cu.m.)		
	I	229	135	2			61830
	II	221	133	5	146965	146965	
	III	229	135	5	154575	154575	
	IV	224	125	5	140000	140000	
XY-AB	V	219	115	5	125925	125925	
AY-AB	VI	214	105	5	112350	112350	
	VII	209	95	5	99275	99275	
	VIII	204	85	5	86700	86700	
	IX	199	75	5	74625	74625	
	X	194	65	5	63050	63050	
	Tota	al=	<u>I</u>		1003465	1003465	61830
	I	115	90	2			20700
	II	107	86	5	46010	46010	
	III	115	78	5	44850	44850	
	IV	110	68	5	37400	37400	
XY-CD	V	105	58	5	30450	30450	
	VI	100	48	5	24000	24000	
	VII	95	38	5	18050	18050	
	VIII	90	28	5	12600	12600	
	IX	85	18	5	7650	7650	
	Tota	al=			221010	221010	20700
	Grand '	Total=			1224475	1224475	82530

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

2.6.4 Year wise Production Plan

Rough stone production Ten Years details as follows:

The proposed rate of production of Rough Stone is estimated as 12,24,475m³ & Gravel is 82,530m³ for Ten Five years. The average proposed rate of production of Rough Stone is about 122447m3 per year at the rate of 100% recovery upto the permissible depth. Reserves Calculated upto 47m (2m Gravel + 45m Rough Stone). (Refer Drawing Plate No. IV-A1-Year wise Sections years.

Table 2-9: Year wise Production Plan

Year	Section	Bench	L (m)	W (m)	D (m)	Volume in m ³	Recoverable Reserve in m ³ @ 100%	Gravel in m ³
	XY-AB	I	229	135	2			61830
I-Year	AI-AD	II	221	133	5	146965	146965	
		TO	TAL			146965	146965	61830
		I	115	90	2			20700
II-Year	XY-CD	II	107	86	5	46010	46010	
II- Y ear		III	115	78	5	44850	44850	
		TO	TAL			90860	90860	20700
III-Year	XY-AB	III	229	135	5	154575	154575	
III- Y ear		TO	TAL			154575	154575	
IV-Year	XY-AB	IV	224	125	5	140000	140000	
IV-Year		TO	TAL			140000	140000	
	XY-CD	IV	110	68	5	37400	37400	
V-Year	A1-CD	V	105	58	5	30450	30450	
v - i ear	XY-AB	V	219	115	5	125925	125925	
		TOTAL					193775	
	XY-AB	VI	214	105	5	112350	112350	
VI-Year	XY-CD	VI	100	48	5	24000	24000	
		TO	TAL		136350	136350		
VII-Year	XY-AB	VII	209	95	5	99275	99275	
	XY-CD	VII	95	38	5	18050	18050	
		TO	TAL			117325	117325	
VIII-Year	XY-AB	VIII	204	85	5	86700	86700	
v III- i ear	XY-CD	VIII	90	28	5	12600	12600	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

	TOTAL				99300	99300		
	XY-AB	IX	199	75	5	74625	74625	
IX-Year	XY-CD	IX	85	18	5	7650	7650	
		ТО	TAL			82275	82275	
X-Year	XY-AB	X	194	65	5	63050	63050	
TOTAL				63050	63050			
Grand Total				1224475	1224475	82530		

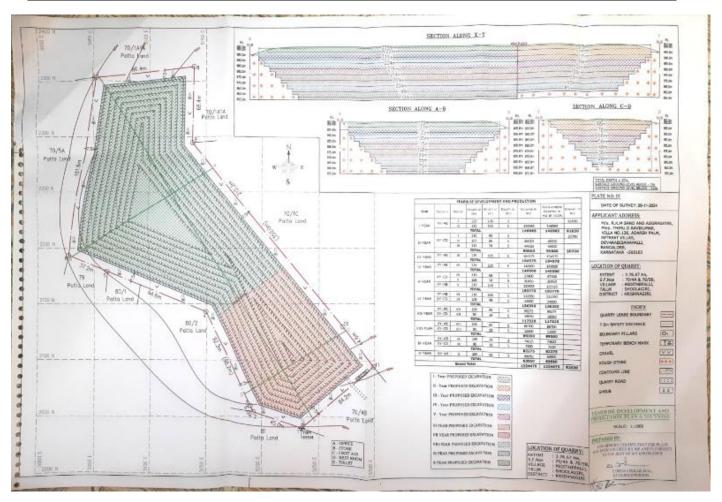


Figure 2.9 Year Wise Plan

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

2.7 TYPE OF MINING

The proposed project is an open cast mechanized mining with one 2.0 m bench for Gravel followed by a 5.0m vertical bench with a bench width not less than the bench height. However, as far as the quarrying of Rough Stone is concerned, observance of the provisions of regulations 106(2) (b) as above is seldom possible due to various inherent Petro genetic factors coupled with mining difficulties. Hence, it is proposed to obtain relaxation to the provisions of the above regulation from the Director of Mines Safety for which necessary provision is available with Regulation 106(2) (b) of MMR-1961, under Mines Act- 1952.

2.7.1 *Method of Working:*

The Rough stone are proposed to quarry at 5m bench height & 5m bench width with conventional Open cast mechanized method. The quarry operation involves Shallow jack hammer drilling, Blasting, Loading & transportation of Rough Stone to the nearby crusher units/road formation works. The production of Rough Stone in this quarry involves the following method which is typical for Rough Stone quarrying in contrast to other major mineral mining.

Splitting of rock mass of considerable volume from the parent rocks by jackhammer drilling and blasting by manually braking and loading the Rough Stone from pit head to the needy crushing units/civil works for the needy sectors.

2.7.2 Overburden

The entire lease area covers 2.0m of Gravel and estimated quantity of Gravel is 82,530 m³. Gravel formation will be removed and transported to the needy users, only after obtaining permission and paying necessary seigniorage fees to the Government.

2.7.3 Machineries to be used

The type of machineries proposed for quarrying operation for the entire project is listed below.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Table 2-10: List of Machineries used

	Excavator of 1.2 Cu.m bucket capacity
For Mining operation and Load Equipment	Jack Hammer (25.5 mm dia)
	Tractor mounted compressor
Transportation	Tipper 3 No. of 10 M.T capacity

2.7.4 *Blasting*:

2.7.4.1 Blasting Pattern:

The quarrying operation will be carried out by Mechanized Opencast method in conjunction with conventional method of mining using jack hammer drilling and blasting for shattering effect and loosen the rough stone.

2.7.4.2 Drilling & Blasting:

Drilling and Blasting Parameters are as follows.

Table 2-11: Drilling and Blasting Parameters

1	Diameter of the hole	32-36 mm
2	Spacing	60 Cms
3	Depth	1 to 1.5 m
4	Charge / Hole	D.Cord with water or 70gms of gun powder or Gelatine.
5	Pattern of hole	Zig Zag
6	Inclination of hole	70° from the horizontal.
7	Quantity of rock broken	0.45 MT x 2.6 = 1.17 MT
8	Quantity of rock broken per day	111.24m³
9	Control Blasting efficiency @90%	1.17 x 90% = 1.05 MT / hole
10	Charge per hole	140 gms of 25mm dia catridge

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

2.7.4.3 Types of Explosives to be used:

A small diameter of 25mm Slurry explosives is proposed to be used for shattering and heaving effect for removal and winning of Rough Stone. No deep hole drilling or primary blasting is proposed.

2.7.4.4 Measures to minimize ground vibration due to blasting:

The quarry is situated more than 1 km from the nearby villages. Controlled blasting measures will be adopted for minimizing the ground vibration and fly of rocks. Shallow depths jackhammer drilling & blasting is proposed to be carried out with minimum use of explosive mainly to give shattering effect in rough stone for easy excavation and to control fly of rock.

Table 2-12: Blasting Details

Parameters	Details	
Diameter of holes	32-36mm	
Spacing	60 cms	
Powder factor	6 to 7 tons/kg of explosives	
Pattern of hole	Zig Zag	
Charge/hole	D.Cord with water or 70gms of gun powder or Gelatine.	
Blasted at daytime	5 to 6 pm	

2.7.4.5 Storage & Safety measures taken during blasting:

The project proponent "M/s. RKM Sand and Aggregates" will engage an authorized explosive agency to carry out the small amount of blasting and it will be supervised by Permit Mines Manager. The copy of the explosive certificate is attached as *Annexure*.

2.8 MAN POWER REQUIREMENTS

The manpower requirement to meet out the production Schedule and the machinery strength envisaged in the mining plan and to comply with the statutory provisions of the Mines Safety Regulations is as follows.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Table 2-13: Man Power Requirements

		Operators	3 Nos	
1.	Skilled	Mechanic	2 Nos	
		Blaster / Mat	1 No	
2.	Semi – skilled	Drivers	3 Nos	
		Musdoor / Labors	6 Nos	
3.	Unskilled	Cleaners	2 Nos	
		Office Boy	1 No	
4.	4. Management & Suoervisory staff			
	Total			

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

2.8.1 Water Requirement

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

Table 2-14: Water Requirment

Purpose	Quantity	Sources
Dainlein a Water	1 0 VI D	Packaged Drinking water vendors available in
Drinking Water	1.0 KLD	Midithepalli village which is about 1.70 km NE from the
		project site.
Green belt	0.5 KLD	Other domestic activities through road tankers supply
Dust suppression	0.5 KLD	From road tankers supply
Total	2.0 KLD	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

2.9 PROJECT IMPLEMENTATION SCHEDULE

The implementation schedule of the proposed Mine Lease of M/s. RKM Sand and Aggregates (3.76.67 ha) is as follows.

Table 2-15: Mining Schedule

MINING SCHEDULE										
Activity	Dec									
Activity		26	27	28	29	30	31	32	32	33
Site Clearance										
Excavation –										
Top Soil Removal/Overburden										
I Year Production – 146965 Cum -										
Rough Stone & 61830 Cum Gravel										
II Year Production – 90860 Cum -										
Rough Stone & 20700 Cum Gravel										
III Year Production – 154575 Cum -										
Rough Stone										
IV Year Production – 140000 Cum -										
Rough Stone										
V Year Production – 193775 Cum -										
Rough Stone										
VI Year Production – 136350 Cum -										
Rough Stone										
VII Year Production – 117325 Cum -										
Rough Stone										
VIII Year Production – 99300 Cum -										
Rough Stone										
IX Year Production – 82275 Cum -										
Rough Stone										
X Year Production – 63050 Cum -										
Rough Stone										

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

2.10 SOLID WASTE MANAGEMENT

Table 2-15: Solid Waste Management

S. No	Туре	Quantity	Disposal Method
1	Organic	3.6 kg/day	Municipal bin including food waste
2	Inorganic	5.4 kg/day	TNPCB authorized recyclers

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

2.11 MINE DRAINAGE

The quarry operation is proposed upto a depth of 47.0m (2.0m Gravel & 45.0m Rough stone).

The ground water table is reported as 66m below ground level in nearby wells of this area. Mining depth taken as 45m. Now, proposed quarry depth is above the water table. Hence, quarrying may not affect the ground water.

2.12 POWER REQUIREMENT

This rough stone 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.

2.13 PROJECT COST

S.NO	Description of cost	Cost of lakhs		
A	Fixed Asset cost:			
	Land cost (Amount for Patta Land)	Rs.37,20,000/-		
	Labours shed	Rs. 1,50,000/-		
	Refilling/Fencing cost	Rs.1,00,000/-		
	Sanitary facilities	Rs.80,000/-		
	Total Fixed Asset cost	Rs.40,50,000/-		

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

В	Operational cost:	
	Machinery cost	Rs.40,00,000/-
	Total Operational Cost	Rs.40,00,000/-
Total Project cost (A+B)		Rs.80,50,000/-

2.14 GREENBELT

- 1. The development of greenbelt in the peripheral buffer zone of the mine area.
- 2. The Green belt has been recommended as one of the major components of the Environmental Management plan, which will improve ecology, environment and the quality of the surrounding area.
- 3. Local trees like Neem, Pungam, Naval etc. will be planted along the lease boundary and avenues as well as over non-active dumps at a rate of 200 trees per annum with interval 5m.
- 4. The rate of survival expected to be 80% in this area

Table. 2-17 Plantation/ Afforestation Program

Name of species proposed	Survival	No of species
Neem, Pungam, Poovarasu, Naval, Mantharai, Arasa Maram, Magizham, Vilvam, vaagai, Marudha maram, Thandri, Poovarasu, Quaker buttons, Thethankottai maram, Manjadi, Usil, Aathi, Panai, Uzha, Illuppai, Eachai, Vanni Maram	80%	1885
Total		1885

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

3 Description of the Environment

3.1 GENERAL:

The method of mining for extracting rough stone quarry is required to be selected in such a manner to ensure sustainable development. Mining activities invariably affect the existing environmental status of the site. It has both adverse and beneficial effects. In order to maintain the environmental commensuration with the mining operation, it is essential to undertake studies on the existing environmental scenario and assess the impact on different environmental components. This would help in formulating suitable management plans and sustainable resource extraction.

To understand the existing environmental scenario, Baseline data helps in identification, prediction and evaluation of impacts in Environmental Impact assessment. Through field study, baseline data are collected considering various factors of the project. This includes-

- Physical- the area, the soil properties, the geological characteristics, the topography, etc
- Chemical- water, air, noise and soil pollution levels, etc.
- Biological- the biodiversity of the area, types of flora and fauna, species richness, species distribution, types of ecosystems, presence or absence of endangered species and/or sensitive ecosystems etc.
- Socioeconomic- demography, social structure, economic conditions, developmental capabilities, displacement of locals, etc.

3.1.1 Study Area:

The study area for the mining projects is as follows:

- Mine lease area as the "core zone"
- A study area of 10 km radius from the project boundary is designated as buffer Zone and for the study of Socio-economic status, 10 km radius from the boundary limits of the mine lease area has been selected.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

We have obtained Terms of Reference from SEIAA vide Letter No. SEIAA-TN TOR Identification No. TO25B0108TN5423420N Dated: 13.05.2025. The baseline monitoring is carried out in April 2025 to June 2025 and the analysis is briefed in the EIA report. The proponent has engaged M/s. Ecotech labs Pvt. Ltd for carrying out the existing baseline study.

3.1.2 *Instruments Used*

The following instruments were used at the site for baseline data collection.

- 1. Respirable Dust Sampler with attachment for gaseous Pollutants, Envirotech APM 460, APM411.
- 2. Fine Particulate Matter (FPM) Sampler, APM 550
- 4. Sound Level Meter Model SL-4010
- 5. 2000 series watchdog automatic weathering monitoring station

3.1.3 Baseline Data Collection Period:

The baseline data is collected in accordance with the CPCB Guidelines. The Baseline study is carried out from April 2025 to June 2025.

3.1.4 Frequency of Monitoring

Table 3-1: Frequency of Sampling and Analysis

Attributes	Sampling	Frequency
Air environment – Meteorological (wind speed, wind direction, rainfall, humidity, temperature)	Project site	1 hourly continuous
Air environment – Pollutants	6 locations	24 hourly twice a week
PM 10		4 hourly.
PM 2.5		Twice a week, One non-
SO ₂		monsoon season
NO _X		8 hourly, twice a week

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

		24 hourly, twice a week
Noise	6 locations	24 hourly Once in 6 locations
Water (Ground water) pH, Temperature, Turbidity, Magnesium Hardness, Total Alkalinity, Chloride, Sulphate, Fluoride, Nitrate, Sodium, Potassium, Salinity, Total nitrogen, Total Coliforms, Fecal Coliforms	6 locations	Once in 6 locations
Water (surface water) pH, Temperature, Turbidity, Magnesium Hardness, Total Alkalinity, Chloride, Sulphate, Fluoride, Nitrate, Sodium, Potassium, Salinity, Total nitrogen, Total Coliforms, Fecal Coliforms	Sample from nearby lakes/river	One-time Sampling
Soil (Organic matter, Texture, pH, Electrical Conductivity, Permeability, Water holding capacity, Porosity)	6 locations	Once in 6 locations
Ecology and biodiversity Study	Study area covering 10 km radius	One-time Sampling
Socio- Economic study (Population, Literacy Level, employment, Infrastructure like school, hospitals & commercial establishments)	Villages around 10 km radius	One-time Sampling

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

3.1.5 Secondary data Collection

Apart from the primary data, Secondary data is also used for the collection; collation; synthesis and interpretation.

- Flora & Faunal Study
- Land use study
- Demography and socio-economic analysis
- Meteorological data, from Indian Meteorological Department (IMD)

3.1.6 Study area details

Table 3-2 Study area details

S. No	Description	Details	Source
1.	Project Location	S.F.Nos. 70/4A & 70/5B Midithepalli Village, Shoolagiri Taluk, Krishnagiri District.	Field Study
2.	Latitude & Longitude	12° 46' 07.7657" N to 12° 45' 57.2328" N 77° 57' 10.9141" E to 77° 57' 01.9504" E	Topo Sheet
3.	Topo Sheet No.	57- H/13	Survey of India Toposheet
4.	Mine Lease Area	3.76.67 На	
	Demograp	hy in the study area (as per Census 2011)	
5.	Total Population	2,873	Census
6.	Total Number of Households	650	Survey of India
7.	Maximum Temperature (°C)	34	IMD
8.	Minimum Temperature (°C)	24	
9.	Ecological Sensitive Areas -	 Muthali lake – 4.67Km – W Bukkasagaram Lake – 4.76Km- S 	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

10.	Wetlands, watercourses or other waterbodies, coastal zone, biospheres, mountains, forests Densely Populated area	 Berikai Lake – 5.12Km – N Peddakullu Lake – 5.86Km – SW Lake 1 – 5.25Km – SW Doripalli Lake – 6.28Km – S Thummanapalli Lake – 6.89Km – SSW Kelavarapalli Reservoir – 7.14Km – W Kamandoddi Lake – 8.56Km – S Kumudapalli Lake – 9.57Km – SW Moranapalli Lake – 9.89Km - SW Hosur - 13.02 Km -SE 	Google Earth/Fiel d Study
		S. Places Dist. From Project Site Schools & Colleges	
	Areas occupied by sensitive man-made	Government Higher Secondary School, Athimugam Adhiyaman college of Agriculture & Research, Assembly 2.88 Km - SE	
11.	land uses (hospitals, schools, places of worship, community facilities)	Athimugam. Government Higher Secondary School, 1.98 Km - SW Venkatesapuram	Google Earth/ Field Study
	racinties)	Hospitals	
		1 Government Hospital, Athimugam 3.70 Km - SEE	
		2 Government Hospital, Kamandoddi 8.82 Km - S	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

3.1.7 Site Connectivity:

The site is connected to Venkatesapuram village road which is about 1.43 km – South.



Figure 3.1: Site Connectivity

3.2 <u>LAND USE ANALYSIS</u>

3.2.1 Land Use Classification

Land Use / Land Cover - Land Use refers to man's activity and the various uses which are carried on land. Land Cover refers to natural vegetation, water bodies, rock/soil, artificial cover and others, resulting due to land transformation. The present Land Use/Land Classification map is developed with following objectives. The main objective of the study is to classify the different land use within 10 km from the project boundary.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

3.2.2 *Methodology*

Information of land use and land cover is important for many planning and management activities concerning the surface of the earth (Agarwal and Garg, 2000). Land use refers to man's activities on land, which are directly related to land (Anderson et al., 1976). The land use and the land cover determine the infiltration capacity. Barren surfaces are poor retainers of water as compared to grasslands and forests, which not only hold water for longer periods on the surface, but at the same time allow it to percolate down.

The terms 'land use' and 'land cover' (LULC) are often used to describe maps that provide information about the types of features found on the earth's surface (land cover) and the human activity that is associated with them (land use). Satellite remote sensing is being used for determining different types of land use classes as it provides a means of assessing a large area with limited time and resources. However, satellite images do not record land cover details directly and they are measured based on the solar energy reflected from each area on the land. The amount of multi spectral energy in multi wavelengths depends on the type of material at the earth's surface and the objective is to associate particular land cover with each of these reflected energies, which is achieved using either visual or digital interpretation. In the present study the task is to study in detail the land use and land cover in and around the project site. The study envisages different LULC around the proposed project area and the procedure adopted is as below.

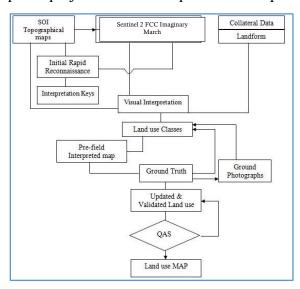


Figure 3.2 Flow Chart showing Methodology of Land use mapping

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

3.2.3 Satellite Data

Sentinal 2 multispectral satellite data of 2020 was utilized for the present study. Details of satellite data is given below. The rectification of imagery was carried out to bring the digital data on the earth coordinate system by means of ground control point (GCP) assignments/SOI topo sheets.

3.2.4 Scale of mapping

Considering the user defined scale of mapping, 1:50000 Sentinal 2 data was used for Land use / Land cover mapping of 10 km radius for proposed site. The description of the land use categories for 10 km radius and the statistics are given for 10 km radius.

3.2.5 Interpretation Technique

Standard on screen visual interpretation procedure was followed. The various Land use / Land cover classes interpreted along with the SOI topographical maps during the initial rapid reconnaissance of the study area. The physiognomic expressions conceived by image elements of color, tone, texture, size, shape, pattern, shadow, location and associated features are used to interpret the FCC imagery. Image interpretation keys were developed for each of the LU/LC classes in terms of image elements.

June 2016 FCC imagery (Digital data) of the study area was interpreted for the relevant land use classes. On screen visual interpretation coupled with supervised image classification techniques are used to prepare the land use classification.

- 1. Digitization of the study area (10 km radius from the proposed site) from the topo maps
- 2. In the present study the sentinal satellite image and SOI topo sheets of 57-H/14 have been procured and interpreted using the ERDAS imaging and ARC-GIS software adopting the necessary interpretation techniques.
- 3. Satellite data interpretation and vectorization of the resulting units
- 4. Adopting the available guidelines from manual of LULC mapping using Satellite imagery (NRSA, 1989)
- 5. Field checking and ground truth validation
- 6. Composition of final LULC map

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

The LULC Classification has been done at three levels where level -1 being the broad classification about the land covers that is Built-up land, agriculture land, waste land, wetlands, and water bodies. These are followed by level –II where built-up land is divided into towns/cities as well as villages. The Agriculture land is divided into different classes such as cropland, Fallow, Plantation, while wastelands are broadly divided into, Land with scrub and without Scrub and Mining and Industrial wasteland. The wetlands are classified into inland wetlands, coastal wetlands and islands. The water bodies are classified further into River/stream, Canal, Tanks and bay. In the present study level II classification has been undertaken. The SOI Topo map is presented in Annexure and Satellite imagery of 10 km radius from the project site is presented Annexure.

3.2.6 Field Verification

Field verification involved collection, verification and record of the different surface features that create specific spectral signatures / image expressions on FCC. In the study area, doubtful areas identified in course of interpretation of imagery is systematically listed and transferred on to the corresponding SOI topographical maps for ground verification. In addition to these, traverse routes were planned with reference to SOI topographical maps to verify interpreted LU/LC classes in such a manner that all the different classes are covered by at least 5 sampling areas, evenly distributed in the area. Ground truth details involving LU/LC classes and other ancillary information about crop growth stage, exposed soils, landform, nature and type of land degradation are recorded and the different land use classes are taken the Land use map is presented in Annexure.

3.2.7 Description of the Land Use / land cover classes

3.2.7.1 Water

Areas where water was predominantly present throughout the year; may not cover areas with sporadic or ephemeral water; contains little to no sparse vegetation, no rock outcrop nor built up features like docks; examples: rivers, ponds, lakes, oceans, flooded salt plains.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

3.2.7.2 Trees

Any significant clustering of tall (~15-m or higher) dense vegetation, typically with a closed or dense canopy; examples: wooded vegetation, clusters of dense tall vegetation within savannas, plantations, swamp or mangroves (dense/tall vegetation with ephemeral water or canopy too thick to detect water underneath).

3.2.7.3 Grass

Open areas covered in homogenous grasses with little to no taller vegetation; wild cereals and grasses with no obvious human plotting (i.e., not a plotted field); examples: natural meadows and fields with sparse to no tree cover, open savanna with few to no trees, parks/golf courses/lawns, pastures.

3.2.7.4 Flooded vegetation

Mix of small clusters of plants or single plants dispersed on a landscape that shows exposed soil or rock; scrub-filled clearings within dense forests that are clearly not taller than trees; examples: moderate to sparse cover of bushes, shrubs and tufts of grass, savannas with very sparse grasses, trees or other plants.

3.2.7.5 Crops

Humans planted/plotted cereals, grasses, and crops not at tree height; examples: corn, wheat, soy, fallow plots of structured land.

3.2.7.6 Scrub/Shrub

Mix of small clusters of plants or single plants dispersed on a landscape that shows exposed soil or rock; scrub-filled clearings within dense forests that are clearly not taller than trees; examples: moderate to sparse cover of bushes, shrubs and tufts of grass, savannas with very sparse grasses, trees or other plants.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

3.2.7.7 Built Area

Human made structures; major road and rail networks; large homogenous impervious surfaces including parking structures, office buildings and residential housing; examples: houses, dense villages / towns / cities, paved roads, asphalt.

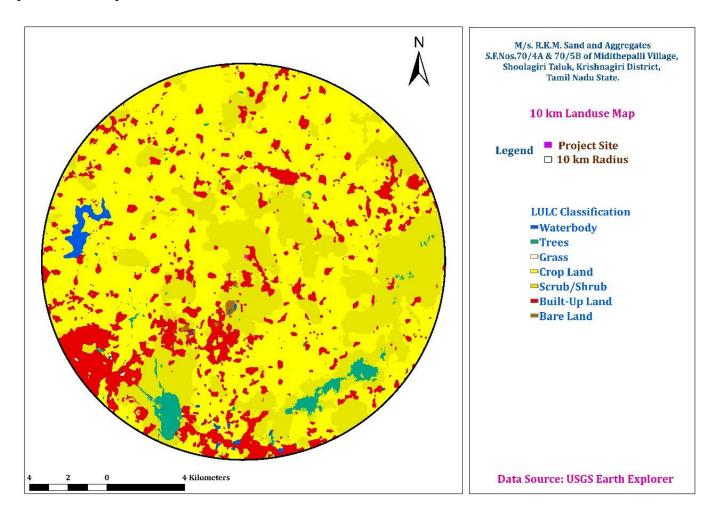


Figure 3.3 Land use classes around 10 km radius from the project site

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

3.2.7.8 Different Land use classes around 10 km radius from the project site

Table 3-3 Land use pattern

Sl. No	Categories	Area in Sq.m	Percentage
1	Water Body	2.91	0.89
2	Trees	6.16	1.89
3	Grass	0.06	0.02
4	Crops	185.35	57.13
5	Scrub/Shrub	83.54	25.75
6	Built-up Area	45.88	14.14
7	Barren Land	0.51	0.15

3.3 WATER ENVIRONMENT

3.3.1 Contour & Drainage

The altitude of the area is 869m above MSL.

3.3.2 *Geomorphology*

The prominent geomorphic units identified in the district through interpretation of satellite imagery are structural hills in the southwestern part of the district, denudational landforms like buried pediments in the plains and inselbergs and plateaus represented by conical hills aligned with major lineaments. Krishnagiri district forms part of the upland plateau region with many hill ranges and undulating plains. The western part of the district has hill ranges of Mysore plateau with a chain of undulating hills and deep valleys extending in NNE-SSW direction. The plains of the district have an average elevation of 488 m amsl. The plateau region along the western boundary and the northwestern part of the district has an average elevation of 869m Amsl. The Guthrayan Durg with an elevation of 1395 m amsl is the highest peak in the district.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Soils

Soils have been classified into Black soil, mixed soil, red loamy soil, gravelly and sandy soils. Red loamy and sandy soils are predominant in Hosur taluk. Vast stretches of loam soils and black soils occur in Krishnagiri district.

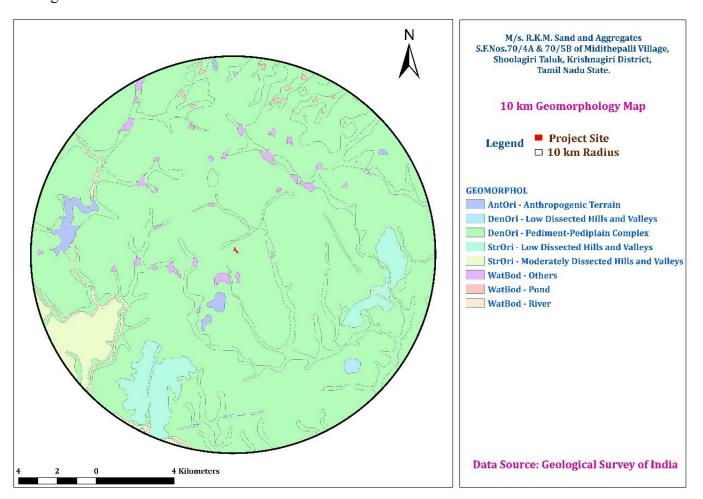


Figure 3.4 Geomorphology within 10km from the project site

3.3.3 *Geology:*

The geological formations of the district belong mainly to Archaean age along with rock of Proterozoic age. The former is rerpresented by Khondalite Group of rocks, Charnockite Group of rocks, Migmatites Complex, Sathyamangalam Group of rocks, while the latter is represented by Alkaline rocks. The Khondalite Group includes garnet sillimanite gneiss and quartzite which occur as small patches. The

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

migmatite complex includes garnet ferrous quartzofeldspathic gneiss and horn blends biotite gneiss, the former exposed on the western part of the district. The Sathyamangalam Group includes fuchsite quartzite, sillimanite mica schist and amphibolites. The Bhavani Group in this area includes fissile hornblende-biotite gneiss, granitoid gneiss and pink migmatite. Amphibolites with barbed ferruginous quartzite and associated quartzo-feldspathic rocks (Champion Gneiss) represent the Kolar group and are found west and southwest of Veppanapalli. Following this there are basic intrusions occurring as dykes.

The Charnockite Group occupies a major part of the south-west portion of this district with small bands of garnetiferous quartzo-feldspathicgneiss, Granite gneiss and dolerite dykes. The North-East andNorthernpartof the District mainly consist of granite gneiss with small patches of Pink Migmatite, hornblende-biotite gneiss and dolerite dykes. The Eastern part of the district consists of Epidote-Hornblende Gneiss, Ultra Mafics, Syenite and Carbonatite.

The Alkaline Complex is represented by epidote-horn blende gneiss, ultramafics, syenite and carbonatite and these are distributed in the eastern part of the district. Innumerable basic dykes and felsites, quartz, barites and pegmatite veins form part of the Alkali Complex.

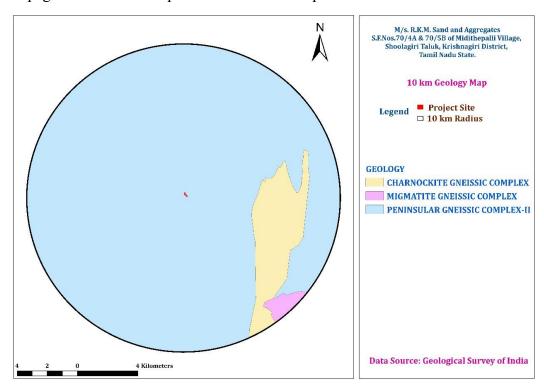


Figure 3.5 Geology within 10km from the project site

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

3.3.4 *Hydrogeology*

Krishnagiri district is underlined by Archaean crystalline formations with Recent alluvial deposits of limited areal extent and thickness along the courses of major rivers (Plate-II). The occurrence and movement of ground water are controlled by various factors such as physiography, climate, geology and structural features. Weathered, and fractured crystalline rocks constitute the important aquifer systems in the district.

Ground water generally occurs under phreatic conditions in the weathered mantle and under semi-confined conditions in the fractured zones at deeper levels. The thickness of weathered zones in the district ranges from less than a meter to more than 15 m. The yield of large diameter dug wells in the district, tapping the weathered mantle of crystalline rocks ranges from 100 to 500 lpm. These wells normally sustain in pumping for 2 to 6 hours per day, depending upon the local topography and characteristics of the weathered mantle.

The depth to water level (DTW) during pre-monsoon (May 2006) ranged between 0.5 and 9.9 m bgl (Plate-III) in the district. In major part of the district the DTW is more than 5mbgl. Whereas it ranged between 2 and 9.9 m bgl (Plate-IV) during post monsoon, in the district and the DTW is in the range of 5 – 10 m bgl in the entire district except a few isolated pockets.

The yield of successful exploratory wells drilled in the district ranged from 0.78 lps to 26 lps. As per the studies the wells drilled in granitic gneiss have higher yields than the wells drilled in charnockites. The specific capacity of the wells ranged from 1.2 to 118.0 lpm/m/dd. The piezometric head of fracture zones varied between 0.50 and 18.45 m bgl.

Aquifer Parameters:

The transmissivity values of fracture zones ranged from 1 to 188 m²/day with low to very low permeability values.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

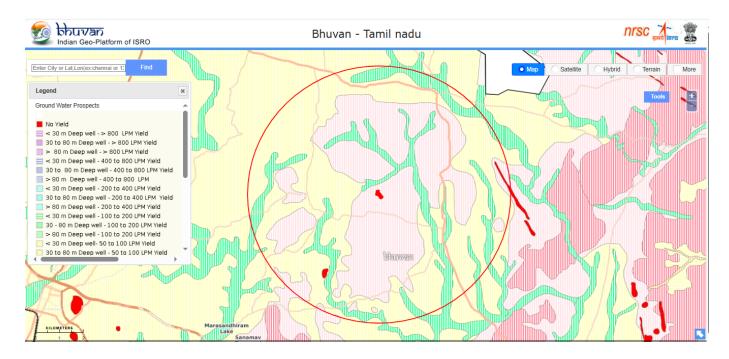


Figure 3.6 Ground water prospects within 5 km radius of the project site

3.3.5 Ground water quality monitoring

Ground water quality monitoring is done in the following locations, and analysis will be done for physical, chemical & Biological parameters.

Table 3-4 Ground water Quality Analysis

Environmental Parameters: Ground water Quality Analysis					
Monitoring Period	April 2025 to June 2025				
Design Criteria	Based on the Environmental settings in the study area				
Monitoring Locations	Project Site - GW1 Lord Shiva Temple, Muthali – GW2 Bhargavi Narasimha Swamy Temple, Berikai Road Sandarasettipalli – GW3 Govt.Hr Sec School,bukkasagaram – GW4				

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

	Midhitepalli Bus Stop – GW5			
	$Garagamma\ Temple-Vanamangalam-GW6$			
	Sri Ardhanareshwaramma Temple – Moranapalli – GW7			
Methodology	Water Samples were collected in 5 Litre fresh cans as per IS 3025			
	Part I and transported to the laboratory in Iceboxes			
Frequency of Monitoring	Once in a season			

3.3.5.1 Sampling Procedure

Quality of ground water was compared with IS: 10500: 1991 (Reaffirmed 1993 With Amendment NO-3 July 2010) for drinking purposes. Water samples were collected as Grab sample from five sampling locations in a 5-liter plastic jerry can and 250 ml sterilized clean glass/pet bottle for complete physicochemical and bacteriological tests respectively. The samples were analyzed as per standard procedure / method given in IS: 3025 (Revised Part) and standard method for examination of water and wastewater Ed. 21st, published jointly by APHA.

Table 3-5: Standard Procedure

S.no	Parameters	Test Method
1	pH (at 25°C)	IS:3025(P -11)1983 RA: 2012
2	Electrical Conductivity	IS:3025(P -14) 2013
3	Colour	IS:3025 (P -4)1983 RA: 2012
4	Turbidity	IS:3025(P -10)1984 RA: 2012
5	Total Dissolved Solids	APHA 23rd Edn.2017-2540-C
6	Total Suspended Solids	IS:3025(P-17)-1984 RA:2012
7	Total Hardness as CaCO3	APHA 23rd Edn.2017-2340-C
8	Calcium Hardness as CaCO3	APHA 23rd Edn2017.3500 Ca-B
9	Magnesium Hardness as CaCO3	APHA 23rd Edn.2017-3500 Mg-B
10	Calcium as Ca	APHA 23rd Edn2017.3500 Ca-B

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

11	Magnesium as Mg	APHA 23rd Edn.2017-3500 Mg-B
12	Chloride as Cl	IS:3025(P -32)-1988 RA: 2014
13	Sulphate as SO4	APHA 23rd Edn.2017-4500 SO4E
14	Total Alkalinity as CaCO3	APHA 23rd Edn.2017-2320-B
15	Iron as Fe	IS:3025(P -53):2003 RA: 2014
16	Silica as SiO2	IS:3025(P -35)1988 RA: 2014
17	Fluoride as F	APHA 23rd Edn.2012-4500-F-D
18	Nitrate as NO3	IS:3025(P -34):1988 RA: 2014
19	Potassium as K	IS:3025(P -45):1993 RA: 2014
20	Sodium as Na	IS:3025(P -45):1993 RA: 2014
21	COLIFORM	IS: 1622:1981:RA:2014
22	E.COLI	IS: 1622:1981:RA:2014

Table 3-6 Ground water sampling results

S. no	Parameters	Units	GW1	GW2	GW3	GW4	GW5	GW6	GW7
1	pH (at 25°C)	-	7.87	8.06	7.96	7.11	7.88	8.05	7.96
2	Electrical Conductivity	μS/c m	1552	995	1205	720	1632	645	1622
3	Color	Haze n Unit	BQL(L OQ:5)						
4	Turbidity	NTU	BQL(L OQ:1)						
5	Total Dissolved Solids	mg/L	875	637	732	412	931	445	1054
6	Total Suspended Solids	mg/L	BQL(L OQ:2)						
7	Total Hardness as CaCO ₃	mg/L	452	419	531	273	379	232	521
8	Calcium Hardness as CaCO ₃	mg/L	328	274	303	100	274	130	274

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

9	Magnesium Hardness as CaCO ₃	mg/L	124	145	228	173	105	102	247
10	Calcium as Ca	mg/L	132	110	122	40.3	110	52.2	110
11	Magnesium as Mg	mg/L	30.2	35.5	55.6	41.8	25.5	24.6	60.2
12	Chloride as Cl	mg/L	155	60.6	130	42.2	236	48.3	302
13	Sulphate as SO ₄	mg/L	162	144	90.5	75.5	60.2	32.2	185
14	Total Alkalinity as CaCO ₃	mg/L	330	310	245	193	320	311	245
15	Iron as Fe	mg/L	BQL(L OQ:0.1)						
16	Silica as SiO ₂	mg/L	33.3	24.5	29.7	17.7	40.2	66.7	39.9
17	Fluoride as F	mg/L	0.72	1.11	0.55	1.09	1.45	1.885	0.876
18	Nitrate as NO ₃	mg/L	18.8	16.6	15.5	11.9	9.32	10.2	8.8
19	Potassium as K	mg/L	10.5	5.6	11.1	6.6	12.2	2.6	15.5
20	Sodium as Na	mg/L	130	45.5	120	56.6	203	36.6	192
21	COLIFORM	-	4	7	110	14	27	8	<2
22	E COLI	-	<2	<2	33	<2	11	<2	<2

3.3.6 Interpretation of results:

3.3.6.1 Physical parameters of water:

The basic physical parameters of water include

Colour:

Value observed in Project Site (True/Apparent Color): BQL(LOQ:5).

Acceptable and permissible limits: 5 Hazen units and 15 Hazen units respectively. The value in the project site is as same as the acceptable limits prescribed by IS:3025 (P -4)1983 RA: 2012 (referred as "*Standards*" from herein).

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Odour & Taste:

The water is oduorless. The taste of the water is slightly salty, which is due to the presence of hardness in water, which is attributed to the presence of calcium and magnesium in the water. As per the standards, the odour and taste should be agreeable.

pH:

Value observed in the Project Site: 7.87

Acceptable and permissible limits: 6.5-8.5. The pH value is the measure of acid – base equilibrium. The value of pH in the project site clearly indicates that water is slightly neutral in nature.

Turbidity:

Value observed in the Project Site: BQL(LOQ:1)

Acceptable and permissible limits: 1 NTU & 5 NTU respectively. The value of turbidity generally indicates the presence of phytoplankton and other sediments.

Total Dissolved Solids:

Value observed in the Project Site: 875 mg/L.

Acceptable and permissible limits: 500 mg/L and 2000 mg/L respectively.

TDS is the presence of inorganic salts and small amounts of organic matter present in the water. This is mainly due to the result of surface runoff as the cations and anions in the topsoil is carried away by the water.

3.3.6.2 Chemical parameters of water:

The chemical parameters of the drinking water include,

Calcium:

Value observed in the Project Site: 132 mg/L.

Acceptable and permissible limits: 75mg/L and 200 mg/L respectively.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Calcium is an essential macronutrient. The value of the calcium is within the prescribed permissible standards. The higher level of calcium may cause hardening in domestic equipment and will also reduce the detergent efficiency. Higher levels of calcium will lead to constipation, gas, and bloating. Apart from that, extra calcium may also increase the risk of kidney stones. If the calcium deposit in blood is high, it may lead to hypercalcemia.

Magnesium:

Value observed in the Project Site: 30.2 mg/L.

Acceptable and permissible limits: 30 mg/L and 100 mg/L respectively.

The value of Magnesium in the project site is higher than the acceptable limit and less than the permissible limit. The increase in the level of magnesium will cause diarrhea and vomiting in children.

Chloride

Value observed in the project site: 155 mg/L.

Acceptable and permissible limits: 250 mg/L and 1000 mg/L respectively.

The chloride level in the project site is within the acceptable and permissible limit. If the level of chloride is more, it may cause galvanic and pitting corrosion, increases level of metals. It imparts bitter taste to the water.

Total Alkalinity as CaCO3:

Value observed in the project site: 330 mg/L.

Acceptable and permissible limits: 200 mg/L and 600 mg/L respectively.

Total Alkalinity is the measure of the concentration of all alkaline substances dissolved in the water which includes carbonates, bicarbonates and hydroxides. The value of the total alkalinity is slightly greater in the project site, which will impart soda taste to the water.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Hardness:

Value observed in the Project Site: 452 mg/L.

Acceptable and permissible limits:200 mg/L and 600 mg/L respectively.

The value of Hardness in the project site is higher than acceptable limit but within the permissible limit. The increase in the level of hardness may cause corrosion and scaling problems, increased soap consumption and it also contributes to the salty taste of water.

3.3.7 Surface Water Analysis

Surface water samples were taken from **Bukkasagaram and Muthali lake**. The results are summarized below.

Table 3-7 Surface Water Sample Results

S. No	Parameters	Units	Bukkasagaram	Muthali
1	pH (at 25°C)	-	8.11	7.77
2	Electrical Conductivity	μS/cm	380	228
3	Color	Hazen Unit	BQL(LOQ:5)	BQL(LOQ:5)
4	Turbidity	NTU	5	10
5	Total Dissolved Solids	mg/L	247	135
6	Total Suspended Solids	mg/L	BQL(LOQ:2)	BQL(LOQ:2)
7	Total Hardness as CaCO3	mg/L	45	72.5
8	Calcium as Ca hardness	mg/L	42	33
9	Calcium as Ca	mg/L	16.8	13.3
10	Magnesium as Mg hardness	mg/L	3.1	39.5
11	Magnesium as Mg	mg/L	BQL(LOQ:1)	9.6
12	Chloride as Cl	mg/L	24.6	30.2
13	Sulphate as SO4	mg/L	5.87	12.2
14	Total Alkalinity as CaCO3	mg/L	62.4	53.3
15	Iron as Fe	mg/L	BQL(LOQ:0.1)	BQL(LOQ:0.1)

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

16	Silica as SiO2	mg/L	8.3	9.5
17	Fluoride as F	mg/l	0.704	0.212
18	Sodium as Na	mg/l	16.6	23.8
19	Potassium as k	mg/L	2.1	5.5
20	Total Kjeldahl Nitrogen as N	mg/L	14.6	11.8
21	Biochemical Oxygen Demand@270C	mg/L	9.1	10.2
22	Chemical Oxygen Demand	mg/L	29.9	30.7
23	Dissolved Oxygen	mg/L	5.1	4.6
24	Nitrate	mg/L	8.2	9.6
25	Coliform	mg/L	27	80
26	E. Coli	mg/L	7	14

Inference: The surface water quality is compared with the CPCB Water Quality Criteria against A, B, C, D & E class of water. From the test result, it is found that both the water does not fit Class A (Drinking Water Source without conventional treatment but after disinfection). But they can be used for outdoor bathing as it meets the requirements shown for class B water.

3.3.8 Climatology & Meteorology:

Climate and meteorology of a place can play an important role in the implementation of any developmental project. Meteorology is also the key to understand local air quality as there is an essential relationship between meteorology and atmospheric dispersion involving wind in the broadest sense of the term.

The year may broadly be divided into four seasons:

Winter season : December to February

Pre-monsoon season: March to May

Monsoon season : July to September

Post-monsoon season: October to November

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

i) Climate

The Eastern part of the district experiences hot climate and the Western part has a contrasting pleasant cold climate. The district is hot and dry in summer i.e., from March to June. From July to November is the rainy season and between December to February winter prevails with very cold and misty.

ii) Temperature

The maximum temperature is around 36°C and minimum temperature is 28°C.

iii) Rainfall:

Krishnagiri receives rainfall from both the northeast and the southwest monsoons. Monsoon season is from the months of July to November. During this time, the temperature is mild and pleasant. Heavy rainfall is expected in short intervals during this period. December to February are winter months.

This district gets maximum rainfall in November (274.7mm).

KRISHNAGIRI DISTRICT -NORMAL AND ACTUAL RAINFALL

Unit in mm.

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1 cui	R/F	R/F	R/F	R/F	R/F	R/F	R/F	R/F	R/F	R/F	R/F	R/F
2017	5.7	0	48.7	37.9	198.6	19.1	24.6	189.7	291.7	219	54.5	56.2
2018	0	1.3	34.9	14.4	114.5	41.1	10.5	18.5	152.1	85.2	33.2	4.8
2019	13.2	1.2	4.5	47.2	96.5	33.6	34.6	94.7	138.6	177.7	48.7	39.5
2020	0.3	0	6.9	61.7	57.9	59	147.2	66.8	142.1	142	77	42.6
2021	40.1	5.8	0	46.6	75.7	32.4	137.7	70.2	134.9	140.4	282.6	19.1

Source: IMD

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Metrological Data

The meteorological data – Temperature, rainfall, Wind Speed, Wind direction are recorded through AWS by setting it up in the site.

vi) Wind Rose Diagram

The wind rose denotes a class of diagrams designed to display the distribution of wind direction at a given location over a period of time. Wind roses are also useful as they project a large quantity of data in a simple graphical plot.

The wind speed & wind direction data are taken and wind rose is plotted for April 2025 to June 2025.

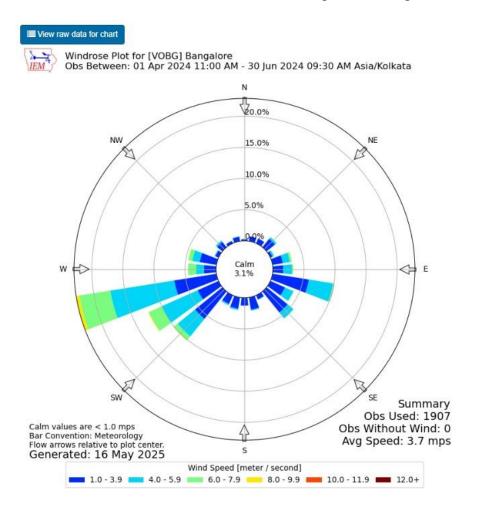


Figure 3.7 Wind rose.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

3.3.9 Selection of Sampling Locations:

Four Monitoring locations along with the project site is selected based on Wind Direction & Wind Speed. All the monitoring locations are chosen in the downwind direction.

3.4 AMBIENT AIR QUALITY

Table 3-8: Selection of Sampling Location

Environmental Parameters: Ambient Air											
Monitoring Period	April 2025 to June 2025										
Design Criteria	The monitoring stations are selected based on factors like topography/terrain, prevailing meteorological conditions like predominant wind direction (December 2022 to February 2023), etc., play a vital role in the selection of air sampling stations. Based on these criteria, 7 air sampling stations were selected in the area as shown below.										
Monitoring Locations	Location & Code Distance (km) Dire										
	Project Site	-	-								
	Lord Siva temple, Muthali	4.59 km	Upwind W								
	Bhargavi Narasimha Swamy Temple, Berikai Road Sandarasettipalli	6.37 km	Downwind E								
	Govt.Hr Sec School,bukkasagaram	4.10 km	Crosswind S								
	Midhitepalli Bus Stop	1.78 km	Crosswind NNE								
	Garagamma Temple Vanamangalam	7.76 km	Crosswind N								
	Sri Ardhanareshwaramma Temple - Moranapalli	8.18 km	Crosswind SW								

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Methodology	Respirable Particulate Matter (PM10) - Gravimetric (IS 5182: Part 23:2006)
	Particulate Matter PM2.5 - Gravimetric (Fine particulate matter)
	Sulphur Dioxide - Calorimetric (West & Gaeke Method) (IS 5182: Part 02:
	2001)
	Nitrogen Dioxide - Calorimetric (Modified Jacob & Hocheiser Method)
	(IS 5182: Part 06:2006)
Frequency of Monitoring	2 days in a week, 4 weeks in a month for 3 months in a season.

3.4.1 Ambient Air Quality: Results & Discussion

The test results of the ambient air quality monitored in project site and other four locations is summarized below.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

	uo		PM 10 (μg/m ³)			PM 2.5 ($\mu g/m^3$)			SO ₂ (μg/m ³)				NOx (μg/m ³)				
Code	Location	Min	Max	Avg	86	Min	Max	Avg	86	Min	Max	Avg	86	Min	Max	Avg	98
AAQ1	Project Site	54	60	56.8	60	21	27	24.5	27	12	19	15.2	19	15	23	20.0	23
AAQ2	Lord Shiva Temple, Muthali	48	59	54.0	58.54	20	26	23.5	26	11	17	13.1	16.54	14	22	18.6	22
AAQ3	Bhargavi Narasimha Swamy Temple,	42	54	48.6	53.54	17	24	21.5	24	7	14	10.2	13.54	13	20	17.1	20
AAQ4	Govt.Hr Sec School,bukkasagaram	46	55	51.1	55	19	25	22.4	25	8	15	11.1	15	17	21	17.8	21
AAQ5	Midhitepalli Bus Stop	56	66	61.4	65.54	22	29	26.6	29	14	20	17.9	20	14	25	23.0	25
AAQ6	Garagamma Temple - Vanamangalam	38	47	43.0	47	15	21	19.5	21	5	13	8.8	12.54	10	20	15.0	20
AAQ7	Sri Ardhanareshwaramma Temple - Moranapalli	41	53	46.9	52.54	16	22	18.3	22	6	13	8.8	12.54	11	19	15.3	19
	AAQ Standards - Residential Area		100) (µg/n	n ³)		60	μg/m ³)		80	(μg/m	3)		80	(μg/m ²	3)

Table 3-9 Ambient Air Quality

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	D 6 H14
Project Proponent	M/s. RKM Sand and Aggregates	Draft EIA Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

3.4.2 *Interpretation of ambient air quality:*

To assess the impact, AAQ were monitored in project site and four locations.

Observation:

The Maximum value of PM10 ($66 \, (\mu g/m^3)$, PM $2.5 (29 \, (\mu g/m^3)$, SOx ($20 \, (\mu g/m^3)$, NOx ($25 \, (\mu g/m^3)$ is observed in different places.

Inference:

The monitoring results for PM10, PM2.5, Sox, NOx was found to be high Midhitepalli Bus Stop and Project site which is due to high movement of vehicles. The observed values are all well within the Standards prescribed by NAAQ.

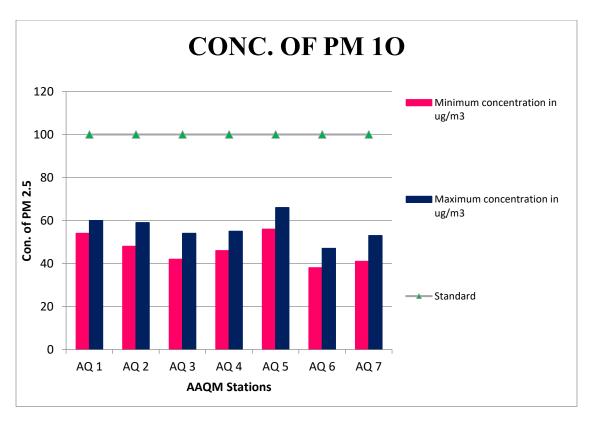


Figure 3.8 Concentration of PM10 (µg/m³) in Study Area

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	- 4
Project Proponent	M/s. RKM Sand and Aggregates	Draft EIA Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

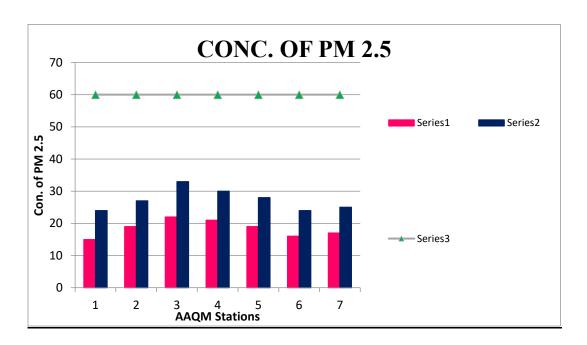
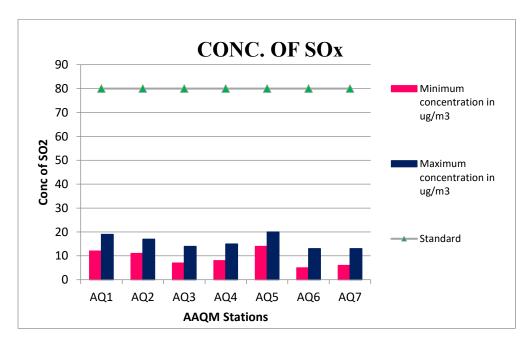


Figure 3.9 Concentration of PM2.5 (µg/m³) in Study Area



Project	Rough stone and Gravel Quarry – 3.76.67 Ha	
Project Proponent	M/s. RKM Sand and Aggregates	Draft EIA Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Figure 3.10 Concentration of SOx (µg/m³) in Study Area

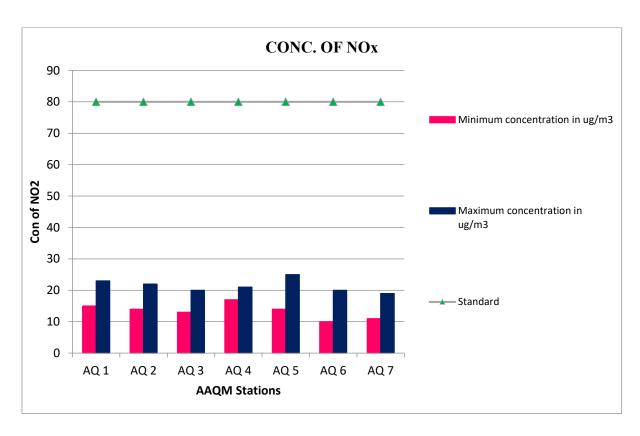


Figure 3.11 Concentration of NOx (µg/m³) in Study Area

3.5 **NOISE ENVIRONMENT:**

Table 3-10 Noise Analysis

	Environmental Parameters: Noise Analysis
Monitoring Period	April 2025 to June 2025
Design Criteria	Based on the Sensitivity of the area
Monitoring Locations	Project Site – N 1 Lord Shiva Temple, Muthali – N 2

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	D 6 774
Project Proponent	M/s. RKM Sand and Aggregates	Draft EIA Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

	Bhargavi Narasimha Swamy Temple, Berikai Road Sandarasettipalli – N 3
	Govt.Hr Sec School,bukkasagaram – N 4
	Midhitepalli Bus Stop – N 5
	Garagamma Temple – Vanamangalam – N 6
	Sri Ardhanareshwaramma Temple – Moranapalli – N 7
Methodology	Noise level measurements were taken at the selected locations using noise level meter both during day and nighttime. Noise level measurements were taken continuously for 24 hours at hourly intervals
Frequency of Monitoring	Noise samples were collected from 7 locations - Once in a season

Ambient Noise Levels are monitored in the chosen 7 Locations including the project Site and the monitoring results are summarized below.

3.5.1 Day Noise Level (Leq day)

Table 3-11 Day Noise Level (Leq day)

Location	Leq day in dB(A)		
Location	Max	Min	Average
Project Site	51	41	48
Lord Shiva Temple, Muthali	57	46	53
Bhargavi Narasimha Swamy Temple, Berikai Road Sandarasettipalli	65	55	60
Govt.Hr Sec School,bukkasagaram	66	56	61
Midhitepalli Bus Stop	55	45	52
Garagamma Temple - Vanamangalam	60	49	55

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	D 6 FM
Project Proponent	M/s. RKM Sand and Aggregates	Draft EIA Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Sri Ardhanareshwaramma Temple -	55	13	50
Moranapalli	33	43	30

3.5.2 Night Noise Level (Leq Night)

Table 3-12 Night Noise Level (Leq Night)

	Leq Night in dB(A)		dB(A)
Location	Max	Min	Average
Project Site	43	36	39
Government High School, Muthali	47	39	42
Bhargavi Narasimha Swamy Temple, Berikai Road Sandarasettipalli	52	45	48
Govt.Hr Sec School,bukkasagaram	53	46	49
Midhitepalli Bus Stop	44	36	40
Garagamma Temple - Vanamangalam	46	39	42
Sri Ardhanareshwaramma Temple - Moranapalli	42	35	38

Observation:

The maximum Day noise and Night noise were found to be 66 dB(A) and 53 dB(A) respectively in Government High School, Bukkasagaram. The minimum Day Noise and Night noise were 41 dB(A) and 36 dB(A) respectively which was observed in project site. The observed values are all well within the Standards prescribed by CPCB.

3.6 SOIL ENVIRONMENT

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	D 0.774
Project Proponent	M/s. RKM Sand and Aggregates	Draft EIA Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Soil environment is studied for 10 km radius from the project site. The 5 km radius image shows that the soil is not affected by any kind of erosion.

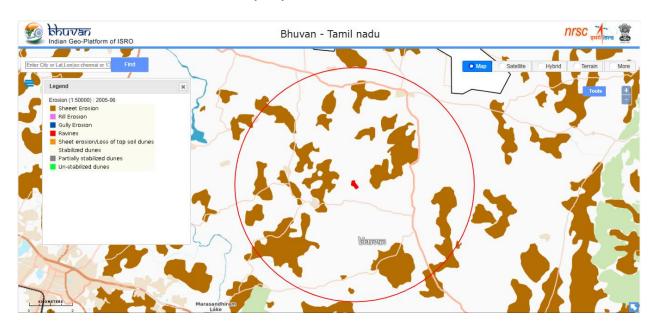


Figure 3.12 Soil Erosion pattern within 5 km radius of the project site

3.6.1 Baseline Data:

The present study of the soil quality establishes the baseline characteristics which will help in future in identifying the incremental concentrations if any, due to the operation Phase of the proposed project. The sampling locations have been identified with the following objectives:

- To determine the impact of proposed project on soil characteristics and
- To determine the impact on soils more importantly from agricultural productivity point of view.

Table 3-13 Soil Quality Analysis

Environmental Parameters: Soil Quality Analysis		
Monitoring Period	April 2025 to June 2025	
Design Criteria	Based on the environmental settings of the study area	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	- 0
Project Proponent	M/s. RKM Sand and Aggregates	Draft EIA Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	1

Monitoring Locations	Project Site – SQ 1					
	Lord Shiva Temple, Muthali - SQ 2					
	Bhargavi Narasimha Swamy Temple, Berikai Road Sandarasettipalli - SQ 3					
	Govt.Hr Sec School,bukkasagaram - SQ 4					
	Midhitepalli Bus Stop - SQ 5					
	Garagamma Temple – Vanamangalam - SQ 6					
	Sri Ardhanareshwaramma Temple – Moranapalli - SQ 7					
Methodology	Composite soil samples using sampling augers and field capacity apparatus					
Evacuation of Manitavin	Soil someles ware collected from 7 leastions Once in a sessen					
Frequency of Monitorin	Soil samples were collected from 7 locations Once in a season					

To assess the soil quality of the study area, 7 monitoring stations were selected and the results are summarized below.

Table 3-14 Soil Quality Analysis

Parameters	Unit	SQ 1	SQ 2	SQ 3	SQ 4	SQ 5	SQ 6	SQ 7
рН	-	7.25	8.56	8.06	7.79	8.11	7.89	7.88
Electrical Conductivity	ms/cm	0.45	0.75	0.44	0.260	0.61	0.388	0.15
Water holding Capacity	ml/L	3.2	5.2	5.10	4.70	3.60	6.9	2.60
Chloride	mg/Kg	195	181	177	35.5	115	95.2	158
Calcium	mg/Kg	110	144	52	42.2	70.2	85.2	51.3
Sodium	mg/Kg	495	692	432	355	460	203	440
Potassium	mg/Kg	530	710	405	320	499	185	492
Organic matter	%	0.55	0.77	0.51	0.72	0.32	0.56	0.11

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	
Project Proponent	M/s. RKM Sand and Aggregates	Draft EIA Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Magnesium	mg/Kg	26.6	32.2	18	14.2	40.1	26.6	26.5
Sulphate	mg/Kg	125	215	163	283	162	72.2	277
CEC	meq/100g	12.2	17.3	14.4	10.1	13.3	13.3	11.1
Carbonate	mg/Kg	NIL	76.5	NIL	NIL	18.2	NIL	NIL
Bi-Carbonate	mg/Kg	102	405	24.4	65.5	132	185	78.9
TKN	%	0.22	0.17	0.19	0.11	0.21	0.17	0.16
Bulk density	g/cm ³	1.55	1.32	1.22	1.65	1.32	1.19	1.34
Phosphorous	mg/Kg	165	266	232	188	110	85.5	157
Sand	%	70.2	70.2	69.6	66.6	58.2	55	64.3
Clay	%	14.1	20.2	22.0	16.3	20.2	21.1	14.3
Silt	%	23	13.1	12.4	25.5	23.3	26	21.4
SAR	meq/Kg	10.993	13.578	13.167	12.0731	10.85324	4.9225	12.4
Silicon	%	0.099	0.088	0.089	1.011	0.093	0.084	0.098

3.6.1.1 Physical Properties:

Regular cultivation practices increase the bulk density of soils thus inducing compaction. This results in a reduction in water percolation rate and penetration of roots through soils. Soils with low bulk density have favorable physical conditions whereas those with high bulk density exhibit poor physical conditions for agriculture crops. The bulk density of the soil in the study area ranged between 1.19 to 1.65 meq/100g which indicates favorable physical condition for plant growth. The water holding capacity was found in the range of 2.6 ml/l to 5.10 ml/l.

3.6.1.2 Chemical Properties:

Chemical characteristics of soils include pH, exchangeable cations and fertility status in the form of NPK values and organic matter. The value of the pH ranges from 7.25 to 8.56, which indicates majority of pH of the soil is slightly alkaline. The soil in the project site is sodic in nature, which challenges because they tend to have very poor structure which limits or prevents water infiltration and drainage. The organic matter varies from 0.11 to 0.77 %, which indicates the soil is slightly unfertile.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	D 6 H14
Project Proponent	M/s. RKM Sand and Aggregates	Draft EIA Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

3.7 ECOLOGY AND BIODIVERSITY

Ecology and Biodiversity is studied for 10 km radius around the project site. Project site and 2km around the project site is considered as core zone and from 2 km to 10 km radius, it is considered as buffer zone.

- Primary field survey is carried out for the assessment of flora and fauna in the core zone.
- Secondary data from Journals/Literature were studied and compiled to understand the species present in the buffer zone.

3.7.1 *Methods available for floral analysis:*

3.7.1.1 Plot Sampling Methods

- ➤ Quadrat 2D shape (e.g. square or rectangle, or other shape) used as a sampling unit
- > Transect
 - Line transects feature only a length dimension, usually defined by a tape stretched across the area to be sampled.
 - Belt transects have a width as well as length.
 - Pace-transects are established when the observer strides along an imaginary line across the sample site and uses their foot placement to determine specific sampling points.

3.7.1.2 Plot less Sampling Methods

- Closest individual method Distance is measured from each random point to the nearest individual.
- Nearest neighbour method Distance is measured from an individual to its nearest neighbour.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	D 6 H14
Project Proponent	M/s. RKM Sand and Aggregates	Draft EIA Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

- > Random pairs method Distance is measured from one individual to another on the opposite side of the sample point.
- ➤ Point-centred quarter (PCQ) method Distance is measured from the sampling point to the nearest individual in each quadrat.

3.7.2 Field study& Methodology adopted:

To assess the suitability of the methodology, a random field survey was done. Field survey was conducted around a 2 km radius from the project site and five locations were chosen based on the species density. Quadrat method is chosen for the proposed study as compared to other sampling methods, because they are relatively simple to use. Quadrat plots are uniform in size and shape and distributed randomly throughout the sample area, which makes the study design straightforward. They are also one of the most affordable techniques because they require very few materials.

3.7.3 Study outcome:

Phyto-sociological parameters, such as *Density, Frequency, Basal Area, Abundance and Importance Value Index* of individual species (Trees) were determined in randomly placed quadrate of different sizes in the study area. Relative frequency, relative basal area and relative density were calculated and the sum of these three represented Importance Value Index (IVI) for various species. For shrubs, herbs and grasses, *Density, Frequency, Relative Density & Relative Frequency were found*.

Sample plots were selected in such a way to get maximum representation of different types of vegetation and plots were laid out in different parts of the study area of 2 km radius. Analysis of the vegetation will help in determining the relative importance of each species in the study area and to reveal if any economically valuable species is threatened in the process.

<u>Table 3-15 Calculation of Density, Frequency (%), Dominance, Relative Density, Relative</u>
Frequency, Relative Dominance & Important Value Index

Parameters	Formula
Density	Total No. of individuals of species/ Total No. of Quadrats used in sampling

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	_
Project Proponent	M/s. RKM Sand and Aggregates	Draft EIA Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Frequency (%)	(Total No. of Quadrats in which species occur/ Total No. of Quadrats
	studied) * 100
Dominance	Total Basal Area /Total area sampled
Abundance	Total No. of individuals of species/ No. of Quadrats in which they occur
Relative Density	(Total No. of individuals of species/Sum of all individuals of all species) * 100
Relative Frequency	(Total No. of Quadrats in which species occur/ Total No. of Quadrats occupied by all species) * 100
Relative Dominance	Dominance of a given species/Total Dominance of all species
Important Value Index	Relative Density + Relative Frequency + Relative Dominance

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Table 3-16 Tree Species in the core Zone

S. No.	Scientific Name	Local Name	Total No. of species	Total of Quadrants with species	Total No. of Quadrants	Density	Frequency (%)	Abundance	Dominance	Relative Density	Relative Frequency	Relative Dominance	IVI	IUCN Conservation Status
1	Ficus Carica	Athi Maram	2	2	6	0.33	33.33	1	0.28	1.68	2.17	4.45	8.31	Least Concern
2	Cocos nucifera	Thennai	10	6	6	1.67	100.0	1.67	0.15	8.40	6.52	2.39	17.32	Not assessed
3	Azadirachta indica	Veppam	17	6	6	2.83	100.0	2.83	0.13	14.2 9	6.52	1.98	22.79	Not assessed
4	Tamarindus indica	Puli	10	6	6	1.67	100.0	1.66	0.20	8.40	6.52	3.09	18.02	Not assessed
5	Mangifera indica	Mamaram	7	6	6	1.17	100.0	1.16	0.07	5.88	6.52	1.11	13.52	Data insuffici ent
6	Morinda pubescens	Nuna	6	6	6	1.00	100.0	1	0.24	5.04	6.52	3.74	15.31	Not assessed

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

7	Couroupita guianensis	Nagalingam	5	3	6	0.83	50.00	1.67	0.14	4.20	3.26	2.18	9.64	Not
														assessed
8	Bombax ceiba	Sittan	4	4	6	0.67	66.67	1	0.08	3.36	4.35	1.27	8.98	Not
			4	4	0	0.07	00.07	1	0.08	3.30	4.33	1.4/	0.90	assessed
9	Acacia nilotica	Karuvelai	4	4	(0.67	(((7	1	0.20	2.26	4.25	4.45	12.16	Least
			4	4	6	0.67	66.67	1	0.28	3.36	4.35	4.45	12.16	Concern
10	Bambusa vulgaris	Moongil	4	4	(0.67	(((7	1	0.50	2.26	4.25	7.02	15 (2	Not
			4	4	6	0.67	66.67	1	0.50	3.36	4.35	7.92	15.63	assessed
11	Syzygium cumini	naval	5	1	6	0.83	16.67	5	0.11	4.20	1.09	1.79	5.07	Not
			3	1	0	0.83	10.07	3	0.11	4.20	1.09	1./9	3.07	assessed
12	Carica papaya	Papaya	3	3	6	0.50	50.00	1	0.09	2.52	3.26	1.43	7.21	Not
			3	3	6	0.50	30.00	1	0.09	2.32	3.20	1.43	7.21	assessed
13	Psidium guajava	Guava	3	3	6	0.50	50.00	1	0.23	2.52	3.26	3.61	9.39	Not
			3	3	0	0.30	30.00	1	0.23	2.32	3.20	3.01	9.39	assessed
14	Cassia siamea	ManjalKonrai	3	2	6	0.50	33.33	1.5	0.07	2.52	2.17	1.11	5.81	Least
			3	2	0	0.30	33.33	1.3	0.07	2.52	2.17	1.11	3.61	Concern
15	Ficus religiosa	Arasa maram	3	3	6	0.50	50.00	1	0.09	2.52	3.26	1.35	7.13	Not
			3	3	0	0.50	30.00	1	0.09	2.52	3.20	1.33	7.13	assessed
16	Musa paradise	Vaazhai	3	3	6	0.50	50.00	1	0.08	2.52	3.26	1.19	6.97	Not
			3	3	U	0.50	30.00	1	0.08	2.52	3.20	1.17	0.97	assessed

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

17	Prosopis juliflora	Vaelikaruvai	3	3	6	0.50	50.00	1	0.21	2.52	3.26	3.34	9.13	Not assessed
18	Tectona grandis	Thekku	3	3	6	0.50	50.00	1	0.12	2.52	3.26	1.88	7.66	Not assessed
19	Thespesia populnea	Poovarasam	3	3	6	0.50	50.00	1	0.15	2.52	3.26	2.39	8.18	Not assessed
20	Causuarina equisetifolia	Savukku	2	2	6	0.33	33.33	1	0.21	1.68	2.17	3.34	7.20	Not assessed
21	Alstonia scholaris	Elilaipalai	2	2	6	0.33	33.33	1	0.27	1.68	2.17	4.31	8.16	Least Concern
22	Anacardium occidentale	Cashew	1	1	6	0.17	16.67	1	0.44	0.84	1.09	6.96	8.88	Not assessed
23	Artocarpus heterophyllus	Palaa	2	2	6	0.33	33.33	1	0.18	1.68	2.17	2.85	6.70	Not assessed
24	Aegle marmelos	Vilvam	1	1	6	0.17	16.67	1	0.16	0.84	1.09	2.50	4.43	Not assessed
25	Delonix elata	Perungondrai	1	1	6	0.17	16.67	1	0.17	0.84	1.09	2.62	4.54	Least Concern
26	Pithecellobium dulce	Kodukapuli	1	1	6	0.17	16.67	1	0.14	0.84	1.09	2.18	4.11	Not assessed

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

27	Citrus medica	Elumichai	2	2	6	0.33	33.33	1	0.23	1.68	2.17	3.61	7.46	Not assessed
		Total	110	83					5.02					

Table 3-17 Shrubs in the Core Zone

S. No.	Scientific Name	Local Name	Total No. of species	Total of Quadrants with species	Total No. of Quadrants	Density	Frequency (%)	Abundance	Relative Density	Relative Frequency	IUCN Conservatio n Status
1	Jatropagossypifolia	Kaatamanaku	32	17	24	1.17	0.71	1.65	14.43	17.17	Not Assessed
2	Calotropis gigantea	Erukam	16	12	24	0.58	0.50	1.17	7.22	12.12	Not Assessed
3	Tabernaemontanadivaricata	Crepe Jasmine	4	3	24	0.13	0.13	1	1.55	3.03	Not Assessed
4	Catharanthus roseus	Nithyakalyani	4	3	24	0.13	0.13	1	1.55	3.03	Not Assessed
5	Datura metal	Ummattangani	7	4	24	0.21	0.17	1.25	2.58	4.04	Not Assessed

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

6	Robiniapseudoacacia	Black locust	15	5	24	0.71	0.21	3.4	8.76	5.05	Least
	Roomiapseudoacacia	Diack locust	13	J	∠ +	0.71	0.41	J. 4	0.70	3.03	Concern
7	Acalypha indica	Kuppaimeni	18	8	24	0.83	0.33	2.5	10.31	8.08	Not
,	rearypha marea	тарраннен	10	O	27	0.03	0.55	2.3	10.51	0.00	Assessed
8	Stachytarpheaurticifolia	Rat tail	13	9	24	0.63	0.38	1.67	7.73	9.09	Not
0	Stachytarpheaurtichona	Kat tan	13	,	24	0.03	0.50	1.07	1.13	7.07	Assessed
9	Woodfordiafruiticosa	Velakkai	4	3	24	0.13	0.13	1	1.55	3.03	Least
9	Woodfordiaffufficosa	VCIAKKAI	7	3	24	0.13	0.13	1	1.33	3.03	Concern
10	Hibiscus rosa sinensis	Sembaruthi	3	2	24	0.13	0.08	1.5	1.55	2.02	Not
10	Thoiseus fosa sinchisis	Schloaruthi	3	2	24	0.13	0.00	1.5	1.55	2.02	Assessed
11	Lantana camara	Unnichedi	8	6	24	0.38	0.25	1.5	4.64	6.06	Not
11	Lantana Camara	Offinencus	O	U	2 -	0.36	0.23	1.5	7.07	0.00	Assessed
12	Parthenium hysterophorous	Vishapoondu	45	13	24	2.08	0.54	3.85	25.77	13.13	Not
12	Tarmemum nysicrophorous	v isiiapoonuu	73	13	∠ -1	2.00	0.54	3.03	43.11	13.13	Assessed
13	Euphorbia geniculate	Amman	5	3	24	0.13	0.13	1	1.55	3.03	Not
13	Euphoroia geniculaic	Pacharisi	3	<i>3</i>	∠ -1	0.13	0.13	1	1.33	5.05	Assessed

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Table 3-18 Herbs & Grasses in the core zone

S. No.	Scientific Name	Local Name	Total No. of species	Total of Quadrants	Total No. of Quadrants	Density	Frequency (%)	Abundance	Relative Density	Relative Frequency	IUCN Conservati on status
1	Helicteresisora	Valampuri	4	2	30	0.07	0.07	1	0.79	2.15	Not assessed
2	Tridax procumbens	Vettukaayathalai	7	4	30	0.17	0.13	1.25	1.98	4.30	Not assessed
3	Heraculem spondylium	Hog Weed	19	10	30	0.67	0.33	2	7.94	10.75	Not assessed
4	Tridax procumbens	Cuminipachai	18	4	30	0.50	0.13	3.75	5.95	4.30	Not assessed
5	Senna occidentalis	Nattamsakarai	30	4	30	0.83	0.13	6.25	9.92	4.30	Not assessed
6	Plumbago zeylanica	Chittiramoolam	12	3	30	0.10	0.10	1	1.19	3.23	Not assessed
7	Scrophularia nodosa	Sarakkothini	18	7	30	0.50	0.23	2.14	5.95	7.53	Not assessed

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA Report
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

8	Viburnum dentatum	Viburnum	7	5	30	0.17	0.17	1	1.98	5.38	Least
	v iourium dentatum	Vioumum	,		30	0.17	0.17	1	1.70	3.30	concern
9	Cynodondactylon	Arugu	15	6	30	0.40	0.20	2	4.76	6.45	Not
	cyneuenauetyren	Thugu			30	0.10	0.20	_	, 0	0.15	assessed
10	Euphorbia hirta	Amman Pacharisi	7	4	30	0.17	0.13	1.25	1.98	4.30	Not
10	Zupinorotu initu		,	·	30	0.17	0.15	1.20	1.50		assessed
11	Sida cordifolia	Maanikham	50	4	30	1.50	0.13	11.25	17.86	4.30	Not
	Sida Cordifolia	TVICE INTERIOR			30	1.50	0.15	11.23	17.00	1.50	assessed
12	Sida acuta	Malaidangi	12	3	30	0.33	0.10	3.33	3.97	3.23	Not
12		Training:	12		30	0.55	0.10	3.33	3.57	3.23	assessed
13	Laportea canadensis	Peruganchori	28	20	30	1.00	0.67	1.5	11.90	21.51	Not
15	Daportou cunacensis	1 craganonor	20	20	30	1.00	0.07	1.5	11.50	21.51	assessed
14	Sporobolus fertilis	Giant Parramatta Grass	10	4	30	0.30	0.13	2.25	3.57	4.30	Not
	Sporocolus letuiis	Stant I arramata Grass	10	'	30	0.50	0.15	2.23	3.57	1.50	assessed
15	Tephrosia purpurea	Kavali	23	4	30	0.67	0.13	5	7.94	4.30	Not
	Topinosia parparea	1344411	23	T	30	0.07	0.15		7.57	7.50	assessed

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	1

3.7.4 Calculation of species diversity by Shannon – wiener Index, Evenness and richness by Margalef:

Biodiversity index is a quantitative measure that reflects how many different types of species, there are in a dataset, and simultaneously takes into account how evenly the basic entities (such as individuals) are distributed among those types of species. The value of biodiversity index increases both when the number of types increases and when evenness increases. For a given number of type of species, the value of a biodiversity index is maximized when all type of species are equally abundant. Interpretation of Vegetation results in the study area is given below.

Table 3-19 Calculation of species diversity

Description	Formula
Species diversity – Shannon – Wiener	$H=\Sigma[(p_i)*ln(p_i)]$
Index	Where p _i : Proportion of total sample represented by species
	i:number of individuals of species i/ total number of samples
Evenness	H/H _{max}
	$H_{max} = ln(s) = maximum diversity possible$
	S=No. of species
Species Richness by Margalef	RI = S-1/ln N
	Where S = Total Number of species in the community
	N = Total Number of individuals of all species in the community

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s, RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	•

3.7.5 Calculation of species diversity by Shannon – wiener Index, Evenness and richness by Margalef for trees

i. Species Diversity

Scientific Name	Common Name	No. of Species	Pi	ln (Pi)	Pi x ln (Pi)
Ficus Carica	Athi Maram	2	0.018182	-4.00733	-0.07286
Cocos nucifera	Thennai	10	0.090909	-2.3979	-0.21799
Azadirachta indica	Veppam	17	0.154545	-1.86727	-0.28858
Tamarindus indica	Puli	10	0.090909	-2.3979	-0.21799
Mangifera indica	Mamaram	7	0.063636	-2.75457	-0.17529
Morinda pubescens	Nuna	6	0.054545	-2.90872	-0.15866
Couroupita guianensis	Nagalingam	5	0.045455	-3.09104	-0.1405
Bombax ceiba	Sittan	4	0.036364	-3.31419	-0.12052
Acacia nilotica	Karuvelai	4	0.036364	-3.31419	-0.12052
Bambusa vulgaris	Moongil	4	0.036364	-3.31419	-0.12052
Syzygium cumini	naval	5	0.045455	-3.09104	-0.1405
Carica papaya	Papaya	3	0.027273	-3.60187	-0.09823
Psidium guajava	Guava	3	0.027273	-3.60187	-0.09823
Cassia siamea	ManjalKonrai	3	0.027273	-3.60187	-0.09823
Ficus religiosa	Arasa maram	3	0.027273	-3.60187	-0.09823
Musa paradise	Vaazhai	3	0.027273	-3.60187	-0.09823
Prosopis juliflora	Vaelikaruvai	3	0.027273	-3.60187	-0.09823
Tectona grandis	Thekku	3	0.027273	-3.60187	-0.09823
Thespesia populnea	Poovarasam	3	0.027273	-3.60187	-0.09823
Causuarina equisetifolia	Savukku	2	0.018182	-4.00733	-0.07286
Alstonia scholaris	Elilaipalai	2	0.018182	-4.00733	-0.07286
Anacardium occidentale	Cashew	1	0.009091	-4.70048	-0.04273
Artocarpus heterophyllus	Palaa	2	0.018182	-4.00733	-0.07286

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	•

Aegle marmelos	Vilvam	1	0.009091	-4.70048	-0.04273
Delonix elata	Perungondrai	1	0.009091	-4.70048	-0.04273
Pithecellobium dulce	Kodukapuli	1	0.009091	-4.70048	-0.04273
Citrus medica	Elumichai	2	0.018182	-4.00733	-0.07286
Total		110			-3.02215005

H (Shannon Diversity Index) =3.02

Shrubs

Scientific Name Common Name		No. of Species	Pi	ln (Pi)	Pi x ln (Pi)
Jatropagossypifolia	Kaatamanaku	32	0.183908	-1.69332	-0.31142
Calotropis gigantea	Erukam	16	0.091954	-2.38647	-0.21945
Tabernaemontanadivaricata	Crepe Jasmine	4	0.022989	-3.77276	-0.08673
Catharanthus roseus	Nithyakalyani	4	0.022989	-3.77276	-0.08673
Datura metal	Ummattangani	7	0.04023	-3.21315	-0.12926
Robiniapseudoacacia	Black locust	15	0.086207	-2.45101	-0.21129
Acalypha indica	Kuppaimeni	18	0.103448	-2.26868	-0.23469
Stachytarpheaurticifolia	Rat tail	13	0.074713	-2.59411	-0.19381
Woodfordiafruiticosa	Velakkai	4	0.022989	-3.77276	-0.08673
Hibiscus rosa sinensis	Sembaruthi	3	0.017241	-4.06044	-0.07001
Lantana camara	Unnichedi	8	0.045977	-3.07961	-0.14159
Parthenium hysterophorous	Vishapoondu	45	0.258621	-1.35239	-0.34976
Euphorbia geniculata	Amman Pacharisi	5	0.028736	-3.54962	-0.102
Total		174			-2.2234

H (Shannon Diversity Index) =2.22

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	1

Herbs

Scientific Name	Common Name	No. of Species	Pi	ln (Pi)	Pi x ln (Pi)
Helicteresisora	Valampuri	4	0.015385	-4.17439	-0.06422
Tridax procumbens	Vettukaayathalai	7	0.026923	-3.61477	-0.09732
Heraculem spondylium	Hog Weed	19	0.073077	-2.61624	-0.19119
Tridax procumbens	Cuminipachai	18	0.069231	-2.67031	-0.18487
Senna occidentalis	Nattamsakarai	30	0.115385	-2.15948	-0.24917
Plumbago zeylanica	Chittiramoolam	12	0.046154	-3.07577	-0.14196
Scrophularia nodosa	Sarakkothini	18	0.069231	-2.67031	-0.18487
Viburnum dentatum	Viburnum	7	0.026923	-3.61477	-0.09732
Cynodondactylon	Arugu	15	0.057692	-2.85263	-0.16457
Euphorbia hirta	Amman Pacharisi	7	0.026923	-3.61477	-0.09732
Sida cordifolia	Maanikham	50	0.192308	-1.64866	-0.31705
Sida acuta	Malaidangi	12	0.046154	-3.07577	-0.14196
Laportea canadensis	Peruganchori	28	0.107692	-2.22848	-0.23999
Sporobolus fertilis	Giant Parramatta Grass	10	0.038462	-3.2581	-0.12531
Tephrosia purpurea	Kavali	23	0.088462	-2.42519	-0.21454
Total		260			-2.51

H (Shannon Diversity Index) =2.51

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	•

i. Species diversity calculation

Details	Н	Hmax	Evenness	Species Richness (Margalef)
Trees	3.02	3.36	0.89	5.95
Shrubs	2.22	2.56	0.86	2.32
Herbs	2.51	2.70	0.92	2.51

From the above, it can be interpreted that herb community has higher diversity. While the tree community shows less diversity. It is also observed that most of the quadrates have controlled generation of plant species with older strands. Higher herb species diversity can be interpreted as a greater number of successful species and a more stable ecosystem where more ecological niches are available, environmental change is less likely to be damaging to the ecosystem. Species richness is high for herb community when compared with tree and shrubs.

3.7.6 Floral study in the Buffer Zone:

Economically important Flora of the study area

Agricultural crops: Paddy, Maize, Ragi, Banana, Sugarcane, Cotton, Tamarind, Coconut, Mango, Groundnut, Vegetables and Flowers by the local people.

Medicinal species: The nearby area is also endowed with the several medicinal species which are commonly available in the shrub forest and waste lands. The common medicinal species of the region are Asparagus racemosus (satamulli), Aegle marmelos (golden apple), Azadirachta indica (Neem) etc.

Rare and endangered floral species: There are no rare or endangered or threatened (RET) species of in the study area. During the vegetation survey, there are no any species which are endangered or threatened under IUCN (International Union for Conservation of Nature and Natural resources) guidelines.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	-

3.7.7 Faunal Communities

Both direct and indirect observation methods were used to survey the fauna.

• Point Survey Method: Observations were made in each site for 15 minutes duration.

Roadside Counts: The observer traveled by motor vehicles from site to site, all sightings were recorded (this was done both in the day and night time). An index of abundance of each species was also established.

Pellet and Track Counts: All possible animal tracks and pellets were identified and recorded (South Wood, 1978).

Additionally, survey of relevant literature was also done to consolidate the list of fauna distributed in the buffer zone.

Based on the Wildlife Protection Act, 1972 (WPA 1972, Anonymous. 1991, Upadhyay 1995, Chaturvedi and Chaturvedi 1996) species were short-listed as Schedule II or I and considered herein as endangered species. Species listed in Ghosh (1994) are considered as Indian Red List species.

Methodology Adopted:

Point Survey method was adopted for this development project where observations were made in each site for 15 minutes duration (10 times).

Study in the core zone:

Point Survey method was adopted for the study within 2 km radius and the following species were observed.

Mammals: No wild mammalian species was directly sighted during the field survey. Discussion with local villagers located around the study area also could not confirm presence of any wild animal in that area. Three stripped Palm Squirrel, Common Indian Hare, Common mongoose, Common Mouse etc were observed during primary survey.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	•

Avifauna: Since birds are considered to be the indicators for monitoring and understanding human impacts on ecological systems (Lawton, 1996) attempt was made to gather quantitative data on the avifauna by walk through survey within the entire study area and surrounding areas. From the primary survey, a total of 26 species of avifauna were identified and recorded in the study area. The diversity of avifauna from this region was found to be quite high and encouraging.

The list of fauna species found in the study area is mentioned in Table below.

Table 3-20 List of fauna species

Scientific Name	Common Name	Schedule of wild	IUCN conservation					
		life protection act	status					
Mammals								
Funambulus pennanti	Palm Squirrel	IV	Least Concern					
Mus rattus	Indian rat	IV	Not listed					
Bandicota bengalensis	Indian mole rat	IV	Least Concern					
Funambulus	Three stripped palm	***	T					
palmarum	squirrel	IV	Least Concern					
Herestes edwardsii	Common Mangoose	IV	Not listed					
Mus musculus	Common Mouse	IV	Least Concern					
Bandicota indica	Rat	IV	Least Concern					
Lepus nigricollis	Indian Hare	IV	Least Concern					
Felis catus	Cat	Not listed	Not listed					
Canis lupus familiaris	Indian dog	Not listed	Not listed					
Bos Indicus	Indian Cow	Not listed	Not listed					
Bubalus bubalis	Buffalo	I	Not listed					
Sus scrofa domesticus	Domestic pig	Not listed	Not listed					
	Birds							
Milvus migrans	Black kite	IV	Least concern					
Saxicoloides fulicatus	Indian Robin	IV	Least concern					

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	•

Pycnonotus cafer	Red vented Bulbul	IV	Least concern
Phragamaticola aedon	aticola aedon Thick billed warbler		Least concern
Pericrocotus cinnamomeus			Least concern
Eudynamys scolopaceus	Koel	IV	Least concern
Psittacula krameni	Rose ringed parakeet	IV	Least concern
Dicrurus marcocercus	Black drongo	IV	Least concern
Columba livia	Rock pigeon	IV	Least concern
Corvus splendens	House crow	IV	Least concern
Alcedo atthis	Small blue kingfisher	IV	Least concern
Cuculus canorus	Common Cukoo	IV	Least concern
	Reptiles &	Amphibians	
Chameleon zeylanicum	Chameleon	IV	Not listed
Calotes versicolor	Common garden lizard	II	Not listed
Bungarus caeruleus	Common krait	IV	Not listed
Ophisops leschenaultia	Snake eyed lizard		Not listed
Bufo melanostictus	Toad	IV	Least concern
Ptyas mucosa	Rat snakes	IV	Least concern
Hemidactylus sp.	House lizard		Not listed
	Butt	terflies	•
Danaus chrysippus	Plain Tiger		Not listed
Papilio demoleus	Common lime		Not listed

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	•

Euploea core	Common crow	 Least concern
Danaus genutia	Common tiger	 Not listed
Eurema brigitta	Small grass yellow	 Least concern

3.8 <u>DEMOGRAPHY AND SOCIO ECONOMICS</u>

The demography survey study is done within 10km radius from the project site.

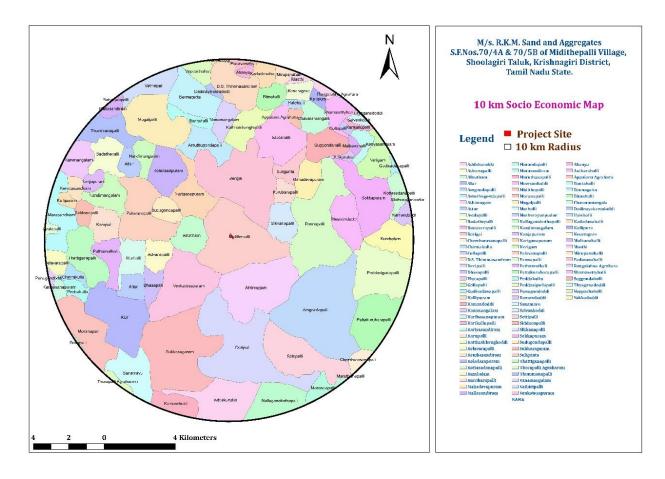


Figure 3.13 Socio Economic map surrounding the project site.

The population, Household, Sex ratio, Literacy rate, SC, ST details for all the villages in the study area is listed below:

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	1

Table 3-21: Demography Survey Study

Source: Census of India, 2011

S.	V:Ue see	TT 1 11	D 14	Sex	Ratio	Litera	cy Rate	SC	Sī
No	Villages	Housenoid	Population	Male	Female	Male	Female		
1	Kariyasandiram	95	346	184	162	23	24	0	0
2	Amuthugondapall i	120	543	274	269	131	97	228	0
3	Koladasapuram	221	857	429	428	276	216	390	0
4	Midithepalli	287	1287	667	620	369	261	278	31
5	Kumbalam	164	761	394	367	254	159	0	95
6	Athimugam	937	4540	2339	2201	1317	980	334	17
7	Midithepalli	650	2873	1484	1389	960	695	583	0
8	Advanapalli	58	239	123	116	75	50	1	0
9	Sudugondapalli	87	447	229	218	128	89	95	0
10	Palavanapalli	258	1096	540	556	349	288	370	0
11	Nandimangalam	591	2602	1314	1288	797	609	713	0
12	Pathamuthali	205	967	499	468	275	198	392	0
13	Muthalli	108	444	223	221	132	90	130	0
14	Dhasapalli	152	894	443	451	202	161	1	0
15	Alur	678	3018	1569	1449	1058	736	178	5
16	Bukkasagaram	460	2126	1109	1017	742	471	319	0
17	Doripalli	852	3681	1898	1783	1165	848	596	0
18	A.Settipalli	605	2764	1428	1336	960	635	509	11
19	Moranapalli	2174	9160	4855	4305	3403	2439	1503	13
20	Maruthanapalli	1093	4816	2532	2284	1547	1054	422	0
21	Shoolagiri	2101	9530	4788	4742	3480	2923	1487	0
22	Onalvadi	1607	6656	3411	3245	2475	1968	1360	0
23	Sanamavu	925	4248	2182	2066	1487	1062	659	183
24	Halekotta	707	2990	1535	1455	1071	760	209	83
25	Samanapalli	721	3198	1635	1563	922	730	304	0

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	1

3.9 TRAFFIC IMPACT ASSESSMENT

Traffic data collected continuously for 24 hours by visual observation and counting of vehicles under three categories, viz., heavy motor vehicles, light motor vehicles and two/three wheelers. As traffic densities on the roads are high, two skilled persons were deployed simultaneously at each station during each shift- one person on each of the two directions for counting the traffic. At the end of each hour, fresh counting and recording was undertaken. Total numbers of vehicles per hour under the three categories were determined.



Figure 3.14: Site Connectivity

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	•

Table 3-22: No. of Vehicles per Day

S. No	Vehicles Distribution	Number of Vehicles Distribution/Day	Passenger Car Unit (PCU)	Total Number of Vehicle in PCU
		MDR	-	MDR
1	Cars	831	1	831
2	Buses	249	3	747
3	Trucks	352	3	1056
4	Two wheelers	946	0.5	473
5	Three wheelers	490	1.5	735
	Total	2868	-	3842

Table 3-23: Existing Traffic Scenario and LOS

Road	V (Volume in PCU/hr)	C (Capacity in PCU/hr)	Existing V/C Ratio	LOS
MDR-422	3842/24=160.08	413	0.387	В

Note: The existing level may be "Very Good" for MDR=422.

V/C	LOS	Performance
0.0-0.2	A	Excellent
0.2-0.4	В	Very Good
0.4-0.6	С	Good/ Average/ Fair
0.6-0.8	D	Poor
0.8 - 1.0	Е	Very Poor

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

4 Anticipated Environmental Impacts & Mitigation Measures

This chapter describes the anticipated impacts on the environment and mitigation measures. The method of assessment of impacts including studies carried out, modeling techniques adopted to assess the impacts where pertinent should be elaborated in this chapter. It should give the details of the impacts on the baseline parameters, both during the construction and operational phases and suggests the mitigation measures to be implemented by the proponent.

4.1 <u>INTRODUCTION</u>

An environmental impact is defined as any change to the environment, whether adverse or beneficial, resulting from a facility's activities, products, or services. The anticipation of the possible & potential Environmental impact due to the proposed project is a key step in EIA. Based on the impacts assessed, appropriate mitigation measures should be adopted to maintain the environment with less or no damage.

Environmental Impacts can be group into Primary impacts & Secondary Impacts

Primary Impacts: These impacts are directly attributed by the project

Secondary Impacts: These are those which are induced by primary impacts and include the associated investments and changed patterns of the social and economic activities by the action.

Assessment of impacts is done for the following Environmental Parameters:

- ➤ Land Environment
- ➤ Water Environment
- ➤ Air Environment
- ➤ Noise Environment
- ➤ Biological Environment
- > Socio Economic Environment

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

4.2 **LAND ENVIRONMENT:**

Aspect	Impact	Mitigation Measures
Mining of rough stone	The proposed 3.76.67 Ha mine located in Midithepalli Village having 12,24,475m³ of Rough Stone & 82,530m³ of Gravel respectively for the period of Ten years. The quarry operation is proposed to carry out with conventional open cast mechanized mining with 5.0-meter vertical bench and bench width of 5.0 meter. At the end of 10 years, mining lease area will be converted into ultimate pit.	The proposed project site is not prone to any kind of soil erosion (Source: Bhuvan). In addition, garland drainage of 1m x 1m will be provided to avoid storm water run- off. It is proposed to plant 1885 Nos of native species (Neem, Magizham, Tamarind, Elandhai and Vilvam) along the roads, outer periphery of the mining area which enhances the binding property of the soil.
	Ultimate Pit Dimensions: 344.0m (L)Avg X 112.0m (W)Avg X 47.0m (D) (Surface Ground level above-7m, Surface Ground level below-40m)	It is proposed to improve the affected land wherever possible for better land use, so as to support vegetation and creation of water reservoir in the ultimate pit after quarrying. The entire lease area is covered 2.0m of Gravel and the estimated quantity of Gravel is 82,530m ³ .

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

The main impact of open cast mining on land-use is land degradation. The land is bound to be excavated for mining of Rough Stone and Gravel Quarry.

Impact on soil of the study area will be minimal as there are no wastewater generated, heavy metal infusion, stack emissions.

Impact due to transformation of terrain characteristics over the large area results in soil degradation.

Gravel formation will be removed and hydraulic excavators are used for loading the gravel into the tipper from pit head to needy buyers. This will be done only after obtaining permission and paying necessary seigniorage fees to the Government.

The source of dust generation is majorly due to drilling, blasting, loading & unloading of the mined-out mineral, the impact will be mitigated by water sprinkling regularly once in 3hrs.

The proposed mining activity is carried out in hilly terrain where the altitude of the area is 869m above MSL.

After removal of minerals, undulating portion will be created. Excavated area or ultimate pit at the end of the mine period will be converted into water reservoir. Two tier tree belts will be planted along the safety distance.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Solid waste will be generated from the mining activity as	The 100% recovery is achieved by extracting the
there will be refuse also generation of domestic waste. If	entire mineable reserve. Hence there will be no
it is not properly managed, may cause odor and health	refuse generation due to the mining activity. Apart
problem to the workers.	from that, a very meagre quantity of domestic
	waste will be generated in the project, which will
	be handed over to the local body on daily basis.

4.3 <u>WATER ENVIRONMENT:</u>

Aspect	Impact	Mitigation Measures
Drilling, Blasting, Loading	The mining in the area may cause ground water	The water table will not be intersected during
and unloading,	contamination due to intersection of the water table and	mining, as the ultimate depth is limited upto 47.0m
Transportation of the	mine runoff.	(2m Gravel + 45m Rough Stone), whereas the
excavated mineral.		ground water table is at 66m below the ground
		level. The municipal wastewater will be disposed
		into septic tanks of 5 cum and soak pit. No

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

The ground water depletion may occur due to mining activity

Chemicals consisting of nitrate used for blasting may pollute the surface run off.

Improper management of Domestic wastewater in the Mine lease may create unhygienic conditions in the site thereby causing health impacts to the labours.

chemicals consisting of toxic elements will be used for carrying out mining activity.

The ground water table is at a depth of 66m BGL, the mining operation will not affect the aquifer. The ultimate pit at the end of the mining operation will be used for rainwater storage, the stored water will be used for green belt development and further the stored water will be used for domestic purposes (other than drinking) after proper treatment.

Further, the run-off water will be stored in sumps and after proper treatment; water will be used in the mining operation for dust suppression.

Provision of urinals/Latrines along with septic tank followed by soak pit arrangement will be provided in the Mine Lease area for the proper management of wastewater

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

4.4 **AIR ENVIRONMENT:**

Aspect	Impact	Mitigation Measures
Drilling, Blasting, Loading	Impacts during Operation Phase	Mitigation Measures during Operation Phase
and unloading, Transportation of the excavated mineral.	During mining operation, fugitive dust and other air pollutants like particulate matter (PM ₁₀ & PM _{2.5}) will be generated. The main source of pollutants arises due to drilling and blasting. 2 No of Tipper will be used for loading and unloading, 2 No of Excavator (1.20 m³ bucket capacity (with rock breaker attachment) will be used for excavation of the mineral which contributes to the generation of fugitive dust. In addition, blasting will be done using explosives leading to the generation of dust.	It is proposed to plant 1885 Nos of native species (40% inside lease area & 60% outside lease area) along the haul roads, outer periphery within the lease area to prevent the impact of dust in consultation with Forest department for the plantation of trees (Neem, Magizham, Tamarind, Elandhai and Vilvam) in two tier to combat air pollution and with herbs (Nerium) in between the tree species. Planning transportation routes of the mined out mineral, so as to reach the nearest paved roads (an approach road) by shortest route connecting to Haul village road. Alternatively, gravelled road may be constructed between mine lease area and nearest paved road

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Effect on Human

- Adverse effect on human health of working labourers and neighbouring villagers like effect on breathing and respiratory system, damage to lung tissue, influenza or asthma.
- Dust generation due to loading and unloading of mineral and due to transportation can also affect the workers as well as nearby villagers.

Effect on Plants

 Stomatal index may be minimized due to dust deposit on leaf. connectivity. The speed of trucks plying on the haul road will be limited to 20km/hr to avoid generation of dust.

The trucks will be covered by tarpaulin.

Overloading will be avoided.

Personal Protective Equipments (PPEs) like eye goggles, dust mask, leather gloves, safety shoes & boots will be provided to the workers engaged at dust generation points like excavation and loading points.

0.5 KLD of water will be proposed for sprinkling on unpaved roads to avoid dust generation during transportation.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Air Quality Modeling:

The AERMOD is actually a modeling system with three separate components:

- AERMOD (AERMIC Dispersion Model),
- AERMAP (AERMOD Terrain Preprocessor)
- AERMET (AERMOD Meteorological Preprocessor)

4.4.1 Source Characterization

A detailed listing of all emission sources and their corresponding modelling input release parameters and emission rates is listed this report. A general description of how each source type was treated is presented below.

The emission Sources from the proposed operation are

Point Sources:

Point sources for mining operations are typically include dust collectors, hot water heaters, and emergency generator(s). Since at the present project the following sources are anticipated.

- 1. Hydraulic excavator –1.2 Cum Bucket Capacity (with Rock Breaker Attachment)
- 2. Jack Hammer 25.5 mm Dia
- 3. Tipper
- 4. Tractor Mounted Compressor
- 5. Drilling and excavation with Accessories

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Road Sources:

A road network was developed to depict the anticipated haul truck routes and truck discharge locations during the mine operations. The anticipated emissions from the road sources and corresponding anticipated impact during the monitoring period of April 2025 to June 2025 emissions were estimated. Emissions due to haul road and general plant traffic on the unpaved road network were modelled as volume sources. The model volume source parameter for the haul roads initially utilized USEPA developed emission factors for hauling trucking. The haul road sources utilized source to source spacing of 6 meters along the simulated haul roads. The initial lateral dimension of the sources were set to 3 m were used as an input to replicated a 2 truck travel adjacent for a typical mining scenario.

The parameters considered for the hauling operation include the following,

- size of haul trucks commonly used
- degree of dust control/compaction of permanent haul roads

Other fugitive particulate emission sources:

Other fugitive particulate emission sources that were modelled as volume sources include the following:

- Fugitive emissions from trucks unloading at the primary crusher were represented by a single volume source. The release height was set to 0 meters (dump pocket is at grade level).
- Fugitive emissions due to wind erosion is not considered as the mining area is predominately rocky surface with minimal wind erosion.

 If an wind erosion is anticipated to occur, it would be localized.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

• Fugitive emissions from transfer points were represented by single volume sources. The release heights for these sources were set to the actual height of the truck transfer process.

Post Project Scenario

Emissions from operations will result from process equipment and mining operations. Process equipment was modeled at maximum capacity. Emissions from mining were based upon the mining rate and haul truck travel necessary to transport the stones and waste from the pit to the storage area.

Predicted maximum ground level concentrations considering micro meteorological data of April 2025 to June 2025 are superimposed on the maximum baseline concentrations obtained during the study period to estimate the post project scenario, which would prevail at the post operational phase. The overall scenario with predicted concentrations over the maximum baseline concentrations is shown in the following table along with isopleths.

Table 4-1 Emission Factors for uncontrolled mining

Activity	Emission Factor		References		
Topsoil handling	Scraper	0.029 Kg TSPM/ average time between spray application	USEPA (2008)	Jose I. Huertas & Dumar A. Camacho & Maria E. Huertas, Standardized emissions inventory methodology for openpit mining areas, Environmental	
	Bulldozing	15.048	USEPA (2008)	Science Pollution Research, 2012.	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

		kg PM10/ Hr excavation		
	Loading	2.3237E-04 kg PM10/ average time between spray application	USEPA (2006a)	
	Haulage	0.69718 kg PM10/VKT	USEPA (2006a) Cowherd (1988)	
Rough stone mining	Wet drilling	8.00E-5 lbs PM10/ Ton produce	EPA. August, 2004. Section 11.19.2, Crushed Stone Processin and Pulverized Mineral Processing. In: Compilation of Ai Pollutant Emission Factors, Volume 1: Stationary Point an Area Sources, Fifth Edition, AP-42. U.S. Environmenta Protection Agency, Office of Air Quality Planning an Standards. Research Triangle Park, North Carolina.	
Rough stone mining	Loading	1.00E-4 lbs PM10/ Ton produce		

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

4.5 **NOISE ENVIRONMENT:**

Aspect	Impact	Mitigation Measures	
Drilling, Blasting, Loading and unloading, Transportation of the		• The machinery will be maintained in good running condition so that noise will be reduced to minimum possible level.	
excavated mineral.	Noise from the machinery can cause hypertension, high stress level, hearing loss, sleep disturbance etc due to prolonged exposure.	• Awareness will be imparted to the workers once in six months about the permissible noise level and effect of maximum exposure to those levels. Adequate silencers will be provided in all the diesel engines of vehicles.	
	Number of vehicles will be increased due to the proposed mining activity hence vehicle may collate which may result in unwanted sound and can also cause	 It will be ensured that all transportation vehicles carry a valid PUC Certificates. Speed of trucks entering or leaving the mine will be limited to moderate speed (20km/hr) to prevent undue noise from empty vehicles. The noise generated by the machinery will be reduced 	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

impact on human health like breathing and respiratory by proper lubrication of the machinery and other system, damage to lung tissue, influenza or asthma. equipments. It is proposed to plant 1885 Nos. of native species (Neem, Mandharai, Athi, Tamarind, Ashoka, Casuarinas and Villam) to reduce the impact of noise in the study area. The development of green belts around the periphery of the mine will be implemented to attenuate noise. The trucks will be diverted on two roads viz. Venkatesapuram village road and a District Road to avoid traffic congestion. Health check-up camps will be organized once in six month. Use of personal protective devices i.e., earmuffs and earplugs by workers, who are working in high noise generating areas.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

	• Provision of quiet areas, where employees
	can get relief from workplace noise.

4.6 **BIOLOGICAL ENVIRONMNENT:**

Aspect	Impacts	Mitigation Measures	
Site Clearance	Loss of habitat due to site clearance which may lead to ecological disturbance.	The proposed mining lease is already a dry land hence no site clearance is required. Only few shrubs and herbs like parthenium sp., prosopis juliflora were present.	
Planting of trees	Development of afforestation in the mine lease area will have a positive impact as the land was initially a barren.	10 m safety distance will be provided all along the boundary of the mine lease area and safety. Around 0.65.67 Ha of land is utilized for greenbelt development (1885 Nos – 10 years). This will attract avifauna thus enhancing the existing ecological environment.	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

4.7 **SOCIO ECONOMIC ENVIRONMNENT:**

Aspect	Impact	Mitigation Measures
Proposed	Land acquisition for the implementation of the	The proposed project is a Patta land and the land is vacant where
implementation of	project may result in loss of assets, which in	there are no human settlement within 300m radius. Hence the
Mining activity	return will make the PAP to shift, losing their	project does not involve Rehabilitation and resettlement
	normal routine and livelihood	
Drilling, Blasting,	The mining activities may cause dust emission,	No human activity is envisaged near the project site. The nearest
Loading and	noise pollution thereby causing disturbance to	human settlement is observed in Midithepalli village which is
Transportation of the	the local habitat	1.70 Km from site
mined out mineral		
Grazing and Rearing	The Grazing and rearing of local animals like	It is proposed to use gravelled road and nearest paved road and
activities in the nearby	Sheep, Goat and cows is observed in the	preferred not to use unpaved roads. In addition to that, the speed
villages	nearby villages, which may be affected due to	of trucks will be limited to 20km/hr to avoid any accidents.
	the project as the movement of the vehicles	
	may affect/injure the animals	
Employment	The project will improve the livelihood of the	After the development of the proposed mine, it will improve the
Employment		
opportunity	local people	livelihood of local people and also provide the direct and indirect

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

		employment opportunities. The rough stone for the		
		infrastructural development in the area will be made available		
		from the local markets at reasonably lower price.		
Corporate	The proposed project will help in natural	As a part of CER i.e., 5.0 Lakhs will be allocated to		
Environmental	resource augmentation & Community resource	1.PUPS- Midithepalli Village, Shoolagiri Taluk, Krishnagiri		
Responsibility	development.	District, Tamil Nadu State.(65 Students)		
		Providing facilities are:		
		> Two Class room Building, Staff toilet, Prayer assembly		
		hall with stage, Dining hall with handwash		
		R.O Water Facility		
		> Smart Classroom facility		
		➤ Greenbelt Development inside and around the campus –		
		50 No's.		
		> Environmental, Social Awareness and General		
		Knowledge Books in Tamil Language		

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Hygienic Toilet Facility and maintenance upto lease period
2. PUPS- Athimugam Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu State. (164 Students)
Providing facilities are:
 Two Classroom Building, Staff toilet, Prayer assembly hall with stage, Dining hall with handwash R.O Water Facility
 Greenbelt Development inside and around the campus – 50 No's.
➤ Environmental, Social Awareness and General Knowledge Books in Tamil Language
Hygienic Toilet Facility and maintenance upto lease period

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

4.8 OTHER IMPACTS:

S. No	Aspect	Impact	Mitigation measure
1.	Risk due to the proposed mining	Accidents may occur in the mine area	Proper PPE kit (Safety jacket, Helmet, Safety Shoes, Gloves) etc will be provided to each and every employee in the mine lease concerning the safety of each labour.
2.	Blasting	Injury to the labours due to the blasting activity	Alarm system in the form of Siren will be engaged in the project site to caution the blasting activity. In addition to that, the blasting activity will be scheduled at particular time – 5 P.M to 6 P.M (or whenever required) so that the employees will be aware of the activity. Smoking will be banned in the site and sign boards will be displayed in various places at site.
3.	Screening of Labours	Labours will be checked for health condition before employing them in mining activity	All the labours will be checked and screened for health before employing them. After employing them, periodical medical check-ups will be held once in every six months.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

5 Analysis Of Alternatives

5.1 **GENERAL**

Analysis of alternative is a significant aspect in planning and designing any project. Cost benefit analysis should be worked out along with other parameters while choosing an alternative in such a way that the production is maximum and the mining operation is environment friendly and cost effective. The mine plan and mine closure plan has been approved by the Deputy Director, Department of Mining and Geology, Krishnagiri District prior to submission of the Form-1 and PFR.

ToR issued by the SEIAA-TN vide ToR Identification No. TO25B0108TN5423420N Dated: 13.05.2025. The study for alternative analysis involves in-depth examination of site and technology.

5.1.1 Analysis for Alternative Sites and Mining Technology

5.1.1.1 Alternative Site

The proposed project is the mining of Rough Stone Quarry and is proposed after prospecting the area. In other words, these can be implemented in the mineral available zone. Since the mining block has been allotted in principal by the State Government, there is no case for studying and exploring any other site as an alternative.

5.1.1.2 Alternative Technology

The open cast mining could be manual/ mechanized depending upon the geological and topographical setup of the mineral (ROM) to be won and the daily/annual targeted production.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

<u>Table 5-1: Alternative for Technology and other Parameters</u>

S. No.	Particular	Alternative Option 1	Alternative Option 2	Remarks
1.	Technology	Opencast semi mechanized mining	Opencast mechanized mining	Opencast mechanized Involving drilling and blasting are preferred. Benefits: Material is hard so to make it
2.	Employment	Local employment.	Outsource employment	Local employment is preferred. Benefits: Provides employment to local people along with financial benefits. No residential building/ housing is required.
3.	Labour transportation	Public transport	Private transport	Local labours will be deployed from Midithepalli village so they will either reach mine site by bicycle or by foot. Benefits: Cost of transportation of labors will be negligible
4.	Material transportation	Public transport	Private transport	Material will be transported through trucks/trolleys on the contract basis. Benefits: It will give indirect employment.
5.	Water	Tanker supplier	Ground water/	Tanker supply will be preferred. Water will be sourced from Midithepalli village which is 1.70 km from site.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

6 Environmental Monitoring Program

6.1 **GENERAL**:

This chapter covers the planned environmental monitoring program. It also includes the technical aspects of monitoring the effectiveness of mitigation measures.

Monitoring is important to measure the efficiency of control measures. Post project monitoring of environmental parameters is of key importance to assess the status of environment. The monitoring program will serve as an indicator for identifying environmental degradation due to operation of the project and help in selection of appropriate mitigation measures to safeguard the environment.

Regular monitoring is as important as control of pollution since the efficacy of control measures can only be determined by monitoring. The project proponent has awarded **M/s. Ecotech Labs Pvt Ltd** for carrying out the post project environmental monitoring (PPM) and timely compliance report submission to various regulatory authorities.

Therefore, a regular monitoring programme of the environmental parameters is essential to take into account the changes in the environmental quality. The objectives of monitoring are to:-

- Verify effectiveness of planning decisions;
- Measure effectiveness of operational procedures;
- Confirm statutory and corporate compliance; and
- Identify unexpected changes.

Table 6-1: Environmental Monitoring Programme

Parameters	Sampling	Frequency	Location
Air environment –	7 locations	24 hourly twice a week	• Project site
Pollutants		4 hourly.	• Lord Shiva Temeple,
PM 10		,	Muthali
71.60.5		Twice a week, One non	Bhargavi Narasimha Swamy
PM 2.5		monsoon season	Temple,
		8 hourly, twice a week	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

	1		
SO ₂ NO _X		24 hourly, twice a week	 Govt.Hr Sec School, bukkasagaram Midhitepalli Bus Stop Garagamma Temple - Vanamangalam Sri Ardhanareshwaramma Temple - Moranapalli
Noise	7 locations	24 hourly Once in 7 locations	 Project site Lord Shiva Temple, Muthali Bhargavi Narasimha Swamy Temple, Govt.Hr Sec School, bukkasagaram Midhitepalli Bus Stop Garagamma Temple - Vanamangalam Sri Ardhanareshwaramma Temple - Moranapalli
 pH Temperature Turbidity Magnesium Hardness Total Alkalinity Chloride Sulphate Fluoride Nitrate Sodium Potassium Salinity Total nitrogen 	7 locations	Once in 7 locations	 Project site Lord Shiva Temple, Muthali Bhargavi Narasimha Swamy Temple, Govt.Hr Sec School, bukkasagaram Midhitepalli Bus Stop Garagamma Temple – Vanamangalam Sri Ardhanareshwaramma Temple - Moranapalli

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

		Г	<u> </u>
• Total			
Coliforms			
• Fecal			
Coliforms			
Water (surface water)	Sample from	One time Sampling	1. Bukkasagaram Lake –
• pH	nearby		4.45 km, S
• Temperature	lakes/river		
Turbidity			
Magnesium			
Hardness			
• Total			
Alkalinity • Chloride			
• Sulphate			
• Fluoride			
• Nitrate			
• Sodium			
• Potassium			
• Salinity			
Total nitrogen			
• Total			
Coliforms			
• Fecal			
Coliforms			
Soil	7 locations	Once in 7 locations	Project site
(Organic matter,			Lord Shiva Temple,
Texture, pH, Electrical			Muthali
Conductivity,			Bhargavi Narasimha Swamy
Permeability, Water			Temple,
holding capacity,			• Govt.Hr Sec School,
			bukkasagaram
Porosity)			Midhitepalli Bus Stop
			• Garagamma Temple -
			Vanamangalam
			• Sri Ardhanareshwaramma
			Temple - Moranapalli

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Ecology and	Study area	One time Sampling	
biodiversity Study	covering 10 km		
	radius		
Socio- Economic	Villages around	One time Sampling	
study	10 km radius		
(Population, Literacy			
Level, employment,			
Infrastructure like			
school, hospitals &			
commercial			
establishments)			

Table 6-2: Monitoring Schedule during Mining

S. No.	Attributes	Parameters	Frequency	Location
1.	Ambient Air Quality at Mine Site & Fugitive Dust Sampling		Once in a Month	Project Site
2.	Ground water Quality	Drinking Water Parameters, As per IS - 10500: 2012	Half yearly	Project Site
3.	Surface Water Quality	Class will be assessed as per the CPCB Guidelines	Half yearly	Project Site
4.	Soil Quality	(Organic matter, Texture, pH, Electrical Conductivity, Permeability, Water holding capacity, Porosity)	Half yearly	Project Site
5.	Noise Level Monitoring	Noise level in dB(A) Quarterly/half yearly	Half yearly	Project Site

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

7 Additional Studies

7.1 **GENERAL**

This chapter covers the details of the additional studies viz. Risk assessment, Disaster Management, Public Hearing, Rehabilitation and Resettlement.

7.1.1 **Public Hearing:**

As the proposed mining project falls under 1(a), Category B1 – Cluster Mining include

Existing Quarries:

- 1. Thiru.B.Srikar 1.86.50 Ha
- 2. Thiru.D.Sreenivasalu 3.17.08 Ha
- 3. Thiru. Venkatareddy 2.05.92 Ha

Expired/Old quarries:

1. M/s. Sarva Infra Pvt Ltd – 4.05.0 Ha

Proposed Quarries:

1. M/s. RKM Sand and Aggregates – 3.76.67 Ha

The Total extent of the Existing / Proposed quarries are 14.91.17Ha.

Hence under 7(III) of EIA notification 2006 and its subsequent amendments, the project involves the Public Consultation and the same will be conducted under SPCB (TN) in Krishnagiri District. The proceedings of the same will be incorporated in the Final EIA Report.

7.1.2 *Risk assessment:*

For mining projects to be successful, it should meet not only the production requirements, but also maintain the highest safety standards for all the workers. The industry has to identify the hazards, assess the associated risks and bring the risks to tolerable level regularly. Mining has considerable safety risk to miners. Unsafe conditions and practices in mines lead to a number of accidents and causes loss and injury to human

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

lives, damage property, interrupt production etc. Risk assessment is a systematic method of identifying and analyzing the hazards associated with an activity and establishing a level of risk. The hazards cannot be completely eliminated, and thus there is a need to define and estimate an accident risk level possible to be presented either in quantitative or qualitative way.

7.1.3 *Identification of Hazard*

7.1.3.1 Blasting Pattern:

The quarrying operation will be carried out by Opencast Semi Mechanized method in conjunction with conventional method of mining using Jack Hammer drilling and blasting for shattering effect and loosen the Rough Stone.

7.1.3.2 Drilling and Blasting:

Drilling and Blasting parameters are as follows:

Diameter of Hole	32-36mm
Spacing between holes	60 cms
Depth	1 to 1.5 m
Pattern of hole	Zigzag
Inclination of holes	70° from horizontal
Use of delay detonators	25 milli-second delays
Detonating fuse	"Detonating" Cord

a. Types of explosives to be used:

Small dia of 25mm Slurry explosives are proposed to be used for shattering and heaving effect for removal and winning of Rough Stone. No deep hole drilling or Primary blasting is proposed.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

b. Measures proposed to minimize ground vibration due to Blasting:

The quarry is situated more than 0.87 km from the nearby villages. Controlled blasting measures will be adopted for minimizing ground vibration and fly of rock. Shallow depths jackhammer drilling & blasting is proposed to be carried out with minimum use of explosive mainly to give the shattering effect in rough stone for easy excavation and to control fly of rocks.

Diameter of Holes = 32-36mm

Powder factor = 6 to 7 Tons/Kg of explosives

Depth = 1 to 1.5 m

Charge/Hole = D.Cord with water or 70gms of gun powder or Gelatine.

Blasted at day time = 5 to 6 PM

Storage and safety measures to be taken while blasting: The proponent will engage an authorized explosive agency to carry out the small amount of blasting and it will be supervised by competent and statutory Foreman/Permit Mines Manager.

Heavy Machineries: The following heavy machineries will be used in the proposed area:

- For Mining Excavator of 1.2 Cum Bucket capacity (with Rock Breaker attachment), Jack Hammers (25.5 mm Dia) of 4 Nos.
- Loading Equipment Excavator of 1.2 Cum Bucket Capacity (with Bucket attachment)
- Transportation (includes within the mine and mine to destination) Tipper 1 No. of 10 M.T capacity (from quarry to needy peoples and local crushers)

a. Risk:

Most of the accidents during transport of mined out mineral using other heavy vehicles are often attributed to mechanical failures and human errors.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

b. Mitigation measures to minimize the risk

- At the time of loading no person will be allowed within the swing radius of the excavation.
- The dumpers/ trucks will stand near the loading equipment and fully braked when the muck is filled in it.
- The truck would be brought to a lower level so that the loading operation suits to the ergonomic condition of the workers.
- The workers will be provided with helmets, gloves and safety boots; loading and unloading operations will be carried out only during daylight.
- All the mining machineries will be regularly maintained and checked such as brakes, lights and horns to keep in the efficient working order.

7.1.4 General Precautionary measures for the Risk involved in the proposed mine:

- In order to take care of above hazard/disaster, the following control measures will be adopted:
- All safety precautions and provisions of Mine Act,1952, Metalliferous Mines Regulation, 1961 and Mines Rules, 1955 will be strictly followed during all mining operations;
- Entry of unauthorized persons will be prohibited;
- Firefighting and first-aid provisions in the ECC and mining area;
- Provisions of all the safety appliances such as safety boot, helmets, goggles etc. will be made available to the workers (20 Nos.) and regular inspection for their use;
- In case of eventuality, first aid will be given by the senior safety office in the mine area initially to the injured person. The safety officer will give notice of accident as per Rule-23 of Mines Act-1952;
- The safety officer (common for 3 mines within 500m radius) will be responsible for coordination between management district authorities/DGMS etc. Regarding general safety as per Rule-181 of MMR 1961, "No person shall negligently or will fully do anything likely to endanger life or limb in the mine, or negligible or will fully omit to do anything necessary for the safety of the

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

mine or of the persons employed there in". The workers will be provided with protective foot wear and safety helmets;

- Cleaning of mine faces will be regularly done;
- Handling of explosives, charging and blasting will be carried out by highly skilled labors only;
- Regular maintenance and testing of all mining equipment as per manufacturer's guidelines;
- Suppression of dust by sprinkling water on the haulage roads;

7.1.5 Safety Team:

The effective implementation of compliance of Safety Rules/ Statutory Provisions will be ensured. The safety officer will be engaged, meeting the requirement of Mines Act and their duties and responsibilities. The safety officer will be responsible for identification of the hazardous conditions and unsafe acts of workers and advice on corrective actions, conduct safety audit, organize training programs and provide professional expert advice on various issues related to occupational safety and health. Organizing safety training will be conducted to employees and contractor labors periodically.

7.1.6 Emergency Control Centre

The emergency control center will be provided to handle the emergency. The site main controller, key personnel and the senior officers of the fire and police services will attend it. The center will be equipped to receive and transmit information and directions from and to the incident controller and other areas of the works, as well as outside. The emergency control center will be sited in an area of minimum risk. This common Emergency control center will be used for the mines around the 500m radius.

7.2 **DISASTER MANAGEMENT**

The possible risks in the case of stone along with associated minor minerals mining projects are fly rock, vibration failure of pit, slope and waste dump, accidents due to transportation. Mining and allied activities are associated with several potential hazards to both the employees and the public at large. Safety of the mine and the employees is taken care of by the mining rules &

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

regulations, which are well defined with laid down procedure for safety, which when scrupulously followed, safety is ensured not only to manpower but also to machines & working environment.

7.2.1 Emergency Management Plan For Proposed Mines On Site- Offsite Emergency Preparedness Plan:

The emergency plan delineates the procedures for dealing with accidents or unexpected events and natural calamities arising from mining activity. An experience of any accidents that have occurred in other manufacturing/mining projects is considered to prepare this plan. This Emergency plan should be periodically reviewed and modified. It should also be changed based on the observations of emergency mock drills and experience of handling actual emergencies.

Major objectives of this onsite – offsite emergency plan are:

To take necessary proactive and preventive actions to avoid the emergency.

The main aim of any emergency plan should be to prevent emergency situations.

To train the manpower to handle the emergencies of the following nature:

- Onsite (Within ML boundary)
- Offsite (Outside ML boundary)

7.2.1 *Onsite off-site emergency Plan:*

1- Emergency on account of:

- > Fire
- > Explosion
- Major accidents involving man-made collapse of the mining edges.
- > Snake bites, attack by honey bees or attack by wild animals.

2- Disaster due to natural calamities like:

Flood/ heavy rains which can involve natural landslides.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

- Earth quake
- > Cyclone
- > Lightening

7.2.2 Emergency Plan:

- The mining operations should be immediately stopped in case of any emergency. A siren will be sounded during emergency time.
- An emergency assembly point will be created and all the workers will guide visitors or contractors to approach assembly point.
- Emergency vehicle (Ambulance) will be available in the nearby place, in proximity to the three mines and will rush to the emergency control centre at the blowing of emergency siren. The driver of emergency vehicle will follow the instructions of Incident Controller/Site Main Controller.
- ➤ Workers will be trained for the precautions to be taken during natural disasters like heavy rain, floods, earthquake and cyclone.
- All escape routes from mines to the assembly point or any other safe location will be made and the escape plan will be displayed in many places in the mine area

7.2.3 Emergency Control:

- ➤ Shut down of mining operations: Raising the alarm or siren followed by immediate safe shut down of the power supply, and isolation of affected areas.
- > Treatment of injured: First aid and hospitalization of injured persons
- ➤ Protection of environment and property: During mitigation, efforts will be made to prevent impacts on environment and property to the extent possible.
- > Preserving all evidences and records: This will be done to enable a thorough investigation of the true causes of the emergency.
- > Ensuring safety of personnel prior to restarting of operations: Efforts required will be made to ensure that work environment is safe prior to restarting the work.

7.3 NATURAL RESOURCE CONSERVATION

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

There are no natural resources within the premises. The conservation strategies for energy will be followed in the proposed mine lease area. The pollutants of the mine will be minimized by adopting appropriate mitigation measures as mentioned Chapter 5 to prevent the effects on nearest water bodies. No surface runoff from the project site will be let into the nearest water bodies.

7.4 RESETTLEMENT AND REHABILITATION:

The proposed Mine lease area is Patta land. There is no displacement of the population within the project area and adjacent nearby area and hence Rehabilitation & Resettlement is not applicable.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA	
Project Proponent	M/s. RKM Sand and Aggregates	Report	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	-	

8 Project Benefits

8.1 **GENERAL**

This chapter covers the benefits accruing to the locality, neighborhood, region and nation as a whole. It brings out the details of benefits by way of improvements in the physical infrastructure, social infrastructure, employment potential and other tangible benefits.

8.1.1 Physical Benefits

The opening of the proposed project will enhance the following physical infrastructure facilities in the adjoining areas:

Market: Generating useful economical resource for construction. Due to demand supply chain, excavated mineral (Rough stone) will sold in the market in the affordable price.

Infrastructure: The excavated rough stone will be used for Laying Roads, Building & Construction Projects, Bridges.

Enhancement of Green Cover & Green Belt Development: As a part of reclamation plan, native tree species will be planted along the safety boundary of the mine lease area. A suitable combination of trees that can grow fast and also have good leaf cover will be adopted to develop the green belt. It is proposed to plant 500 numbers of native species along with some fruit bearing and medicinal trees during the mining plan period.

8.2 SOCIAL BENEFITS

The mining in the area will create rural employment. During site visit, it has been observed that the economic conditions of the villages in the study area is quite normal. After the development of the proposed mine, it will improve the livelihood of local people and also provide the indirect employment opportunities. The rough stone for the infrastructural development in the area will be made available from the local markets at reasonably lower price.

As a part of CER, i.e., 5 Lakhs will be allocated. The detailed agenda, which is to be executed has been framed. The salient features of the programmes are as follows:

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA	
Project Proponent	M/s. RKM Sand and Aggregates	Report	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	-	

To construct Toilet and Auditorium, Provide Sports equipments, Wire fence to playground and Basic amenities such as Environmental awareness books (Tamil) in Library for students, Green Belt development, Hygienic Toilet and maintenance of toilet upto lease period to Government High School, Venkatesapuram.

8.3 PROJECT COST / INVESTMENT DETAILS

1	A. Fixed Asset Cost:Land CostLabour Shed	:	Rs. 18,00,000/- Rs. 1,20,000/-
	Sanitary FacilityRefilling/Fencing costTotal=	:	Rs. 80,000/- Rs. 1,00,000/- Rs.21,00,000/-
2	B. Operational Cost: Machinery cost	:	Rs.30,00,000/-
	Total Project Cost(A+B)	:	Rs. 51,00,000/-

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	-

9 Environmental Management Plan

9.1 <u>INTRODUCTION</u>

This chapter comprehensively presents the Environmental Management Plan (EMP), which includes the administrative and technical setup, summary matrix of EMP, the cost involved to implement the EMP, during various Mining activities and provisions made towards the same in the cost estimates of project. This chapter describes the proposed monitoring scheme as well as interorganizational arrangements for effective implementation of the mitigation measures.

9.2 **SUBSIDENCE**

Mining will be carried out by opencast mechanized mining method with drilling & blasting as per mining plan approved by Department of Mining and Geology, Krishnagiri. Subsidence/slope failures are not envisaged because there are no loose strata overlying the deposit (mineral to be excavated). The bench height will be average 5m. The individual bench slope has been proposed to be kept at 60⁰ from horizontal. Moreover, all safety standards/ safeguards will be implemented as per guidelines prescribed by Director General of Mines Safety.

9.3 MINE DRAINAGE

9.3.1 Storm water Management

The following measures will be taken with respect to the prevailing site conditions.

- Storm water drains with silt traps of size 1m x 1m will be suitably constructed all along the periphery of the pit area to collect the run-off from the mine area and divert into the pit.
- All measures will be taken not to disturb the existing drainage pattern adjacent to the mine lease area.
- The storm water collected from the mine area will be utilized for dust suppression on haul roads, plantation within the premises, etc.,

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	-

9.3.2 *Drainage*

Local workers will be deployed for the project. But, urinals and Latrines will be provided and the same will be connected to septic tank followed by soak pit arrangement. No domestic waste will be deposited into the nearby area. Regular checking will be carried out to find any blockage due to silting or accumulation of loose materials. The drains will also be checked for any damage in lining / stone pitching, etc.

9.3.3 Administrative and Technical Setup

The Environment Management Plan (EMP) will consist of all mitigation measures for each component of the environment due to the activities increased during mining operation to minimize adverse environmental impacts resulting from the activities of the project.

To carry out the above activities, M/s. RKM Sand and Aggregates will work in association with M/s. Ecotech Labs Pvt Ltd.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	3
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	Report

Table 9-1: Impacts and mitigation measures

S. No	Impacts on Environment	Activity /Aspect	Anticipated impacts	Mitigation measures
1.	Air	Fugitive	During mining operation,	Planting of trees along the
		Emission	fugitive dust and other air	safety distance of the Mine
			pollutants like particulate	Lease Area
			matter (PM10 & PM 2.5)	
			will be generated.	
				Water will be sprinkled in the
				site as dust suppression
				measure.
2.	Water	Wastewater	Improper management of	Provision of urinals/Latrines
		Generation	Domestic wastewater in	along with septic tank
			the Mine lease may create	followed by soak pit
			unhygienic conditions in	arrangement will be provided
			the site thereby causing	in the Mine Lease area for the
			health impacts to the	proper management of
			labors	wastewater.
3.	Noise	Mining	Noise from the machinery	Use of personal protective
		activities like	can cause hypertension,	devices i.e., earmuffs and
		drilling,	high stress level, hearing	earplugs by workers, who are
		blasting,	loss, sleep disturbance etc	working in high noise
		loading and	due to prolonged	generating areas.
		transportation	exposure. Apart from	
			Mining activities like	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	Кероп

4.	Land	Improper management of Storm	drilling, blasting may generate noise Storm water Runoff may result in Soil Erosion	Garland drainage of 1m x 1m will be provided to avoid storm water run- off.
5.	Social	water Runoff Mining	Unhygienic site sanitation	The objective is to ensure
	Responsibility	workers	facilities may cause health damage to workers.	health and safety of the workers with effective provisions for the basic facilities of sanitation, drinking water, safety of equipments or machinery etc. The following will be done in the site ✓ By complying with the safety procedures, norms and guidelines (as applicable) as outlined in the National Building Code of India, Bureau of Indian Standards. ✓ Provide adequate number of

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	Кероп

					decentralized latrines
					and urinals
				✓	Providing Septic tank
					along with Soak pit
					arrangement
				✓	Providing First Aid
					room, conducting
					frequent health
					checkups to labor and
					conducting free
					medical camps
				✓	Providing safety
					helmet, Gloves,
					Jacket & Boots
				✓	Providing measures to
					prevent fires.
					Firefighting
					extinguishers and
					buckets of sand will
					be provided in the
					construction site
6.	Building	Building	Use of farfetched	•	Use of locally
	materials	Material	construction materials		available construction
	resource	consumption	than the locally available		materials.
	conservation		construction materials		
			may lead to over		
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Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	Кероп

exploitation of natural	
resources & increase in	
carbon footprint.	

Table 9-2: Budgetary Allocation for EMP during Mining

	Mitigation Measure	Provision for Implementation	Capital	Recurring
	Compaction, gradation and drainage on both sides for Haulage Road		37667	37667
Air Environment	Fixed Water Sprinkling Arrangements + Water sprinkling by own water tankers	New Water Tanker Cost for	800000	50000
	Muffle blasting – To control fly rocks during blasting	Blasting face will be covered with sand bags / steel mesh / old tyres / used conveyor belts	0	5000
	Wet drilling procedure / latest eco-friendly drill machine with separate dust extractor unit	Dust extractor @ Rs. 25,000/- per unit deployed as capital & @ Rs. 2500 per unit recurring cost for maintenance	75000	7500

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	Report

	No overloading of trucks/tippers/tractors	Manual Monitoring through Security guard	0	8857036
	Stone carrying trucks will be covered by tarpaulin	Monitoring if trucks will be covered by tarpaulin	0	10000
	Enforcing speed limits of 20 km/hr within ML area	Installation of Speed Governers @ Rs. 5000/- per Tipper/Dumper deployed	10000	1000
	Regular monitoring of exhaust fumes as per RTO norms	Monitoring of Exhaust Fumes by Manual Labour	0	5000
	Regular sweeping and maintenance of approach roads for at least about 200 m from ML Area	Provision for 2 labours @ Rs.10,000/labour (Contractual) per Hectare	0	75334
	Installing wheel wash system near gate of quarry	Installation + Maintenance + Supervision	50000	20000
Noise Environment	Source of noise will be during operation of transportation vehicles, HEMM for this proper maintenance will be done at regular intervals.	Provision made in Operating Cost	0	0
	Oiling & greasing of Transport vehicles and	Provision made in Operating Cost	0	0

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	1

HEMM at regular interval will be done			
Adequate silencers will be provided in all the diesel engines of vehicles.	Provision made in Operating Cost	0	0
It will be ensured that all transportation vehicles carry a fitness certificate.	Provision made in Operating Cost	0	0
Safety tools and implements that are required will be kept adequately near blasting site at the time of charging.	Provision made in OHS part	0	0
Line Drilling all along the boundary to reduce the PPV from blasting activity and implementing controlled blasting.	Provision made in Operating Cost	0	0
Proper warning system before blasting will be adopted and clearance of the area before blasting will be ensured.	Blowing Whistle by Mining Mate / Blaster / Compentent Person	0	0
Provision for Portable blaster shed	Installation of Portable blasting shelter	50000	2000

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

	NONEL Blasting will be practiced to control Ground vibration and fly rocks	Rs. 30/- per 6 Tonnes of Blasted Material	0	1932188
Waste	Waste management (Spent Oil, Grease etc.,)	Provision for domestic waste collection and disposal through authorized agency Installation of dust bins	25000	20000
Management	Bio toilets will be made available outside mine lease on the land of owner itself	Provision made in Operating Cost	0	0
Mine Closure	Progressive Closure Activity - Surface Runoff Management	Provision for garland drain @ Rs. 10,000/- per Hectare with maintenance of Rs. 5,000/- per annum	37667	5000
	2. Progressive Closure Activity Barbed Wire Fencing to quarry area will be Provisioned	Per Hectare fencing Cost @ Rs. 2,00,000/- with Maintenance of Rs 10,000/- per annum	753340	10000
	3. Progressive Closure Activity Green belt development - 500 trees per one hectare - (200 Inside	trenches, soil amendments, transplantation of saplings @	150668	22600.2

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	1

	Lease Area & 300 Outside	and @ 30 per plant maintenance		
	Lease Area)	(recurring)		
	4. Implementation of Final	Avenue Plantation @ 300 per plant (capital) for plantation outside the lease area and @ 30 per plant maintenance (recurring) For Final Closure activities 15%	339003	33900.3
	Mine Closure Activity as per Approved Mining Plan on Last Year.	of the proposed closure cost will be spent during final mine closure stage - Last year	202827	0
	5. Contribution towards Green Fund. As per TNMMCR 1959, Rule 35 A	The Contribution towards Green Funds @ 10% of Seigniorage fee are indicated as part of EMP Budget and not necessarily implemented in the Project Site	11482443	0
Implementation of EC, Mining	Size 6' X 5' with blue background and white letters as mentioned in MoM Appendix II by the SEAC TN	Fixed Display Board at the Quarry Entrance as permanent structure mentioning Environmental Conditions	10000	1000
Plan & DGMS Condition	Air, Water, Noise and Soil Quality sampling every 6 Months for Compliance Report of EC Conditions	Submission of 2 Half Yearly Compliance - Lab Monitoring Report as per CPCB norms	0	50000

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	•

Workers will be provided with Personal Protective Equipment's	Provision of PPE @ Rs. 4000/- per employee with recurring based on wear and tear (say, @ Rs. 1000/- per employee)	80000	20000
Health check up for workers will be provisioned	IME & PME Health check up @ Rs. 1000/- per employee	0	20000
First aid facility will be provided	Provision of 2 Kits per Hectare @ Rs. 2000/-	0	7533.4
Slope Stability Action Plan	Slope Stability action plan in the end of fourth year plan period	200000	0
Mine will have safety precaution signages, boards.	Provision for signages and boards made	10000	2000
No parking will be provided on the transport routes. Separate provision on the south side of the hill will be made for vehicles /HEMMs. Flaggers will be deployed for traffic management	Parking area with shelter and flags @ Rs. 50,000/- per hectare project and Rs. 10,000/- as maintenance cost	188335	10000
Installation of CCTV cameras in the mines and mine entrance	Camera 4 Nos, DVR, Monitor with internet facility	30000	5000

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s, RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	1

Grand Total (R	5)		148	43439
Total (Rs)			2851680	11991758.9
		25,000/- for Foreman / Mate		
		40,000/- for Manager & @		
	working	regulation 116 of MMR,1961 @		
	Plan and ensure safe quarry	1961 and Mining Mate under	0	780000
	Implementation as per Mining	regulation 34 / 34 (6) of MMR,		
		Class / Mine Foreman) under		
		Mines Manager (1st Class / 2nd		

Year	Cost (@ 5% per year inflation adjustment) in Rs.
1st Year	14843439
2nd Year	12591347
3rd Year	13220914
4th Year	13881960
5th Year	14576058
6th Year	15304861
7th Year	16070104
8th Year	16873609
9th Year	17717289
10th Year	18603154
Total	1536,82,735/-

Total EMP cost for the period of Ten years: - Rs.1536,82,735/- (Rs. 1537 Lakhs) only.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

10 Summary & Conclusion

This chapter summarizes the overall justification for implementation of the project and explains how the potential impacts are mitigated.

10.1 INTRODUCTION

M/s. RKM Sand and Aggregates site is a cluster of three mining projects. The individual mine lease area is 3.76.67 Ha of Rough Stone Quarry located at S.F.Nos. 70/4A & 70/5B of Midithepalli Village, Shoolagiri Taluk in Krishnagiri District.

10.2 PROJECT OVERVIEW

Table 10-1: Project Overview

S. No.	Description	Details
1	Project Name	Rough Stone and Gravel Quarry-3.76.67 Ha
2	Proponent	M/S. R.K.M Sand And Aggregates,
		Prop.Thiru. D. Ravikumar,
3	Mining Lease Area Extent	1.86.50 Ha
4	Location	S.F.Nos. 70/4A & 70/2B Midithepalli Village,
		Shoolagiri Taluk, Krishnagiri District.
5	Latitude	12° 46' 07.7657" N to 12° 45' 57.2328" N
6	Longitude	77° 57' 10.9141" E to 77° 57' 01.9504" E
7	Topography	Slightly elevated terrain
8	Site Elevation above MSL	The altitude of the area is 869m above MSL.
9	Topo sheet No.	57- H/13
10	Minerals of Mine	Rough Stone and Gravel Quarry
11	Proposed production of Mine	82,530m³ of Gravel and 12,24,475m³ of rough stone for Ten years only.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location Midithepalli Village, Shoolagiri Taluk, Krishnagiri District		

12	TIIA'	47 (2
12	Ultimate depth of Mining	47 m (2m gravel + 45 m rough stone)
13	Method of Mining	Open cast, mechanized mining
14	Water demand	2.0 KLD
15	Source of water	Water will be supplied through tankers supply
16	Manpower	20 Nos.
17	Mining Lease	Precise Area Communication Letter received from Deputy Director, Dept. of Geology & Mining, Krishnagiri vide letter Rc.No.768/2024Mines Dated 25.11.2024.
18	Mining Plan Approval	Mining Plan was approved by the Deputy Director, Dept. of Geology & Mining, Krishnagiri vide letter Rc.No.768/2024 Mines Dated 18.12.2024.
19	Production details	Geological resources:21,44,580m³ of rough stone and 96,630m³ of Gravel. Proposed yearwise recoverable reserves: 82,530m³ of Gravel and 12,24,475m³ of rough stone for Ten years only
20	Boundary Fencing	10 m barrier all along the boundary Fencing will be provided.
21	Disposal of overburden	The entire lease area is covered 2.0m of Gravel and the estimated quantity of Gravel is 82,530m ³ . Gravel formation will be removed, and hydraulic excavators are used for loading the gravel into the tipper from pit head to needy buyers. This will be done only after obtaining permission and paying necessary seigniorage fees to the Government.
22	Ground water	The ground water table is reported as 66m below ground level in nearby wells of this area. Mining depth taken as 47m. Now, proposed

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location Midithepalli Village, Shoolagiri Taluk, Krishnagiri District		

		quarry depth is above the water table. Hence, quarrying may not affect the ground water.
23	Habitations within 300m radius of the Project Site	There is no Habitation within 300m radius of the project site.
24	Drinking water	Water will be supplied through tankers from Midithepalli village which is 1.70 Km – Northeast of the proposed project site.

10.3 JUSTIFICATION OF THE PROPOSED PROJECT

The said project plays a significant role in the domestic as well as infrastructural market. To achieve a huge infrastructure being envisaged by Government of India, particularly in road and housing sector, there is a need for basic building materials. The rough stone form the primary building material.

Rough stone is one of the most valuable natural building materials. Aggregates are mostly used for building roads and footpaths Aggregates – stone used for its strong physical properties – crushed and sorted into various sizes for use in concrete, coated with bitumen to make asphalt or used 'dry' as bulk fill in construction. Mostly used in roads, concrete and building products. Aggregates represent about 98% of quarry output, most of which is used in road construction, maintenance and repair. Much of this goes to the production of asphalt; the remainder is used 'dry' without the addition of other materials to provide a sturdy base for roads.

Since Krishnagiri, a city known for its small-scale industries and also the soil in the area near project site is not very fertile making it unsuitable for carrying out agricultural activities. The topography near the lease area is barren dry lands showing only less chance for crop growth and development of vegetation. In addition to that, geological resources of rough stone is abundant in the lease area which is evident from the mine activities carried out in the nearby sites.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

<u>Table 10-2: Anticipate Impacts & Appropriate Mitigation Measures</u>

S. No.	Potential Impact	Mitigation Measure
1	The main impact in the air environment is	Proper mitigation measures like water
	dust emission during various mining	sprinkling on haul roads will be adopted
	activities such drilling, blasting,	to control dust emissions.
	excavation, loading and transportation. The	To control the emissions regular
	dust emission may affect the quality of	preventive maintenance of equipments
	ambient air in the and around the mine area.	will be carried out on contractual basis.
	The increased emission may cause	Plantation will be carried out along
	respiratory & Cardiovascular problems in	approach roads & mine premises.
	human health	
2	Waste water will be generated due to	No waste water will be generated from
	mining activity and from other domestic	the mining activity of minor minerals as
	activities. These may contaminate the	the project only involves lifting of over
	ground water leading to ground water. The	burden from mine site. The wastewater
	mining activity may affect the ground water	generated from the domestic activity
	table	will be disposed off safely through the
		proposed septic tank.
		Mining will not intersect ground water
		table. Hence the water table will not be
		impacted due to the proposed project
3	Noise will be generated in the mine area	Periodical monitoring of noise will be
	during various mining activities such as	done.
	blasting, drilling, excavation. During	No other equipments except the
	transportation of the mined out mineral,	transportation vehicles and Excavator
	there may be noise generation due to the	(as & when required) for loading will be
	movement of vehicles. This may impact the	allowed at site.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

	health condition of the workers by creating	Noise generated by these equipments
	headache	shall be intermittent and does not cause
		much adverse impact.
		Plantation will be carried out along
		approach roads. The plantation
		minimizes propagation of noise and also
		arrest dust.
4	Solid waste will be generated from the	The 100% recovery is achieved by
	mining activity as there will be refuse after	extracting the entire mineable reserve.
	95% recovery and also generation of	Hence there will be no refuse generation
	domestic waste	due to the mining activity. Apart from
		that, a very meagre quantity of domestic
		waste will be generated in the project,
		which will be handed over to the local
		body on daily basis.
5	During mining activities, there are chances	Dust masks will be provided as
	of workers getting health issues or may be	additional personal protection
	prone to accidents	equipment to the workers working in the
		dust prone area.
		Periodical trainings will be conducted to
		create awareness about the occupational
		health hazards due to activities like
		blasting, drilling, excavation
		Workers health related problem if any,
		will be properly addressed.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

11 Disclosure of Consultant

11.1 INTRODUCTION

This chapter presents the details of the environmental consultants engaged, their background and the brief description of the key personnel involved in the project. Specific studies on the mining project have been carried out by engaging engineers/experts of Ecotech Labs Pvt. Ltd, Chennai. Ecotech Labs Pvt. Ltd (ETL), Chennai is NABET accredited consultancy organization. ETL is equipped with in-house, spacious laboratory, accredited by NABL (National Accreditation Board for Testing & Calibration Laboratories), Department of Science & Technology, Government of India and MoEF & CC.

11.2 ECO TECH LABS PVT. LTD – ENVIRONMENT CONSULTANT

Eco Tech Labs Pvt. Ltd is a multi-disciplinary testing and research laboratory in India. Eco Tech labs provides high quality services in environmental consultancy, engineering solution, chemical and microbiological laboratory analysis of food, water and environment (Air, Water, Soil) with highest accuracy.

The Quality policy

- •We at Eco Tech Labs Pvt. Ltd. engaged in providing Environmental consulting services and we are committed to strengthen our capabilities in all areas of our operations in line with customer requirements & expectations, applicable legal requirements & stakeholders expectations.
- •We are committed to establish and maintain Quality Management System (QMS) for continual improvement in processes and Services
- •We are committed to provide customized solutions in realistic, time bound and cost effective to achieve highest degree of customer satisfaction and Environmental improvement.
- •We shall establish, maintain & periodically review our documented management systems, objectives and performance in consultation with our employees and prevailing best practices.

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

• Effective communication of organization's policy and objectives to employees and seeking feedbacks from all our employees and concerned stakeholders for continual improvement.

Declaration by Experts contributing to the EIA of Rough Stone and Gravel Quarry- 3.76.67 Ha by M/s. RKM Sand and Aggregates, S.F.No. 70/4A & 70/5B of Midithepalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu State

I, hereby, certify that I was a part of the EIA team in the following capacity that developed the above EIA.

EIA Coordinator: Dr. A. Dhamodharan

Signature:

Period of involvement: 01.12.2021 to Till now

Contact information: M/s. Ecotech Labs Pvt Ltd.,

No. 48, 2nd Main road, Ram Nagar South Extension,

Pallikaranai

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

S.	Function	Name of the	Involvement	Signature and
No.	al areas	experts	(period and task)	date
1	AP	Mrs. K. Vijayalakshmi	Selection of Baseline Monitoring stations based on the wind direction Interpretation of Baseline data by comparing it with standards prescribed by CPCB against the type of area Identification of sources of air pollution and	c. At.
			suggesting mitigation measures to minimize impact Period: December 2021 – Till now	
2	WP	Dr. A. Dhamodharan	 Selection of baseline Monitoring Locations for Ground water analysis and also identifying nearest surface water to be studied. Interpretation of baseline data collected Identification of impacts based on the baseline study conducted and also to the ground water and nearby surface water due to the proposed project Preparation of suitable and appropriate mitigation plan. Period: December 2021 – Till now 	A-D) Rowsin
3	SHW	Dr. A. Dhamodharan	1. Identification of nature of solid waste generated 2. Categorization of the generated waste and estimating the quantity of waste to be generated based on the per capita basis. Identification of impacts of SHW on Environment 3. Suggesting suitable mitigation measures by recommending appropriate disposal method for each category of waste generated 4. Top soil and refuse management	A-D) Jennin

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

			Period: December 2021 – Till now	
			1.Primary data collection through the census	
			questionnaire	Danhu
			2.Obtaining Secondary data from authenticated	
			sources and incorporating the same in EIA report.	
			3.Impact assessment & proposing suitable mitigation	
4	SE	Mr. S. Pandian	plan	
			4.CSR budget allocation by discussing with the local	
			body and allotting the same for need based activity.	
			Period: December 2021 – Till now	
			*Involves Public Hearing	
			1. Primary data collection through field survey and	
			sheet observation for ecology and biodiversity	A-Mayla
			2. Secondary Collection through various	10 0 10
5	EB	Dr. A.	authenticated sources	
3	ED	Dhamodharan	3. Prediction of anticipated impacts and suggesting	
			appropriate mitigation measures.	
			Period: December 2021 – Till now	
			1. Study of existing surface drainage arrangements	
			in the core and buffer zone, impact due to mining on	(n) ~ +
		Dr. T. P.	these drainage courses and suggestion of mitigative	
		Natesan	measures	
			2. Determination of groundwater use pattern,	
6	HG		development of rainwater harvesting program.	
0	IIO		Storm water management through garland drainage	
			system.	
			Period: December 2021 – Till now	

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

7	GEO	Dr. T. P. Natesan	1. Field survey for assessing regional and local geology, aquifer distribution, Determination of groundwater use pattern, development of rainwater harvesting program. Period: December 2021 – Till now	(n) ~ 1+
8	SC	Dr. A. Dhamodharan	 Interpretation of baseline report Identification of possible impacts on soil, prediction of soil conservation and suggesting suitable mitigation measures. Period: December 2021 – Till now 	A-D Romin
9	AQ	Mrs. K. Vijayalakshmi	 Collection of Meteorological data for the baseline study period Plotting wind rose plot and thereby selecting the monitoring locations based on the wind pattern Estimation of sources of air emissions and air quality modeling is done Interpretation of the results obtained Identification of the impacts and suggesting suitable mitigation measures. Period: December 2021 – Till now 	x. A.
10	NV	Mrs. K. Vijayalakshmi	 Selection of monitoring locations Interpretation of baseline data Prediction of impacts due to noise pollution and suggestion of appropriate mitigation measures Period: May 2022 – Till now 	Kioir

Project	Rough stone and Gravel Quarry – 3.76.67 Ha	Draft EIA
Project Proponent	M/s. RKM Sand and Aggregates	Report
Project Location	Midithepalli Village, Shoolagiri Taluk, Krishnagiri District	

Ī				1. Collection of Remote sensing satellite data to	
				study the land use pattern.	(1) 10/11/
				2. Primary field survey and limited field verification	
	1.1	* * * * * * * * * * * * * * * * * * * *	Dr. T. P.	for land categorization in the study area	
	11 LU	LU	Natesan	3. Preparation of Land use map using Satellite data	
				for 10km radius around the project site.	
				Period: December 2021 – Till now	
Ī				1. Identification of the risk	
	12			2. Interpreting consequence contours	N.O.L
		RH	Mrs. K.	3. Suggesting risk mitigation measures	11
			Vijayalakshmi	D 1. D 2021 Till	
				Period: December 2021 – Till now	

Declaration by the Head of the accredited consultant organization/ authorized person

I, Dr. A. Dhamodharan, hereby, confirm that the above-mentioned experts prepared the EIA report of mining project at Survey Numbers. 70/4A & 70/2B Midithepalli Village, Shoolagiri Taluk, Krishnagiri District. I also confirm that the consultant organization shall be fully accountable for any misleading information mentioned in this statement.

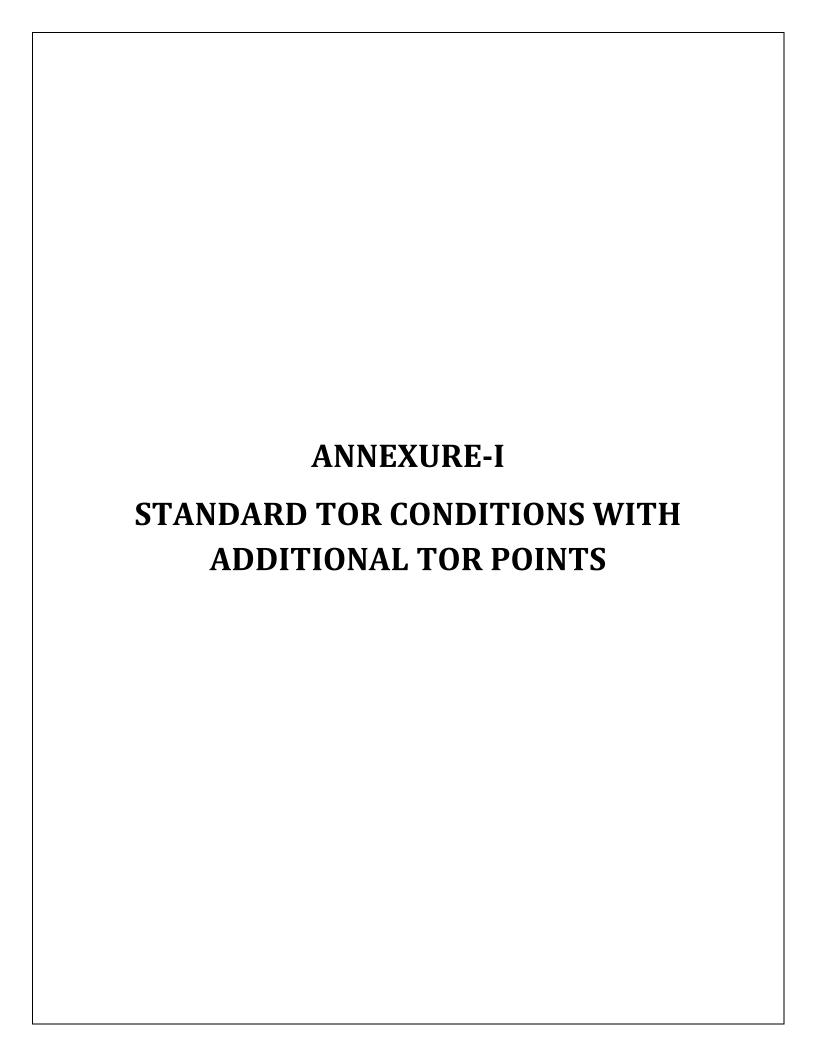
Signature:

Name: Dr. A. Dhamodharan

Designation: Managing Director

Name of the EIA consultant organization: M/s. Eco Tech Labs Private Limited

NABET Certificate No. & Issue Date: NABET/EIA/25- 28/RA 0444





File No: 11889

Government of India

Ministry of Environment, Forest and Climate Change (Issued by the State Environment Impact Assessment Authority(SEIAA), TAMIL NADU)



Dated 13/05/2025



To,

M/s. R.K.M Sand and Aggregates

R/AT NO. 50, RADHA LAKSHMI NILAYA, DEVASANDRA MAIN ROAD, K R RPURAM, BANGALORE, ADARSH PALM, RETREAT VILLAS, DEVARABISANAHALLI, BANGALORE, BENGALURU URBAN, KARNATAKA, 560103

rkd50.parivesh@gmail.com

Subject:

Grant of Terms of Reference under the provision of the EIA Notification 2006-as amended regarding.

Sir/Madam,

Sub: SEIAA, Tamil Nadu – Proposed Rough stone & Gravel Quarry lease over an extent of 3.76.67Ha at S.F.Nos.70/4A & 70/5B of Midithepalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by M/S. R.K.M Sand and Aggregates - under project category – "B1" and Schedule S.No. 1(a) – ToR issued along with Public Hearing- preparation of EIA report – Regarding.

Ref: 1. Online proposal No. SIA/TN/MIN/524962/2025, Dated: 25/02/2025.

- 2. Your application submitted for Terms of Reference dated: 26.03.2025.
- 3. Minutes of the 542nd SEAC Meeting held on 26.03.2025.
- 4. Minutes of the 817th Authority meeting held on 07.05.2025.
- 2. The particulars of the proposal are as below:

(i) TOR Identification No. TO25B0108TN5423420N

(ii) File No. 11889
(iii) Clearance Type TOR
(iv) Category B1

(v) **Project/Activity Included Schedule No.** 1(a) Mining of minerals

(vii) Name of Project

R.K.M sand and Aggregate - Rough stone and

Gravel Quarry

(viii) Name of Company/OrganizationDUDDUKURI RAVIKUMAR(ix) Location of Project (District, State)KRISHNAGIRI, TAMIL NADU

(x) Issuing AuthoritySEIAA(xii) Applicability of General Conditionsno(xiii) Applicability of Specific Conditionsno

SIA/TN/MIN/524962/2025 Page 1 of 24

- 1.In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were submitted to the SEIAA for an appraisal by the SEAC under the provision of EIA notification 2006 and its subsequent amendments.
- 2. The above-mentioned proposal has been considered by SEIAA in the meeting held on 07.05.2025. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B,] are available on PARIVESH portal which can be accessed by scanning the QR Code above.
- 3.The State Expert Appraisal Committee (SEAC), based on the information & clarifications provided by the project proponent and after detailed deliberations on all technical aspects recommended the proposal for grant of Terms of Reference with public hearing under the provision of EIA Notification, 2006 and as amended thereof subject to the stipulation of specific and general conditions as detailed in Annexure (2).
- 4.The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification,2006 & further amendments thereto and after accepting the recommendations of the SEAC hereby decided to issue the following Terms of Reference with public hearing for instant proposal of M/s. R.K.M Sand and Aggregates under the provisions of EIA Notification, 2006 and as amended thereof.
- 5. The Ministry/SEIAA-TN reserves the right to stipulate additional conditions, if found necessary.
- 6. The Terms of Reference with public hearing to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/Regulations or Statutes, as applicable, to the project.
- 7. This issues with the approval of the Competent Authority.
- 8. The TORs with public hearing prescribed shall be valid for a period of three years from the date of issue, for submission of the EIA/EMP report as per OM No. J-11013/41/2006-IA-II(I)(part) dated 29th August 2017.

Copy To

- 1. The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
- 2. The Principal Secretary to Government, Environment and Forests Department, Tamil Nadu.
- 3. The Additional Chief Secretary to Government, Natural Resources Department, Tamil Nadu.
- 4. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
- 5. The Chair Person, TNPC Board, 76, Mount Salai, Guindy, Chennai-32
- 6. The District Collector, Krishnagiri District
- 7. The Commissioner of Geology and Mines, Guindy, Chennai-32
- 8. The Assistant Director, Department of Geology & Mining, Krishnagiri District
- 9. EI Division, Ministry of Environment & Forests, Paryavaran Bhawan, New Delhi.
- 10. Integrated Regional office of MoEF&CC, Sasthri Bhawan, Nungambakkam, Chennai
- 11. File Copy

Annexure 1

Specific Terms of Reference for (Mining Of Minerals)

1. Seiaa Specific Conditions:

S. No	Terms of Reference
1.1	The authority noted that the subject was placed in the 542 nd SEAC-I meeting held on 26.03.2025. After detailed discussions, the Authority accepts the recommendation of SEAC-I and decided to grant Terms of Reference (ToR) along with Public Hearing for the quantity of 12,24,475 m³ of rough stone and 82,530 m³ of gravel upto the depth of 47m as per the approved mining plan, under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC-I &

SIA/TN/MIN/524962/2025 Page 2 of 24

S. No	Terms of Reference
	normal conditions & the conditions mentioned in Annexure of this minutes.

2. Seac Conditions - Site Specific

S. No	Terms of Reference
2.1	1. The PP shall furnish a sworn affidavit stating that the project proponent shall quarry only to the proposed depth. 2. A Cluster Management Committee (CMC) shall be constituted including all the mines in the cluster as Committee Members for the effective management of the mining operation in the cluster through systematic & scientific approach with appointment of required statutory personnel, appropriate environmental management, system of maintaining the haul roads and village/panchayat roads, authorized blasting operation, Monitoring system of the environmental & other statutory compliances & its reporting status, etc. The PP shall submit the following details in the form of an Affidavit during the EIA appraisal: (i) Copy of the agreement forming CMC. (ii) The Organisation chart of the Committee with defining the role of the members (iii) The 'Standard Operating Procedures' (SoP) executing the planned activities. 3. The PP shall ensure the installation of CCTV at the proposed quarry site and ensure its inclusion during the EIA presentation.

3. Seac Standard Conditions

S. <mark>No</mark>	Terms of Reference
3.1	1. In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following: (i) Original pit dimension (ii) Quantity achieved Vs EC Approved Quantity (iii) Balance Quantity as per Mineable Reserve calculated. (iv) Mined out Depth as on date Vs EC Permitted depth (v) Details of illegal/illicit mining (vi) Violation in the quarry during the past working. (vii) Quantity of material mined out outside the mine lease area (viii) Condition of Safety zone/benches (ix) Revised/Modified Mining Plan showing the benches of not exceeding 6 m height and ultimate depth of not exceeding 50m. 2. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site. 3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc. 4. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry. 5. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report. 6. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas,

SIA/TN/MIN/524962/2025 Page 3 of 24

S. No	Terms of Reference
	Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site. 7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall the PP shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC. 8. However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level. 9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent. 10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site. 11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences. 12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish t
	14. Quantity of minerals mined out. Highest production achieved in any one year Detail of approved depth of mining. Actual depth of the mining achieved earlier. Name of the person already mined in that leases area. HEC and CTO already obtained, the copy of the same shall be submitted. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches. 15. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone). 16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc., 17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan. 18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same. 19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act 1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment. 20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface water

SIA/TN/MIN/524962/2025 Page 4 of 24

S. No	Terms of Reference
	bodies such as rivers, tanks, canals, ponds, etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
	21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study. 22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry
	and the surrounding habitations in the mind. 23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted. 24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife
	sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given. 25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be
	provided. 26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
	 27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided. 28. Impact on local transport infrastructure due to the Project should be indicated. 29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining
	activity. 30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
	31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible. 32. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
	33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
	34. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.

SIA/TN/MIN/524962/2025 Page 5 of 24

S. No	Terms of Reference
	35. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period. 36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed. 37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations. 38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation. 39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given. 40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc. 41. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB. 42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine. 43. Concealing any factual information or submission of false/fabricated

4. Seiaa Standard Conditions:

S. No	Terms of Reference
4.1	Cluster Management Committee 1. Cluster Management Committee shall be framed which must include all the proponents in the cluster as members including the existing as well as proposed quarry. 2. The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc., 3. The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease and the same shall be updated every year to the AD/Mines. 4. Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network. 5. The committee shall deliberate on risk & emergency management plan, fire safety & evacuation plan and sustainable development goals pertaining to the cluster in a holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan. 6. The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the Environmental policy devised shall be given in detail in the EIA Report. 7. The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner.

SIA/TN/MIN/524962/2025 Page 6 of 24

S. No	Terms of Reference
	8. The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public in the vicinity. Agriculture & Agro-Biodiversity
	9. Impact on surrounding agricultural fields around the proposed mining Area.
	10. Impact on soil flora & vegetation around the project site. 11. Details of type of vegetation including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetation all along the boundary of the proposed mining area shall committed mentioned in EMP.
	12. The Environmental Impact Assessment should study the agro-biodiversity, agro- forestry, horticultural plantations, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.
	13. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.
	14. The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock. Forests
	15. The project proponent shall detailed study on impact of mining on Reserve forests and free ranging wildlife.
	16. The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.
	17. The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.
	18. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site. Water Environment
	19. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the entire
	mine lease period. 20. Erosion Control measures.
	21. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas.
	22. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.23. The project proponent shall study and furnish the details on potential fragmentation impact on natural Environment, by the activities.
	24. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts.
	25. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.
	26. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.27. The EIA shall include the impact of mining activity on the following:
	a) Hydrothermal/Geothermal effect due to destruction in the Environment.b) Bio-geochemical processes and its foot prints including Environmental stress.
	 c) Sediment geochemistry in the surface streams. Energy 28. The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently
	utilise the Energy shall be furnished.

SIA/TN/MIN/524962/2025 Page 7 of 24

S. No	Terms of Reference
	Climate Change
	29. The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities. 30. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock, soil health and physical, chemical & biological soil features.
	31. Impact of mining on pollution leading to GHGs emissions and the impact of the same on the local livelihood.
	Mine Closure Plan
	32. Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued.
	EMP
	33. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies
	covering the entire mine lease period as per precise area communication order issued and the scope for achieving SDGs.
	34. The Environmental Impact Assessment should hold detailed study on EMP with budget for
	Green belt development and mine closure plan including disaster management plan.
	Risk Assessment
	35. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.
	Disaster Management Plan
	36. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities covering the entire mine lease period as per precise area communication order issued. Others
	37. The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc.
	38. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan. 39. The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the Environment. The ecological risks and impacts of plastic & microplastics on aquatic Environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.

Standard Terms of Reference for (Mining of minerals)

1.

S. No	Terms of Reference	
1.1	Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there been any increase in production after the EIA Notification 1994 came into force, w.r.t. the hig production achieved prior to 1994	
1.2	A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine	

SIA/TN/MIN/524962/2025 Page 8 of 24

S. No	Terms of Reference
	should be given
1.3	All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee
1.4	All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the areashould be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone)
1.5	Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics
1.6	Details about the land proposed for mining activities should be givenwith information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority
1.7	It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of noncompliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report
1.8	Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided
The study rea will comprise of 10 km zone around the mine lease from lease periphery and contained in the EIA such as waste generation etc. should be for the life of the mine / lease periphery and contained in the EIA such as waste generation etc.	
Land use of the study rea delineating forest area, agricultural land, grazing land, wildlife national park, migratory routes of fauna, water bodies, human settlements and other features should be indicated. Land use plan of the mine lease area should be prepared to preoperational, operational and post operational phases and submitted. Impact, if any, or land use should be given	
Details of the land for any Over Burden Dumps outside the mine lease, such as extendistance from mine lease, its land use, R&R issues, if any, should be given	
1.12	A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal

SIA/TN/MIN/524962/2025 Page 9 of 24

S. No	Terms of Reference	
	Committees	
1.13	Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished	
1.14	Implementation status of recognition of forest rights under the Scheduled Tribes and o Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated	
1.15	The vegetation in the RF / PF areas in the study area, with necessary details, should be given	
1.16	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted	
1.17	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlifeand copy furnished	
1.18	A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost	
1.19	Proximity to Areas declared as Critically Polluted or the Project areas likely to come under Aravali Range, (attracting court restrictions for mining operations), should also be indicated a where so required, clearance certifications from the prescribed Authorities, such as the SPCB State Mining Dept. Should be secured and furnished to the effect that the proposed mining activit could be considered	
1.20	Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencie demarcating LTL. HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such a mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority)	
1.21	R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their	

SIA/TN/MIN/524962/2025 Page 10 of 24

S. No	Terms of Reference	
	R&R and socio-economic aspects should be discussed in the Report	
1.22	One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season); December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given	
1.23	Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map	
1.24	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated	
1.25	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided	
1.26	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided	
1.27	Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided	
1.28	Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from State Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished	
1.29	Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out	
1.30	Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same	
1.31	A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation	

SIA/TN/MIN/524962/2025 Page 11 of 24

S. No	Terms of Reference		
	already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution		
1.32	Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines		
1.33	Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report		
1.34	Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report		
1.35	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed		
1.36	Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations		
1.37	Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation		
1.38	Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project		
1.39	Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project		
1.40	Details of litigation pending against the project, if any, with direction /order passed by any Court Law against the Project should be given		
1.41	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out		
1.42	A Disaster management Plan shall be prepared and included in the EIA/EMP Report		
1.43	Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc		
1.44	Besides the above, the below mentioned general points are also to be followed:- a) All documents to		

SIA/TN/MIN/524962/2025 Page 12 of 24

S. No	Terms of Reference
	be properly referenced with index and continuous page numbering. b) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated. c) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project. d) Where the documents provided are in a language other than English, an English translation should be provided. e) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted. f) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed. g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation. h) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. i) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections
	and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area



SIA/TN/MIN/524962/2025 Page 13 of 24

A. STANDARD TERMS OF REFERENCE

- 1) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- 2) A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- 3) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
- 4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topo sheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 5) Information should be provided in Survey of India Topo sheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- 6) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- 7) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.

SIA/TN/MIN/524962/2025 Page 14 of 24

- 8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
- 9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
- 10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- 11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
- 12) Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 13) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of Net Present Value (NPV) and Compensatory Afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- 14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.

SIA/TN/MIN/524962/2025 Page 15 of 24

- 16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
- 17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- 18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- 19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
- 20) Similarly, for Coastal Projects, a CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease with respect to CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- 21) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation &

SIA/TN/MIN/524962/2025 Page 16 of 24

Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.

- 22) One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season); December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
- 23) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of Vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
- 24) The water requirement for the Project, its availability and source should be furnished.

 A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
- 25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.

SIA/TN/MIN/524962/2025 Page 17 of 24

- 26) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
- 27) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
- 28) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
- 29) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
- 30) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
- 31) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted cle arly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
- 32) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if

SIA/TN/MIN/524962/2025 Page 18 of 24

- contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
- 33) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 34) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- 35) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
- 36) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- 37) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- 38) Detailed Environmental Management Plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- 39) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- 40) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 41) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 42) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.

SIA/TN/MIN/524962/2025 Page 19 of 24

- 43) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- 44) Besides the above, the below mentioned general points are also to be followed:
 - a) Executive Summary of the EIA/EMP Report
 - b) All documents to be properly referenced with index and continuous page numbering.
 - c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
 - e) Where the documents provided are in a language other than English, an English translation should be provided.
 - f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
 - h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the ToR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
 - i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the Environment Clearance for the existing operations of the project, should be

SIA/TN/MIN/524962/2025 Page 20 of 24

- obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
- j) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

In addition to the above, the following shall be furnished:-

The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating the information on following points:

- 1. Project name and location (Village, District, State, Industrial Estate (if applicable).
- 2. Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
- 3. Measures for mitigating the impact on the environment and mode of discharge or disposal.
- 4. Capital cost of the project, estimated time of completion.
- 5. The proponent shall furnish the contour map of the water table detailing the number of wells located around the site and impacts on the wells due to mining activity.
- 6. A detailed study of the lithology of the mining lease area shall be furnished.
- 7. Details of village map, "A" register and FMB sketch shall be furnished.
- 8. Detailed mining closure plan for the proposed project approved by the Geology of Mining department shall be shall be submitted along with EIA report.
- 9. Obtain a letter /certificate from the Assistant Director of Geology and Mining standing that there is no other Minerals/resources like sand in the quarrying area within the approved depth of mining and below depth of mining and the same shall be furnished in the EIA report.
- 10. EIA report should strictly follow the Environmental Impact Assessment Guidance Manual for Mining of Minerals published February 2010.
- 11. Detail plan on rehabilitation and reclamation carried out for the stabilization and restoration of the mined areas.

SIA/TN/MIN/524962/2025 Page 21 of 24

- 12. The EIA study report shall include the surrounding mining activity, if any.
- 13. Modeling study for Air, Water and noise shall be carried out in this field and incremental increase in the above study shall be substantiated with mitigation measures.
- 14. A study on the geological resources available shall be carried out and reported.
- 15. A specific study on agriculture & livelihood shall be carried out and reported.
- 16. Impact of soil erosion, soil physical chemical and biological property changes may be assumed.
- 17. Site selected for the project Nature of land Agricultural (single/double crop), barren, Govt./ private land, status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10km other industries, forest, eco-sensitive zones, accessibility, (note in case of industrial estate this information may not be necessary)
- 18. Baseline environmental data air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population
- 19. Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
- 20. Likely impact of the project on air, water, land, flora-fauna and nearby population
- 21. Emergency preparedness plan in case of natural or in plant emergencies
- 22. Issues raised during public hearing (if applicable) and response given
- 23. CER plan with proposed expenditure.
- 24. Occupational Health Measures
- 25. Post project monitoring plan
- 26. The project proponent shall carry out detailed hydro geological study through intuitions/NABET Accredited agencies.
- 27. A detailed report on the green belt development already undertaken is to be furnished and also submit the proposal for green belt activities.
- 28. The proponent shall propose the suitable control measure to control the fugitive emissions during the operations of the mines.

SIA/TN/MIN/524962/2025 Page 22 of 24

- 29. A specific study should include impact on flora & fauna, disturbance to migratory pattern of animals.
- 30. Reserve funds should be earmarked for proper closure plan.
- 31. A detailed plan on plastic waste management shall be furnished. Further, the proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throw away plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986. In this connection, the project proponent has to furnish the action plan.

Besides the above, the below mentioned general points should also be followed:-

- a. A note confirming compliance of the TOR, with cross referencing of the relevant sections / pages of the EIA report should be provided.
- b. All documents may be properly referenced with index, page numbers and continuous page numbering.
- c. Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.
- d. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF& CC vide O.M. No. J-11013/41/2006-IA.II (I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.
- e. The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India (QCI)/National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. In this regard circular no F. No.J -11013/77/2004-IA-II(I) dated 2nd December, 2009, 18th March 2010, 28th May 2010, 28th June 2010, 31st December 2010 & 30th September 2011 posted on the Ministry's website http://www.moef.nic.in/may be referred.
 - After preparing the EIA (as per the generic structure prescribed in Appendix-III of the EIA Notification, 2006) covering the above mentioned points, the

SIA/TN/MIN/524962/2025 Page 23 of 24

proponent will take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.

- The final EIA report shall be submitted to the SEIAA, Tamil Nadu for obtaining Environmental Clearance.
- The TORs with public hearing prescribed shall be <u>valid for a period of three</u> <u>years</u> from the date of issue, for submission of the EIA/EMP report as per OMNo.J-11013/41/2006-IA-II(I)(part) dated 29th August, 2017.



SIA/TN/MIN/524962/2025 Page 24 of 24

TOR Reply of Proposed Rough Stone Quarry Over an Extent of 3.76.67 Ha

COMPLIANCE OF TOR CONDITIONS

Point wise compliance of ToR points issued by SEIAA, TN vide ToR Identification No. TO25B0108TN5423420N Dated: 13.05.2025 for Mining of Minor Minerals in the Mine of Proposed Rough stone and Gravel Quarry Over an Extent of 3.76.67 Ha at S.F.No.70/4A & 70/5B of Midithepalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu State.

STANDARD TERMS OF REFERENCE

ToR Ref.	Description	Response	Page Ref. in EIA Report
1	Year-wise production details since	This is a fresh mining project of	
	1994 should be given, clearly	Proposed Rough stone and Gravel	Chapter-2
	stating the highest production	quarry.	
	achieved in any one year prior to	Precise Area Communication Letter	Table No.2.2
	1994. It may also be categorically	received from Deputy Director, Dept.	Page No.42
	informed whether there had been	of Geology & Mining, Krishnagiri	
	any increase in production after	vide letter Rc.No.768/2024 Mines	
	the EIA Notification, 1994 came	Dated 25.11.2024.	
	into force w.r.t. the highest	Mining Plan was approved by the	
	production achieved prior to 1994.	Deputy Director, Dept. of Geology &	
		Mining, Krishnagiri vide letter	
		Rc.No.768/2024 Mines Dated	
		18.12.2024.	
		As area is being exploited for the first	
		time hence Year-wise production	
		details since 1994 and before 1994 are	
		not relevant or applicable.	
		Proposed Production of Rough Stone	
		for five years is proposed in the	
		EIA/EMP in chapter no-2.	

	TOR Reply of Proposed Rough Stone Quarry Over an Extent of 3.76.67 Ha				
2.	A copy of document in support of the fact that the Proponent is the rightful lessee of the mine should be given.	The mine lease area of 3.76.67 hectare in Midithepalli Village for Rough stone and Gravel quarry approved by Mining Plan was approved by the Deputy Director, Dept. of Geology & Mining, Krishnagiri vide letter Rc.No.768/2024 Mines Dated 18.12.2024	Annexure		
3	All documents including approved mine plan, EIA and public hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management and mining technology and should be in the name of the lessee.		Annexure-VI Chapter- II		
4	All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/ Topo - sheet should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).	Details of coordinates of all corners of proposed mining lease area have been incorporated in mining plan and Chapter 2 of EIA/ EMP Report.	Chapter-2, Fig no. 2.2		
5	Information should be provided in Survey of India Topo sheet in 1:50,000 scale indicating geological map of the area, important water	Topo map as attached in Chapter-2	Chapter-2, Fig no. 2.4		

TOR Reply of Proposed Rough Stone Quarry Over an Extent of 3.76.67 Ha

	bodies, streams and rivers and soil		
	characteristics		
6.	Details about the land proposed for	Details about the land proposed for	
	mining activities should be given	mining activities should be given	Chapter-2
	with information as to whether	Chapter 2.	Page 42
	conforms to the land use policy of		
	the state; land diversion for mining		
	should have approval from State		
	land use board or the concerned		
	authority		
7	It should be clearly stated whether	Noted.	
	the proponent company has a well		
	laid down Environment Policy		
	approved by its Board of Directors?		
	If so, it may be spelt out in the EIA		
	report with description of the		
	prescribed operating		
	process/procedures to bring into		
	focus any infringement/deviation/		
	violation of the environmental or		
	forest norms/ conditions?		
	The hierarchical system		
	or administrative order of the		
	Company to deal with the		
	environmental issues and for		
	ensuring compliance with the EC		
	conditions may also be given. The		
	system of reporting of non-		
	compliances / violations of		
	environmental norms to the Board		

	of Directors of the Company		
	and/or shareholders or		
	stakeholders at large may also be		
	detailed in the EIA report.		
8	Issues relating to Mine	It is an open cast mining project.	Chapter-2,
	Safety, including subsidence study	Blasting details are incorporated in	
	in case of underground mining	chapter 2	Page no.57
	and slope study in case of open		
	cast mining, blasting study etc.		
	should be detailed. The proposed		
	safeguard measures in each case		
	should also be provided.		
9	The study area will comprise of	Study area comprises of 10 km radius	Chapter-2
	10 km zone around the mine lease	from the mine lease boundary. Key	
	from lease periphery and the data	Plan showing core zone (ML area).	Fig no. 2.5
	contained in the EIA such as		
	waste generation etc should be for		Page no.45
	the life of the mine / lease period.		
10	Land use of the study	Land Use of the study area	Chapter-2,
	area delineating forest area,	delineating forest area, agricultural	Table no.
	agricultural land, grazing land,	land, grazing land, wildlife sanctuary,	2.4
	wildlife sanctuary, national park,	National Park, migratory routes of	Page no.47
	migratory routes of fauna, water	fauna, water bodies, human	
	bodies, human settlements and	settlements and other ecological	
	other ecological features should be	features has been prepared and	
	indicated.	incorporated in Chapter-2 of EIA/	
	Land use plan of the mine lease	EMP Report.	
	area should be prepared to		
	encompass preoperational,	There is no wildlife sanctuary and	
	operational and post operational	national park, migratory routes of	
	phases and submitted. Impact, if	fauna in the study area. The nearest	

TOR Reply of Pro	posed Rough Stor	ne Quarry Over a	n Extent of 3.76.67 Ha
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	any, of change of land use	wildlife sanctuary is Cauvery North	
	should be given.	Wildlife Sanctuary located 25.35 km -	
		S	
11	Details of the land for any Over	Gravel formation will be removed and	Chapter-2,
	Burden Dumps outside the mine	transported to the needy end user,	
	lease, such as extent of land area,	only after obtaining permission and	Page no.56
	distance from mine lease, its land	paying necessary seigniorage fees to	
	use, R&R issues, if any, should be	the Government.	
	given.		
12	A Certificate from the Competent	Complied.	
	Authority in the State Forest	The proposed mining lease area is not	
	Department should be provided,	falling under forest land.	
	confirming the involvement of		
	forest land, if any, in the project		
	area.		
	In the event of any contrary claim		
	by the Project Proponent regarding		
	the status of forests, the site may be		
	inspected by the State Forest		
	Department along with the		
	Regional Office of the Ministry to		
	ascertain the status of forests,		
	based on which, the Certificate in		
	this regard as mentioned above be		
	issued. In all such cases, it would		
	be desirable for representative of		
	the State Forest Department to		
	assist the Expert Appraisal		
	Committees.		

13	Status of forestry clearance for the	The proposed mining lease area is not	
	broken-up area and virgin	falling under forest land.	
	forestland involved in the Project		
	including deposition of net present		
	value (NPV) and compensatory		
	afforestation (CA) should be		
	indicated. A copy of the forestry		
	clearance should also be furnished.		
14	Implementation status of	Not Applicable.	
	recognition of forest rights under		
	the Scheduled Tribes and other	There is no involvement of forest land	
	Traditional Forest Dwellers	in the project area.	
	(Recognition of Forest Rights) Act,	- 7	
	2006 should be indicated.		
15	The vegetation in the RF / PF	Details of flora have been discussed	Chapter-3
	areas in the study area, with	in Chapter-3 of the EIA/EMP	Pg No. 99
	necessary details, should be given.	Report.	
16	A study shall be got done to	There is a relatively poor sighting of	
	ascertain the impact of the Mining	animals in the core and buffer areas	
	Project on wildlife of the study	of the mining lease.	
	area and details furnished. Impact	No significant impact is anticipated	
	of the project on the wildlife in the		
	surrounding and any other		
	protected area and accordingly		
	detailed mitigative measures		
	required, should be worked out		
	with cost implications and		
	submitted.		

TOR Reply of Pro	posed Rough Ston	e Ouarry Over ar	Extent of 3.76.67 Ha
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17	Location of National Parks,	There is two wildlife sanctuaries	
	Sanctuaries, Biosphere Reserves,	named Cauvery North Wildlife	
	Wildlife Corridors, Tiger/Elephant	Sanctuary and Cauvery South	Executive
	Reserves/ (existing as well as	Wildlife Sanctuary located at a	Summary
	proposed), if any, within 10km of	distance of 25.35 kms, S and 47.26	,
	the mine lease should be clearly	kms, S from the project site.	Page No: 14
	indicated, supported by a location		1 agc 110. 14
	map duly authenticated by Chief		
	Wildlife Warden. Necessary		
	clearance, as may be applicable to		
	such projects due to proximity of		
	the ecologically sensitive areas as		
	mentioned above, should be		
	obtained from the State Wildlife		
	Department/Chief Wildlife		
	Warden under the Wildlife		
	(Protection) Act, 1972 and copy		
	furnished.		
18	A detailed biological study of the	Details biological study (flora &	
	study area [core zone and buffer	fauna) within 10 km radius of the	
	zone (10 km radius of the	project site have been incorporated in	
	periphery of the mine lease)] shall	Chapter-3 of EIA/ EMP Report.	
	be carried out. Details of flora and		Chapter – 3
	fauna, duly authenticated,	No flora & fauna listed in scheduled I	Pg No. 99
	separately for core and buffer zone	have been found in study area so	
	should be furnished based on such	there is no need of conservation plan.	
	primary field survey, clearly	However, all care will be taken for	
	indicating the Schedule of the	protection of flora & fauna, if any in	
	fauna present. In case of any	the lease hold area.	
	scheduled-I fauna found in the		
	study area, the necessary plan for		
	their conservation should be		
L			<u> </u>

	TOR Reply of Proposed Rough	Stone Quarry Over an Extent of 3.76.67 Ha
	prepared in consultation with State	
	Forest and Wildlife Department	
	and details furnished. Necessary	
	allocation of funds for	
	implementing the same should be	
	made as part of the project cost.	
19	Proximity to Areas declared	The proposed mining lease area is not
	as 'Critically Polluted' or the	falling under critically polluted area.
	Project areas likely to come under	
	the 'Aravali Range', (attracting	
	court restrictions for mining	
	operations), should also be	
	indicated and where so required,	
	clearance certifications from the	
	prescribed Authorities, such as the	
	SPCB or State Mining Dept.	
	Should be secured and furnished to	
	the effect that the proposed mining	
	activities could be considered.	
20	Similarly, for coastal projects, A	There is no Coastal Zone within 15km
	CRZ map duly authenticated by	radius of the project site.
	one of the authorized agencies	
	Similarly, for coastal projects, A	
	CRZ map duly authenticated by	
	one of the authorized agencies	
	demarcating LTL, HTL, CRZ area,	
	location of the mine lease w.r.t	
	CRZ, coastal features such as	
	mangroves, if any, should be	
	furnished. (Note: The Mining	
	Projects falling under CRZ would	

TOR Reply of Proposed Rough Sto	ne Quarry Over an Extent of 3.76.67 Ha
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	also need to obtain approval of the	
	concerned Coastal Zone	
	Management Authority)	
21	R&R Plan/compensation details	There is no Rehabilitation and
	for the Project Affected People	resettlement is involved. Land
	(PAP) should be furnished. While	classified as Patta land.
	preparing the R&R Plan, the	
	relevant State/National	
	Rehabilitation & Resettlement	
	Policy should be kept in view. In	
	respect of SCs /STs and other	
	weaker sections of the society in	
	the study area, a need based	
	sample survey, family wise, should	
	be undertaken to assess their	
	requirements, and action	
	programmes prepared and	
	submitted accordingly, integrating	
	the sectoral programmes of line	
	departments of the State	
	Government. It may be clearly	
	brought out whether the village	
	located in the mine lease area will	
	be shifted or not. The issues	
	relating to shifting of Village	
	including their R&R and socio-	
	economic aspects should be	
	discussed in the report.	

TOR Reply of Proposed Rough	Stone Quarry Over an Extent of 3.76	6.67 Ha
One season (non-monsoon) and (Summer Season), (Post monsoon) primary baseline data on ambient air quality CPCB Notification of 2009 water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the predominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500m of the mine lease in the predominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.	Baseline data collected during Pre monsoon season (April 2025 to June 2025) has been incorporated in EIA/EMP report. The key plan of monitoring station has been discussed in Chapter-3 Locations of the monitoring stations have been selected keeping in view the pre- dominant downwind direction and location of the sensitive receptors and also that they represent whole of the study area.	Chapter 3
Air quality modelling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of	Air quality modelling & Impact of Air quality will be furnished in Final EIA report	Chapter-4
take into account the impact of	Transportation of mineral during	Page No.111

TOR Reply of Proposed Rough Stone Quarry Over an Extent of 3.76.67 Ha

	movement of vehicles for	operation of mines will be done by	
	transportation of mineral. The	road & Venkatesapuram village road	
	details of the model used and	through dumpers and the impact of	
	input parameters used for	movement of vehicles are	
	modelling should be provided.	incorporated in EIA/EMP report.	
	The air quality contours may be	Air quality modelling & Impact of	
	shown on a location map clearly	Air quality will be furnished in Final	
	indicating the location of the site,	EIA report	
	location of sensitive receptors, if		
	any, and the habitation. The wind		
	roses showing predominant wind		
	direction may also be indicated		
	on the map.		
24	The water requirement for the	Total water requirement: 2.0 KLD	Chapter-2
	Project, its availability and source	Dust Suppression: 0.5 KLD	
	should be furnished. A detailed	Domestic Purpose: 1 KLD	
	water balance should also be	Plantation :0.5 KLD	
	provided. Fresh water requirement	Domestic Water will be sourced	Page no.
	for the Project should be indicated.	from nearby village Midithepalli	59
		which is about 1.70 Km - NE of the	
		area.	
25	Necessary clearance from	Not Applicable	
	the Competent Authority for	Water will be taken from nearby	
	drawl of requisite quantity of	villages	
	water for the Project should be		
	provided.		
26	Description of water conservation	At the last stage of mining operation,	
	measures proposed to be adopted in	almost complete area will be worked	
	the Project should be given. Details	to restore the land to its optimum	
	of rainwater harvesting proposed in	reclamation for future use as water	
	1	I	

	the Project, if any, should be	reservoir.	
	provided.		
27	Impact of the project on the	Impact of the project on the water	Chapter-4
	water quality, both surface and	quality & its mitigation measures has	Page No.116
	groundwater should be assessed	been incorporated in Chapter-4 of	
	and necessary safeguard	EIA/EMP report.	
	measures, if any required,		
	should be provided.		
28	Based on actual monitored data, it	Maximum working depth: 39 m (2m	Chapter-2
	may clearly be shown whether	Gravel + 37 m Rough stone)	
	working will intersect		
	groundwater. Necessary data and	The ground water table is reported as	Page no. 34
	documentation in this regard may	66 m below surface ground level in	Table No. 2.2
	be provided. In case the working	nearby wells of this area. Now, the	
	will intersect groundwater table, a	present quarry shall be proposed above	
	detailed Hydro Geological Study	the water table and hence, quarrying	
	should be undertaken and Report	may not affect the ground water So	
	furnished. Necessary permission	mine working will not be	
	from Central Ground Water	intersecting the ground water table.	
	Authority for working below		
	ground water and for pumping of		
	ground water should also be		
	obtained and copy furnished.		
29	Details of any stream, seasonal or	There is no any stream crossing in	Executive
	otherwise, passing through the lease	the proposed quarry	Summary
	area and modification / diversion		
	proposed, if any, and the impact		
	of the same on the		
	hydrology should be brought out.		
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	TOD Donly of Dropoged Dough	Stone Quarry Over an Extent of 3.76	6 6 7 U a
30	Information on site	The altitude of the area is 869m above	Chapter-2
30	elevation, working depth,	MSL. Depth: 47 m (2.0m Gravel &	Table no. 2.2
	groundwater table etc. Should be	45.0m Rough stone)	
	provided both in AMSL and	13.011 Rough stolle)	Page no. 39
	BGL. A schematic diagram may		
	also be provided for the same.		
	-		
31	A time bound	The state of the s	Chapter-2
	Progressive Greenbelt Development		
	Plan shall be prepared in a tabular		
	form (indicating the linear and		
	quantitative coverage, plant species		
	and time frame) and submitted,		
	keeping in mind, the same will have		
	to be executed up front on		
	commencement of the project.		
	Phase-wise plan of plantation and		
	compensatory afforestation should		
	be charted clearly indicating the		
	area to be covered under plantation		
	and the species to be planted. The		
	plant species selected for green belt		
	should have greater ecological		
	value and should be of good utility		
	value to the local population with		
	emphasis on local and native		
	species and the species which are		
	tolerant pollution		
32	Impact on local transport	Impact on local transport	Chapter-3
	infrastructure due to the Project	infrastructure due to the project has	
	should be indicated. Projected	been assessed. There shall not be	
	increase in truck traffic as a result	much impact on local transport.	

	of the Project in the present road	Traffic density from the proposed	Page No.119
	network (including those outside	mining activity has been incorporated	
	the Project area) should be worked	in EIA/EMP report.	
	out, indicating whether it is		
	capable of handling the		
	incremental load. Arrangement for		
	improving the infrastructure, if		
	contemplated (including action to		
	be taken by other agencies such as		
	State Government) should be		
	covered. Project proponent shall		
	conduct impact of Transportation		
	study as per Indian Road Congress		
	Guidelines		
33	Details of the onsite shelter and	Adequate infrastructure & other	Chapter-2
	facilities to be provided to the mine	facilities shall be provided to the mine	
	workers should be included in the	workers.	
	EIA report.	Details are given in chapter-2 of	
		EIA/EMP	
34	Conceptual post mining land use	Conceptual post mining land use and	Mining plates
	and Reclamation and Restoration	Reclamation and restoration sectional	Annexure VI
	of mined out areas (with plans and	plates are given in Mining Plan	
	with adequate number of sections)	followed by Scheme of mining.	
	should be given in the EIA report.		
35	Occupational Health impacts of the	Suitable measure will be adopted to	Chapter-10
	Project should be anticipated and	minimize occupational health impacts	Pg No. 170
	the proposed preventive measures	of the project. The project shall have	
	spelt out in detail. Details of pre-	positive impact on local environment.	
	placement medical examination	Details are given in chapter-10 of	
	and periodical medical examination	EIA/EMP.	
	schedules should be incorporated in		

	the EMP. The project in the mining		
	area may be detailed		
36	Public health implications of the	Suitable measure will be adopted to	Chapter-10
	Project and related activities for the	minimize occupational health impacts	
	population in the impact zone	of the project.	Pg No. 170
	should be systematically evaluated		
	and the proposed remedial		
	measures should be detailed along		
	with budgetary allocations.		
37	Measures of socio-economic	Suitable measures has been discussed	Chapter-4
	significance and influence to the	in Chapter 4	
	local community proposed to be		Pg No. 135
	provided by the Project Proponent		
	should be indicated. As far as		
	possible, quantitative dimensions		
	may be given with time frames for		
	implementation.		
38	Detailed environmental	Environment Management Plan has	Chapter-9
		been described in detail in Chapter-9	Pg No. 160
	environmental impacts which,	of the EIA/EMP Report.	
	should inter-alia include the		
	impacts of change of land use, loss		
	of agricultural and grazing land, if		
	any, occupational health impacts		
	besides other impacts specific to the		
	proposed Project.		
39	Public hearing points raised and	Public Hearing proceedings will be	
	commitment of the project	furnished in Final EIA report	
	proponent on the same along with		
	time bound action plan to		
	implement the same should be		

TOR Reply of Prop	oosed Rough Stone	e Quarry Over a	n Extent of 3.76.67 Ha

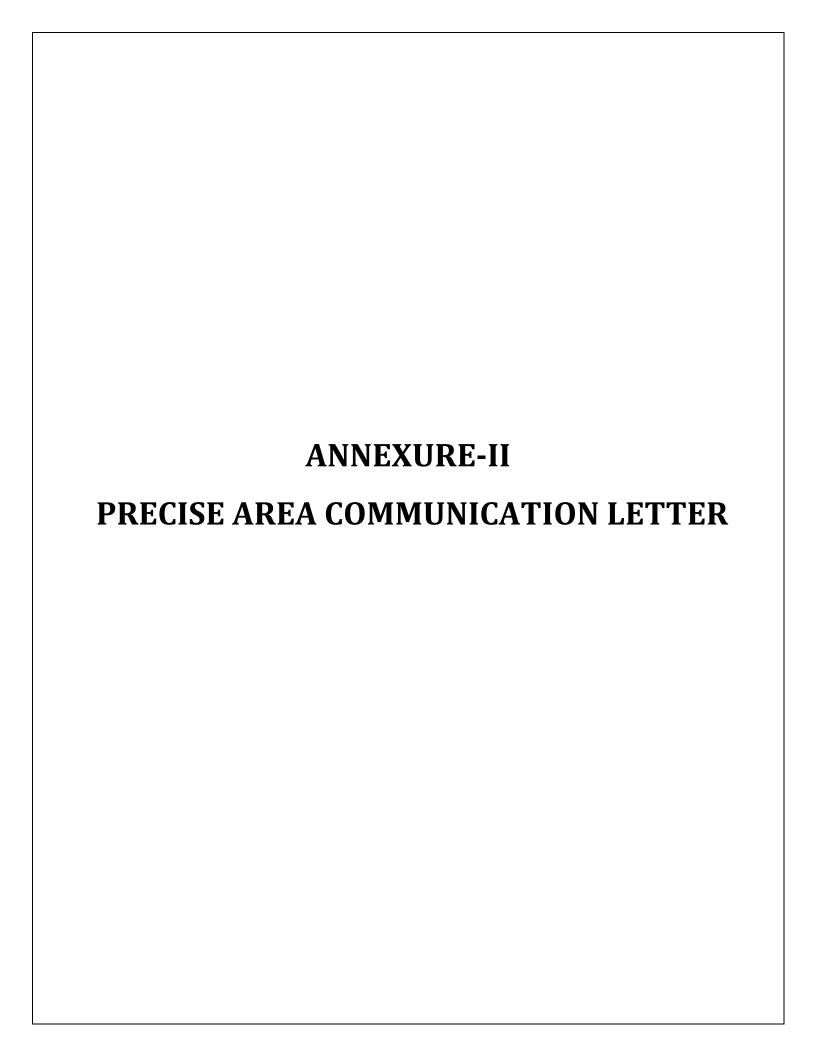
40	provided and incorporated in the final EIA/EMP Report of the Project. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the project should be given.	Not applicable No. litigation is pending against the project in any court.	
41	The cost of the project (capital cost and recurring cost) as well as the cost towards implementation of EMP should clearly be spelt out.	S. Description Cost 1 Fixed Asset Cost 40,50,000/- 2 Operational Cost 40,00,000 /- Total 80,50,000/- 3 EMP Cost (10 Years) 1536,82,735/-	Chapter-8 Pg No. 154
42	A Disaster Management Plan shall be prepared and included in the EIA/EMP Report.	Disaster Management and Risk Assessment has been incorporated in Chapter-7	Chapter-7 Pg No. 149
43	Benefits of the project if the project is implemented should be spelt out. The benefits of the project shall clearly indicate environmental, social economic, employment potential etc.	incorporated	Chapter-8 Pg No. 153- 154
44	Besides the above, the below mentioned general points are also to be followed:		

(a)	Executive Summary of the	Complied	Executive
	EIA/EMP report		Summary
			of EIA
			Report is
			given from
			page
			No.10-25
(b)	All documents to be properly	Complied	
	referenced with index and		
	continuous page numbering.		
(c)	Where data are presented in the	Complied	
	report especially in tables, the		
	period in which the data were		
	collected and the sources should be		
	indicated.		
(d)	Project Proponent shall enclose all	Complied	
	the analysis/testing reports of		
	water, air, soil, noise etc. using the		
	MoEF & CC NABL accredited		
	laboratories. All the original		
	analysis/testing reports should be		
	available during appraisal of the		
	project.		
(e)	Where the documents provided are	Complied	
	in a language other than English,		
	an English translation should be		
	provided.		
(f)	The Questionnaire for	The complete questionnaire has been	
	environmental appraisal of mining	prepared	
	projects as devised earlier by the		
	Ministry shall also be filled and		
	1		

TOR Reply of Proposed Rough Stone Quarry Over an Extent of 3.76.67 Ha

	submitted.		
(g)	While preparing the EIA report,	The EIA report has been	
	the instructions for the	prepared and complying with the	
	proponents and instructions for the	circular issued by MoEF vide O.M.	
	consultants issued by MoEF vide	No. J-11013/41/2006-IA. II(I) dated	
	O.M. No. J-	4th August 2009.	
	11013/41/2006-IA. II(I) dated4th		
	August 2009, which are available		
	on the website of this Ministry,		
	should also be followed.		
(h)	Changes, if any made in the basic	There are no changes in prepared EIA	
	scope and project parameters (as	as per submitted Form-1 & PFR	
	submitted in Form-I and the PFR		
	for securing the TOR) should be		
	brought to the attention of MoEF		
	with reasons for such changes and		
	permission should be sought, as		
	the TOR may also have to be		
	altered. Post Public Hearing		
	changes in structure and content of		
	the draft EIA/EMP (other than		
	modifications arising out of the		
	P.H. process) will entail		
	conducting the PH again with the		
	revised documentation		
(i)	As per the circular no. J-		
	11011/618/2010-IA. II(I) dated	, i	
	30.5.2012, report on the	Tamilnadu	
	status of compliance of the		
	conditions stipulated in the		
	environment clearance for the		

	TOR Reply of Proposed Rough Stone Quarry Over an Extent of 3.76.67 Ha					
	existing operations of the project by					
	the Regional Office of Ministry of					
	Environment & Forests, if					
	applicable.					
(j)	The EIA report should also include					
	(i) surface plan of the area					
	indicating contours of main	All Sectional Plates of Quarry is				
	topographic features, drainage and	enclosed in Mining Plan.				
	mining area, (ii) geological maps					
	and sections (iii) sections of mine pit					
	and external dumps, if any clearly					
	showing the features of the					
	adjoining area.					



ந.க.எண். 768/2024/கனிமம் நாள்: 25.11.2024.

புவியியல் மற்றுர் கரங்கத்துறை மாவட்ட ஆட்சியல் அலுவலகம் EC 2024 கிருஷ்ணகிரி.

குறிப்பாணை

த்துமுல் மற்றும் கார் கனிமங்களும் சுரங்கங்களும் - சிறு கனிமம் - கிராவல் மற்றும் பொருள் : சாதாரண கற்கள் - கிருஷ்ணகிரி மாவட்டம் - சூளகிரி வட்டம் -மிடிதேப்பள்ளி கிராம புல எண்கள். 70/4A மற்றும் 70/5B ல் மொத்த விஸ்தீரணம் 3.76.67 ஹெக்டேர் பரப்பில் கிராவல் மற்றும் சாதாரண கற்கள் வெட்டியெடுக்க அனுமதி கோரி M/s. R.K.M Sand and Aggregates என்ற நிறுவனத்தினரால் விண்ணப்பம் அளிக்கப்பட்டது - வருவாய்துறை, வனத்துறை மற்றும் புவியியல் &சுரங்கத்துறை புலத்தணிக்கை அறிக்கை சமர்பிக்கப்பட்டது -தகுதியான நிலப்பரப்பாக கருதி ஏற்பளிக்கப்பட்ட சுரங்க திட்டம் மற்றும் சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணைய இசைவிணை பெற்று சமா்பிக்கக் கோருதல் - தொடா்பாக.

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- 1. M/s. R.K.M Sand and Aggregates என்ற நிறுவனத்தின் விண்ணப்ப நாள்: 08.07.2024.
- மாவட்ட ஆட்சியர், கிருஷ்ணகிரி அவர்களின கடிதம் ந.க. 2. 768/2024/கனிமம், நாள்: 11.07.2024.
- அவர்களின் கடிதம் ந.க.எண். வட்டாட்சியர், சூளகிரி 3. 1416/2024/அ2 நாள்: 02.09.2024.
- சார் ஆட்சியர், ஒசூர் அவர்களின் கடிதம் ந.க.எண். 4. 3160/2024/பி2 நாள்: 10.10.2024.
- உதவி இயக்குநர் (கனிமம்) மற்றும் உதவி புவியியலாளர் 5. புலத்தணிக்கை அவர்களது கிருஷ்ணகிரி (கனிமம்) அறிக்கை நாள்: 24.10.2024.
- மற்றும் உரிய ஆவணங்கள். 6.

பார்வையில் காணும் கடிதங்களின்பால் கனிவான கவனம் வேண்டப்படுகிறது.

2. கிருஷ்ணகிரி மாவட்டம், சூளகிரி வட்டம், மிடிதேப்பள்ளி கிராம புல எண்கள். 70/4A மற்றும் 70/5B ல் மொத்த விஸ்தீரணம் 3.76.67 ஹெக்டேர் பரப்பில் கிராவல் மற்றும் சாதாரண கற்கள் வெட்டியெடுக்க அனுமதி வழங்க கோரி M/s. R.K.M Sand and Aggregates என்ற நிறுவனத்தினர் 08.07.2024 நாளிட்ட விண்ணப்பத்தினை உரிய ஆவணங்களுடன் சமர்ப்பித்துள்ளனர்.

3. மேற்கண்ட விண்ணப்பம் தொடர்பாக வட்டாட்சியர், சூளகிரி, சார் ஆட்சியர், ஒருர், உதவி இயக்குநர் (கனிமம்) மற்றும் உதவி புவியியலாளர் (கனிமம்) கிருஷ்ணகிரி ஆகியோர் புலத்தணிக்கை மேற்கொண்டு சூளகிரி வட்டம், மிடிதேப்பள்ளி கிராம புல எண்கள். 70/4A மற்றும் 70/5B ல் மொத்த விஸ்தீரணம் 3.76.67 ஹெக்டேர் பரப்பில் விண்ணப்பதாரர் M/s. R.K.M Sand and Aggregates என்ற நிறுவனத்தினருக்கு நிபந்தனைகளுக்குட்பட்டு கிராவல் மற்றும் சாதாரண கற்கள் வெட்டியெடுக்க அனுமதி வழங்கலாம் என பரிந்துரை செய்துள்ளனர்.

4 எனவே, வட்டாட்சியர், சூளகிரி, சார் ஆட்சியர், ஒசூர், உதவி இயக்குநர் (கனிமம்) மற்றும் உதவி புவியியலாளர் (கனிமம்) கிருஷ்ணகிரி ஆகியோரின் பரிந்துரைகள் மற்றும் நிபந்தனைகளின் அடிப்படையில், சூளகிரி வட்டம், மிடிதேப்பள்ளி கிராம புல எண்கள். 70/4A மற்றும் 70/5B ல் மொத்த விஸ்தீரணம் 3.76.67 ஹெக்டேர் பரப்பில் விண்ணப்பதாரர் M/s. R.K.M Sand and Aggregates என்ற நிறுவனத்தினருக்கு 1959ம் வருட தமிழ்நாடு சிறுகனிம விதிகள், விதி எண்.19(1)-ன்படி மேற்கண்ட நிபந்தனைகளுக்குட்பட்டு 10 (பத்து) வருட காலத்திற்கு சாதாரண கற்கள் குவளி உரிமம் வழங்குவதற்குரிய தகுதியான நிலப்பரப்பாக கருதப்படுகிறது.

5. மேலும், தமிழ்நாடு சிறு கனிம சலுகை விதிகள்-1959 விதி எண். 41-ன்படி குவாரிப்பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்க திட்டத்தினை இக்கடிதம் கிடைக்கப்பெற்ற 90 தினங்களுக்குள் சமர்ப்பிக்குமாறு மனுதாரரைக் கேட்டுக்கொள்ளப்படுகிறது. மேலும் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தின் தொடர்ச்சியாக 1959ம் வருடத்திய தமிழ்நாடு சிறுகளிம சலுகை விதிகள், விதி எண்.42-ன்படி சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் இசைவினைப் பெற்று சமர்பிக்கும் பட்சத்தில் மட்டுமே குவாரி உரிமம் கீழ்கண்ட நிபந்தனைகளுக்குட்பட்டு வழங்கப்படும் என இதன் மூலம் தெரிவிக்கப்படுகிறது.

நிபந்தளைகள்:

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- a. 1959ம் வருடத்திய தமிழ்நாடு சிறு கனிம சலுகை விதிகள், அட்டவணை-!!ல் கண்டுள்ளபடி குவாரி செய்யப்படும் கனிமங்களுக்குரிய சீனியரேஜ் தொகையினை அவ்வப்போது செலுத்தி கனிமம் கொண்டு செல்லப்பட வேண்டும்.
- அருகிலுள்ள பட்டா நிலங்களுக்கு 7.5 மீ பாதுகாப்பு இடைவெளியும்
 விட்டு குவாரிப் பணி மேற்கொள்ள வேண்டும்.

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எந்த c. அனுமதி கோரும் புலத்தைச் சுற்றியுள்ள விளைநிலங்குறக்கு கிருஷ்ணகிரி வித பாதிப்பும் ஏற்படாமல் குவாரிப் பணி மேற்கொள்ள வேண்டும் மற்றும் கார

சுரங்கத்திட்டத்தினை d. விதிகளின்படி ஏற்பளிக்கப்பட்ட காலத்திற்குள் சமர்பிக்க வேண்டும்.

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- e. குவாரி உரிமம் வழங்க உள்ள பகுதிக்கு சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் முன் அனுமதி பெற்று சமர்பிக்கும் பட்சத்தில் மட்டுமே குவாரி உரிமம் வழங்கப்படும்.
- f. குவாரி குத்தகை கோரி விண்ணப்பித்துள்ள புலத்திற்கு செல்ல அணுகு பாதை அமைந்துள்ள பட்டா நிலங்களின் உரிமையாளர்களிடம் முறையாக அனுமதியினை விண்ணப்பதாரர் தனது சொந்த செலவில் பெற்றுக்கொள்ள வேண்டும்.
- g. வரைபடத்தில் துறை ரீதியாக பரிந்துரைக்கப்பட்ட இடத்தில் வெட்டி எடுக்கப்படும் சாதாரண மண்ணை ஒவ்வொரு லோடு கனிமத்திற்கும் உண்டான தொகையை செலுத்தி உரிய நடைச்சீட்டு பெற்று கனிமம் சென்றடையும் இடம் பூர்த்தி செய்த பிறகு மட்டுமே கனிமத்தை வெளியே கொண்டு செல்ல வேண்டும்.
- h. அனுமதிக்கப்படும் கனமீட்டர் அல்லது அனுமதிக்கப்பட்ட உரிமம் முடிவடைகிறதோ அப்போது முன்னதாக இதில் எது காலாவதியானதாக கருதப்படும்.
- வித்தியாச உரிய கனிமத்திற்கு செல்லப்படும் i. எடுத்துச் காலங்களில் கணக்கிடு பின்வரும் கனிமத்தொகை ஏதும் செய்யப்பட்டால், அவற்றை தவறாமல் செலுத்தப்பட வேண்டும்.
- j. பொதுமக்களுக்கோ போக்குவரத்திற்கோ எவ்வித இடையூறுமி<mark>ன</mark>்றி மண்ணை வாகனங்களின் மூலம் தார்பாய் இட்டு கொண்டு செல்ல வேண்டும்.
- k. இந்த அனுமதியை பயன்படுத்தி அருகிலுள்ள பட்டா / அரசு புலங்களிலிருந்து சாதாரண மண்ணை வெட்டி எடுக்கக் கூடாது.

 அனுமதிக்கப்படும் புலத்தின் சாதாரண மண் தவிர வேறு கனிமங்கள் ஏதேனும் இருந்தால் அதை வெட்டி எடுத்து செல்லக் கூடாது.

m. விதிமீறல்கள் ஏதேனும் கண்டறியப்படின் குத்தகை உரிமம் ரத்து

செய்யப்படும்.

துணை இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை, கிருஷ்ணகிரி.

பெறுநர்:

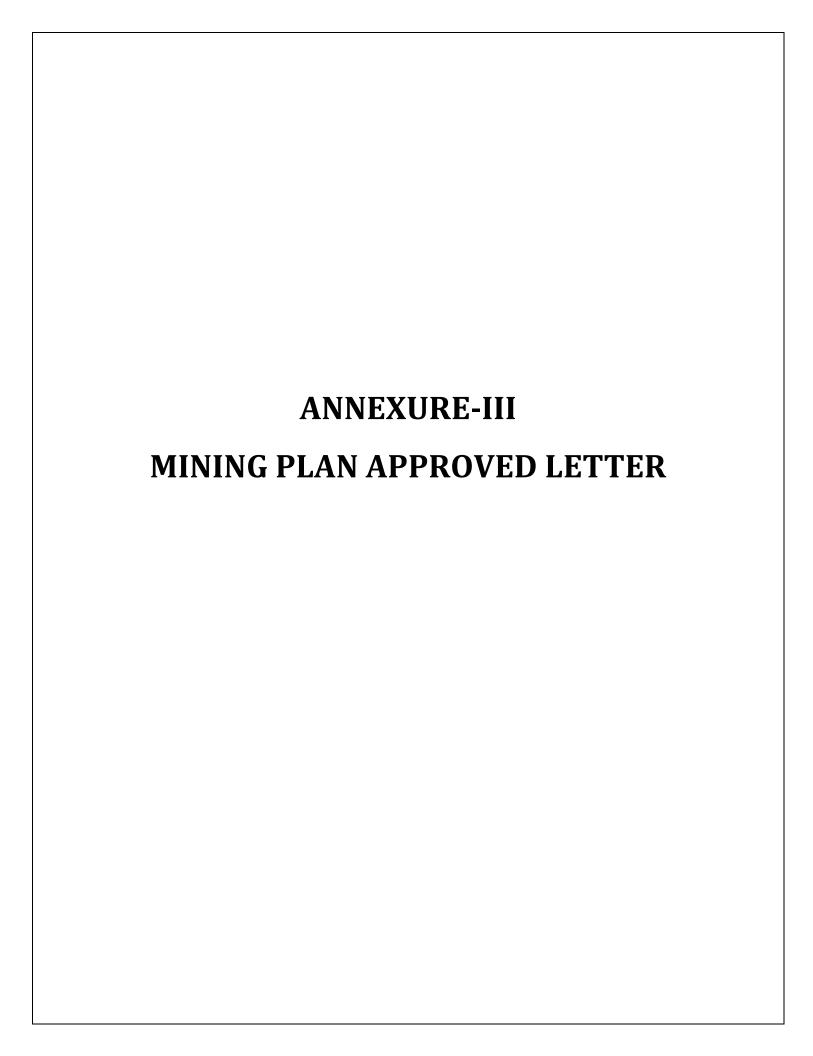
M/s. R.K.M Sand and Aggregates, Prop. Thiru. D.Ravikumar, Villa No. 126, Adarsh Palm, Retreat Villas, Devarabisanahalli, Bengalore, Karnataka - 560 103. Shr 25.11.24

நகல்:

- 1. ஆணையர், புவியியல் மற்றும் சுரங்கத்துறை, சென்னை.
- 2. மாவட்ட ஆட்சித் தலைவர், கிருஷ்ணகிரி தகவலுக்காக.

S.DHANASEKAR, M.Sc., (Geo)

Qualified Person



From

Dr.P. Jayapal, M.Sc., Ph.D., Deputy Director, Dept. of Geology and Mining, Collectorate, Krishnagiri.

To

M/s. R.K.M Sand and Aggregates, Prop. Thiru. D.Ravikumar, Villa No. 126, Adarshpalm, Retreat Villas, Devarabisanahalli, Bangalore, Karnataka - 560 103.

Rc.No. 768 /2024/Mines Dated: 18.12.2024

Sir,

Sub: Mines and Minerals – Minor Mineral - Rough Stone - Krishnagiri District – Shoolagiri Taluk – Midithepalli Village - Patta land - S.F.Nos. 70/4A (0.43.32) & 70/5B (3.33.35)- Over an extent of 3.76.67 ha - Application preferred by M/s. R.K.M Sand and Aggregates - Draft Mining Plan submitted - Mining Plan Approved - reg.

- Ref: 1. Application preferred by M/s. R.K.M Sand and Aggregates dated 08.07.2024.
 - 2. Precise area communication issued by the Deputy Director of Geology and Mining vide Letter No. 768/2024/Mines dated 25.11.2024.
 - 3. Representation of M/s. R.K.M Sand and Aggregates, dated 09.12.2024.

Kind attention is invited to the references cited above.

2. M/s. R.K.M Sand and Aggregates had preferred an application for quarrying rough stone over an extent of 3.76.67 ha of patta land in S.F.Nos. 70/4A (0.43.32) & 70/5B (3.33.35) in Midithepalli Village, Shoolagir. Taluk, Krishangiri District for a period of 10 years under the provisions of Rule 19 (1) of Tamil Nadu

Minor Mineral Concession Rules, 1959. In this regard, the precise area communication was issued to the lessee vide the reference 2nd cited with a direction to submit approved mining plan and Environment Clearance.

- 3. Accordingly, M/s. R.K.M Sand and Aggregates has submitted 03 copies of draft Mining Plan vide letter dated 09.12.2024. The same has been examined and it is found correct.
- 4. As per the mining plan the year wise production for the proposed first and second five years are as follows.

			,
	Year	Recoverable Reserves (m³) @ 100%	Gravel in (m³)
	1st Year	146965	61830
First Five Years	2 nd year	90860	20700
icais	3 rd year	154575	-
	4th year	140000	-
	5 th year	193775	-
	Total	726175	82530

	Year	Recoverable Reserves (m³) @ 100%	Top Soil in (m ³)
	6 th year	136350	-
Second Five	7 th year	117325	
Years	8 th year	99300	-
	9 th year	82275	-
	10 th year	63050	-
	Total	498300	-

- 5. Hence, the power delegated under Rule 4 of TNMMCR, 1959 and as per the guidelines/instructions issued by the Commissioner of Geology and Mining, vide letter Rc.No.3868/LC/2012 dated 19.11.2012, the said mining plan submitted by the applicant is hereby approved subject to the following conditions.
- i) The mining plan is approved without prejudice to any other law applicable to the quarry lease from time to time whether such laws are made by the Central Government, State Government or any other authority.
- ii) This approval of the mining plan does not in any way imply the approval of the Government in terms of any other provisions of Mines and Minerals Development and Regulation Act, 1957 or any other connected laws including Forest (Conservation) Act, 1957 Forest (Conservation) Act, 1980 Forest Conservation Rules, 1981, Environment protection Act, 1980 Indian Explosive Act, 1884 (Central Act IV of 1884) and the rules made there under and the Tamil Nadu Minor Mineral Concession rules, 1959.
- iii) The mining plan is approved without prejudice to any other orders or directions from any court of competent jurisdiction.
- iv) All the conditions mentioned in the precise area letter shall be followed during quarry operation as per rules.
- v) The applicant shall get prior Environmental clearance from the appropriate authority and shall submit it to the District Collector, Krishnagiri.

- vi) Every Mining Plan duly approved under the rule 41(9) of TNMMCR, 1959 shall be valid for a period of five years. Further, the applicant shall review the mining plan and submit the scheme of mining for the next five years of the lease for approval wherever quarrying lease is required beyond 5 years.
- vii) If the approved mining plan required modifications within the lease period, the applicant shall carry out such modifications and resubmit the modified mining plan for approval.

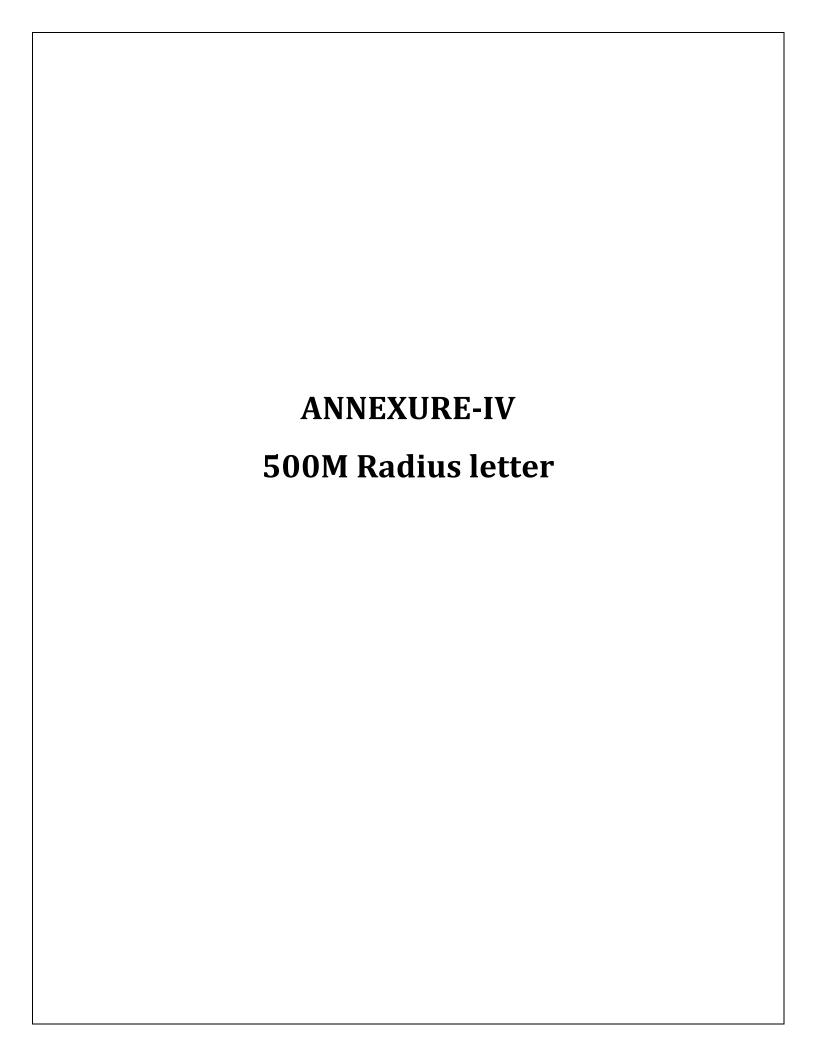
Deputy Director,
Dept. of Geology and Mining,
Krishnagiri.

Copy to

1. The Commisssioner,Dept of Geology and Mining,

Guindy, Chennai -32.

The Chairman, Tamil Nadu
 State Environment Impact
 Assessment Authority,
 3rd Floor, Panakal Maligai,
 No. 1 Jeenes Road, Saidapet,
 Chennai -15.



From

Dr.P. Jayapal, M.Sc., Ph.D., Deputy Director, Dept. of Geology and Mining, Collectorate, Krishnagiri.

To

M/s. R.K.M Sand and Aggregates, Prop. Thiru. D.Ravikumar, Villa No. 126, Adarshpalm, Retreat Villas, Devarabisanahalli, Bangalore, Karnataka - 560 103.

Rc.No. 768 /2024/Mines

Dated: 28.01.2025

Sir,

Sub: Mines and Minerals – Minor Mineral - Rough Stone - Krishnagiri District – Shoolagiri Taluk – Midithepalli Village - Patta land - S.F.Nos. 70/4A (0.43.32) & 70/5B (3.33.35)- Over an extent of 3.76.67 ha - Application preferred by M/s. R.K.M Sand and Aggregates - Mining Plan Approved - Details of quarries situated within 500m radial distance requested – Quarry details within 500m radial distance furnished-Reg.

- **Ref:** 1. Application preferred by M/s. R.K.M Sand and Aggregates dated 08.07.2024.
 - 2. The Deputy Director of Geology and Mining vide Letter No. 768/2024/Mines dated 25.11.2024 (Precise area communication).
 - 3. The Deputy Director of Geology & Mining, Krishnagiri in Roc.No.768/2024/Mines, dated 18.12.2024 (Mining plan approval).
 - 4. Representation of M/s. R.K.M Sand and Aggregates, dated 06.01.2025

Kind attention is invited to the references cited above.

- 2. M/s. R.K.M Sand and Aggregates had preferred an application for quarrying rough stone over an extent of 3.76.67 ha of patta land in S.F.Nos. 70/4A (0.43.32) & 70/5B (3.33.35) in Midithepalli Village, Shoolagiri Taluk, Krishangiri District for a period of 10 years under the provisions of Rule 19 (1) of Tamil Nadu Minor Mineral Concession Rules, 1959.
- 3. Subsequently, the precise area was communicated to the applicant vide the reference 2nd cited with a direction to submit approved mining plan and Environment Clearance for taking further action.
- 4. Accordingly, the applicant submitted Mining Plan and the same was approved by the Deputy Director of Geology & Mining vide the reference 3rd cited.
- 5. At this juncture, the applicant vide the reference 4th cited has requested the details of quarries situated within 500m radial distance from the lease applied area. As requested by the applicant, the details of quarries situated within 500m radial distance from the lease applied area is furnished as follows:

I. Details of Existing Quarries

S. No.	Name of the Lessee	Village/ Taluk	S.F.No.	Extent in ha	Proceedings Rc.No. & date	Lease period
1	Thiru.B.Srikar, S/o.Bharathy D.No.25, Shanti Nagar (West),2ndCross, Hosur-635 109.	Midithepal li Village & Shoolagiri Taluk	79	1.86.50	Rc.No.646/2021/ Mines dated:08.08.2024	08.08.2024 to 07.08.2034
2.	Thiru.D.Sreenivasalu S/o.M.Venkateshwarlu D.No.50, Radha Lakshmi Nilaiyam, Devachandra Main Road, Bangalore-560 036.	Midithepalli Village & Shoolagiri Taluk	80/1, 80/2	3.17.08	Rc.No.1305/2018 /Mines dated:20.12.2022	20.12.2022 to 19.12.2032

3.	Thiru.Venkat Reddy, S/o.(late) Uthama Reddy, Kolar Taluk, Uddapanahalli, Chakkarasanahalli, Karnataka - 563 133.	Midithepalli Village & Shoolagiri Taluk	81/2 & 82/1	2.05.92	Rc.1308/2018/M ines dated:31.10.2022	31.10.2022 to 30.10.2032
2	Total			7.09.50		

II. Details of Expired/Abandoned Quarries

S. No.	Name of the Applicant/Lessee	Village/ Taluk	S.F.No.	Extent (ha)	Proceeding Rc.No. & date	Lease period
1	M/s.Sarva Infra Private Ltd,540, 3 rd floor, CMH Road, Indira Nagar, Bangalore-560 038.	Midithepalli Village & Shoolagiri Taluk	70/1B, 1C	4.05.00	Rc.09/2014/ Mines dated:26.10. 2015	28.10.2015 to 27.10.2020 (Lease Expired)
	Total					1

III. Details of Proposed/applied quarries

S. No.	Name of the Applicant/Lessee	Village/ Taluk	S.F.No.	Extent (ha)	Proceeding Rc.No. & date	Remarks
1	M/s. R.K.M Sand and Aggregates, Proprietor: Thiru.Ravikumar, Villa No.126, Adarsh Palm, Retreat Villas, Devarabisanahalli, Bangalore, Karnataka-560 103.	Midithepalli Village & Shoolagiri Taluk	70/4A - & 70/5B	3.76.67		Instant Proposal
	Total	3.76.67	. ,			

Deputy Director,

Dept. of Geology and Mining,

Krishnagiri.

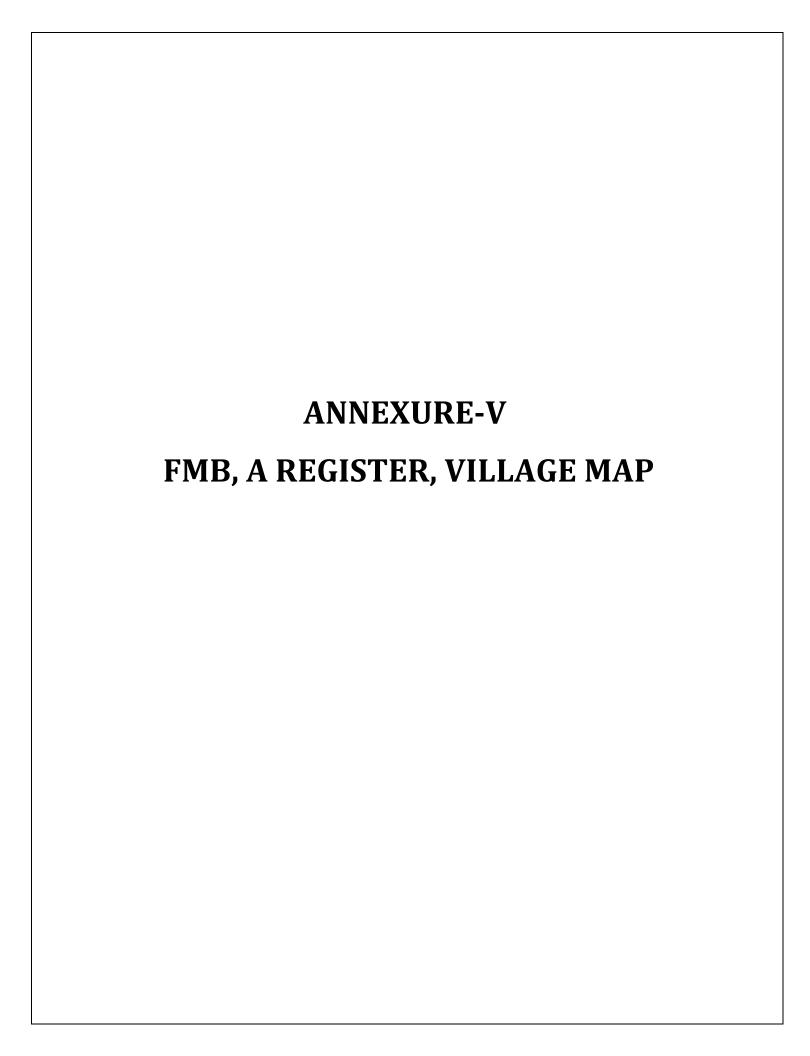
Copy to

The Chairman,

Tamil Nadu State Environment Impact Assessment Authority, 3rd Floor, Panakal Maligai,

No. 1 Jeenes Road, Saidapet,

Chennai -15.



நாக்கு**நர் அலுவு** ச Distric : Krishnagiri Taluk : Soolagiri Village No : 70 Name : Miditheypalli S.No : 70 Area: Hec Ars 1 8:0FC° 2024 கிருஷ்ண கிரி மற்றும் காங் 85 IĘ **⊕**130 到海 I<u>AICI</u> EAZA 82 1320 RIC Village Administrative Officer 70, IMIDITHEPAS LEVIN. Shoolaghi-Ik. Wishnagiri-

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Scale 1mm: 5000 mm

j.DHANASEKAR, M.Sc., (Geo)

Qualified Person

கிராமக் கணக்கு 1434 ஆம் பசலியில் இதே வாக்கி மாலட்டம் ஊண்டு வட்டம் 70- பிறகையாளி मास्त्रीक् धारतारीका நில வரித் திட்டத்தின்படி புலன்களின் விபரம். முதல் போகம். Qusuit. கைப்பற்று தாரகுடைய பெயகும் எண்ணும் அல்லது அனுபோக தாருடைய பெயர். பகிரான /அறுவ யான பரப்பு. 3 Sima. 90 (7) (1) (2) (3) (4) (5) (6) (8) (9) (10) (11) (12) 0 ABU D RAVI KUMAR பாம நீவாக கூறுவரை மிடிதேப்பள்ள 380/30-R.F. III-A-10-23,00,000 Cps,-GBP-Mdu.-7-2018.

डाकंग 2 கிராமத்தில் வருடவாரி புலவாரி கைப்பற்று சாகுபடி அடங்கல் கணக்கு

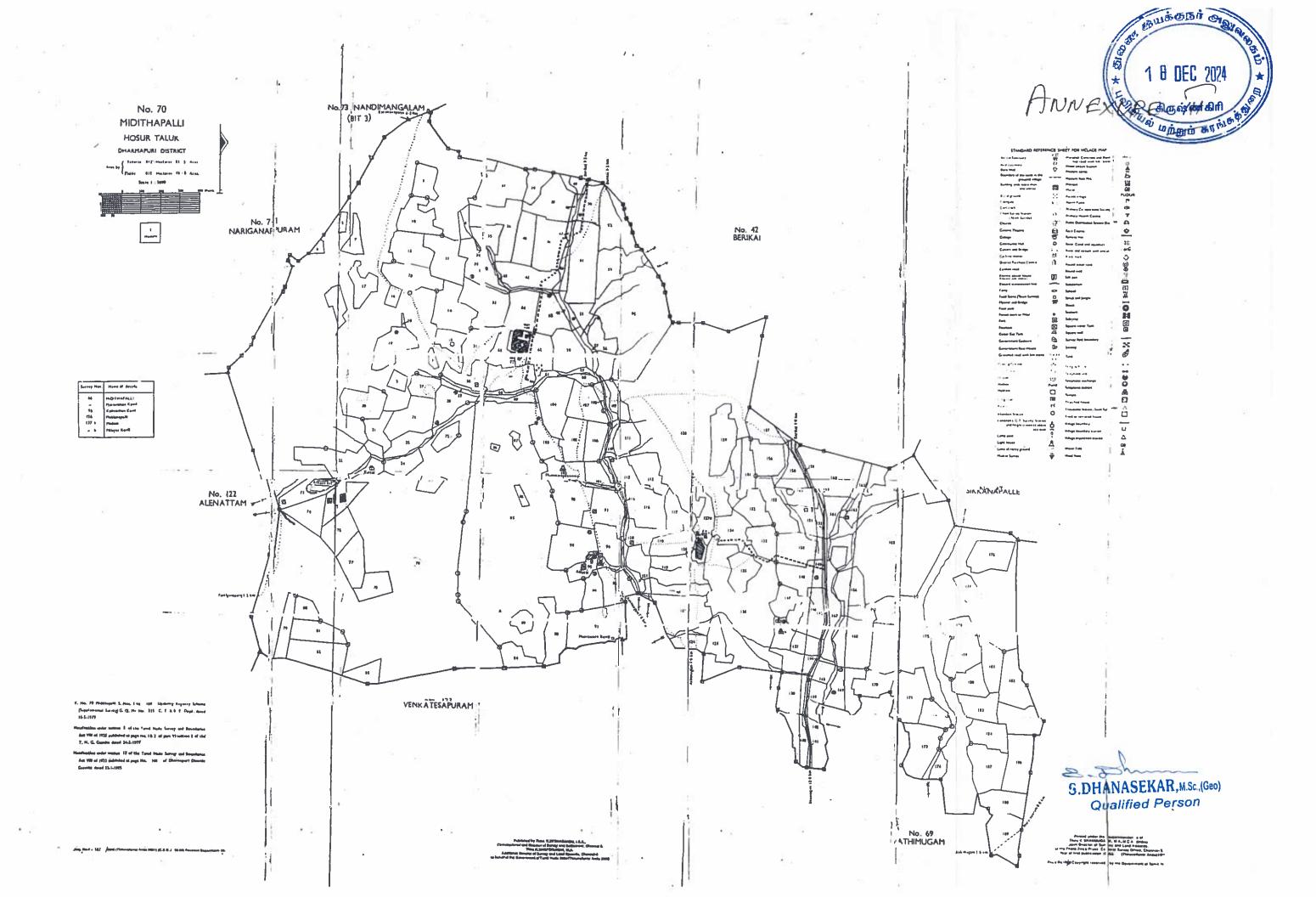
A DEC 2024

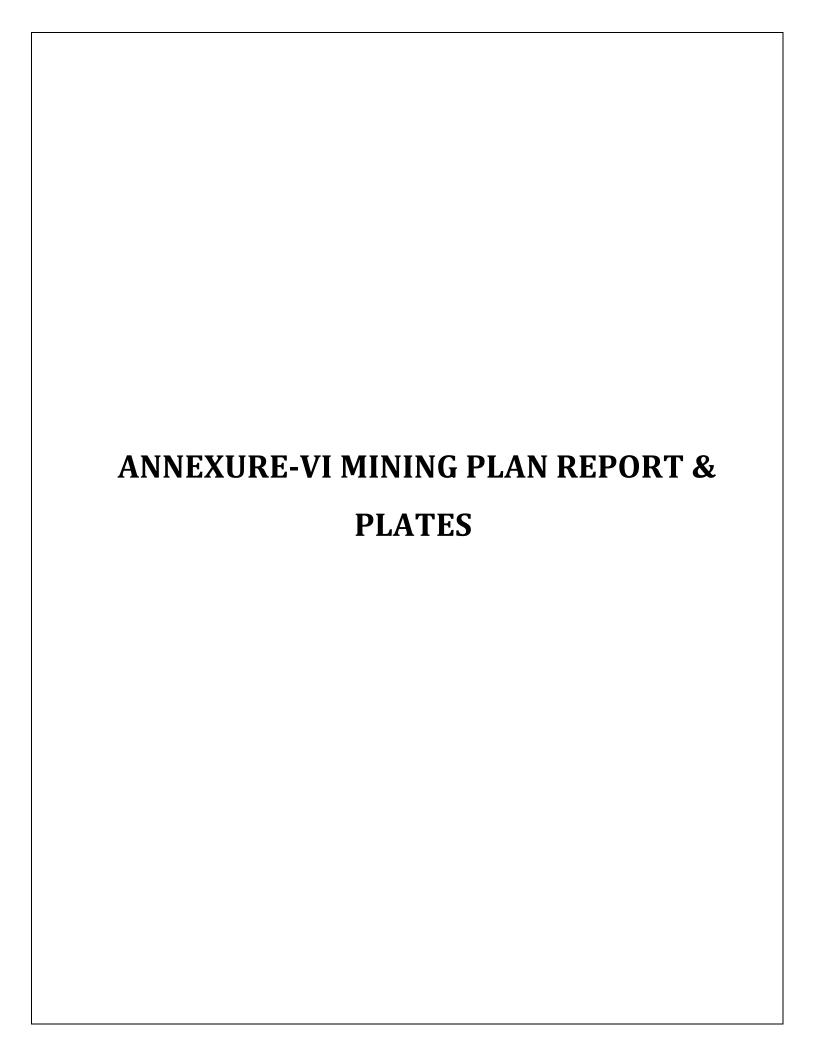
கழக்கள் உள்ள விடி பட்டாது உள்ள நிலத்தின் தன்மை பெரப்பின் விவரங்கள் தவ்வெறு நில அள்ளவ் என் அல்லது நில பகுதியில், இரண்டாம் போகம். (த) வனம், (ஆ) பயனற்ற பவிர் செய்ய இயலாத நிலம், (இ) விவசாயம் மற்றும் இதர காரியில்களுக்கு பயன் படுத்தப் படும் நினம், (ஈ) பவிரிடத்தக்க தரிக (உ) நிலையான புக் தரைகளும், மற்றும் இதர மேய்ச்சல் நிலங்களும், (ஊ) விதைக்கப்பட்ட நிகர பரப்பில் சோக்கப்பாத மரவகைப் பயிர்களும் தோப்புகளும், (எ) நடப்புத் தரிக்கள் (ஏ) இதர தரிக நிலங்கள். 48 (15) (14) (19)

கிராமக் கணக்கு மாவட்டம் சூன வெ 1124 - ஆம் பசலியில் இந்தை இழி வட்டம் 70- மிடிக்கபன்னி சாகுபடி நில வரித் திட்டத்தின்படி யாளரின் முதல் போகம். புலன்களின் விபரம். GUILLIT. அல்லது இரு கம். நிலத்தின் எந்த பகுதி யாவது காகுபடியாளரால் பயிரிடப்பட்டுள்ளதா. கைப்பற்று தாரருடைய பெயரும் என்ணும் எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது. அளவை என். விளைச்சல் அளவு விழுக்காடு. அல்லது அனுபோக பயிரான /அறுவடை யான பரப்பு. உண்மையான பாய்ச்சல் ஆதாரம். er coar. தாரகுடைய பெயர். பயிரின் பெயர். Gurain Gur 2.է. ոնոնոյ தீர்வை ugia, Bev 9 (1) (2) (3) (4) (5) (6) (9) (11) 132 ,24 985 D. RAVIKUM R 0 இராம் நீர்வாக அனுவன் மிடிதேப்பள்ளி. 380/30-R.F. III-A-10-23,00,000 Cps,-GBP-Mdu.-7-2018.

எண் 2

கிராமத்தில் வருடவாரி புலவாரி கைப்பற்று சாகுபடி அடங்கல் கணக்கு இரண்டாம் போகம். கீழ்க்கண்டவிகையில் பயிரிடப்படாது உள்ள நிலத்தின் த பரப்பின் விவரங்கள் அளவை எண் அம்வத வைகள் பகுதியில். எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது. உண்மையான பாய்ச்சல் ஆதாரம். பயிரின் noShi (13) (14) (15) (16)





MINING PLA

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PERIOD OF MINING 10 YEARS

(Prepared Under Rules 41 & 42 as amended in Tamil Nadu Minor Mineral Concession Rules, 1959)

LOCATION OF THE APPLIED AREA

EXTENT

: 3.76.67Ha.

S.F. Nos

: 70/4A & 70/5B

VILLAGE

: MIDITHEPALLI

TALUK

: SHOOLAGIRI

DISTRICT

: KRISHNAGIRI.

STATE

: TAMIL NADU.

APPLICANT

M/s. R.K.M SAND AND AGGREGATES,

Prop.THIRU. D. RAVIKUMAR,

VILLA NO.126, ADARSH PALM,

RETREAT VILLAS,

DEVARABISANAHALLI,

BANGALORE.

KARNATAKA- 560 103.

PREPARED BY

S.DHANASEKAR, M.Sc.(Geo),

QUALIFIED PERSON,

NO. 5/30-7B, AVVAI NAGAR,

PONKUMAR MINES ROAD,

JAGIR AMMAPALAYAM,

SALEM DISTRICT - 636 302.

Email: geodhana@yahoo.co.in

CELL: 98946-28970 & 73733-74702,

1 8 DEC 2024



CONTENTS

SL. NO.	DESCRIPTION	PAGE NO.
1.0	Introduction	8
2.0	Executive Summary	10
3.0	General Information	11
4.0	Location	11
5.0	Geology and Mineral Reserves	12
6.0	16	
7.0	19	
8.0	Mine Drainage	20
9.0	Other Permanent Structures	21
10.0	Employment Potentials & Welfare Measures	22
11.0	Environment Management Plan	24
12.0	27	
13.0	Any Other Details Intend to Furnish by the Applicant	28



ANNEXURES

SL. NO.	DESCRIPTION	ANNEXURE
		NO.
1.	Copy of Precise Area Communication Letter	I
2.	Copy of FMB	II
3.	Copy of Combined Sketch	III
4.	Copy of Patta, Adangal & 'A' Register	IV
5.	Copy of Land Registration Document	V
6.	Copy of ID Proof	VI
7.	Copy of Qualification Certificate	VII
8.	Copy of Experience Certificate	VIII
9.	Copy of Lease Area Photos	IX



LIST OF PLATES

SL. NO.	DESCRIPTION	PLATE NO.	SCALE
1.	Location Plan	I	Not to Scale
2.	Route Map	IA	Not to Scale
3.	Topo Sheet Map of the Lease Area	IB	1:50,000
4.	Satellite Image (Lease Area)	IC	1:2000
5.	Satellite Image (500m Radius)	ID	1:5000
6.	Mine Lease Plan	II	1:1000
7.	Surface and Geological Plan & Sections	III	1:1000
8.	Year Wise Development and Production Plan & Sections	IV	1:1000
9.	Mine Layout, Land Use Pattern & Afforestation Plan	V	1:1000
10.	Environment Plan	VI	1:5000
11.	Conceptual / Final Mine Closure Plan & Sections	VII	1:1000
12.	Progressive Mine Closure Plan	VIII	1:1000

M/s. R.K.M Sand and Aggregates,
Prop. D. Ravikumar,
Villa No.126, Adarsh Palm,
Retreat Villas,
Devarabisanahalli,
Bangalore,
Karnataka -560 103.



CONSENT LETTER FROM THE APPLICANT

I hereby give my consent for preparing the Mining Plan in respect of Rough Stone & Gravel quarry over an extent of 3.76.67 Hectares of Patta Land in S.F.Nos.70/4A & 70/5B of Midithepalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu State.

I request the Deputy Director, Department of Geology and Mining, KRISHNAGIRI District to make further correspondence regarding modifications if any in the Mining Plan with the said Qualified Person on this following address.

S.DHANASEKAR, M.Sc.,

Qualified Person
No.5/30-7B, Avvai Nagar,
Ponkumar Mines Road,
Jagir ammapalayam,
Salem District - 636302.

E-Mail: geodhana@yahoo.co.in

Cell: 98946-28970

I hereby undertake that all modifications so made in the Mining Plan by the Qualified Person may be deemed to have been made with our knowledge and consent and shall be acceptable to us and binding on us in all respects.

For M/s. R.K.M Sand and Aggregates,

L D POL

Place: Bangalore

Date:

(D. Ravikumar)

Proprietor

M/s. R.K.M Sand and Aggregates,
Prop. D. Ravikumar,
Villa No.126, Adarsh Palm,
Retreat Villas,
Devarabisanahalli,
Bangalore,
Karnataka -560 103.



DECLARATION

I hereby declare that the Mining Plan in respect of Rough Stone & Gravel quarry over an extent of 3.76.67 Hectares of Patta Land in S.F.Nos.70/4A & 70/5B of Midithepalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu State has been prepared with our consultation and I have understood the contents and agree to implement the same in accordance with the Mining Laws.

For M/s. R.K.M Sand and Aggregates,

Place: Bangalore

Date:

(D. Ravikumar)

Proprietor

S. Dhanasekar.M.Sc.,(Geol), Qualified Person,

No.5/30-7B, Avvai Nagar, Ponkumar Mines Road, Jagir Ammapalaya நிக்கமர் அல

Salem- 636 3

1 B DEC 2024 தேர்மாக மற்றும் சுர்^{ந்த}

CERTIFICATE

This is to certify that, the provisions of Minor Minerals Conservation and Development Rules, 2010 (MMCDR) have been observed in the Mining Plan for the grant of Rough Stone & Gravel quarry lease over an extent of 3.76.67 Hectares of Patta Land in S.F.Nos.70/4A & 70/5B of Midithepalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu State obtained by M/s. R.K.M Sand and Aggregates, Prop. Thiru. D. Ravikumar, for applied quarry lease.

Wherever specific permission / exemptions / relaxations or approvals are required, the Applicant will approach the concerned authorities of State and Central Governments for obtaining such permissions etc.

Certified

Signature of Qualified Person. S.DHANAŠEKAR, M.Sc., (Geo)

Qualified Person

Place: Salem

Date:

S. Dhanasekar.M.Sc.,(Geol),

Qualified Person,

No.5/30-7B, Avvai Nagar,

Ponkumar Mines Road

மேயக்குநர் அத Jagir Ammapala

Salem- 636 3

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ட்டும் மற்றும் கரங்

CERTIFICATE

This is to certify that during preparation of Mining Plan for Rough Stone & Gravel quarry over an extent of 3.76.67 Hectares of Patta Land in S.F.Nos.70/4A & 70/5B of Midithepalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu State for M/s. R.K.M Sand and Aggregates, Prop. Thiru. D. Ravikumar, covers all the provisions of Mines Act, Rules, and Regulations etc made there under and whenever specific permission are required, the Applicant will approach the Director General of Mines Safety, Chennai. The standards prescribed by DGMS in respect of Mines Health will be strictly implemented.

Certified

Signature of Qualified Person. S.DHANASEKAR, M.Sc., (Geo)

Qualified Person

Place: Salem

Date:

MINING PLAN FOR MINOR MINERALS

ROUGH STONE & GRAVEL QUARRY

TOTAL LEASE GRANTED PERIOD 10 YEARS*

PERIOD OF MINING 10 YEARS

1 8 DEC 2024

தயக்குமர் அற

கிருஷ்ணகிரி

Over an extent of 3.76.67 Hectares of Patta Land in S.F.Nos.70/4A & 70/5B Minister and Marianes and Marianes

Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu State

(Prepared Under Rules 41 & 42 as amended in Tamil Nadu Minor Mineral Concession Rules, 1959)

1.0 INTRODUCTION:

- 1. M/s. R.K.M Sand and Aggregates, Prop. Thiru. D. Ravikumar, residing at Villa No.126, Adarsh Palm, Retreat Villas, Devarabisanahalli, Bangalore, Karnataka-560 103, has obtained quarry lease for Rough Stone & Gravel over an extent of 3.76.67 Hectares of Patta Land in S.F.Nos.70/4A & 70/5B of Midithepalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu State for a period of Ten Years.
- 2. The Deputy Director, Krishnagiri in his letter Rc. No. 768/2024/Minerals dated: 25.11.2024 directed the applicant to produce approved Mining Plan and Environmental Clearance certificate from the State Environment Impact Assessment Authority (SEIAA) for the grant of quarry lease for the applied area.
- 3. Accordingly, Mining Plan is prepared under Rules 41 & 42 as amended in Tamil Nadu Minor Mineral Concession Rules, 1959 by incorporating the conditions imposed in the precise area communication letter and by incorporating all the details proposed in the letter to obtain environmental clearance from State Environment Impact Assessment Authority.
- 4. In the above circumstances, the mining plan has been prepared for the Applicant M/s. R.K.M Sand and Aggregates, Prop.:Thiru.D. Ravikumar, for approval and subsequent submission of Form-I and Pre-Feasibility report to obtain environmental clearance from the SEIAA of Tamil Nadu.
- 5. This Mining Plan is prepared for the Rough Stone & Gravel Quarry for the period of Ten Years by considering the TNMMCR 1959, and as per the EIA Notification 2006 and subsequent amendments and judgments.
- 6. The Geological Reserves is estimated as 2144580M³ and Mineable & recoverable Reserves is estimated as 1224475M³ of Rough Stone & 82530M³ of Gravel after leaving necessary safety distance from the lease boundary as indicated while granting the quarry lease Proceedings and relevant mining laws in force.

S.DHANASEKAR, M.Sc., (Geo)

Qualified Person

- 7. The proposed production scheduled for the Ten years is estimated as 1224475M³ of Rough Stone & 82530M3 of Gravel. Proposed average annual production of Rough தயக்குநர் அலுவுல stone 122447M3.
- 8. Estimated Life of the Quarry

Total Mineable ROM $= 1224475 M^3$

Recoverable Reserves @ 100% = 1224475 M³

> Average production per year $= 122447 M^3$

Estimated Life of the Quarry = 1224475 / 122447= 10.0

Life = 10.0 years

The Life of mine may change depend upon the prospecting results, rate of production and the extent of mechanization done by the applicant in near future.

- 9. Environmental measures already adopted are,
 - Dust Control at source while drilling and blasting.
 - ii) Dust suppression at loading point and transport haul roads,
 - iii) Noise Control in blasting, control of fly rock missiles and vibration by doing peak particle velocity with in standard as prescribed by the DGMS and MoEF.
 - iv) Unnecessary land degradation should be avoided or damaged land should be reclaimed or rehabilitated.
 - v) Uneven rat hole mining is avoided and follow scientific and systematic mining by safe bench system of open cast mining.
 - vi) Mining near major fracture zones already avoided to control ground water fluctuation in the adjacent agricultural lands.
 - vii) Emission test of vehicles should be intact maintaining minimum emission level of flue gases.
 - viii) Noise level should not exceed 80db and the vehicles use only permitted Air Horn while on road near residential areas.
 - ix) Safety zones as prescribed by the Department of Geology and Mining from adjacent infrastructures should be strictly adhering to.
 - x) And any other conditions as stipulated by the concerned authorities will be followed to protect the environment.

B DEC 2024

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	2.0	EXE	CUTI	VE SI	UMM.	ARY:
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2.0_	EXECUTIVE SUMMARY:		Midithepalli
a.	Name of the Village	:	Midithepalli / 8
b.	Name of the Panchayat / Union	:	Midithepalli/ Shoolag
c.	The proposed total Mineable	:	1224475M3 of Rough work & 23530Mb of
	Reserves		1224475M³ of Rough stone & 2530Mb of Gravel
d.	The proposed quantity of reserves	:	1224475M3 of Rough stone & 82530M3 of
	(level of production) for Ten Years		Gravel
	to be mined is (Recoverable reserves)		
e.	Total extent of the area	:	3.76.67На
f.	Proposed Period of mining	:	Ten Years
g.	Proposed Depth of mining	:	47.0m (Surface Ground level above-7m,
			Surface Ground level below-40m).
h.	Existing Pit Dimension	:	Nil
i.	Average Production Per Year	:	122447M³
j.	Method of mining / level of	:	Opencast, Semi-mechanized Mining with a
	mechanization		bench height of 5m and bench width of 5m is
	•		proposed.
k.	Types of Machineries used in the	:	i) Compressor with jack hammer.
	quarry		ii) Excavator of 0.90Cbm bucket Capacity.
1.	Cost of the Project		
	a. Fixed Cost		Rs. 40,50,000/-
	b. Operational Cost		Rs. 40,00,000/-
	c. EMP Cost		Rs. 3,80,000/-
m.	The Applied lease area is bounded by	:	Toposheet No. 57 – H/13
	four corners and the coordinates are		
	Latitude	:	12° 46' 07.7657" N to 12° 45' 57.2328" N
	Longitude	:	77° 57' 10.9141" E to 77° 57' 01.9504" E
	North East	:	12° 46' 07.7657" N 77° 57' 05.7114" E
	South East	:	12° 45' 58.9793" N 77° 57' 10.9141"E
	North West	:	12° 46' 0.6050" N 77° 57' 5.9704"E
	South West	:	12° 46' 2.2861" N 77° 57' 1.9504"E

2.0	GENERAL	INIE	ADM/A	TION.
3.0	GENERA	LINEU	JKIYIA	HUN.

3.1	a.	Name of the Applicant	:	M/s. R.K.M Sand and Aggregates
				Prop D Pavilumar
	b.	Address of the Applicant with	:	M/s. R.K.M Sand and Aggregates
		phone No and e-mail id if any		Prop. D. Ravikumar, Villa No.126, Adarsh Palm, Retreat Villas,
		priorie tvo dita e mair ta ir dity		Villa No.126, Adarsh Palm,
				Retreat Villas,
		-		Devarabisanahalli,
				Bangalore,
				Karnataka -560 103.
	c.	Status of the Applicant	:	Proprietor
3.2	a.	Mineral Which the Applicant	1:	Rough Stone & Gravel
		intends to mine		
	b.	Precise area letter	:	Roc. No. 768/2024/Minerals
				dated: 25.11.2024
	c.	Period of permission	1:	10 Years
	e.	Name and Address of the	:	S.Dhanasekar, M.Sc.,
		Qualified Person preparing		Qualified Person
		' ' '		No.5/30-7B, Avvai Nagar,
		Mining Plan		Ponkumar Mines Road,
		44		Jagir Ammapalayam,
				Salem District - 636302.
				E-Mail: geodhana@yahoo.co.in
				Cell: 98946-28970 & 73733-74702

4.0 LOCATION: DETAILS AREA:

	State	District	Pa	anchayat / Union	Taluk	Village	S.F.Nos	Extent in Hectare	
Tar	nil Nadu	Krishnagiri		dithepalli/ hoolagiri	Shoolagiri	Midithepalli	70/4A 70/5B	0.43.32 3.33.35	
							TOTAL =	3.76.67	
b. Classification of the : It is a Pa Area (Ryotwari / Poramboke / others)					a Land, whic	h is not fit for v	egetation/cul	tivation.	
c.	Ownersh Occupan Applied (Surface	cy of the		: It is a Patta Land in S.F.Nos.70/4A & 70/5B registered name of Mr. D. Ravikumar, Proprietor of M/s. R.K.N and Aggregates vide Patta No. 985 & 984. Hen applicant has surface rights over the area.					

			1	0	பக்குநா	OI (B)	
Toposheet No. with							1
Latitude and	:	12° 46' 07.7657" N to 12° 45' 57.2328		4	n ክሮቦ	ากาส	
Longitude	:	77° 57' 10.9141" E to 77° 57' 01.9504	£				
Existence of Public	:	Krishnagiri - Shoolagiri = 26.0Km	100	0	திருஷ்ண	त होती	(2)
Road / Railway line if		Shoolagiri - Athimugam = 11.0Km		O ex	<i>ம</i> ற்றும்	St. (4)	
any nearby the area and		Quarry site is located in Northwestern	side	at	a distan	ce of	
approximate distance		3.8kms from Athimugam.					
	Latitude and Longitude Existence of Public Road / Railway line if any nearby the area and	Latitude and : Longitude : Existence of Public : Road / Railway line if any nearby the area and	Latitude and : 12° 46' 07.7657" N to 12° 45' 57.2328' Longitude : 77° 57' 10.9141" E to 77° 57' 01.9504 Existence of Public : Krishnagiri - Shoolagiri = 26.0Km Road / Railway line if Shoolagiri - Athimugam = 11.0Km any nearby the area and Quarry site is located in Northwestern	Toposheet No. with Latitude and Longitude : 77° 57' 10.9141" E to 77° 57' 01.9504" E Existence of Public: Krishnagiri - Shoolagiri = 26.0Km Road / Railway line if Shoolagiri - Athimugam = 11.0Km Quarry site is located in Northwestern side	Toposheet No. with Latitude and Longitude : 77° 57' 10.9141" E to 77° 57' 01.9504" E Existence of Public: Krishnagiri - Shoolagiri = 26.0Km Road / Railway line if any nearby the area and Cuarry site is located in Northwestern side at	Toposheet No. with Latitude and Longitude 12° 46' 07.7657" N to 12° 45' 57.2328" Longitude 77° 57' 10.9141" E to 77° 57' 01.9504" E Existence of Public Krishnagiri - Shoolagiri = 26.0Km Shoolagiri - Athimugam = 11.0Km Quarry site is located in Northwestern side at a distant	Latitude and Longitude : 12° 46' 07.7657" N to 12° 45' 57.2328" Existence of Public: Krishnagiri - Shoolagiri = 26.0Km Road / Railway line if any nearby the area and Cuarry site is located in Northwestern side at a distance of

PART - A

5.0 GEOLOGY AND MINERAL RESERVES:

5.1	a.	Topography	:	The area is situated slightly elevated terrain sloping towards eastern side with Rough Stone
				which does not sustain any type of vegetation.
				The altitude of the area is 895m above MSL.
				2. No major river is found nearby the lease area.
				3. Water table is noticed at a depth of 67m from
				below the surface in the adjacent open well and
				bore well.
				4. Temperature of the area is reported to be 18 ^o C to
				a maximum of 38°C during summer.
				5. Rainfall of this area is about 800mm to 900 mm
				during the monsoons in a year.
	b.	Infrastructures nearby		
		the Applied Lease area.		
		1. Post Office	:	Venkatesapuram – 3.0kms
		2. Police Station	:	Athimugam – 3.8kms
		3. G.H	:	Athimugam – 4.8kms
		4. Fire service	:	Hosur – 21.0kms
		5. Railway Station	:	Hosur – 19.0kms
		6. School	:	Venkatesapuram – 2.1kms
		7. Airport	:	Bangalore – 98.3kms
		8. Seaport	:	Chennai - 305.0kms

c.	Regional Geology	: F	Cris	hnagiri District is	underlined by the wido range
		0	f m	etamorphic rocks	of peninsylvaniessic complex
		Т	hes	e rocks are extensi	vely weathered and overlain hy
				ecent valley fills	IL BY CYLLA THE BRUTE LONDIN
		g	eolo	ogical formations	found in the later of
		A	rch	aean rocks like C	neisses, Granie Communication
		b	asic	granulites and	calc-gneisses. The younge
		fe	orm	ations are Quart	z veins and pegmatite. The
		g	ene	ralized stratigraph	ic succession of the geologica
		fe	orm	ations met within	this District is as follows.
				Age	Rock Formation
			1.	Recent to Sub	Soil, Alluvium
			2.	recent Archaean	Granites, basic
			447 6	7 Holladali	granulites, Peninsular
					Gneiss, Calc Gneiss and
		L			Charnockites
d.	Geology of the Lease	1:	1	. The area is m	nainly composed of Archaean
	Area			crystalline meta	morphic complex.
			2	. The rock type	noticed in the area for lease i
				Granite Gneiss	s which contains mostly Quart
				and Feldspar	with some ferromagnesia
				minerals. The	Granite Gneiss is part o
				peninsular C	Gneisses, a high grad
	14			metamorphic ro	ock.
			3	. The general tre	end of formation is NW - SI
				and dip towards	s SW-70 ⁰ .
		Г	he	general geological	succession of the area is give
		u	nde	r	
				Age	Rock Formation
			١.	Recent to Sub recent	Soil, Alluvium
			2.	Archaean	Charnockites
		3	3.	Archaean	Peninsular Gneiss, and Calc Gneiss

5.2		Details of Exploration already carried out if	:	Since the Rough Stone & Gravel is seen from the Surface itself, No needed to exploration. However, the
		any		area was personally examined by the Geologist who prepared the Mining Plan.
5.3	a.	Already excavated in pit dimensions	:	Nil
	h	Geological Resources:		and the second

Geological Resources:

Gravel:

The Thickness of Gravel in this area is 2.0m and the total volume of Gravel will be 96630m³.

Rough Stone:

The Available Geological Resources is estimated as 2144580m³ respectively, at the rate of 100% Recovery upto the permissible depth. The Geological reserve of Rough stone and Gravel is calculated upto a Total Depth-47m (2m Gravel + 45m Rough Stone) (Surface Ground level above-7m, Surface Ground level below-40m).

		(GEOLO	DGICA	L RESERV	ES	
Section Bench		L (m)	W (m)	D (m)	Volume in (Cu.m.)	Geological Reserve in Cu.m (100%)	Gravel in (Cu.m.)
	I	236	150	2			70800
	II	221	141	5	155805	155805	,
	III	236	150	5	177000	177000	
	IV	236	150	5	177000	177000	
XY-AB	V	236	150	5	177000	177000	
AI-AD	VI	236	150	5	177000	177000	
	VII	236	150	5	177000	177000	
	VIII	236	150	5	177000	177000	
	IX	236	150	5	177000	177000	
	X	236	150	5	177000	177000	
			7	Total=	1571805	1571805	70800
	I	123	105	2	- "		25830
	II	107	105	5	56175	56175	-
	III	123	105	5	64575	64575	,
	IV	123	105	5	64575	64575	
XY-CD	V	123	105	5	64575	64575	
A1-CD	VI	123	105	5	64575	64575	
	VII	123	105	5	64575	64575	
	VIII	123	105	5	64575	64575	
	IX	123	105	5	64575	64575	
	X	123	105	5	64575	64575	
			ſ	otal=	572775	572775	25830
*`		G	rand T	otal=	2144580	2144580	96630

Mineable Reserves:

The Mineable reserves are calculated by deducting 7.5m safetyedistance for land. Patta land.

Gravel:

0

0 0

0

0

0

0

0 0 0

:
The Thickness of Gravel in this area is 2.0m and the total will be 82530 m^3 .

Rough Stone:

The mineable reserves and the Recoverable Reserves are 1224475m³ respectively, at the rate of 100% recovery upto the permissible depth. The Mineable reserve of Rough stone and Gravel is calculated upto a Total Depth-47m (2m Gravel + 45m Rough Stone) (Surface Ground level above-7m, Surface Ground level below-40m).

	8 6		MIN	VEABL	E RESERVE	S		
Section Bench		L (m)	W (m)	D (m)	Volume in (Cu.m.)	Mineable Reserve in Cu.m(100%)	Gravel in (Cu.m.)	
	I	229	135	2			61830	
	II	221	133	5	146965	146965		
	III	229	135	- 5	154575	154575	,	
	IV	224	125	5	140000	140000		
XY-AB	V	219	115	5	125925	125925		
AI-AB	VI	214	105	5	112350	112350		
	VII	209	95	5	99275	99275	,	
	VIII	204	85	5	86700	86700		
	IX	199	75	5	74625	74625		
	X	194	65	-5	63050	63050		
			7	otal=	1003465	1003465	61830	
	I	115	90	2			20700	
	II	107	86	5	46010	46010		
	III	115	78	5	44850	44850		
	IV	110	68	5	37400	37400		
XY-CD	V	105	58	5	30450	30450		
	VI	100	48	5	24000	24000		
	VII	95	38	5	18050	18050		
	VIII	90	28	5	12600	12600		
	IX	85	18	5	7650	7650		
			7	otal=	221010	221010	20700	
		Gı	and T	Total=	1224475	1224475	82530	

6.0 **MINING**:

6.1	Method of Mining	:	1. Opencast method of semi mechanized religing is being
			adopted to extract Rough Stone of required size. 1
			2. Machineries like Tractor mounted compressor attached

with Jack hammers is used for drilling and blasting.

Excavators are used for quarrying of Rough Stone and

Tippers / Lorries are used for the transportation of Rough Stone & Gravel to the destination.

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6.2 Mode of Working : It is a semi mechanized quarrying operation using shot hole drilling with the help of compressor and jack hammers and smooth blasting. Rough Stone are removed using Hydraulic excavator and loaded directly to the tippers and transported to the needy buyers.

6.3 Proposed bench height : Bench height = 5mts.

& Width Bench width = 5mts.

6.4 Details of Overburden
/ Mineral Production
proposed for Ten
Year.

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Gravel/ Overburden production details follows:

This area is covered 2.0m Gravel and the estimated quantity of Gravel is 82530m³. Gravel formation will be removed and hydraulic excavators are used for loading the gravel into the tipper from pit head to needy buyers. This will be done only after obtaining permission and paying necessary seigniorage fees to the Government.

Year wise reserves calculations:

Rough stone production Ten Years details as follows:

The proposed rate of production of Rough Stone is estimated as 1224475m³ & Gravel is 82530m³ for Ten years. The average proposed rate of production of Rough Stone is about 122447m³ per year at the rate of 100% recovery upto the permissible depth. Reserves Calculated upto 47m (2m Gravel + 45m Rough Stone) (Surface Ground level above-7m, Surface Ground level below-40m). (Refer Drawing Plate No.IV-A-Year wise Sections).

Year	Section	Bench	L (m)	W (m)	D (m)	Volume In M3	Recoverable Reserve in m3 (2) 100%	ात का
	XY-AB	I	229	135	2		*	01830
I-Year	AI-AD	II	221	133	5	146965	146965	er en corre
		TOT	AL			146965	146965	0 6183 0
		I	115	90	2		8	DEUT OF
II Voor	XY-CD	II	107	86	5	46010	46010	
II-Year		III	115	78	5	44850	44850	
		TOT	AL			90860	90860	20700
III V	XY-AB	III	229	135	5	154575	154575	
III-Year		TOT	AL			154575	154575	
IV-	XY-AB	IV	224	125	5	140000	140000	
Year		TOT	AL		140000	140000		
	NAT OD	IV	110	68	5	37400	37400	
37.37.	XY-CD	V	105	58	5	30450	30450	
V-Year	XY-AB	V	219	115	5	125925	. 125925	
		TOT	AL			193775	193775	
- 1-	XY-AB	VI	214	105	5	112350	112350	
VI-	XY-CD	VI	100	48	5	24000	24000	
Year		TOT	AL		1	136350	136350	
	XY-AB	VII	209	95	5	99275	99275	
VII-	XY-CD	VII	95	38	5	18050	18050	
Year		TOT	AL			117325	117325	
	XY-AB	VIII	204	85	- 5	86700	86700	
VIII-	XY-CD	VIII	90	28	5	12600	12600	
Year		TOT	AL			99300	99300	
	XY-AB	IX	199	75	5	74625	74625	
IX-	XY-CD	IX	85	18	5	7650	7650	
Year		ТОТ	AL			82275	82275	
X-Year	XY-AB	X	194	65	5	63050	63050	
		TOT	AL			63050	63050	
	Gr	and Total				1224475	1224475	82530

6.5 a. Mining : Drilling of shot holes will be carried out using compressor and jack hammer. Depth of holes shall be 1 to 2m bench height

and spacing shall be 0.75m and burden shall be 0.60m from the preface. Details of drilling equipments are given below.

Type	No	Dia of	Size /	Make	Motive	H.P
	S	hole	Capacity		power	
Jack	3	25.5	Hand	Atlas	Diesel	60
Hammer		mm	held	copco		
				2Nos		

	b.	Loading	:	Loa	iding c	of waste	e and r	rough st	one is be	ng carried	out by	
5				Excavator into 10 tonne capacity tippers from the working								
				place periodically. Details of loading equipment are given as								
				under. $\begin{pmatrix} \frac{23}{4} & 1 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0$								
				Туре	N	los Bu	(MT)		Motive	H.P		
									Will so	power woman and	120	
				Hydraulic 2			1.2 N	$\sqrt{1}^3$	L&T or	Diesel	120	
		T			excavator				Ex200			
	c.	Transportation		_	Transport of raw		terials	and w	aste shall	be done	by 10	
				tonnes tip	per 	•						
				Туре	Nos	Size		Ma	ake	Motive	H.P.	
				CENT.		Capa	1.	A 1 -1-1	. , ,	power	110	
	1	77		Tipper	2	10 M	1.T	Ashok I	Leyland	Diesel	110	
	d.	Energy:	- 24	1 11:_1, to .0	1	-!-1-4-	(la	• - • • - •	م المحدد الم		.1.,	
		Electricity for mines and lights only at nights (working is restricted on day time only between 8Am to 4Pm). Diesel (HSD) will be used for quarrying machines around										
		993344 liters for the entire project life. Diesel will be brought from nearby diesel										
		pumps. No power is required for the project. Lightings on the night is taken from										
		nearby electric poles after obtaining permission from concerned authorities. For Gravel:										
		Per hour excavator will consume = 10 litres / hour										
		Per hour excavator will excavate $= 10 \text{ fitres / hour}$ Per hour excavator will excavate $= 60 \text{m}^3 \text{ of Gravel}$										
		For 82530m^3 = $82530/60 = 1375.5 \text{ hours}$										
			w	orking ho	urs	= 1376 x 10 litres						
		Total diesel consum				= 13760 litres of HSD will be utilized for						
		Gravel.	·F			0.002						
		For Rough stone:										
		Per hour excavator v	wil	l consume	;	= 1	6 liter	rs / hour				
		Per hour excavator v	will	l excavate	•	= 2	20m³ o	f rough	stone			
		For 1224475m ³				= 1	22447	75 / 20	= 61224	hours		
		Diesel consume 612	224	working l	nours	= 6	12241	hours x	16 liters			
		Total diesel consu	mŗ	otion = 9°	79584	liters	of HS	SD will	be utiliz	zed for R	ough	
		stone.										
		Total diesel consu	um	ption is	arour	ıd (Gr	avel	13760	Litres +	Rough S	Stone	
		979584Litres) = 99)33	44 litres (of HSI) for th	1e enti	ire peri	od of life.	•		

a.	Disposal of Overburden	•	The Gravel of the lease area is estimated as 82530m ³ . Grave formation will be removed and transported to the needy end user, only after obtaining permission and paying necessary seigniorage fees to the Government.
a.	Brief Note on Conceptual Mining Plan for the entire lease		Conceptual Mining Plan is prepared with an object of systematic development of bench lay out selection of ultimate pit limit, depth of quarrying, ultimate pit slope, which is a limit of the systematic development of bench lay out selection of ultimate pit limit, depth of quarrying, ultimate pit slope, which is a limit of the system of t
	period		Ultimate Pit Dimensions: 344.0m (L)Avg X 112.0m (W)Avg X 47.0m (D) (Surface Ground level above-7m, Surface Ground level below-40m)
			Ultimate pit size is designed based on certain practical factors such as the economical depth of mining, safety zones permissible areas etc. Afforestation has been proposed on the boundary barrier by planting trees. All the baseline information studies like Air Quality monitoring, Noise and Vibration monitoring, Water Analysis
		a. Brief Note on Conceptual Mining Plan for	a. Brief Note on : Conceptual Mining Plan for the entire lease

7.0 BLASTING:

7.1	Proposed Control	:	The massive formation shall be broken into pieces of portable
	Blasting Pattern		size by drilling and Proposed Control Blasting using jack
			hammers and shot hole Blasting. Powder factor of explosives
			for breaking such hard rock shall be in the order of 6 to 7
			tonnes per K.g of explosives.
			1 face survey 2 drilling the and hales 4 charging with applications approximates
	¥.		5 detonating the explosives a shotpile ready for loading

7.2	Types of Explosives	i		wing explosives	es are recon	nmended for efficient blasting			
			S. No	Description	Class / Division	1 0 DEC ⁵ 2074			
			1.	Slurry	Class - 3	Nitro Compound 25 x 200			
			2.	Detonators	Class - 3	Ordinary no.5 x silve of the control			
			3.	Safety fuse	Class - 6	Blue sump fuse coils of 10mts each			
7.3	Measures proposed to	:	The	following step	os are being	g adopted to control ground			
	minimize ground		vibrat	ion due to blas	sting.				
	vibration due to		1.	The minimu	ım recomme	ended delay time of 8ms was			
	blasting			introduced to minimize ground vibration to avoid					
				constructive interference of blast vibration waves and					
				hence its impact or amplitude is less.					
			2.	Use of Am	monium niti	rate fuel oil mixture for shot			
				holes is avo	ided because	which cause high fly of rocks			
				in view crit	ical diamete	r problem. Only high strength			
				explosives li	ke slurry are	used in the form of cartridge.			
			3.	Charge per l	nole will exc	eed the powder factor designed			
				for each hole	e based on th	e quantum of blasting, strength			
				of rocks, fra	cture pattern	etc.			
7.4	Storage of Explosives	:	1.	An authorize	ed explosive	agency is engaged to carry out			
	and safety measures			blasting.					
	to be taken while		2.	The blasting	time in a day	y is between 5 PM to 6 PM.			
	blasting.		3.	First Aid Bo	x is kept read	dy at all the time.			
			4.	Necessary p	recautionary	announcement is being carried			
				out before th	e blasting or	peration.			

8.0 MINE DRAINAGE:

8.1	Depth of Water	:	The ground water table is reported as 67m below ground
	table		level in nearby open wells and bore wells of this area. Mining
			depth taken as 47m (Surface Ground level above-7m, Surface
			Ground level below-40m). Now, proposed quarry depth is
			above the water table. Hence, quarrying may not affect the
			ground water.

8.2	Arrange	ement	and			
	Places	where	the			
	mine	water	is			
	finally	finally propose				
	be discl	harged				

The ground water may not rise immediately in this type of mining. However, the rain water percolation and collection of water from the seepage shall be less than 300 lpm and it shall be pumped about periodically by a stand by diesel powered Centrifugal pump motivated with 7.5 However is potable and it is not contaminated with an hazardous things.

9.0 OTHER PERMANENT STRUCTURES:

கிருஷ்ணகிரி

9.1	Habitations / Village		There are r nearest hab under,	o villages withi	n a radius	n is given as	
			Direction	Village	Distance in kms	Population	
		3	North	Karnapalli	4.5 Kms	280	
			East	Naraseepuram	4.1Kms	240	
			South	Guttlapalli	1.0kms	200	
			West	Advanapalli	3.1Kms	250	
9.2	Power lines (HT/LT)	:	There is no	Power line is loca	ted in the lea	ase area.	
9.3	Water bodies (River, Pond,	:	There are n	o other Water b	odies (Rive	r, Pond, Lake,	
	Lake, Odai, Channel etc)		etc) is locate	ed in this area.			
9.4	Archeological / Historical	:	There are	no Archeologica	/ Historic	al Monuments	
	Monuments		within a rad	ius of 500m.			
9.5	Road (NH, SH, Village Road	:	Krishnagiri - Shoolagiri = 26.0Km				
	etc)		Shoolagiri -	Athimugam = 11	thimugam = 11.0Km		
			Quarry site is located in Northwestern side at a distance				
			of 3.8kms fr	om Athimugam.			
9.6	Places of Worship	:	There are no	Places of Worsh	ip within a r	adius of 500m.	
9.7	Reserved Forest / Forest /	:	There are no	Wild Life Sanc	tuary etc wit	thin a radius of	
	Social Forest / Wild Life		10km. No reserve forest located within 60m radial				
	Sanctuary etc.,		distance.				
9.8	Any Interstate Border,	:		No inter State bo	rder within	a radius of 10	
	Protected areas under the Wild		kms.				
	Life (Protection) Act, 1972,			ery Wild life Sa	nctuary loca	ated within the	
	Critically Polluted Areas as						
	Identified by Central Pollution		distance of	about 25.0Kms fr	om the lease	area.	
	Control Board and Notified						
. 9	Eco sensitive areas.				607		

0.9	Any (Other ctures	: Ni	1.			St Sud	குநர் அல
10	.0 <u>EM</u>	IPLOYMENT POTEN	TIAL &				$\underline{\mathbf{s}}$: $\begin{pmatrix} \mathbf{s} \\ \star \end{pmatrix}$ 1 $\mathbf{\theta}$	DEC 2024
10.1		Employment Po (Management & Super personal)	otential :		M windi di 2. Tl qu pe	s per Mines safe IMR, 1961 und thenever the work or, it is preferred late to keep all rectly under his contained the following manarrying Rough of eriod to achieve the comply the pro- orms.	er the Mines of the res are employed to have a qualiful the production ontrol and supervan power is prostone during the he proposed pro-	d more than fied Mining on workers vision. Toposed for the Ten years duction and
					1.	Skilled	Operator	3 No.
							Mechanic Blaster/Mat	1 No.
					2.	Semi – skilled	Driver	3 Nos
					3.	Unskilled	Musdoor / Labors	6 Nos
							Cleaners	2Nos
							Office Boy	1No
					4.	Management & S	Supervisory staff	2No.
						Total =		20Nos
10.2		Welfare Measures						
	a.	Drinking Water		is	hall s pr	Drinking water at be provided as p oposed to make errupted supply of	er the Mines Rule a borehole for	les, 1960. It

b.	Sanitary facilities		Semi-permanent latrines & urinals shall be
			maintained at convenient places for use of labours
			as per the provisions of Rule (33) conthe sines
			Rules, 1960 separately for males and females.
			Washing facilities shall also be arranged as per rule
			(36) of the Mines Rules, 1960.
c.	First Aid Facility	:	Being a small mine first Aid wattern as per
			provisions under Rule (44) of Regionings Rules
			1960 is provided with facilities as per the third
			schedule as prescribed. Qualified First Aid
			personnel should be appointed or nominated to
			attend emergency first aid treatment.
d.	Labor Health	:	As per Mines Rule, Periodic medical
	3		examination has been arranged for occupational
		۰	health once in a year in addition to attending
			medical treatment of occupational injuries under
			the Rule 45 (A), MR, 1960.
e.	Precautionary safety	:	Safety provisions like helmet, goggles,
	measures to the Laborers		safety shoes, Dust mask, Ear muffs etc have to be
			provided as per the circulars and amendments
			made for Mine labours under the guidance of
			DGMS being a mechanized operation. Necessary
			training will be conducted once in a year to all the
			employees with the help of qualified and
			experienced officers to train about the safe and
			system at quarrying operation.

PART - B

11.0 ENVIRONMENTAL MANAGEMENT PLAN:

1 8 DEC 2024

					400	180	EC 2024			
11.1	Area Land Use Pattern		The applied land use pattern is given as under.							
					Present					
			S.	Description	Area	Durring	gio sillo			
			No.	Description	(HECT)	,				
						_	(HECT)			
			1.	Area under quarrying	Nil	3.	09.0			
			2.	Infrastructure	Nil	0.	01.0			
			3.	Roads	Nil	0.	01.0			
			4.	Green Belt & Dump	Nil	0.6	55.67			
			5.	Unutilized Area	3.76.67		Nil			
			-	Total =	3.76.67H	a 3.76	.67Ha			
11.2	Water Regime		W	is area is n	oticed at	a depth of				
		9	67m below the surface ground level and presently, the							
			quarrying of Rough Stone is proposed up to a depth of							
8			47m (Surface Ground level above-7m, Surface Ground							
			level below-40m) and hence, it will not affect the							
			ground		· · · · · · · · · · · · · · · · · · ·					
11.3	Flora and Fauna		,							
			noticed in the Applied Lease area. Further, neither flora							
		1 1	of botanical interest nor fauna of zoological interest is noticed in this area.							
11.4	Climatic conditions	1:1			sical alimat	in nonditie				
11.4	Cimatic conditions			nerally sub-trop			•			
			throughout the year and this District receives rain both in South west and North east monsoon.							
			The average rainfall is about 800mm to 900mm and the							
			temperature ranges from 18°C during winter and to a							
				m of 38°C duri						
11.5	Human Settlement	:		The nearest habi	tations with t	he populati	on.			
			Direc	tion Vil	lage	Distance in Kms	Populat ion			
			Nor	th Karnapa	li	4.5 Kms	280			
			Eas			4.1Kms	240			
			Sou			1.0kms	200			
			We			3.1Kms				

11.6	Plan for Air, Dust	:	Air or dust expected to be generated from drilling
	Suppression		process, hauling roads, places of excavation etc, is
			being suppressed by periodical wetting of land by want
			spraying. For the sampling of air high volume air
			sampler (Model VFC-PM10) was used 19 meter above
			and 5 meter away from road) and the particulates were
			collected on what man GFA glass fiber filters dried in a
			hot air oven at 105°C for 1hr and weighed. The average
			flow rate was about 1.1 cubic meters.
11.7	Plan for Noise Control	1:	Quarrying of Rough Stone is being carried out by
			drilling and blasting by using low power explosives,
			and hence, noise is very minimum. However, periodical
			noise level monitoring will be carried out to check the
			noise level in and around the quarry site.
			In order to assess the extent of noise pollution due to
			vehicular traffic different zones viz., Silence zone,
			Residential Zone, Commercial zone, Traffic signals and
			Industrial zones were identified in urban and suburban
			areas of Krishnagiri. Adequate number of observations
			were made in all the selected sites by using the sound
			level meter (LT Lutron SL-4001).
11.8	Environmental Impact	:	Factors to be considered for EIA are,
	Assessment Statement		1. Dust generation,
	Describing Impact on		2. Land degradation
	mining on the next Ten		3. Stabilization and vegetation of dumps4. Adverse effect on water regime
	Years.		 Adverse effect off water regime Socio economic benefits arising out of Mining.
			6. Noise and Vibration.
	a. Dust	:	Dust is expected to be generated from drilling,
			hauling roads place of excavation etc and it will be
			suppressed by periodical wetting of lands.
	b. Land degradation	:	Land degradation is by means of cutting the trees
			and removal of fertile soil does not arise. Proposed
			usage of land for the next Ten years shall be less than
			3.76.67Ha. Afforestation will be started during the first
			year of mining operation itself.
			• •

2000									
2.0	c. Stabilization and	:	The s	e soil will be spread over the non-active dumps					
- 1	vegetation of		along the	slo	ope and edges to plant tree saplings to form				
	dumps		vegetal co	egetal cover over the dumps. Such vegetal cover will					
			prevent er	prevent erosion of dumps during rainy sessols on the					
	d. Socio economic	:	1. To p	orc	ovide Employment opportunities of the				
	benefits arising		nearb	у :	villagers.				
	out of mining		2. For	th	e cultural development of the nearby				
			villag	ger	s. o deep hole blasting is proposed digitals				
	e. Noise and	:	Since,	, n	o deep hole blasting is proposed with small				
	vibration		dia explos	iv	es are used for breaking the hard rock and				
			boulders,	the	e noise and vibration is very minimum and				
			are within	th	e permissible limits.				
11.9	Proposal for Waste	:	There is n	0 1	requirement for waste management as there				
	Management		is 100% re	ecc	overy percentage.				
11.10	Proposal of Reclamation	:	The	present mining is proposed to a depth o					
.	of Land affected during	1	47m (Surface Ground level above-7m, Surface Ground						
	mining activities and at		level below-40m). The mined out area will be fenced on						
	the end of mining.		top of open cast working with S1 fencing. Low lying						
			areas with water logging shall be used for fish culture.						
			No immediate proposals for closure of pit as the rough						
					still at deeper level.				
11.11	Program for	:	Trees like Neem Pungan & Panai etc were planted						
	Afforestation		along the lease boundary and avenues as well as over						
			non active dumps at a rate 100 trees per year with an						
			interval of	f 5	m. The rate of survival expected to be 80%				
			in this area	a.					
11.12	Proposed Financial Estima	ite	/ Budget	:					
	for (EMP) Environment M	an	agement						
	Fixed Asset Cost:								
	1. Land Cost		:	Rs.37,20,000/- (Amount for Patta Land)					
	2. Labour Shed		:	Rs. 1,50,000/-					
	3. Sanitary Facility		:	Rs. 80,000/-					
	4. Fencing cost			$: \Big $	Rs. 1,00,000/-				
	Total=		:	Rs.40,50,000/-					

Operational Cost:		384	து மக்குநர்
Machinery cost	:	Rs.40,00,000/-	6
EMP Cost:			* 1 B DEC 20
1. Drinking water facility	:	Rs. 1,20,000/-	டிரும் கிருஷ்ண கிர மற்றும் தர
2. Safety kits	:	Rs. 60,000/-	wai winnin an
3. Water sprinkling	:	Rs. 80,000/-	7
4. Afforestation	:	Rs. 30,000/-	
5. Water quality test	:	Rs. 30,000/-	
6. Air quality test	:	Rs. 30,000/-	
7. Noise/vibration test	:	Rs. 30,000/-	
Total=	:	Rs. 3,80,000/-	
Total Project Cost	:	Rs.84,30,000/-	100

12.0 MINE CLOSURE PLAN:

12.1	Steps proposed for phased	:	The present mining is proposed to a depth of
	restoration, reclamation of		47m (Surface Ground level above-7m, Surface
	already mined out area.		Ground level below-40m). The mined out area
	,		will be fenced on top of open cast working with
25			S1 fencing to arrest the entry of cattle's and
			public in to the quarry site.
12.2	Measures to be under taken	:	Measures will be taken as per the Acts and
	on mine closure as per Act		Rules. The quarried pit will be fenced by using
	& Rules		Barbed wire fencing. Green belt development at
			the rate of 100 trees per year will be proposed.
12.3	Mitigation measures to be	:	It is a fresh Rough Stone & Gravel Quarry
	undertaken for safety and		with a depth of 47m(Surface Ground level above-
	restoration/ reclamation of		7m, Surface Ground level below-40m) for Ten
	the already mined out area		years and hence, no need of mitigation and
			restoration / reclamation of the applied lease area.
		_	I and the same of

13.0 ANY OTHER DETAILS INTEND TO FURNISH BY THE APPLICANT

(i) Permission will be obtained from the Director of Mines Salest for extracting the Rough Stone from the Boundary barriers and from slopes.

(ii) Care and precautionary measures will be taken for the safety of workers as per Rules and Acts.

- economically without any wastage and to improve the environment and ecology.
- (iv) Accordingly, Mining Plan is prepared under Rule 41 & 42 as amended in Tamil Nadu Minor Mineral Concession Rules, 1959 by incorporating the conditions imposed in the precise area communication letter and by incorporating all the details proposed in the letter to obtain environment clearance from State Environment Impact Assessment Authority.
- (v) In the above circumstances, this Mining Plan is prepared for approval of Rough Stone & Gravel Quarry for a period of Ten Years.

S.DHANASEKAR, M.Sc., (Geo)

Qualified Person

This Mining Plan is approved based on guidelines / instruction issued and in corporation of the particulars specified in the letter Roc. No. 12.24 minsDated [8.12.24 of the Duputy Director of Geology and Mining, Krishnagiri and subject to further fulfillment of the conditions laid down under Tamil Nadu Minor Mineral Concession Rules, 1959 and Minor Mineral Conservation and Development Rule 2010.

DEPUTY DIRECTOR
Geology and Mining,
Collectorate, Krishnagira

M. 12.24

This Mining Plan is approved subject to the conditions / Stipulation Indicated in the Mining Plan Approval

Letter Roc. No. 768 | 2024/ Pated 18:12:

ந.க.எண். 768/2024/கனிமம் நாள்: 25.11.2024.

புவியியல் மற்றுர் கரங்கத்துறை மாவட்ட ஆட்சியல் அலுவலகம் EC 2024 கிருஷ்ணகிரி.

குறிப்பாணை

த்துமுல் மற்றும் கார் கனிமங்களும் சுரங்கங்களும் - சிறு கனிமம் - கிராவல் மற்றும் பொருள் : சாதாரண கற்கள் - கிருஷ்ணகிரி மாவட்டம் - சூளகிரி வட்டம் -மிடிதேப்பள்ளி கிராம புல எண்கள். 70/4A மற்றும் 70/5B ல் மொத்த விஸ்தீரணம் 3.76.67 ஹெக்டேர் பரப்பில் கிராவல் மற்றும் சாதாரண கற்கள் வெட்டியெடுக்க அனுமதி கோரி M/s. R.K.M Sand and Aggregates என்ற நிறுவனத்தினரால் விண்ணப்பம் அளிக்கப்பட்டது - வருவாய்துறை, வனத்துறை மற்றும் புவியியல் &சுரங்கத்துறை புலத்தணிக்கை அறிக்கை சமர்பிக்கப்பட்டது -தகுதியான நிலப்பரப்பாக கருதி ஏற்பளிக்கப்பட்ட சுரங்க திட்டம் மற்றும் சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணைய இசைவிணை பெற்று சமா்பிக்கக் கோருதல் - தொடா்பாக.

ប្បារំគោល :

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- 1. M/s. R.K.M Sand and Aggregates என்ற நிறுவனத்தின் விண்ணப்ப நாள்: 08.07.2024.
- மாவட்ட ஆட்சியர், கிருஷ்ணகிரி அவர்களின கடிதம் ந.க. 2. 768/2024/கனிமம், நாள்: 11.07.2024.
- அவர்களின் கடிதம் ந.க.எண். வட்டாட்சியர், சூளகிரி 3. 1416/2024/அ2 நாள்: 02.09.2024.
- சார் ஆட்சியர், ஒசூர் அவர்களின் கடிதம் ந.க.எண். 4. 3160/2024/பி2 நாள்: 10.10.2024.
- உதவி இயக்குநர் (கனிமம்) மற்றும் உதவி புவியியலாளர் 5. புலத்தணிக்கை அவர்களது கிருஷ்ணகிரி (கனிமம்) அறிக்கை நாள்: 24.10.2024.
- மற்றும் உரிய ஆவணங்கள். 6.

பார்வையில் காணும் கடிதங்களின்பால் கனிவான கவனம் வேண்டப்படுகிறது.

2. கிருஷ்ணகிரி மாவட்டம், சூளகிரி வட்டம், மிடிதேப்பள்ளி கிராம புல எண்கள். 70/4A மற்றும் 70/5B ல் மொத்த விஸ்தீரணம் 3.76.67 ஹெக்டேர் பரப்பில் கிராவல் மற்றும் சாதாரண கற்கள் வெட்டியெடுக்க அனுமதி வழங்க கோரி M/s. R.K.M Sand and Aggregates என்ற நிறுவனத்தினர் 08.07.2024 நாளிட்ட விண்ணப்பத்தினை உரிய ஆவணங்களுடன் சமர்ப்பித்துள்ளனர்.

3. மேற்கண்ட விண்ணப்பம் தொடர்பாக வட்டாட்சியர், சூளகிரி, சார் ஆட்சியர், ஒருர், உதவி இயக்குநர் (கனிமம்) மற்றும் உதவி புவியியலாளர் (கனிமம்) கிருஷ்ணகிரி ஆகியோர் புலத்தணிக்கை மேற்கொண்டு சூளகிரி வட்டம், மிடிதேப்பள்ளி கிராம புல எண்கள். 70/4A மற்றும் 70/5B ல் மொத்த விஸ்தீரணம் 3.76.67 ஹெக்டேர் பரப்பில் விண்ணப்பதாரர் M/s. R.K.M Sand and Aggregates என்ற நிறுவனத்தினருக்கு நிபந்தனைகளுக்குட்பட்டு கிராவல் மற்றும் சாதாரண கற்கள் வெட்டியெடுக்க அனுமதி வழங்கலாம் என பரிந்துரை செய்துள்ளனர்.

4 எனவே, வட்டாட்சியர், சூளகிரி, சார் ஆட்சியர், ஒசூர், உதவி இயக்குநர் (கனிமம்) மற்றும் உதவி புவியியலாளர் (கனிமம்) கிருஷ்ணகிரி ஆகியோரின் பரிந்துரைகள் மற்றும் நிபந்தனைகளின் அடிப்படையில், சூளகிரி வட்டம், மிடிதேப்பள்ளி கிராம புல எண்கள். 70/4A மற்றும் 70/5B ல் மொத்த விஸ்தீரணம் 3.76.67 ஹெக்டேர் பரப்பில் விண்ணப்பதாரர் M/s. R.K.M Sand and Aggregates என்ற நிறுவனத்தினருக்கு 1959ம் வருட தமிழ்நாடு சிறுகனிம விதிகள், விதி எண்.19(1)-ன்படி மேற்கண்ட நிபந்தனைகளுக்குட்பட்டு 10 (பத்து) வருட காலத்திற்கு சாதாரண கற்கள் குவளி உரிமம் வழங்குவதற்குரிய தகுதியான நிலப்பரப்பாக கருதப்படுகிறது.

5. மேலும், தமிழ்நாடு சிறு கனிம சலுகை விதிகள்-1959 விதி எண். 41-ன்படி குவாரிப்பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்க திட்டத்தினை இக்கடிதம் கிடைக்கப்பெற்ற 90 தினங்களுக்குள் சமர்ப்பிக்குமாறு மனுதாரரைக் கேட்டுக்கொள்ளப்படுகிறது. மேலும் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தின் தொடர்ச்சியாக 1959ம் வருடத்திய தமிழ்நாடு சிறுகளிம சலுகை விதிகள், விதி எண்.42-ன்படி சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் இசைவினைப் பெற்று சமர்பிக்கும் பட்சத்தில் மட்டுமே குவாரி உரிமம் கீழ்கண்ட நிபந்தனைகளுக்குட்பட்டு வழங்கப்படும் என இதன் மூலம் தெரிவிக்கப்படுகிறது.

நிபந்தளைகள்:

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- a. 1959ம் வருடத்திய தமிழ்நாடு சிறு கனிம சலுகை விதிகள், அட்டவணை-!!ல் கண்டுள்ளபடி குவாரி செய்யப்படும் கனிமங்களுக்குரிய சீனியரேஜ் தொகையினை அவ்வப்போது செலுத்தி கனிமம் கொண்டு செல்லப்பட வேண்டும்.
- அருகிலுள்ள பட்டா நிலங்களுக்கு 7.5 மீ பாதுகாப்பு இடைவெளியும்
 விட்டு குவாரிப் பணி மேற்கொள்ள வேண்டும்.

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எந்த c. அனுமதி கோரும் புலத்தைச் சுற்றியுள்ள விளைநிலங்குறக்கு கிருஷ்ணகிரி வித பாதிப்பும் ஏற்படாமல் குவாரிப் பணி மேற்கொள்ள வேண்டும் மற்றும் கார

சுரங்கத்திட்டத்தினை d. விதிகளின்படி ஏற்பளிக்கப்பட்ட காலத்திற்குள் சமர்பிக்க வேண்டும்.

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- e. குவாரி உரிமம் வழங்க உள்ள பகுதிக்கு சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் முன் அனுமதி பெற்று சமர்பிக்கும் பட்சத்தில் மட்டுமே குவாரி உரிமம் வழங்கப்படும்.
- f. குவாரி குத்தகை கோரி விண்ணப்பித்துள்ள புலத்திற்கு செல்ல அணுகு பாதை அமைந்துள்ள பட்டா நிலங்களின் உரிமையாளர்களிடம் முறையாக அனுமதியினை விண்ணப்பதாரர் தனது சொந்த செலவில் பெற்றுக்கொள்ள வேண்டும்.
- g. வரைபடத்தில் துறை ரீதியாக பரிந்துரைக்கப்பட்ட இடத்தில் வெட்டி எடுக்கப்படும் சாதாரண மண்ணை ஒவ்வொரு லோடு கனிமத்திற்கும் உண்டான தொகையை செலுத்தி உரிய நடைச்சீட்டு பெற்று கனிமம் சென்றடையும் இடம் பூர்த்தி செய்த பிறகு மட்டுமே கனிமத்தை வெளியே கொண்டு செல்ல வேண்டும்.
- h. அனுமதிக்கப்படும் கனமீட்டர் அல்லது அனுமதிக்கப்பட்ட உரிமம் முடிவடைகிறதோ அப்போது முன்னதாக இதில் எது காலாவதியானதாக கருதப்படும்.
- வித்தியாச உரிய கனிமத்திற்கு செல்லப்படும் i. எடுத்துச் காலங்களில் கணக்கிடு பின்வரும் கனிமத்தொகை ஏதும் செய்யப்பட்டால், அவற்றை தவறாமல் செலுத்தப்பட வேண்டும்.
- j. பொதுமக்களுக்கோ போக்குவரத்திற்கோ எவ்வித இடையூறுமி<mark>ன</mark>்றி மண்ணை வாகனங்களின் மூலம் தார்பாய் இட்டு கொண்டு செல்ல வேண்டும்.
- k. இந்த அனுமதியை பயன்படுத்தி அருகிலுள்ள பட்டா / அரசு புலங்களிலிருந்து சாதாரண மண்ணை வெட்டி எடுக்கக் கூடாது.

 அனுமதிக்கப்படும் புலத்தின் சாதாரண மண் தவிர வேறு கனிமங்கள் ஏதேனும் இருந்தால் அதை வெட்டி எடுத்து செல்லக் கூடாது.

m. விதிமீறல்கள் ஏதேனும் கண்டறியப்படின் குத்தகை உரிமம் ரத்து

செய்யப்படும்.

துணை இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை, கிருஷ்ணகிரி.

பெறுநர்:

M/s. R.K.M Sand and Aggregates, Prop. Thiru. D.Ravikumar, Villa No. 126, Adarsh Palm, Retreat Villas, Devarabisanahalli, Bengalore, Karnataka - 560 103. Shr 25.11.24

நகல்:

- 1. ஆணையர், புவியியல் மற்றும் சுரங்கத்துறை, சென்னை.
- 2. மாவட்ட ஆட்சித் தலைவர், கிருஷ்ணகிரி தகவலுக்காக.

S.DHANASEKAR, M.Sc., (Geo)

Qualified Person

நாக்கு**நர் அலுவு** ச Distric : Krishnagiri Taluk : Soolagiri Village No : 70 Name : Miditheypalli S.No : 70 Area: Hec Ars 1 8:0FC° 2024 கிருஷ்ண கிரி மற்றும் காங் 85 IĘ **⊕**130 到海 I<u>AICI</u> EAZA 82 1320 RIC Village Administrative Officer 70, IMIDITHEPAS LEVIS. Shoolaghi-Ik. Wishnagiri-

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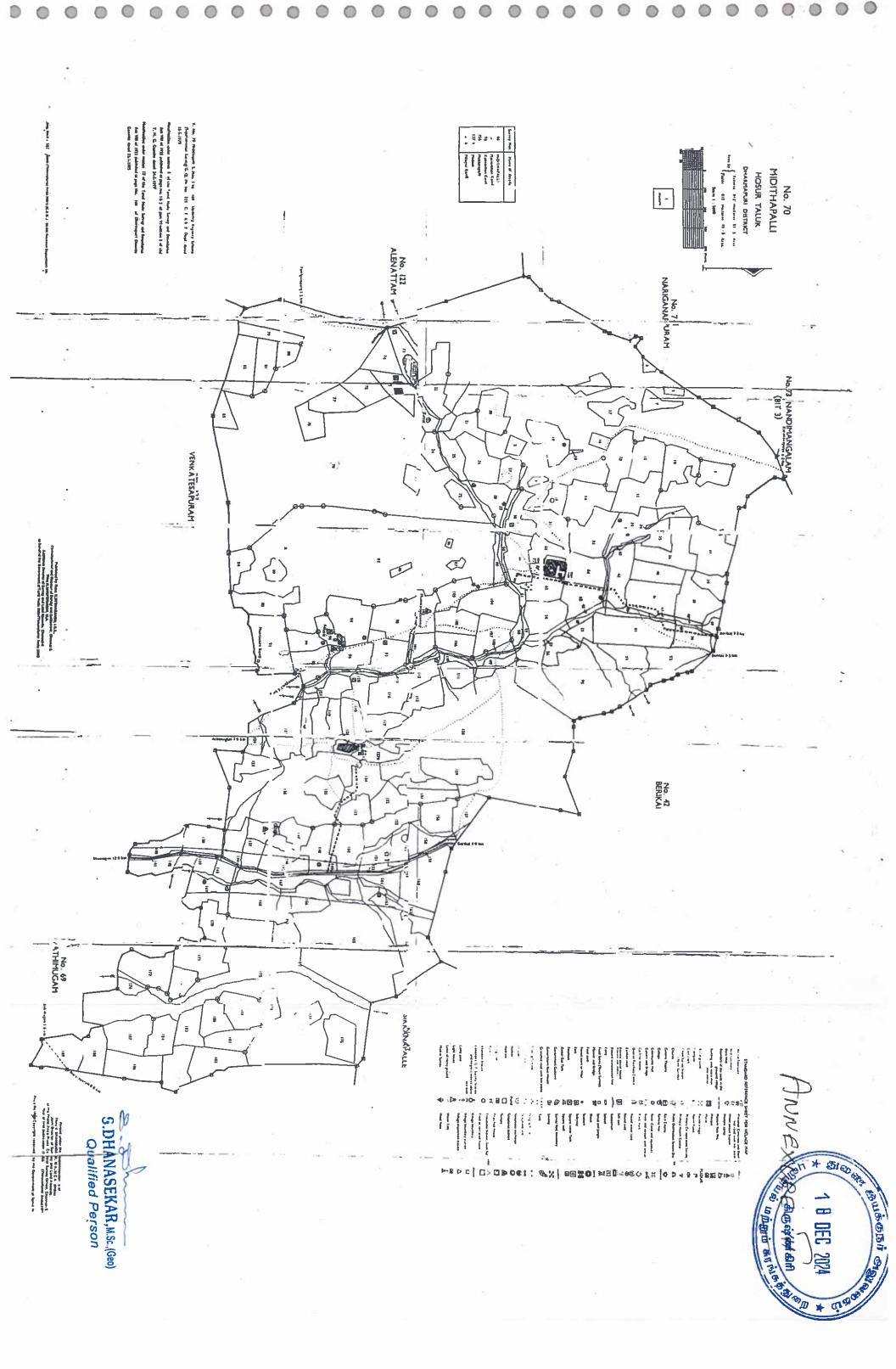
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j.DHANASEKAR, M.Sc., (Geo)

Qualified Person



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தமிழ்நாடு அரசு

வருவாய்த் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

கிருஷ்ணகிரி வட்டம் : சூக்கில் மற்றும் கூ

பட்டா எண் : 985

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மாவட்டம் : கிருஷ்ணகிரி

வருவாய் திராமம் : மிடிதேபள்ளி

உரிமையாளர்கள் பெயர்

1.	VENKATAIAH	மகன்	D .RAVI KUMAR

புல எண்	உட்பிரிவு	ிவு புன்செய்		நன்	செய்	மற்ற	ഞഖ	குறிப்புரைகள்
		பரப்பு	தீர்வை	பரப்பு	தீர்னவ	பரப்பு	தீர்வை	
		ஹெக் - ஏர்	ரு - பை	ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரு - பை	
70	4A	0 - 43.32	0.27					2024/0105/31/549183 -2024/31/11/000200S 20-02-2024
		0 - 43.32	0.27					

குறிப்பு : மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து 1. பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 31/11/070/00985/180062 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும். இத் தகவல்கள் 06-11-2024 அன்று 12:54:00 PM நேரத்தில் அச்சடிக்கப்பட்டது. 3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

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தமிழ்நாடு அரசு

வருவாய்த் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

மாவட்டம் : தெருஷ்ணதிரி

வட்டம் : சூளகிரி

வருவாய் கிராமம் : மிடிதேபள்ளி

பட்டா எண் : 984

உரிமையாளர்கள் பெயர்

மகன்

Δ.	v	EINNAIMIAH	
111	ស សាល់ទ	உட்பிரிவ கட்பிரிவ	

D .RAVI KUMAR

1 B DEC 2024

கிருஷ்ணகிரி

டிரும் மற்றும் கார்

புல எண்	உட்பிரிவு	புன்	செய்	நன்	செய்	மற்ற	ഞഖ	குறிப்புரைகள்
		பரப்பு	தீ ர்வை	பரப்பு	தீர்வை	பரப்பு	தீர்வை	
		ஹெக் - ஏர்	ரு - பை	ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	
70	5В	3 - 33.35	2.07					2024/0105/31/549173 -2024/31/11/00019950 20-02-2024
		3 - 33.35	2.07					

குறிப்பு :



மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து 1. பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 31/11/070/00984/180051 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

இத் தகவல்கள் 06-11-2024 அன்று 12:55:50 PM நேரத்தில் அச்சடிக்கப்பட்டது.

3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

_															10 10		823 OF	200	3 2	நில அளவை என். உட்பிரிவு என்.	T S	164
					-		2.			+	+					1.00	0		3	սրմւկ.	வரித் ¢	28.ii
		-		-		**						+		+			0.0		(4)	தீர்வை,	நில வரித் தீட்டத்தின்படி புலன்களின் வியரம்.	ക്കിനില്
																	महिम	a a	9	ஒரு போகம் அவ்வது இரு போகம்.	Jeirus Lyrio	
			-1													KUMAR	D RAVI		(6)	கைப்பற்று தார்குடைய பெயகும் என்னும் அல்லது அனுபோக தார்குடைய பெயர்.		1434 ஆம் பசலியில் இதை கூடுமை
																			3	நிலத்தின் எந்த பகுதி யாவது சாகுபடியாளரால் பயிரிடப்பட்டுள்ளதா.	Uranier Ouuri	
			2										-						(8)	எந்த பாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது.		Hornes &
												-	270			1			9	ப யிரின் பெயர்.	முதல்	ð
											न्त्र ।		14	-					(10)	பயிரான /அறுவடை யான பரப்பு.	முதல் போகம்.	வட்டங்
											MINTING.	DITTE O) 80						3	உண்மையான பாய்ச்சல் ஆதாரம்.		Lin To- Liberta Langue
							9				Tien	#							(12)	விளைச்சல் அளவு விழுக்காடு.		F
+	+	+		+	+	+	+	+											No. of Add	ந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது.	900	ள 2 ஈமத்தில்
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t		+	+	+	+	+	+	+						5		13			SAM	ண்மையான பாய்ச்சல் ஆதாரம்.	CLITATIO	OH M
\dagger	1		+	\dagger	+	+	1	1											200.000	இதாரம். விழுக்காடு.		Herein
																			(a)	பரம் அதுவவின் குறிப்புறை () புலன்களின் பகுதிகளில் பெ பயிலிடப்பட்ட இனங்களி லிங்குகள் அளவில் 2) கைப்பற்றில் இல்லாத நி கனின் சாகுபடியின் பரப் தன்மையும் 3) முந்தைய மாதத்தில் பாய் உதவியின்றி பகிகிடப்பட்டன	PERSONAL PROPERTY AND ADDRESS OF	என் 2 கிராமத்தில் வருடவாரி புலவாரி கைப்பற்று சாகுபடி
			+		+	-		-			-		5							Secretarian Proposition of the control of the contr	inflat Light de an	அடங்கல் க
			a a				3												(16.81)	ம். (ஆ) மான்ற மூர் செய்யு தில். இ விவசாயக் மற்றுக் எறியிக்குக்கு விவசாயக் மற்றுக் இவர். அ) மூரிடத்தக்க திரு கையான புல் தரைக்கும். இதர மேர்ச்சல் நிலங்களும், இதர மேர்ச்சல் நிலங்களும், இதர மேர்க்சல் நிலங்களும், இதர மேர்வகைப் பயிர்களும் கும், (எ) நடப்புத் தரிக்கள்	படவகவில் பயிக் நிர இறந்தின் நக்கைப் விறந்தின் நக்கைப்	Se S

நில வரித் திட்டத்தின்படி புலன்களின் விபரம்.	O.F.	பானரின் பெயர்.	முதல் போகம்.			இரண்டாம் போகம்.		பற்று சாகுபடி அடங்	கண்ட்டிகையில் பூ
 இ நில அளவை எண். உட்பிரிவு எண். பரப்பு. தீர்வை. ஒரு போகம் அல்லது இரு போகம். 	கைப்பற்று தார்குடைய பெயரும் என்னும் அல்லது அனுபோக தார்குடைய பெயர்.	நிலத்தின் எந்த பகுதி யாவது சாகுபடியாளரால் பயிரிடப்பட்டுள்ளதா. எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது.	் பயிரின் பெயர்.	a cita constituta	எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது.	பயிரின் பெயர். பயிரான / அறுவடையான பரப்பு.	உண்மையான பாய்ச்சல் ஆதாரம். விளைச்சல் அளவு விழுக்காடு.	கிராம அலுவலரின் குறிப்புரை : (1) புலன்களின் பகுதிகளில் மட்டும் பயிரிடப்பட்ட இனங்களில் லிங்குகள் அளவில். (2) கைப்பற்றில் இல்லாத நிலங் களின் சாகுபடியின் பரப்பு தன்மையும் 3) முந்தைய மாதத்தில் பாய்ச்சல் உதவியின்றி பயிரிடப்பட்டவை என்று பதிவாகியுள்ள நிலங்- களுக்கு பிந்தைய மாதங்களில் நீர் பாய்ச்சப்பட்ட விவரங்கள்.	பரப்பின் முற்றின் இருவருகள் இருவருக
10				(12)	(13)		9 (77)	(18)	(18.2)
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அ-பதிவேடு விவரங்கள் - ஊரகம்

மாவட்டம் : கிருஷ்ணகிரி

வட்டம் : சூளகிரி

கிராமம் : மிடிதேபள்ளி



1. புல எண

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9. மண் வயனமும் ரகமும்

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2. உட்பிரிவு எண்

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10. மண் தரம்

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3. பழைய புல உட்பிரிவு எண்

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11. தீர்வை (ரூ - ஹெ) 0.62

4. பகுதி

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12. பரப்பு (ஹெக்டேர் - **0 - 43.32**

5. அரசு / ரயத்துவாரி

ரயத்துவாரி

13. மொத்த தீர்வை (ரூ

0.27

6. நிலத்தின் வகை

புஞ்சை

14. பட்டா எண்

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7. பாசன ஆதாரம்

15. குறிப்பு

- பை)

8. இரு போகமா

16. பெயர்

1.D .RAVI KUMAR

குறிப்பு:



மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிவிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 31/11/070/70/4A/160062 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

அ-பதிவேடு விவரங்கள் - ஊரகம்

மாவட்டம் : இருஷ்ணகிரி

வட்டம் : சூளகிரி

கிராமம் : மிடிதேபள்ளி



1. புல எண்	70	9. மண் வயனமும் ரகமும்	8 - 3
2. உட்பிரிவு எண்	5B	10. மண் தரம்	5
3. பழைய புல உட்பிரிவு எண்		11. தீர்வை (ரூ - ஹெ)	
4. பகுதி		12. பரப்பு (ஹெக்டேர் - ஏர்)	
S. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த தீர்வை (ரூ - பை)	2.07

7. பாசன ஆதாரம்

புஞ்சை

8. இரு போகமா

6. நிலத்தின் வகை

15. குறிப்பு

16. பெயர்

14. பட்டா எண்

1.D .RAVI KUMAR

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குறிப்பு:

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மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து

1. பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற
இணைய தளத்தில் 31/11/070/70/5B/160051 என்ற குறிப்பு எண்ணை உள்ளீடு
செய்து உறுதி செய்துகொள்ளவும்.

S.DHANASEKAR, M.Sc., (Geo)

Qualified Person



தமிழ்நாடு तमिलनाडु TAMILNADU (2:1000) 4.8. 2023 D. Ravikuman T. SRINIVASAN
B.V. Dence No: 3925/B1/2000
Bangalone-36 St. Dolagiri-Tk, Krishnagiri-Dt.

BE 142351

ABSOLUTE SALE DEED

THIS DEED OF ABSOLUTE SALE IS MADE AND EXECUTED AT SHOOLAGIRI ON THIS THE 04th DAY OF AUGUST 2023

"BETWEEN"

- 1) Mrs.H.Lavaniya (Aadhar No.4545 2578 6030) No.AHWPL6103C) aged about 38 years W/o.A.V.M. Hemnaath, residing at No. 3/564-1, Athimugam village and Post, Shoolagiri Taluk, Krishnagiri District. (Cell No.93631 13366)
- 2) Mr.M.N.Ravi Khumarr (Aadhar No.5055 5661 1674) aged about 27 years S/o.Late. Nagabhushan M.C. residing at No.194/18, Ist Floor, Prasanthi Nilayam, VLT Jalagandeshwarar Nagar, Opp.Anand Electronic, NH Road, Hosur Town and Taluk, Krishnagiri District. (Cell No.93631 15599) (PAN:CBKPR0926F)

VENDORS

VENDEE

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From okhumon M.N

G. P.A. HSCAT Document No. 2513

C. Make Mr. Contains 32

Document No. SSI 3 of 2023 of Book

Registering Officer

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1 B DEC 2024
3) Mr. N. Shekar Reddy, S/o. Late. H. Narayana Reddy, agus about 43
years, residing at No. 111, "Akshya Nivas" H.N.R Layout, Kalifara about 43
village, Carmalaram Post, Varthur Hobit, Bangalore-560 035, Kalifara Bongia and State. Represented by his registered General Power of Attorney holder
Mr. S.Manikandan (Aadhar No.8046 6932 8404) & (PAN No.AJBPM4136B) S/o.Sampangiraman, aged about 39 years residing at No.1525/5-25, Lingayath Street, Berigai village and Shoolagiri Taluk, Krishnagiri District, vide registered General Power of Attorney deed dated 20.06.2016, vide Doc. No.2654/2016 of SRO Shoolagiri.

0-

4) Mr.S.SIVAPPA @ SIVA (Aadhar No.6936 6295 0838) & (PAN:FJUPS7864G) aged about 32 years S/o.Sakkappa. residing at No.2/239, Alusonai Village, Peddasigarlapalli Post, Shoolagiri Taluk, Krishnagiri District. Mobile No.90037 89536

(Hereinafter called the "VENDORS/SELLERS") which expression shall unless and otherwise requires the context includes, their legal heirs, successors, agents, representatives and assigns of the ONE PART.

AND IN FAVOUR OF

Mr.D.Ravi Kumar (Aadhar No.5271 0811 7760) aged about 51 years S/o.Venkataiah, residing at No.17/18, Sapthagiri Nilaya, Near Vinayaka Temple, KR Puram, Vinayaka Nagar, Bangalore North, Krishnarajapuram, Bangalore, Karnataka- 560 036. (Cell No.98450 42149) (PAN:ADDPR1752Q) (Hereinafter called "the VENDEE/PURCHASER") which expression shall unless and otherwise requires the context include, his legal heirs, successors, agents, representatives and assigns of the OTHER PART.

Whereas an extent of Ac.1.07 cents along with larger area in main Sy.No.70/1A1 and subdivision Sy.No.70/4 (item No.1 of the schedule mentioned property) of Midithepalli village of Shoolagiri Taluk belongs to vendor No.1 H. Lavaniya W/o.A.V.M. Hemnaath as her separate and self acquired property, having been earlier purchased by her under a registered Sale deed dated 27.06.2018 (regd. as Doc. No.2752/2018 of SRO Shoolagiri) from the previous owners Gurrappa @ Gullappa and others.

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And whereas an extent of Ac.8.23 cents along with larger area in main No.70/1A1 and subdivision Sy.No.70/5 (item No.2 of the schedie மன்றன்கிகி property) of Midithepalli village of Shoolagiri Taluk belongs to version begins Shekar Reddy S/o. Late. H. Narayana Reddy as his separate and self acquired property, having been earlier purchased by him under a registered Sale deed dated 24.11.2014 (regd. as Doc. No.5151/2014 of SRO Shoolagiri) from the previous owners Muniyappa @ Annaiah and others. From the date of purchase the vendor No.3 N. Shekar Reddy is in possession and enjoyment of the same and he had also entered as separate pattadhar in the revenue records under patta No.464.

And whereas the vendor No.3 N. Shekar Reddy had executed a registered General Power of Attorney in favour of S.Manikandan S/o. Sampangiramaiah, under a registered General Power of Attorney deed dated 20.06.2016 (Regd. as doc. No.2654/2016 of SRO Shoolagiri) thereby authorising and empowering him to sell the above said property on behalf of him.

And whereas the vendor No.2 had also claim same property in Sy. Nos.70/1A1 and 70/5 and he purchase the same from Gurrappa @ Gullappa and others under a registered sale deed dated 31.07.2018 (Regd. as Doc. No.5388/2018 of SRO Shoolagiri).

And whereas the vendor No.4 (S.Sivappa @ Siva) had also claim same property in Sy. No.70/5 and he purchase the same from R.Anandareddy under a registered sale deed dated 24.02.2016 (Regd. as Doc. No.1011/2016 of SRO Shoolagiri).

And whereas the vendor No.2 claim item No.2 of the schedule mentioned property as per sale deed Doc. No.5388/2018 and similarly vendor No.3 claim same property as per sale deed Doc.No.5151/2014 and similarly vendor No.4 claim same property as per sale deed Doc.No.1011/2016 and hence there is an rival claim between vendor Nos.2,3 and 4 with respect to item No.2 of the schedule mentioned property and hence in order to convey valid right and title over the same and

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also in order to avoid any future claim or dispute the vender-Nos.2)38 DEC 2024 and 4 have jointly execute this deed of sale with respect to item Note of the schedule mentioned property, along with vendor No.1, she entitled to a No.1 of the schedule mentioned property in favour of the vendee.

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Thus, the vendors have got good, valid, absolute and marketable title over the schedule mentioned properties and they are legally and lawfully entitled to sell the same to the vendee.

And Whereas, the vendors have agreed to sell absolutely to the vendee the under schedule mentioned properties for valid and proper sale consideration amount of Rs.31,15,500/- (Rupees Thirty One Lakhs Fifteen thousand and Five Hundred only) in order to discharge their sundry debts and also to purchase other properties, family necessities and benefits.

And whereas, vendee has also agreed to purchase the schedule mentioned properties from the vendors. And in pursuance of the sale talk, the vendor Nos.1 and 2 and vendee have also entered into registered sale agreement dated 13.12.2018, (Regd. as Doc. No.6110/2018 of SRO Shoolagiri) thereby agreeing to sell the schedule mentioned properties for total sale consideration amount of Rs.31,15,500/- (Rupees Thirty One Lakhs Fifteen thousand and Five Hundred only) and the vendors have also received an advance amount of Rs.5,00,000/- (Rupees Five Lakhs only) by way of Cheque bearing No.000973 dated 17.12.2018 of Canara Bank, Krishnarajapuram Branch, Bengaluru infavour of Vendor No.1 Lavaniya and the vendors have agreed to receive the balance sale ggnsideration amount of Rs.26,15,500/- (Rupees Thirty Seven Lakhs wenty thousand only) at the time of the execution and registration of the sale deed by way of CHEQUES/Cash and now in pursuance of the above said sale agreement the vendors execute this deed of sale in the following manner:

Now this deed of sale witnesseth, that in pursuance of the sale talk the vendors have this day received the balance sale consideration amount of Rs.26,15,500/- (Rupees Thirty Seven Lakhs Twenty thousand only) from the vendee by way of CHEQUES/Cash in the following manner:a) Rs.10,00,000/- (Rupees Ten Lakhs only) by way of Cheque bearing No.000152 dated 04.08.2023 of ICICI Bank, Old Airport Road Branch, Bangalore, in the name of vendor No.2 Mr.M.N.Ravi khumarr.

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Bung Bir Grand h) Rs.5,00,000/- (Rupees Five Lakhs only) by way of Chequie bearing No.000153 dated 04.08.2023 of ICICI Bank, Old Airport Rose Branch முன்னைகிரி Bangalore, in the name of Geneal Power of Attorney Holder மற்றும் கரங்க Mr.S.Manikandan on behalf of Principal Vendor No.3 N.Shekar Reddy

c) Rs.2,00,000/- (Rupees Two Lakhs only) by way of Cash to Geneal Power of Attorney Holder Mr.S.Manikandan on behalf of Principal Vendor No.3 N.Shekar Reddy

d) Rs.9,15,500/- (Rupees Nine Lakhs Fifteen Thousand and Five Hundred only) by way of Cheque bearing No.000154 dated 04.08.2023 of Old Airport Road Branch, Bangalore, in the name of vendor No.4 Mr.S.Sivappa @ Siva.

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and thus the vendors does hereby acknowledge that the entire sale consideration amount has been duly received from the Vendee in the above said manner and in consideration thereof, the vendors do hereby convey, transfer, assign and sell absolutely the schedule mentioned properties for the absolute use of the vendee together with all rights easements, privileges and appurtenances whatsoever belonging to or enjoyed there under and reputed so to be. All the rights, title, easements, interest, properties claim and demand whatsoever of the vendors into or upon the under schedule mentioned properties are hereby conveyed absolutely unto the vendee free from all encumbrances, charges, liens and demands whatsoever by the vendors.

The vendors do hereby covenant and agree that the vendors and all persons claiming under them shall and will from time to time upon the request and at the cost of the vendee does and execute or cause to be done and execute all such acts, deeds and things whatsoever for further and more perfectly assuring the under mentioned schedule properties and every part thereof according to the true intent and meaning of these presents, as shall or may be reasonably required.

It is hereby covenanted by the vendors that the under mentioned schedule properties hereby conveyed are free from all encumbrances, charges, liens or demands or litigations of any sort and the vendors do hereby assure and covenant that they have not suppressed any material facts affecting the title to the properties hereby conveyed and they covenant and undertake to clear any defect or encumbrance affecting

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the schedule mentioned properties if come to light after the exception of the sale deed at their own cost and fully protect the vendee in all respects. The vendors do hereby assure and covenant that they have not entered up into any earlier agreement of sale with respect to the under mentioned schedule properties or any part thereof, with any other person or persons and the vendors have not done anything whereby the schedule mentioned properties may be subject to any attachment or lien of any court or person or any claim whatsoever in any manner detrimental to the vendee. The vendors also covenant that they have fully and correctly disclosed all the relevant information pertaining to the schedule mentioned properties and the source of title and other details relevant for the sale of properties without any omission or suppressing any details in any respect in this behalf.

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The vendors do hereby covenant and assure that the schedule mentioned properties are not notified or subject to any proceedings under the Land Acquisition Act, for any purpose and they do not hold land in excess of Tamil Nadu Land Reforms Act 1961, and that the sale will not be hit by any provisions of the above said Act. The schedule mentioned properties are not hit by any Provisions of the Tenancy Laws or other enactments in any manner and also not hit by any lispendens or any claim from any minors.

The vendors do hereby admit and covenant that the absolute full and actual physical possession of the schedule mentioned properties are also delivered to the vendee on this day itself and the vendee is also absolutely entitled to apply to the Revenue Authorities for transfer of Patta in her name and the vendors do hereby give their full consent for the transfer of Patta or change of Patta or change of registry in the revenue accounts in the name of vendee with respect to the properties sold hereunder. The vendors have also paid the revenue to the schedule mentioned properties without any arrears and the vendee shall hereafter pay the Land Revenue, Cess, etc., to the Government in her own right. The vendors have also handed over the original title deeds to support their title of the schedule mentioned properties.

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1 B DEC 2024 The vendors do hereby covenant and assure that they agree and undertake to indemnify the vendee against all claims and demand at disputes of any sort with respect to the schedule mentioned properties in all respects in the schedule mentioned properties all the schedule ment all times.

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SCHEDULE OF PROPERTIES

In MIDITHEPALLI VILLAGE, of Shoolagiri Taluk attached to Shooalgiri Sub Registration District, Krishnagiri Registration District of Krishnagiri District the lands :-

1) Sy. No.70/1Dry Extent of Hec.38.42.5m Asst Rs. 23.74 np., Survey Number: 70/1A1, Dry Ext. Hec.21.60.0 land further sub divided as Survey Number: 70/1A1A, Dry Ext. Hec.12.03.0, Asst Rs.7.46 np. land, now sub divided as new SURVEY NUMBER 70/4, Dry Extent Hec. 1.53.0 (or) Ac.3.78 cents, Asst Rs. 0.95 np., in this Ac.1.07 cents, bounded as follows:-

East :

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Land in Sy.No.70/1C

West:

Land in Sy.No.81

North:

Land in Sy.No.70/5

South:

Land in Sy.No.81 and Remaining Land in same Survey Number

2) Sy. No.70/1 Dry Extent of Hec.38.42.5m Asst Rs. 23.74 np., Survey Number: 70/1A1, Dry Ext. Hec.21.60.0 land further sub divided as Survey Number: 70/1A1A, Dry Ext. Hec.12.03.0, Asst Rs.7.46 np land now sub divided as new SURVEY NUMBER 70/5, Dry Extent Hec. 8.10.0 (or) Ac.20.00, Asst Rs. 5.02 np., in this Ac.8.23 cents, bounded as follows:-

East :

Land in Sy.Nos.70/1C and Sy.No.70/1A1A

West:

Remaining land in Sy. No.70/5 and Land in Sy.No.80

North:

Land in Sy. Nos.70/1A1A and 70/5

South:

Sy.Nos.80 and 70/4

Both together making total extent of Ac.9.30 cents of land.

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THE SAID PROPERTIES COMES UNDER THE PANCHAYAT (LEMATS) OF DEC 2014 ATHIMUGAM AND UNION COUNCIL OF SHOOLAGIRE

Minusi windia en திருஷ்ணகிரி THE PRESENT MARKET VALUE OF THE PROPERTIES ARE Rs.37,20,000 IN WITNESSES WHEREOF THE VENDORS AND VENDEE HAVE SIGNED THIS DEED OF SALE ON THIS THE 04th DAY OF AUGUST 2023 AT SHOOLAGIRI.

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1. N. Alwelt. (Mr.Aswath) S/o.Nethappa, No.1/271, Guttalapalli Village, Venkatesapuram Post, Shoolagiri Taluk, Krishnagiri District. (Aadhaar No.9244 7386 7663)

2. ₩· (Mr.Gopi) S/o.Nagappa, No.233, Sivashankaranpalli Village, Kalingavaram Post, Shoolagiri Taluk, Krishnagiri District. (Aadhaar No.9122 9768 5504)

DRAFTED BY:-



R. soulear. DOCUMENT WRITER LICENCE No.B2/K.S.G/2014 SHOOLAGIRI. Mobile No.9443512684

Document No Regiziering Officer

PREVENTION OF UNDER VALUATION OF DOCUMENTS UNDER 1 8 DEC 2024 SECTION 3(1) OF MADRAS STAMP ACT

MIDITHEPALLI VILLAGE SHOOLAGIRI TALUK, KRISHNAGIRI DISTRICT

		MIDITHEPA DLAGIRI TALUK, H	LLI VILLAGE	DISTRICT	கிருஷ்ணகிரி மற்றும் காங்கீ
SI. No.	Survey No.	Extent in acres	Nature of Land	Value Rs.	
1	70/4	1.07	Dry	Rs. 4,28,000/-	
2	70/5	8.23	Dry	Rs.32,92,000/-	
	TOTAL	9.30		Rs.37,20,000/-	

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DECLARATION

Declaration for non-encroachment of land in water-Bodies I/We hereby certify that schedule of property mentioned in this document is not encroached in any wated bodies, water passages, catchment areas of water baides. information/declaration issued is found false in future, i/we know that we shall be liable for disciplinary action taken by law.

VENDOR/VENDOR'S

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உற்துமொழி

இந்த ஆவணத்தை எழுடுக் கொடுப்பவர்களும், எழுதிப்பெறுவர்களும் கீழ்க்கண்ட உறுதி மொழியை அளிக்கின்றோம்.

வழக்கிடை ஆவண சொத்து பநிவுச்சட்டம் 1908 பிரிவு 22(A) மற்றும் 22(B)-க்கு உட்பட்டதல்ல எனவும், ஆவணத்துடன் இணைக்கப்பட்ட அனைத்து ஆவணங்களும் இந்திய தண்டனை சட்டம் 1860 பிரிவு 470-ன் படி Forged Document அல்ல எனவும், ஆவணத்தை எழுதிப்பெறுபவர் அனைத்து ஆவணங்களையும் பரிசீலித்து வில்லங்கம் எழுதிப்பெறுகிறார் எனவும், சொத்து மாற்றுச் சட்டம் 1882-ன் படி சொத்து பரிமாற்றம் தொடர்பான அனைத்து பிரிவுகளுக்கும் உட்பட்டு செயல்பட்டுள்ளோம். எனவும் உறுதிமொழி அளிக்கின்றோம்.

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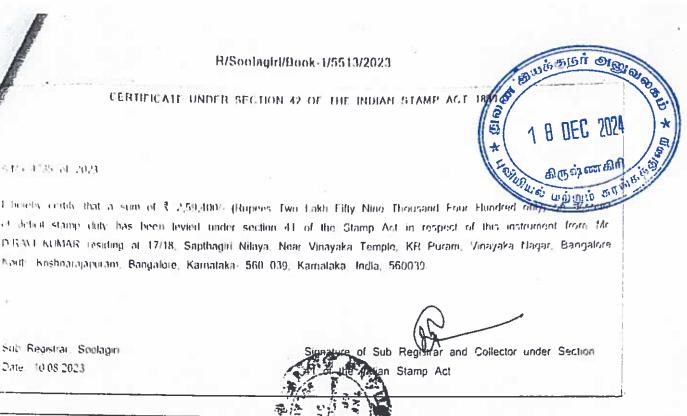
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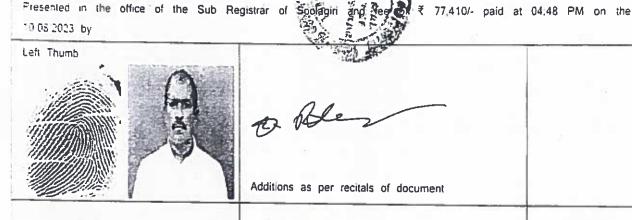
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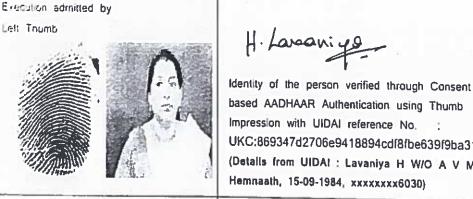
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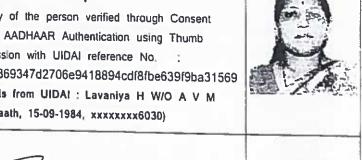
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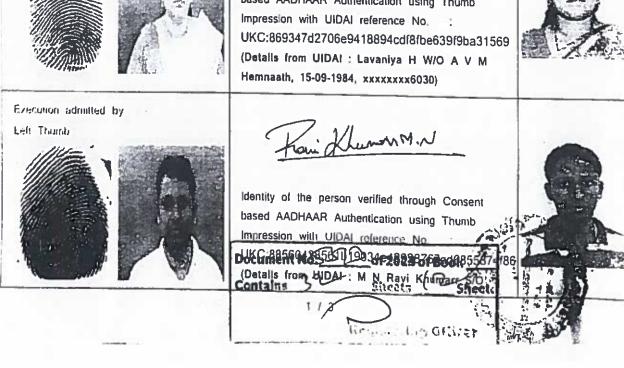
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Identity of the person verified through Consent based AADHAAR Authentication using Thomb Impression with UIDAI reference No UKC:7499374h5cd2658cfa4354bc006891bd79647b (Details from UIDAI : Manikandan Sampangiraman S/O: Sampangiraman, 06-09-1982, xxxxxxxx8404)



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15" day of August 2023

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paneerselvam Sub Registrar Sootagiri R/Soolagirl/Book-1/5513/2023

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Sub Registrar

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வருவாய்த் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

மாவட்டம் : கிருஷ்ணகிரி

வட்டம் : சூளகிரி

பட்டா எண் : 525

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வருவாய் கிராமம் : மிடிதேபள்ளி

8 - 10.00

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உரிமையாளர்கள் பெயர்

10	தர்ரப்பா	யகள்	குர்ரப்பா (எ)குள்ளப்பா
2.	சூர்ரப்பா	மகன்	கோவிந்தப்பா
3.	சீனப்பா	மகள்	கமலம்மா
4	சீனப்பா	மகள்	குர்ரம்மா
5.	சீனப்பா	மகள்	தனம்மா
ó.	சீனப்பா	மகள்	கௌரம்மா
7.	சாவித்திரியம்மா	மகன்	முரளிமோகன்

மகள் உஷா சாவித்திரியம்மா குறிப்புரைகள் மற்றவை நன்செய் புன்செய் புல எண் உட்பிரிவு **தீ**ர்வை பரப்பு தீர்வை பரப்பு **நீ**ர்னவ பரப்பு ஹெக் -ஹெக் -ஹെக் -ക്ര - ബെ ரூ - பை ரு - பை ஏர் ஏர் वगं 2016/0103 /31/023960--756/1423 8 - 10.00 5.02 5 70 -- 27-12-2016

குறிப்பு2 :



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- 1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 31/11/070/00525/140062 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
- இத் தகவல்கள் 04-08-2023 அன்று 02:17:01 PM நேரத்தில் அச்சடிக்கப்பட்டது.
- 3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

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தமிழம். அரசு

முகையூ ஆப்பாகதும

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

மாவட்டம் : கிருஷ்ணஙிரி

வட்டம் : சூளகிரி

வருவாய் டிராமம் : மிடிதேபள்ளி

பட்டா என் : 594

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உரிமையாளர்கள் பெயர்

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		பரப்பு	தர்வை	பரப்பு	தீர்வை	பரப்பு	தீர்வை	
		ஹெக் - ஏர்	ரு - பை	ஹெக் - ஏர்	ரு - பை	ஹெக் - ஏர்	ஒ - பை	
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- 1 மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 31/11/070/00594/140058 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
- 2.! இத் தகவல்கள் 04-08-2023 அன்று 02:18:02 PM நேரத்தில் அச்சடிக்கப்பட்டது.
- 3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

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Registering withcen



LIFE CERTIFICATE FOR THE PURPOSE OF DOCUMENTS BASED OF FOWER OF N. Shekar Reddy Slot styl BEC 2014 No.111 "Alebhaya Ni Vas" kai kondrahalli (v) Carmalaram (Po) Varthur Hobil: Bangalore - 5600 35 Oll-- SIGNATURE OF THE INDIVIDUAL Certified that the individual name Shri/Smt. Ms S/o. address. Who has singed in my presence and whose photo has been attested by me, is alive, as on this date. Name:-UMA KUMAR Dr. UMA KUMAR, MBBS MS. (DEG) Consultant Obstatrician & Gyr Designation of Registered Medical Reg. No. 82644 Practitioner with registered No./ 'A 'group officer Seal/No. Regd 82644 of Practioner/'A' Group officer Place: HOSUR Date: FOUR - ZERO EIGHT - Two Thousand TWENTY THREE (in words) ID No. for Group 'A' group Officers should be their GPF No. / PAN Card No. / Aadhar No./Voter ID. The Medical Practitioner/'A' group Officer should attest the Photo of the individual and half of the Signature should be on the Photo and other half on this paper. D-02.02.2013 at 2023 at Book neral of Registration

វៀល ១.L.សាក ប**៉ោ ។ ម៉ែកសំព្**ពសាញមើម្រិះ

கிருஷ்ணகிரி மாவட்ட வருவாய் அலுவலர் அவர்களின் செயல்முண்றகள் இ DEC 2024 abenienjemur: After in upakte

ப.மு. எண். 31822/2013/ஜே 2

பொருள் : நில உடமை புதிவு மேம்பாட்டு திட்டம் மேல்முறையிடு - கிருஷ்ணகிரி மாவட்டம் புல எண்.70/1-க்கு பட்டா - சூளகிரி வட்டம் - மிடிதேப்பள்ளி கிராமம் -வழஞ்கக் கோரி முகளூர் கிராமத்தை சேர்ந்த திரு கோவிந்தப்பா என்பவர் அளித்த மனு உத்தரவு பிறப்பித்தல்.

original Ordinates

திருஷ் ணகிரி

1. திரு.கோவிந்தப்பா என்பவர் மனு நாள் 23.12.2013 (ம) 21.4.2016 படிக்க

2. மற்றும் தொடர்புடைய கட்டுகள்.

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கிருஷ்ணகிரி மாவட்டம், ஒசூர் வட்டம், முகளூர் கிராமத்தை சேர்ந்த திரு கோவிந்தப்பா என்பவர் சூளகிரி வட்டம், மிடிதேப்பள்ளி கிராமம், புல எண். 70/1-ல் நில உடமை மேம்பாட்டு திட்டத்தில் திருத்தம் கோரி மனு செய்துள்ளார். இதன் பேரில் மனுதாரர் மற்றும் எதிர் மனுதாரர் 26.04.2016 அன்று விசாரணைக்கு அழைக்கப்பட்டனர். 26.04.2016 தேதிய விசாரணைக்கு தி/ள். கோவிந்தப்பா த/பெ குர்<mark>ரப்பா (1), மு</mark>ரளிமோகன் தா/பெ சாவித்திரியம்மாள் (2), குர்ரப்பா (எ) குள்ளப்பா (3), தனம்மா (4), குர்ரம்மா (5), கமலம்மா (6), கௌரம்மா (7), ஆகியோர் ஆஜராகி மேற்படி சொத்தில் தங்களுக்குள்ள பாத்யதை குறித்து கீழ்க்கண்டவாறு வாக்குமூலம் பதிவு செய்துள்ளனர்.

2) ஒசூர் சார்பதிவாளர் அலுவலக ஆவண எண். 306/1936 நாள் 01.12.1936-ன்படி ஒசூர் வட்டம், தோரிப்பள்ளி கிராமத்தில் வசிக்கும் திரு.வீரேசகவுடு அவர்களின் குமாரர் நஞ்சுண்டகவுடு என்பவரிட**யிருந்து** ஒகுர் வட்டம், அத்திமுகம் கிராமத்தை சேர்ந்த திம்மராயகவுடு அவர்களின் குமாரார் சுப்பராயகவுடு அவர்கள் பைமாஷ் எண். 53 விஸ் 217 ஏக்கர் நிலத்தை கிராயமாக பெற்று அதன் பிறகு மேற்படி நிலம் 1942-ம் வருடம் சுவாதீனம் 1942ஆம் வருடம் திரு.திம்மராயகவுடு அவர்களின் குமாரர் சு<mark>ப்பராயகவுடு என்பவரிடயிருந்து எனது த</mark>ந்தையும் பில்லேகவுடு குமாரருமாகிய திரு.குர்ரப்பா என்பவர் பை**மாஷ் எண்.** 53 விஸ்தீர்ணம் 217 ஏக்கர் நிலம் கிரயம் பெற்றது கிராபம் பெற்ற நிலம் 1947-ஆம் ஆண்டு ஒசூர் சார் பதிவாளர் அலுவலக ஆவண எண்.294/1947ன்படி மேற்படி நபரிடமிருந்து விற்பனைக்கிரயமாக எனது தந்தை குர்ரப்பா என்பவர் பெற்றார் என்றும் அதன்பிறகு 1962 ஆம் ஆண்டு செட்டிமென்ட் அலுவலரால் மேற்படி நிலத்திற்கு பட்டா வழங்கப்பட்டபோது பைமாஷ் எண். 53 ஆனது 70/1 விஸ்தீரணம் 94.95 ஏக்கர் நிலம் தனது தந்தை திரு.குர்ரப்பா என்பவர் பெயரில் பட்டா வழங்கப்பட்டது. ஆனால் எங்களுக்கு பாத்தியப்பட்ட 217 ஏக்கர் நிலத்தில் மீதமுள்ள 122.25 ஏக்கர் நிலத்திற்கு தங்கள் தந்தை திரு.குா்ரப்பா பெயரில் பட்டா வழங்கப்படவில்லை புல எண். 70/2 விஸ். 1்16.4 ஏக்கர் நிலம் மேய்ச்சல் தரை என பாகுபாடு செய்யப்பட்டுள்ளது எனவும், புல எண். 70/3 விஸ் 0.61 ஏக்கர் நிலமானது தோட்டி திம்மராயன் என்பவர் பெயரில் பட்டா எண். 59-ல் தாக்கலாகியுள்ளது என்றும், மேற்படி கிரயம் பெற்ற 217.2 ஏக்கா் நிலத்தை தனது தந்தை திரு.குர்ரப்பூரு சிருயம் பெற்றது

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इत्रांभक्ष क्षेत्रीतवर

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முகள் குரும் சார் புதினாரர் அழுவைக் அரசன என். 201/1947 நாள் 14.10.1947 நாக்கும் விற்களை சொற்றும் வந்தும் விற்களை சொற்றும் புதின் விற்களை செய்யமில் மாக புதின் பெர்கள் 16.10.1947 நாக்கும் விற்களை செய்யமில் மாக புதின் மாக புதின் மேர்கார் முதின் விற்கும் வந்தும் விற்கள் இல்லாக திரு முனியப்பா முற்றும் புதினே முயியம் விறையிலும் புல என். 70/2 விருதினம் பிற்களை சிரு முனியப்பா முற்றும் புதினே முயியம் மீர் திரும் மேர்யச்சல் தரை கின்று என மாகும் செய்யப்பட்டுள்ளது என்றும் மாகும் செய்யப்பட்டுள்ளது என்றும் விற்கள் வியமின் பட்டா எண்.323-ல் தாக்கலாகியும் உள்ளது என்றும் விற்கனக் சான்றிலும் 1947 முதல் 1986 வரை மேற்படி நிலத்தை தனது தந்தை திருகுர்ரப்பா என்பவர் விற்களை செய்ததாக எவ்வித பதிவுகளும் இல்லை என தெரியவருகிறது எனவும் நிலவுடமை பதிவு மேற்பாட்டுத் திட்டத்தில் புல எண். 70/1 விஸ் 38.42.05 ஹெக்டேர் நிலத்திற்கு வழங்கப்பட்ட பட்டாவை சுத்து கெய்து தனது தந்தை திருகுர்ரப்பா பெயரில் பட்டா வழங்குமாறு திருகோவிந்தப்பா என்பவர் கோரியுள்கார்.

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3) எதிர் மனுதாரர் சார்பில் 26.4.2016 தேதிய விசாரணைக்கு எவரும் ஆஜராகவில்லை. 23.05.2016 அன்று நடைபெறுவதாக இருந்த விசாரணைக்கான அழைப்பாணை 30.05.2016 அன்று கிடைக்கபேற்றதாகவும், இவ்வினம் தொடர்பான தனது எழுத்துபூர்வமான வாதுரையினை திரு மது (எ) ஹேம்நாத் (1). கைவேஷ் (எ) கமலேஷ் (எ) கிர்லேஷ்வர் (2), எம்.ப்பி.அகமது ஹாசன் த/பெ பீர் மூகம்மது (3), திரு முகம்மது காவித் (4) மற்றும் திரு சர்வாஸ் இன்பா (பி) லிட். நியமனதாரர் திரு டி.ரவிக்குமார் ஆகியோர் 23.06.2016 தேதியன்று பதிவஞ்சலில் அனுப்பிவைத்துள்ளார். இவ்வாதுரையில் வழக்கிடை சொத்தானது மிடிதேப்பள்ளி கிராம புல எண். 70/1-ல் 94.95 ஏக்கர் நிலம் அதனுடைய ஆஜர் பட்டாதாரரான குர்ரப்பா (எ) குர்ரப்ப கவுடு த/பெ பில்லே கவுடு என்பவரிடமிருந்து கிரையம் பெற்று தங்களது சுவாதீனத்தில் உள்ள நிலம் எனவும், மேற்படி நிலமானது நிலவரித் திட்டம் தொடங்குவதற்கு முன்பாக பைமாஷ் எண். 53-ல் 217 ஏக்கர் நிலம் திரு நஞ்கண்ட கவுடு என்பவருக்கு சொந்தமானதாகும். மேற்படி நஞ்கண்ட கவுடு என்பவருக்கு சொந்தமானதாகும். மேற்படி நஞ்கண்ட கவுடு என்பவர் ஆவண எனர். 795/1947 நாள்: 14.10.1947 அன்று 217 ஏக்கர் நிலத்தின்னூதின் திரு குர்ரப்பா (எ)

0		'जिप्तालका सकक्षा	பலிவு நாள்	விற்பனன விஸ்தீர்ணம். (ஏக்கரில்)	கிரையம் பெற்ற நபர்
	£01	1805/1948	04.08.1948	8.00	மாரப்பா
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Sheats C	3	1807/1948	04.08.1948	10.00	கிட்டப்பா, சில்லப்பா (ம) திம்மராய நாயுடு
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98	6	1810/1948	04.08.1948	5.00	சம்புகாடு
y a	7	1811/1948	04.08.1948	4.00	क्रीपंपि
	8	2607/1948	10.08.1948	8.00	முனியப்பா
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10	2608/1948	16.08.1948	5.00	(domine ginesticati
11	2609/1948	10.08.1948	5.00	General Comm
12	2610/1948	10.08.1948	10.00	பெர்காவர்ய இது கிருஷ்
13	2611/1948	10.08.1948	15.00	போச்சம்மா செரவிந்தந்பா, பெண்கள் சோவிந்தந்பா, பெண்கள்
14	2612/1948	24.08.1948	8.00	မြောက်မှုအား နေါက်များမှုက
15	2613/1948	10.08.1948	4.00	արձանումանա
16	2614/1948	10.08.1948	5.00	նև լչեցչնինը (ե)
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18	2616/1948	10.08.1948	5.00	திம்மராய்கள்
19	2617/1948	07.11.1948	4.00	{ibeaე(சு ா
~ 20	3202/1958	23.10.1958	15.00	ត្រូវប្រហា
21	3242/1958	29.10.1958	6.00	ித்தப்பா
22	3243/1959	27.01.1959	5.00	າແລກຸກແ
23	1239/1958	22.12.1958	20.00	முனியப்பா (எ) அன்னையப்பா

4) நிலவரித்திட்டம் அமுல் செய்யப்படுவதற்கு முன்பே திரு குர்ரப்பா (எ) குர்ரப்பா கவுடு என்பவர் பிடிதேப்பள்ளி பையாஷ் எண். 53-ல் தான் கிரையம் பெற்ற 217 ஏக்கரில் 180 ஏக்கர் நிலத்தை மேற்கண்டவாறு விற்பனை செய்துள்ளார். அதன்பின்பு நிலவரித்திட்டம் அமுல் படுத்திய பின்பு மேற்படி குர்ரப்பா (எ) குர்ரப்பா கவுடு என்பவர் புல எண். 70/1 23.50 ஏக்கர் நிலம் கீழ்க்கண்ட விவரப்படி விற்பனை செய்துள்ளார்.

வ. எண்.	ஆவண எண்	பதிவு நாள்	விற்பனை விஸ்தீர்ணம், (ஏக்கரில்)	கிரையம் பெற்ற நபர்
1	895/1965	12.04.1965	10.00	லக்கூம்மய்யா (1) முனியம்மா (2)
2	896/1965	10.04.1965	04.00	எல்லப்பா (1) மற்றும் சித்தம்மா (2)
3	897/1965	12.04.1965	03.00	நாராயணப்பா
4	899/1965	12.04.1965	06.50	சித்தப்பா
5	மொத்தம்		23.50	

5) இதனை தொடர்ந்து குர்ரப்பா (எ) குர்ரப்பாகவுடு என்பவர் ஒட்டு மொத்தமாக 23.50 ஏக்கர் நிலத்தினை விற்பனை செய்துள்ளார். நிலஉடமை பதிவு மேம்பாட்டு திட்டத்தில் புல எண். 70/1-ல் 38.42.5 ஹெக்டேர் நிலம் பட்டா எண். 333-ல் முனியப்பா த/பெ பிள்ளைய்யா (1) செக்கரியப்பா த/பெ பாசப்பா (2) திரு.முனியப்பா த/பெ பில்லப்பா (3) திரு.முனியப்பா த/பெ சித்தப்பா (4) திரு.எல்லப்பா த/பெ எல்லப்பா (5) திரு.சித்தம்மா க/பெ எல்லப்பா (6) திரு.சின்னநாராயணரெட்டி த/பெ நஞ்கண்டாரெட்டி (7) திரு.சித்தம்மா க/பெ எல்லப்பா (8) திரு.வீரப்பா த/பெ சின்ன லட்சுமய்பா (9) திரு.கெய்பய்யா (10) திரு.ஏரப்பா (11) திரு.முனியப்பா (12) திரு.வெங்கடேசப்பா (13) திரு.காசியப்பா (14) திருமதி.முனியம்மா க/பெ சொக்கரலப்பா (16) திரு.னரப்பா (17) திருமதி.நாகம்மா (18) மனுதாரர்கள் குர்ரப்பா (எ) குர்ரப்பாகவுடு என்பவர் பெயரில் பதிவு செய்யப்பட்டுள்ளது. ச.எண். 70/1-ல் உள்ள அனைத்து நிலங்களும் பல்வேறு நபர்களுக்கு விற்பனை செய்யப்பட்டுள்ளது. ச.எண். 70/1-ல் உள்ள அனைத்து நிலங்களும் பல்வேறு நபர்களுக்கு விற்பனை செய்யப்பட்டுள்ளது. மறுதாரர்கள் தாங்கள் கிரயம் பெற்ற 70/1-ல் உள்ள தேர்கும்கிக்கு விற்பனை செய்யப்பட்டுள்ளது. மறுதாரர்கள் தாங்கள் கிரயம் பெற்ற 70/1-ல் உள்ள தேர்க்கர்

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குயக்குமர் அறுவு

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நிலம் சேலும் பல உட்பிரிவுகளாக 70/1எ1எ, 70/1பி, 70/14ி மற்றும் 70/10 கிருஷ்ணகிரி பிரிக்கப்பட்டுள்ளது என்றும், மேற்படி உட்பிரிவுகள் பட்டம் மற்றும் செய்யும் (நடித்தும் கார் விற்பணை செய்துவருக்கு வழங்கப்பட்டுள்ளது. மேறும் மனுதார்கள் குர்ரப்பா (எ) குர்ரப்பாகவுடு ஆகியோர்கள் மேற்படி சுறைப்படு அனும்பம் செய்து வந்தனர் என்வும், மேற்படி பிரதிவாதிகள் மற்றும் குர்ரப்பா (எ) குர்ரப்பாகவுடு என்பவரின் குடும்ப உறுப்பினர்கள் உயர்நீதிமன்றத்தில் ரிட் எண். 3190/2013 என்று மனு ஒகுர் வட்டாட்சியர் அவர்களுக்கு எதிராக தாக்கல் செய்தனர். இந்த சென்னை உயர்நீதிமன்ற தீரப்பில் ரிட் மனு எண். 3190/2013 தீரப்பு நாள்: 17.02.2015-ல் மனுதாரர் 22.02.2012 அன்று அளித்த மேல்முறையீட்டு மனு மீது உர்திரவு பிறப்பிக்க பிரதிவாதியான ஒகுர் வட்டாட்சியருக்கு உத்திரவிடப்பட்டது. ஆனால் இவ்வினம் நிலஉடமை பதிவு மேம்பாட்டு திட்டத்தின் போது ஏற்பட்டுள்ள பிழையினை திருத்தம் செய்ய கோரி மாவட்ட வருவாய் அலுவலர் முன்பு 23.12.2013 அன்று அளித்த மனு என்னால் பரிசீலனைக்கு எடுத்துக்கொள்ளப்பட்டது.

- இவ்வினத்தில் மிடிதேபள்ளி கிராம புல எண். 70/1-ல் தீர்க்கப்பட வேண்டிய இனங்கள் கீழ்க்கண்டவாறு.
 - மிடிதேபள்ளி கிராம புல என். 70 நிலஉடமை பதிவு மேம்பாட்டு திட்டத்திற்கு முன்பு என்னவாக இருந்தது?
 - மிடிதேபள்ளி கிராம புல எண். 70 நிலஉடமை பதிவு மேம்பாட்டு திட்டத்திற்கு முன்பு எவர் டெயரில் தாக்கலாகி இருந்தது?
 - மேற்படி புல எண். 70 நிலஉடமை பதிவு மேம்பாட்டு திட்டத்தில் என்னவாக யார் பெயரில் எவ்வளவு பரப்பிற்கு பட்டா தாக்கல் செய்யப்பட்டுள்ளது.
 - மேற்படி நிலத்திற்கு பட்டா பெற தகுதியுடைய நபர்கள் யார்? யார்?
 - 5) தற்போதைய கிராம கணக்குகளில் மேற்படி புல எண். 70 என்னவாக பதிவாகி உள்ளது?

பத்தி 6(1) மற்றும் 6(2)-க்கான விளக்கம்:- நிலஉடமை பதிவு பேம்பாட்டு திட்டத்திற்கு முன்பே "அ" பதிவேடு மற்றும் எஸ்.எல்.ஆர். பதிவேட்டின்படி கிருஷ்ணகிரி மாவட்டம், சூளகிரி வட்டம், 224. மிடிதேபள்ளி கிராம புல எண். 70 ஆனது 70/1 ரயத்து புஞ்சை, மண் வயனம் 8.3, தரம் 5, தீர்வை ஏக்கருக்கு 0.25 பைசா, பரப்பு 94.95 ஏக்கர். தீர்வை ரூ.38.24 பைசா பட்டாதாரர் கலத்தில் எம்.1 ப்பி.குர்ரப்பா குறிப்பு கலத்தில் புல்காவல் பட்டா சலுகை தீர்வை என குறிப்பிடப்பட்டுள்ளது. புல எண்.70/2 சர்க்கார் புறம்போக்கு, மண்வயனம் தரம், தீர்வை இல்லை, பரப்பு 114.04 ஏக்கர் நிலம் குறிப்பு கலத்தில் மேய்ச்சல் தரை கிணறு என குறிப்பிடப்பட்டுள்ளது. புல எண். 70/3 ரயத்து புஞ்சை, மண்வயனம் 8.3, தரம் 5, தீர்வை ஏக்கருக்கு ரூ.0.87 பைசா, பரப்பு 0.61 சென்ட், தீர்வை 0.53 பைசா, பட்டாதாரர் கலத்தில் பட்டா எண்.59, மு.தோட்டிதிம்மராயன் பெயரில் தாக்கலாகி உள்ளது, குறிப்பு தலக்கில் குறிப்பு இல்லை.

Document No. SD of 2023 of Book /
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18/

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THE STATE OF THE PARTY OF THE P 7.பத்தி 6(3) க்கான விளக்கம் நிலை டமை பதிவு மேம்பாட்டு நிட்டத்தின் கிறாள புவ வண். 70 - ஆநனதா 70/1 ராத்து புஞ்மை. மண் வாணர் 8.3, தரம் 5, தீர்ண்டுகளுக்டேருக்கு 0.62 பைசா, பாப்பு 38.42.5 தொக்டேர், திர்வை ரூ.23.24 வாசா, பட்டாதாரர் கலத்தில் 😿 ப்பி முனியப்பட மற்றும் 17 நகர்கள் செயரிலும், குறிப்பு கலத்தில் புல்காவல் பட்டா தோணை கேர்கும் குறிப்பிடப்பட்டுள்ளது புல எளர்.70/2 சர்க்கார் புரங்போக்கு, மண்வயனம் தரம், தீர்வை இல்லை, பரப்பு 49.96.5 ஹெக்டேர் நிலம் குறிப்பு கலத்தில் மேய்ச்சல் தரை என குறிப்பிடப்பட்டுள்ளது. புல எனர். 70/3 ரயத்து புஞ்சை, மண் வயனம் 8.3, தரம் 5, தீர்வை ஹெக்டருச்கு ரூ.2.15 டைசா, பரப்பு 0.24.5 ஹெக்டேர், திர்வை 0.53 பைசா, பட்டாதாரர் கலத்தில் பட்டா எண்.323, சொ.பெத்தமுனியம்மா மற்றும் 3 நபர்கள் பெயரில் நூக்கலாகி உள்ளது, குறிப்பு கலத்தில் குநிப்பு இல்லை.

8. பந்தி 6(4)-க்கான விளக்கம்:- இவ்வினத்தில் பத்தி 7-ல் குறிப்பிடப்பட்டுள்ள விவரங்களை ஆராயும் போது மிடிதேபள்ளி கிராம புல எண். 70-ஆனது தமிழ்நாடு இனாம் ஒழிப்புச் சட்டம், 30/1963-ன்படி மேற்படி கிராமமானது நிலவரித்திட்டம் மேற்கொள்ள தமிழக அரசால் எடுத்துக்கொள்ளப்பட்டு நிலவரித் திட்ட அலுவலர், சேலம் அவர்கள் புல எண். 70-ஐ 70/1, 70/2 மற்றும் 70/3 என உட்பிரிவுகள் செய்யப்பட்டு, புல எண். 70/1-க்கு மேல்முறையீட்டு மனுதாரரின் தந்தை திரு குர்ரப்பா என்பவருக்கு 0.25 பைசா திர்வையில் 94.95 ஏக்கர் நிலத்திற்கு புல்காவல் பட்டா வழங்கப்பட்டுள்ளது. இனாம் ஒழிப்பு சட்டம் 26/1963-ன்படி ஆவணங்கள் மற்றும் சுவாதீன அடிப்படையில் அப்போதைய நிலவரித் திட்ட அலுவலரால் திரு குர்ரப்பா என்பவருக்கு பட்டா வழங்கப்பட்டுள்ளது. இதனை எதிர்த்து மேற்படி சட்டம் பிரிவு 12(2)-ல் நிலவரித் திட்ட அலுவலரால் பிறப்பிக்கப்பட்ட உத்திரவினை எதிர்த்து தனி நபர் உத்திரவு 3 மாதக் காலத்திற்குள் தீாப்பாயத்தில் மேல்முறையீடு செய்துக்கொண்டிருக்க வேண்டும். மனுதாரர்கள் அவ்வாறு மேல்முறையீடு செய்து அதன் பேரில் பரிகாரம் எதிர் தேடிக்கொண்டதற்கான ஆதார ஆவணங்கள் ஏதும் விசாரணை சமயத்தில் தாக்கல் செய்யவில்லை. எனவே மேற்படி தனி நபர் பெயரில் பட்டா வழங்கப்பட்டுள்ளதால், நிலவரித்திட்டத்தின் போது பட்டா பெற்றுள்ள திரு குர்ரப்பா என்பவரால் இந்நிலத்தில் விற்பனைகள் ஏதும் செய்யப்படாத நிலையில் நிலஉடமை பதிவு மேம்பாட்டு திட்டத்திலும் இந்த புலத்திற்கான பட்டா பெற திரு குர்ரப்பா என்பவரே தகுதி உடயவராவார்.

9.பத்தி 6(5)-க்கான விளக்கம்:- சூளகிரி வட்டம், மிடிதேபள்ளி கிராமம், புல எண். 70-ஆனது கிராம "அ" பதிவேட்டின் படி ஒசூர், வட்டாட்சியரின் வட்ட 8ஏ/66/1418 நாள்: 29.07.2008-ன்படி கீழ்க்கண்டவாறு உட்பிரிவுகள் செய்து உத்திரவிடப்பட்டுள்ளது.

> 70/1ஏ 26.86.5 333. முனியப்பா மற்றும் 17 நபர்கள் 70/1រា 2.02.5 407. பிரவீனா 70/1मी 2.02.5 408. கே.என்.நாயுடு 70/1頃 333. முனியப்பா மற்றும் 17 நபர்கள் 4.47.5 70/1இ 3.03.5 407. பிரவீனா

> > 38.42.5

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12.03.0 333. முனியப்பா மற்றும் 25 நபர்கள் 70/1ត1ត 3 14.0 442. அலிமொசின்கான் (1), அப்துல் ரகூப் (2) 70/1គ1បា

6.43.0 333. முனியப்பா மற்றும் 25 நபர்கள் 70/1918

21.60.0

10.கிராம கணினி சிட்டாவில் கீழ்க்கண்டவாறு ச.எண். 70/1 உட்பிரிவுகள் செய்யப்பட்டு பதிவு செய்யப்பட்டுள்ளது.

61.	புல எண்/	விஸ்தாணம்	பட்டா எனர் /	குறிப்பு
हाहरतं.	ब्द्धाः इ.ट.तुस्मुख्	(ஹெக்டேரில்)	நில உடமைதாரர் பெயர்	பல் காவ
1	70/1ฐาป	3.14.0	442.அலிமோசின்கான் த/பெ (லேட்) அலிஅப்சர்கான் (1) ஆர்.அப்துல் ரகூப் த/பெ ரகமதுல்லா (2) சைபுதீன் பாகிர்முகம்மது த/பெ பாகிர் முகம்மது (2)	LLAT
CA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.26.5	426. சாந்தகுமார் த/பெ எல்லப்பா	புல் காவல் பட்டா
Bern	0.4 p 1	0.60.5	488. முனியம்மா க/பெ சக்கார்லப்பர்	
40	(20/1 ₁₉ 2	0.61.0	489. வெங்கடேஷ் த/பெ முனியப்பா (1) நாராயணசாமி த./பெ முனியப்பா ஆஞ்சப்பா (எ) ஆஞ்சி த/பெ முனியப்பா	பல் காவல்
5	70/1919 70/1914 70/193 70/4	2.40.0 6.43.0 3.26.0 1.53.0	333. முனியப்பா த/பெ பில்லய்யா முனியப்பா த/பெ சித்தப்பா சென்றாய செட்டி த/பெ நஞ்சுன்ட செட்டி கோபாய்யா த/பெ கோபய்யா எர்ரப்பா த/பெ பெத்தமாரப்பா முனியம்மா க/பெ முனியப்பா முனியம்மா க/பெ சக்கார்லப்பா எர்ரப்பா, நாகம்மா, ஈரம்மா, கிர்லேஷ்வர் (ம) மது த/பெ முனிசந்திரப்பா, வெங்கடம்மா க/பெ கிருஷ்ணப்பா, எச்.முனியப்பா த/பெ அனுமந்தப்பா, எம்.சந்திரசேகர் த/பெ முனியப்பா, பி.ரமேஷ் த/பெ பாபன்னா,	புல் காவல் பட்டஈ

கிருஷ் கிருஷ் கார்

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கிருஷ்ணகிரி

OUROB ஆர்.ஆனந்தரெட்டி *த* /பெ ராம**ெ**ரட்டி, எம்.ரங்கநாத் த/பெ முனியப்பா, கே.பிரங்கோ B DEC 2024 க/பெ நாராயணப்பா, முனியப்பா (எ) அன்னையப்பா த/பெ திம்மராயப்பா, திருஷ் மற்றும் கர கிருஷ்ணகிரி ஏ.வி.முனிசந்திரப்பா த/பெ வெங்கடசாமி குஷால் பஹாடியா த/பெ ஸ்ரீலாவ் சந்தாஜி, எவ்.நாராயணப்பா த/பெ லட்சுமேகவுடு, பசம்மா க/பெ முனியப்பா மற்றும் சர்வா இன்பிரா (பி) லிமிடெட் 6. 70/15 2.02.5 407. பிரவ்னா க/பெ நாராயணப்பா 70/1ଭ 3.03.5 7. 70/181 2025 408. கே.என்.நாயுடு 8. 70/5 8.10.0 464. என்.சேகர்ரெட்டி

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இவ்வினத்தில் மேலே படிக்கப்பட்ட பத்தி 7 முதல் 10 வரையிலான இனங்கள் இரு தரப்பினர் வில்லங்க சான்று நகல் மற்றும் ஆதார ஆவணமாகள் மற்றும் வாச்.குமூலங்கள் அளித்துள்ள பரிசீலித்ததில் மனுதாரர் திஞ் கோவிந்தப்பா என்பவரின் தந்தை (வேட்) குர்ரப்பா (எ) பின்லன்னா என்பவர் பெயரில் மிடிதேபள்ளி கிராம புல எனர். 70-ல் விகர்திகளைக் 211.60 ஏக்கர் நிலத்திகைய விலைக்கு வாங்கி உள்ளதாகவும், அதுனன பட்டா மாற்றி தருமாறு கோரியுள்ளார். இருப்பினும், நிலவரித் திட்ட அலுவலரால் மேற்படி புல எண். 70 ஆனது 70/1, 70/2 மற்றும் 70/3 என உட்பிரிவு செய்யப்பட்டு புல எனர். 70/1-ல் 94.95 ஏச்கர் நிலம் மட்டும் மேல்முறையிட்டு மனுதாரரின் தந்ரை திரு குர்ரப்பா டெயரில் பட்டா தாக்கல் செய்யப்பட்டுள்ளது. எனவே, நிவவரித் திட்டத்தின் போது பட்டா பெற்றுள்ள திரு குர்ரப்பா என்பவரே நியஉடனம் பதிவு வெள்ளப்டு திட்டத்திலும் பட்டா பெற தகுதியுடையவராகிறார். இருப்பினும், நிலவரித் திட்டத்தின் போது பட்டா டெற்ற திரு குர்ரப்பா என்பவர் புல எண். 70/1-ல் மொத்த விஸ்திர்ணம் 94.95 ஏக்கரில் 10.00 ஏக்கர் நிலம் ஒருர் சார்பதிவாளர் ஆவண எண்.895/1965 நாள்: 12.04.1965-ன்படி திரு லகுமப்யா (1), திருமதி முனியம்மா (2) ஆசியோருக்கும், 4 ஏக்கர் நிலம் ஆவண எண். 896/1965 நாள்: 12.04.1965-ன்படி திரு எளப்பா (1), திருமதி சித்துப்மா (2) ஆகியோருக்கும், 3 ஏக்கர் நிலம் ஆவண எண். 897/1965 நாள்: 12.04.1965-ன்படி திரு நாராயணப்பா என்பவருக்கும், 6.5 ஏக்கர் நிலம் ஆவண எண். 899.1965 நாள்: 12.04.1965-ன்படி திரு சித்தப்பா என்பவருக்கும் ஆக மொத்தம் 23.50 ஏக்கர் நிலம் விற்பனை செய்துள்ளார். இதனை தொடர்ந்து நிரு குர்ரப்பா என்வரால் விற்பனை செய்யப்பட்ட மேற்படி ஆவணங்களின் தொடர்ச்சியாக, கீழ்க்கண்ட விற்பனைகள் நிகழ்ந்துள்ளன.

வ. எண்.	ஆவண எண் / நாள்	பரப்பு (ஏக்)	விற்றவர்	வாங்கியவர்
1	899/1965/12.4.65	6.50	குர்ரப்பா	சித்தப்பா
2	2579/1972/12.9.72	6.50	சித்தப்பா	எர்ரப்பா, நாகம்மா
3	1270/2003/22.12.03	0.50	ளர்ரப்பா, நாரயணம்மா நாகம்மா	ர். முனிராஜப்பா

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தயக்குநர் 🦏 8 DEC 2024 கிருஷ்ணகிரி மற்றும் கா

1	3960/2006/18.12.06	6.50	திருவிராஜப்பட மற்றும் முடிவிராஜப்பட மடிகையறா	Ditergeon
5	2503/12/14.6.12	6.50	मारकोंकमा	தி/ள்.சர்வா இனப்பு அதிகாரம் பெற்ற திரு மகேஷ் ராம்தாஸ்
6	896/1965/10.04.65	4.00	சுர்ரப்பா கவுடு	எலப்பா. சித்தம்மா
7	544/95/22.5.95	4.00	் எலப்பா, சித்துள்மா	சிர்லேஷ்வர்
8	606/2006/27.2.06	4.00	விபின்குமார் ஏஜென்ட் ஒம்பிரகாஷ் பிரின்சிபல்	ஹேம்நாத் (எ) மது
9	1041/2007/6.3.07	1.00	ஹேம்நாத் (எ) மது	பிரவினா
10	896/1965/10.4.65	4.00	குர்ரப்பா கவுடு	எலப்பா, சித்தம்மா
10	544/95/22.5.95	4.00	எலப்பா, சித்தம்மா	கிர்லேஷ்வர்
11	976/2003/9.7.03	4.00	குஷால்பகாடியா ஏஜென்ட், கிரலேஷ்வர் பிரின்சிபல்	ஒம்பிரகாஷ்
12	606/06/27.2.06	4.00	விபின்குமார் ஏஜெண்ட் ஒம்பிரகாஷ் பிரின்சிபல்	ஹேம்நாத் (எ) மது
13	1550/07/3.4.07	3.00	ஹேம்நாத் (எ) மது	கமலாகர்.
14	314/2014/30.1.14	3.00	கமலாகர்	சர்வா இன்பிரா
15	895/1965/12.4.65	10.00	குர்ரப்பா கவுடு	லகுமய்யா, முனியம்மா
16	1664/69/5.6.69	5.00	லகுமய்யா	ருத்ரப்பா
17	2443/70/2.10.70	10.00	ருத்ரப்பா, ராஜப்பா	முனியம்மா
18	1111/04/22.7.04	2.53	முனியப்பா, முனியம்மா	பசம்மா (தானம்)

மேலும், நிலவரித் திட்டத்தின் போது பட்டா பெற்றுள்ள திரு குர்ரப்பா என்பவர் மிடிதேபள்ளி கிராம புல எண். 70/1-ல் மொத்தமுள்ள 94.95 ஏக்கர் நிலத்தில், பத்தி 4-ல் குறிப்பிடப்பட்டுள்ள விவரப்படி நிலவரித்திட்ட பட்டாதாரரும், பேல்முறையீட்டு மனுதாரரின் தந்தையுமான திரு குர்ரப்பா என்பவர் விற்பணை செய்துள்ள 23.50 ஏக்கர் நீங்கலாக மீதமுள்ள 71.45 ஏக்கர் நிலம் திரு குர்ரப்பா என்பவருக்கு பாத்யதைபட்டது என்பது தெளிவாகின்றது.

மற்றும் ஆவணங்கள் கவனமாக என்னால் பரிசீவனை வாச்குமூலம் மனுதாரர்கள் செய்யப்பட்டத்தில் கிருஷ்ணகிரி மாவட்டம், சூளகிரி வட்டம், மிடிதேப்பள்ளி கிராமம், பட்டா எண்.442 (புவ எண். 70/1ஏ1பி விஸ்தீர்ணம் 3.14.0 ஹெக்டேர்) 426 (புவ எண். 70/1ஏ2 விஸ்தீர்ணம் 5.26.5 464 (புல எண். 70/5 விஸ்தீர்ணம் 8.10.0 ஹெக்டேர்) ஆகியவற்றில் உள்ள வெறும்,டேர்) பட்டாதூரர்களை கம்மி செய்தும், பட்டா எண்.333-ல் 70/4 விஸ்தீர்ணம் 1.53.0 ஹெக்டேர் நிலத்தினை கம்மி செய்தும், நிலவரித்திட்டத்தின் போது பட்டா பெற்றுள்ள திரு குர்ரப்பா என்பவரது பெயரில் பட்டா தாக்கல் செய்யச்கூடியதாக தெரியவருகிறது. திரு குர்ரப்பு என்பவர் கடந்த 27.10.1965 அன்று இறந்து விட்டதால்' அவரது வாரிசுதாரர்களான திரு.முர்ஏயிர் இரு.முள்ளப்பா (1) திரு.கோவிந்தப்பா (2) சரப்பாட்டு அதிகும்தி திரும்மா த/பெ (லேட்) சினப்பா (4)

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Support of Organia திருந்திதனர்நா திபெ (லேட்) சீனர்ய (5) திருந்திகௌரம்மா திபெ (லேட்டு Journal DEC 2024 திருமுறவிளோகன் தடிபெ (லேட்) சாவித்தியியர்கள் (7) திருமதிக ஷா தடிபெ (வேட்) சரி (தி) திரியம்மா (8) திருஷ்ணகிரி மற்றும் திரு,நசராமணப்பா ஆகியோகின் து வந் முறும் காங்க பெயின் கூட்டாக தூக்கன் உத்திரவிபடப்படுகிறது.

இன்வுத்துருவின் பேரில் ஆட்பேடியை ஏதுமிருப்பின் இவ்வுத்திரவு மிடைத்த 30 தினங்களுக்குள் சிவில் நீதிமன்றத்தின் மூலம் பரிகாரம் தேடிக்கொள்ளலாம் என தெரிவிக்கப்படுகிறது.

> ஒம்/- கு.கிருஷ்டி, மாவட்ட வருவாய் அலுவலர், கிருஷ்ணகி**ரி**

/ உத்திரவு படி / உண்மை நகல் /

மாவட்ட வருவாய் அலுல்லருக்காக.

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1.	திரு.கோவிந்தப்பா த/பெ குர்ரப்பா முகளூர் கிராமம், ஒகுர் வட்டம், கிருஷ்ணகிரி மாவட்டம்	2. Thiru Shanthakumar S/o Yellappa Dr.Ambudkar Street, Sanjapuram,
3.	M/s Mapedo Relator, Private Ltd., D.No. 13, Ragavera Avenue, Poes Garden, Chennai. 600 086	4. Thiru.Kanniyappan S/o Vajravelu D.No. 28/18 Hider Garden, 3 rd Street, Chennai.15.
5.	Rusohmodern developers Private Ltd., D.No. 13 Ragavera Avenue, Poes Garden, Chennai. 600 086	6. Sarvah Infra Private Ltd., No.540 3 rd Floor CMH Road, Indira Nagar, Bangalore 560 038
7.	A.V.M. Madhu Alias M.Hemanath S/o A.V.Munichendrappa Athimogam Village & Post Shoolagiri Taluk, Krishnagiri	8. Thiru. M.Shekar S/o Muthuswamy No. 207-A Allvin Nagar, Ist Cross Covai Road, L.N.S. Post, Karur 639 002
9.	Thiru. M.P.Ahamed Asan S/o Peer Mohamed No. 55 Ist Street, Ist Cross, Old Gurappana Palya B.T.M. Ist stage Bangalore	10. Thiru.P.Kumarvel S/o Priyaswamy No.102/1 Ist Floor 2 nd Main Road, Nehuru Nagar, Hosur 635 109
11		12. Thiru. Munichendrappa S/o Venkataswamy Athimugam Village & Post, Shoolagiri Taluk, Krishnagiri Distirct.

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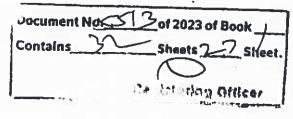


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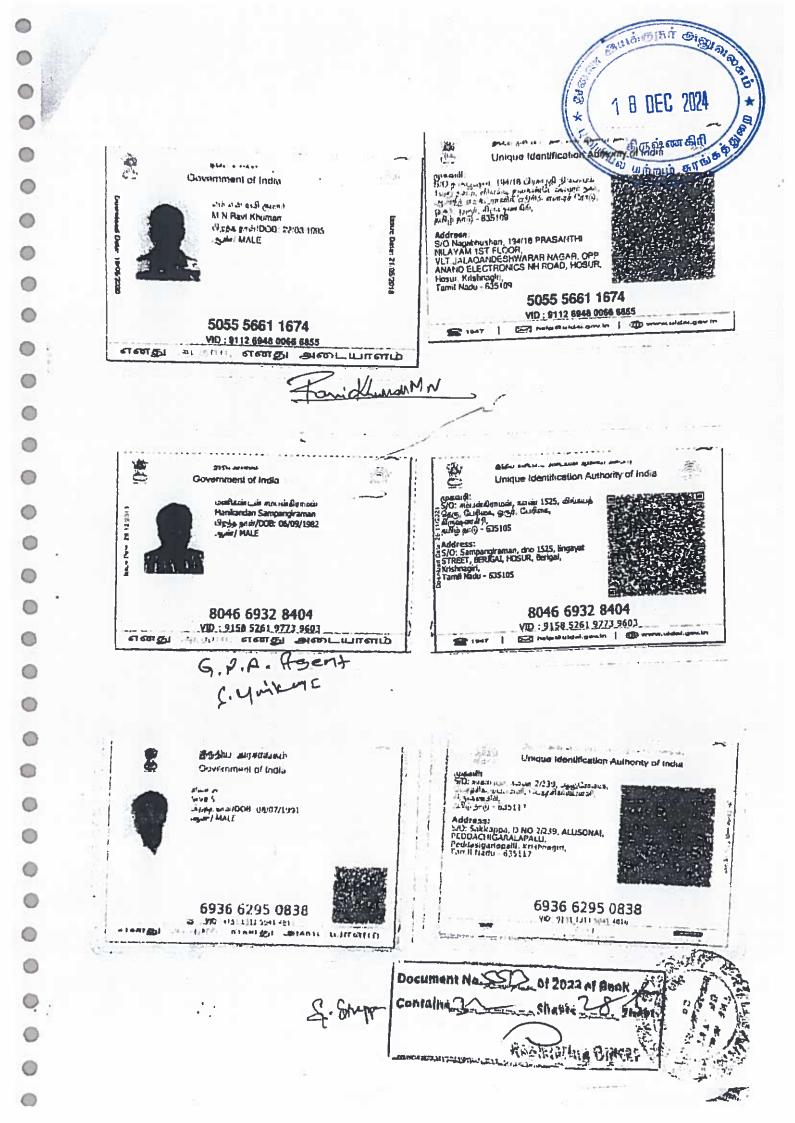




H. Lawaniya









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स्थामी लेखा शंख्या कार्ड Permanent Account Humber Card

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वामां Home M N RAVI KHUMARR

पिता का नाम, Father's Hame MAGABHUSHAN

बन्ध की बार्टीसा Date of Sich 22/03/1995





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ಭಾರತ ಸರ್ಕಾರ Jaique Identification Authority of India 3.25。由于1000年,1000年

ನೋಂದಣೆ ಸಂಖ್ಯ Enrolment No.: 1208/72100/00069

ದುದ್ದುನೂರಿ ರವಿಸುಮಾರ್ Dudoukuri Ravikumar S/O: Venkataiah #17/18,5apthagiri Nilaya K R Puram Vinayaka Nagar Near Vinayaka Temple Bangalore North Knshnarajapuram Bangalore Kamataka - 560036 9845042149

Ceneration Date: 07/07/2013



ನಿಮ್ಮ ಆಧಾರ್ ಸಂಖ್ಯೆ / Your Aadhaar No. :

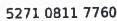
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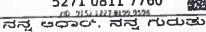


ಭಾರತ ಸರ್ಕಾರ Government of India



ಡುವುಕೂರಿ ರವಿಕುವಇರ್ Duddukuri Ravikumar ಜನ ದಿನಾಂಕ/DOB. 02/07/1972 ವುದುವ/ MALE









- ಆಧಾರ್ ಗುರುತಿನ ಪುರಾವೆಯೇ ಹೊರತು ಪೌರತ್ಪದ್ದಲ್ಲ
- ನಿಮ್ಲ ಗುರುತನ್ನು ಸಾಭೀತುವಡಿಸಲು ಆನ್ ಲೈನ್ ಮೂಲಕ ದೃಢೀಕರಿಸಿ
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ವೀಷ: 5/0: ವಂಚಬರು, #17/18,ವಾಗಿರಿ ನಿಲಯ, ವನಾಯಕ ದೇಶವಾನದ ಹತ್ತಿಗೆ, ಕೆ ಆರ್ ಪ್ರದಂ ವಿನಾಯಕ ನಗರ, ಬೆಂಗಳೂರು ಉತ್ತರ, ಬೆಂಗಳೂರು, ನರ್ನಾಟಕ - 560036

Address: 5/0: Venkatalah, #17/18,Sapthagin Nilaya, Near Vinayaka Temple, K R Puram.Vinayaka Nagar, Bangalore North, Bangalore, Kamataka - 560036



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S.DHANASEKAR, M.Sc., (Geo; Qualified Person





## ಭಾರತ ಸರ್ಕಾರ Government of India

## ಭಾರತೀಯ ವಿಶಿಷ್ಟ ಗುರುತು ಪ್ರಾಧಿಕಾರ Unique Identification Authority of India

ನೋಂದದ ಸಂಖ್ಯೆ Enrolment No.: 0000/00689/61762

ಡುಡ್ಡುಕೂರಿ ರವಿಕುಮಾರ್ Duddukuri Ravkumar S/O. Duddukuri Venkatasah VILLA NO-126 ADARSH PALM RETREAT VILLAS Devarabisanahalli Bengaluru Karnataka - 560103 9845042149



ನಿಮ್ಮ ಆಧಾರ್ ಸಂಖ್ಯೆ: / Your Aadhaar No. :

5271 0811 7760 VID: 9185 2093 5803 2571

ನನ್ನ ಆಧಾರ್. ನನ್ನ ಗುರುತು



## ಬಾರತ ಸರ್ಕಾರ Government of India



ಯದ್ಭಳೂರಿ ಶವಿಕುಮಾರ್ Duddukuri Ravikumar ಜನ ದಿನಾಂಕ/DOB: 02/07/1972 ECONU MALE

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ನನ್ನ ಆಧಾರ್, ನನ್ನ ಗುರುತು





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  - 🎅 ನಿಮ್ಮ ಮೊಬೈಲ್ ಸಂಖ್ಯೆ ಮತ್ತು 🤊 ಮೇಲ್ ಏಡಿ ಅನ್ನು ಅಧಾರ್ ನಲ್ಲಿ ಸವೀಕರಿಸಿದಿ
  - ಅರಾರ ಸ್ಥಾನಿಮ್ಮ ಸ್ಟಾರ್ಟ್ ಫೋನ್ ನಲ್ಲಿ ಕೊಂಡೊಮ್ಮಿರಿmAadhaar ಆಫಿಕೇಶನ್ ಬಳಸಿ
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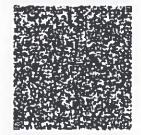


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ಎಡ್/ಓ ಡುಮ್ರಕೂರಿ ಪೊಕಟಯು, ವಿಲ್ಲಾ ನಂ -126, ಆದರ್, ಪಾಮ್ ರಿಟ್ರೀಟ್ ವೀರ್ಪ, ಲೇವಾಭಿವನಕನ್ನ ಬೆಂಗಳ.adು ಕರ್ನಾಟಕ - 560103

S/O. Duddakuri Venkutilah, VILIA NO 126, ADARSH PALM RETREAT VILIAS. Devarabisanahalli, Bengaruru, Kornataka - 560103



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VID: 9185 2093 5803 2571









FACULTY OF SCIENCE

பெரியார் பல்கலைக்கழக ஆட்சிக்கு மு 2003 ஆம் ஆண்டு ஏப்ரல் மாதம் நடந்த பயன்பாட்டு புவியமைப்பியல் தேர்வில் தன்பவர் முதல் வகுப்பில் தேர்ச்சி பெற்றார் என்று தக்க தேர்வாளர்கள் சான்றளித்தபடி அறிவியல் நிறைஞர் என்னும் பட்டத்தை அவருக்குப் பல்கலைக்கழக இலச்சினையுடன் வழங்குகிறது.

The Syndicate of the Perigar University hereby makes known that

DHANASEKARS

admitted to the DEGREE OF MASTER OF SCIENCE in

APPLIED GEOLOGY

he/she having been certified by duly appointed Examiners to be qualified to receive the same and was placed in the FIRST CLASS at the Examination held in APRIL 2003

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Given under the seal of this University

நாள் Dated 15-09-2004 சேலம் 636011, தமிழ்நாடு இந்தியா. Salem 636011, TamiiNadu, India.

பதிவாளர் Registrary

துணைவேந்தர் Vice-Chancellor

3.DHANASEKAR, M.Sc., (Geo)

Qualified Person

THE MENT OF SE B DEC 2024 PRITHVI MINERALS क्रिल्डिये ब्राग क्रिती ம் மற்றும்

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ANNEXURE.

©: 04288 - 262489

ARIANALLAMPALAYAM. MITHUR POST - 637 303.

NKARI Tk, Salem Dt. Tamil Nadu

Date: 27.12.08.

## TO MHOMSOEVER IT MAY CONCERN

This is to certify that SHRI S. DHANASEKAR, S/o. Shri A. Sundaram residing at No.8/3, Kullappan Street, Omalur Taluk, Salem District - 636 455 is working in our mines for the date of 15.10.2003 to till date as Geologist. During the above tenure of service his execution of the assigned work is exemplary and worth mentioning. We wish him success in his future endeavours.

FOR PRITHVI MINERALS,

(T.P. THANGAVEL.) Partner

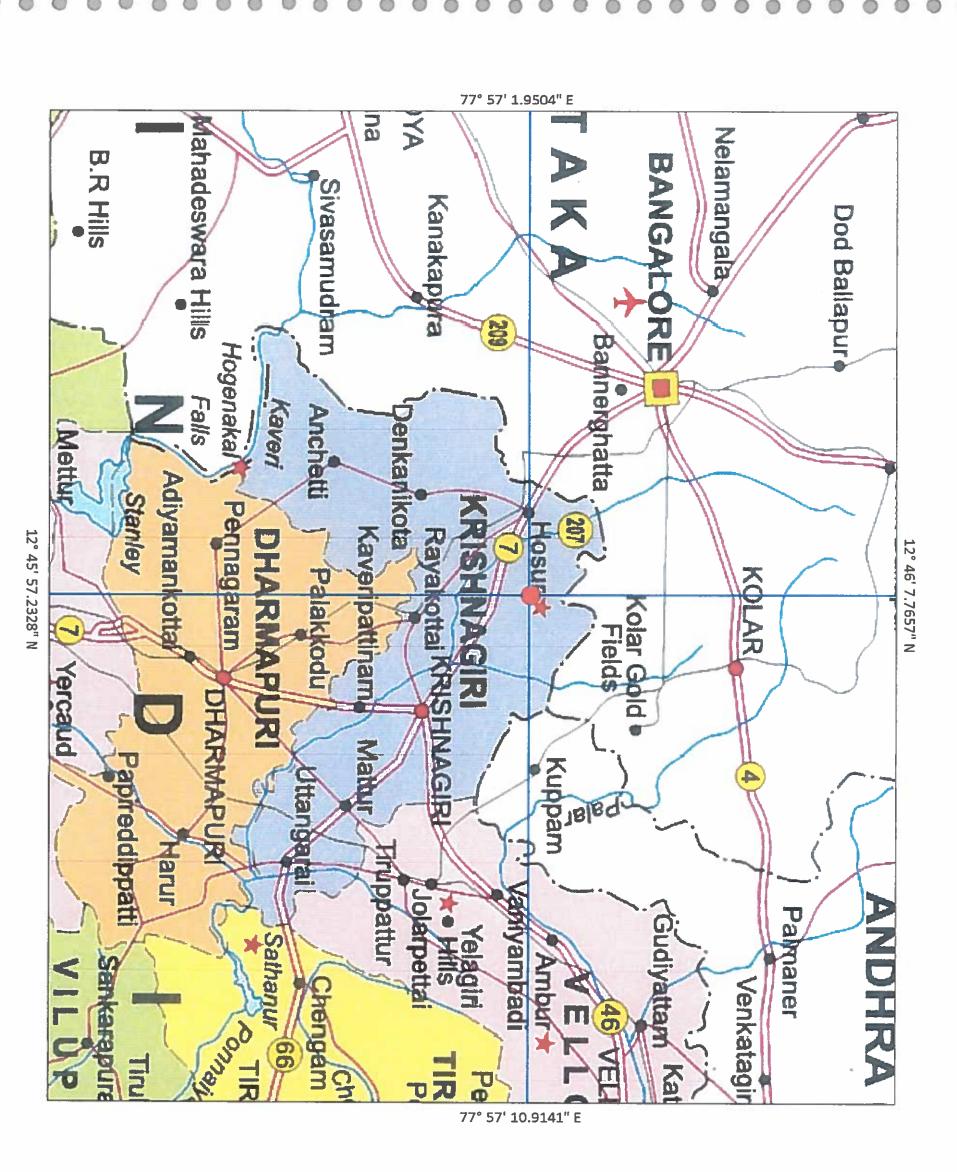
S.DHANASEKAR, M.Sc., (Geo) Qualified Person

PHOTO SHOWN PROPOSED AND LACTOR A

PHOTO SHOWN PROPOSED APPLIED LEASE AREAVIEW-2









## PLATE NO: I

DATE OF SURVEY: 26-11-2024

## APPLICANT ADDRESS:

M/s. R.K.M SAND AND AGGREGATES, Prop. THIRU.D.RAVIKUMAR, VILLA NO.126, ADARSH PALM, RETREAT VILLAS, DEVARABISANAHALLI, BANGALORE, KARNATAKA -560103

## LOCATION OF QUARRY:

EXTENT

3.76.67 Ha,

S.F.Nos : 70/4A & 70/5B, VILLAGE : MIDITHEPALLI, TALUK : SHOOLAGIRI, DISTRICT : KRISHNAGIRI.

## INDEX

QUARRY LEASE AREA:

TOPO SHEET NO.: 57-H/13

LATITUDE: 12° 46' 7.7657" N to 12° 45' 57.2328" N LONGITUDE: 77° 57' 10.9141" E to 77° 57' 1.9504" E

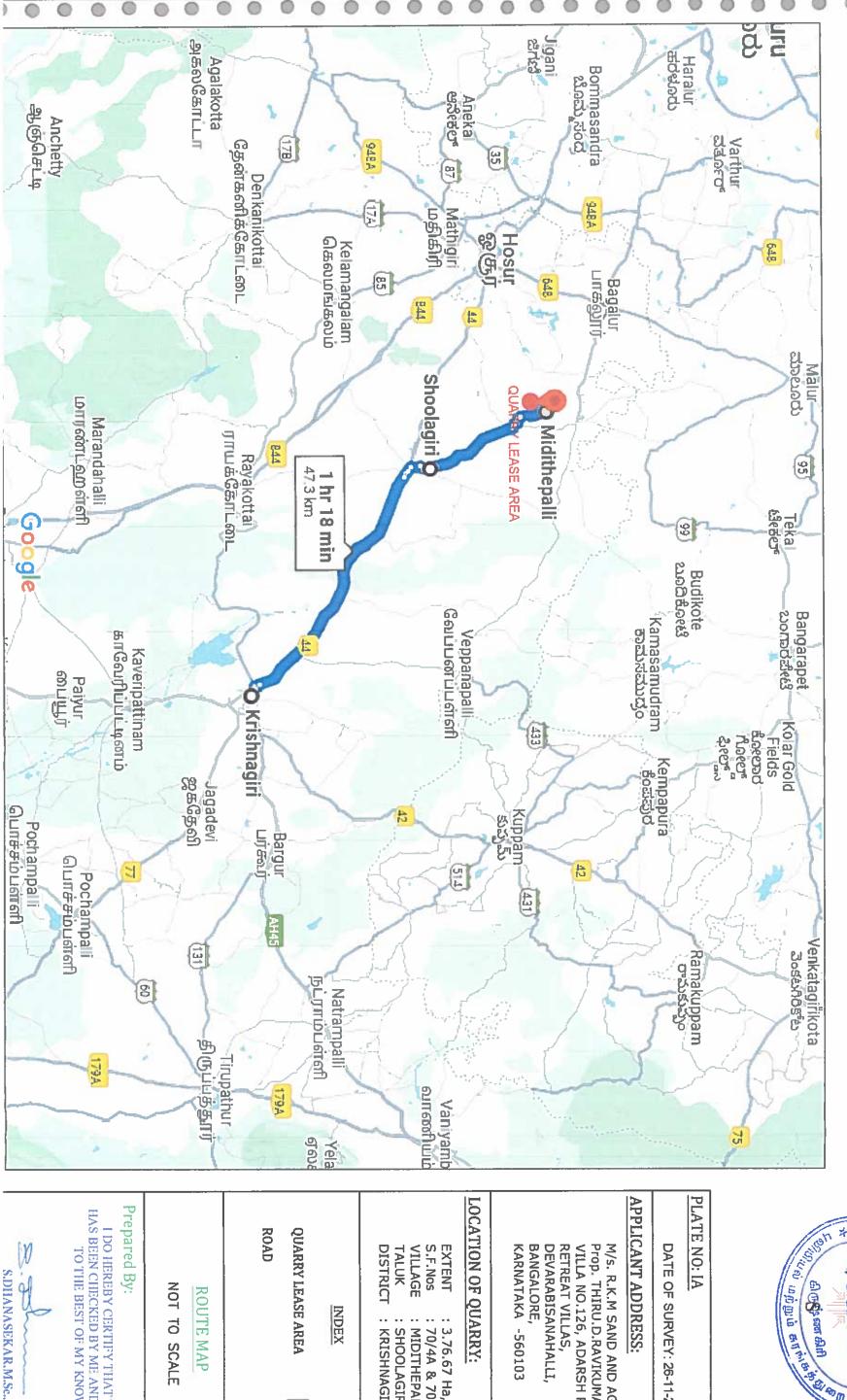
## OCATION MAP

## NOT TO SCALE

Prepared By:

I DO HEREBY CERTIFY THAT THE PLATE
HAS BEEN CHECKED BY ME AND IS CORRECT
TO THE BEST OF MY KNOWLEDGE

CDHANAGRUAD M C.





**DATE OF SURVEY: 26-11-2024** 

Prop. THIRU.D.RAVIKUMAR, BANGALORE, KARNATAKA -560103 DEVARABISANAHALLI, RETREAT VILLAS, VILLA NO.126, ADARSH PALM, M/s. R.K.M SAND AND AGGREGATES,

## LOCATION OF QUARRY:

VILLAGE TALUK : KRISHNAGIRI : SHOOLAGIRI, : MIDITHEPALLI, : 3.76.67 Ha, : 70/4A & 70/5B,

## INDEX

**QUARRY LEASE AREA** 



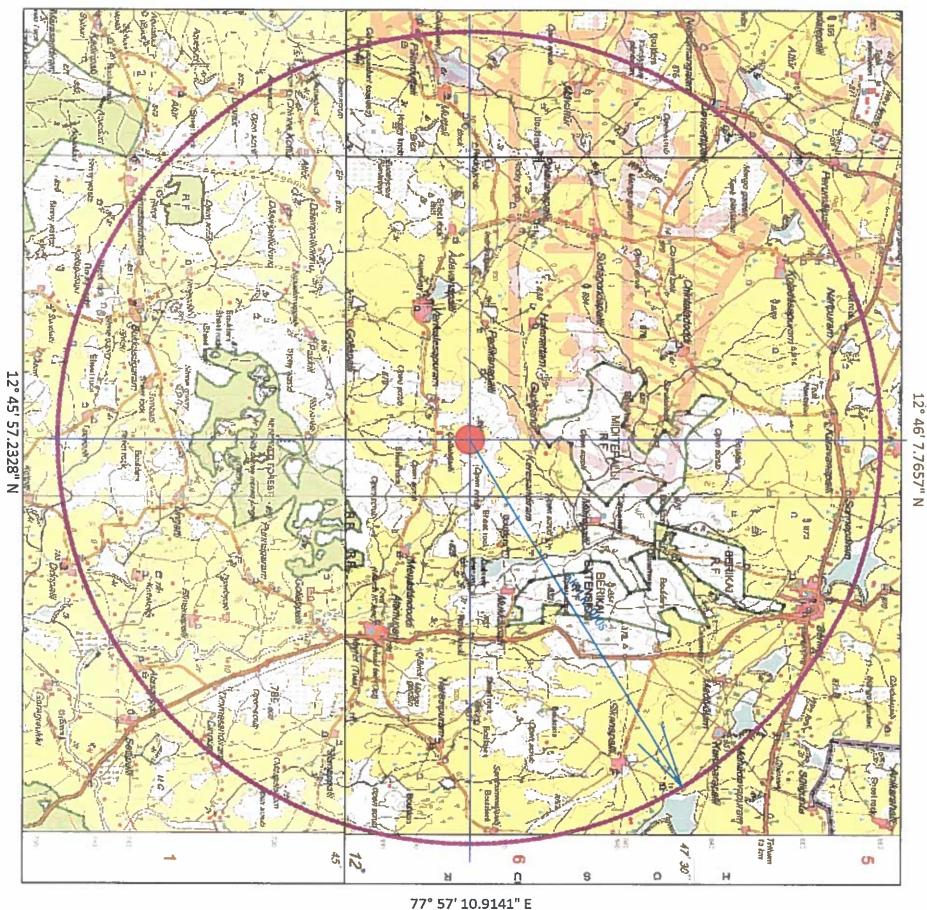


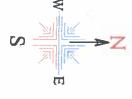
## TON TO SCALE

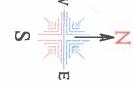
ROUTE MAP

I DO HEREBY CERTIFY THAT THE PLATE HAS BEEN CHECKED BY ME AND IS CORRECT

TO THE BEST OF MY KNOWLEDGE









C DITANIACETY AD M C.

THE LEASE AREA SCALE:1:50,000

TOPO SHEET MAP OF

LONGITUDE: 77° 57' 10.9141" E to 77° 57' 1.9504" E The part of the first problem and the problem

LATITUDE: 12° 46' 7.7657" N to 12° 45' 57.2328" N **TOPO SHEET NO.: 57-H/13** 

INDEX

QUARRY LEASE AREA:

**5KM RADIUS** 

VILLAGE TALUK EXTENT S.F.Nos

DISTRICT 3.76.67 Ha, 70/4A & 70/5B, MIDITHEPALLI, SHOOLAGIRI, KRISHNAGIRI.

LOCATION OF QUARRY:

APPLICANT ADDRESS OF THE MAIN AGGREGATE PROPERTY OF THE PROPER

PLATE NO: IB

DATE OF SURVEY: 26-11-2024





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**DATE OF SURVEY: 26-11-2024** 

## APPLICANT ADDRESS:

M/s. R.K.M SAND AND AGGREGATES, Prop. THIRU.D.RAVIKUMAR, VILLA NO.126, ADARSH PALM, BANGALORE, RETREAT VILLAS, DEVARABISANAHALLI, KARNATAKA -560103

## LOCATION OF QUARRY:

EXTENT S.F.Nos TALUK VILLAGE : 3.76.67 Ha, : 70/4A & 70/5B, : MIDITHEPALLI, : SHOOLAGIRI,

## INDEX

DISTRICT

: KRISHNAGIRI.

QUARRY LEASE BOUNDARY



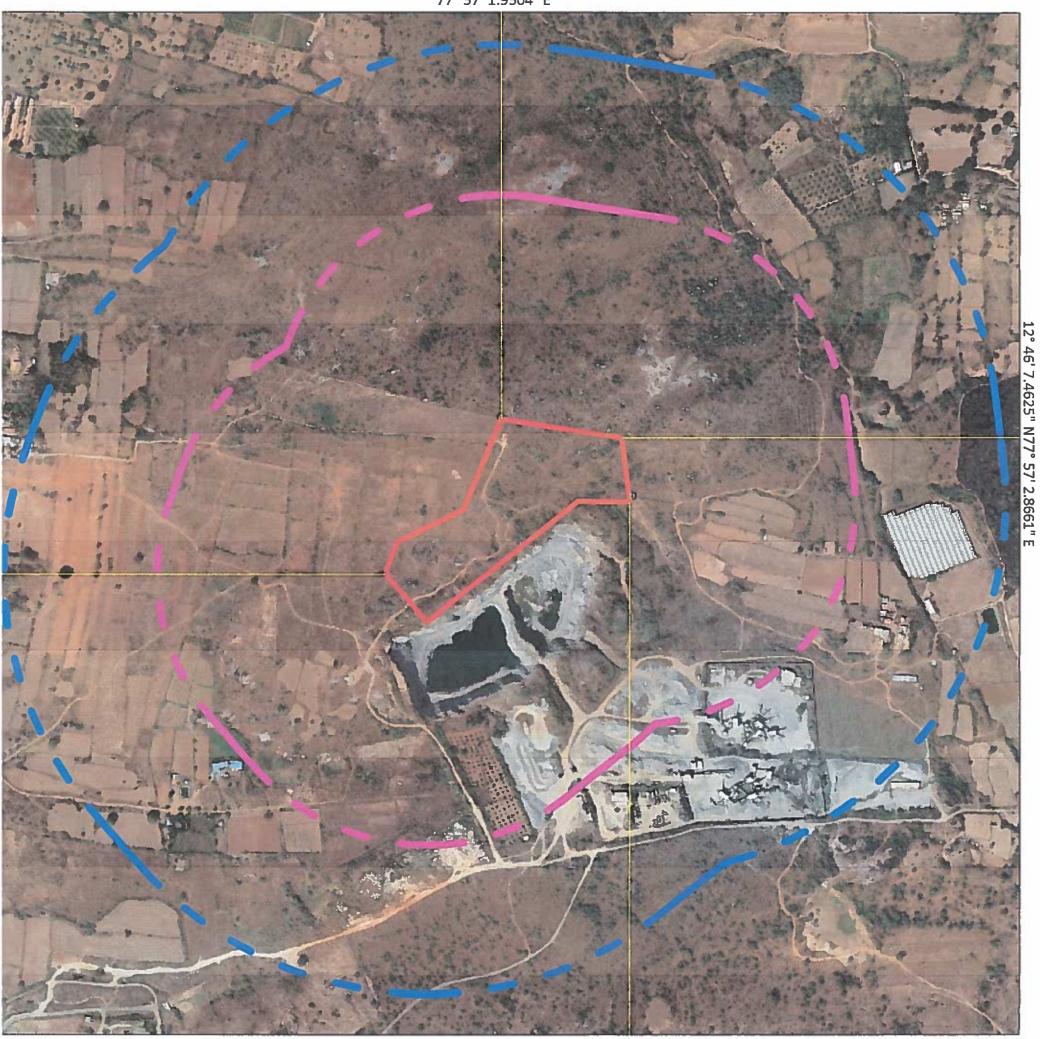
## SATELLITE IMAGE (LEASE AREA)

SCALE:1:2000

I DO HEREBY CERTIFY THAT THE PLATE HAS BEEN CHECKED BY ME AND IS CORRECT TO THE BEST OF MY KNOWLEDGE



12° 46' 2.2861" N 77° 57' 1.9504" E



12° 46' 7.7657" N

# TO THE BEST OF MY KNOWLEDGE

S DHANASEKAR M Se

Prepared By: I DO HEREBY CERTIFY THAT THE PLATE HAS BEEN CHECKED BY ME AND IS CORRECT SCALE: 1:5000

SATELLITE IMAGE (500m RADIUS)

300M RADIUS

QUARRY LEASE BOUNDARY **500M RADIUS** 

## INDEX

TALUK VILLAGE

: 3.76.67 Ha, : 70/4A & 70/5B, : MIDITHEPALLI, : SHOOLAGIRI,

DISTRICT : KRISHNAGIRI.

## LOCATION OF QUARRY: EXTENT S.F.Nos

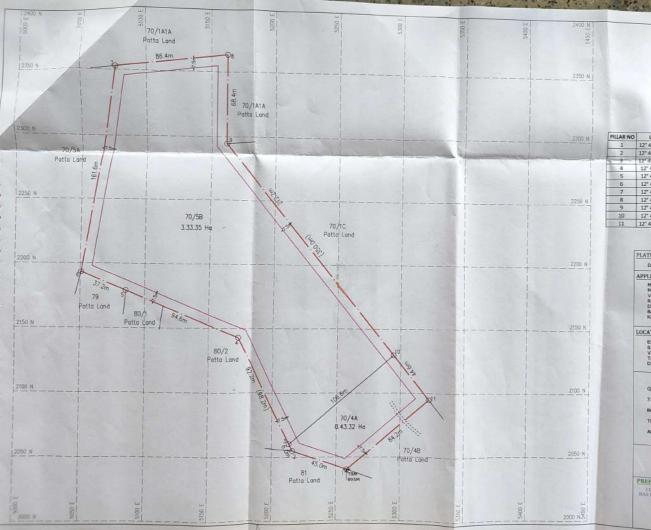
KARNATAKA -560103

APPLICANT ADDRESS: Prop. THIRU.D.RAVIKUMAR, VILLA NO.126, ADARSH PALM, RETREAT VILLAS, DEVARABISANAHALLI, BANGALORE, M/s. R.K.M SAND AND AGGREGATES,

## PLATE NO: ID

**DATE OF SURVEY: 26-11-2024** 







| PILLAR NO | LATITUDE           | LONGITUDE          |
|-----------|--------------------|--------------------|
| 1         | 12° 45' 57.2328° N | 77" 57" 8.7761" F  |
| 2         | 12° 45' 57,7290° N | 77° 57' 7.3738" E  |
| - 3       | 12" 45" 57.9049" N | 77" 57".7.2879"E   |
| 4         | 12" 46" 0.6050" N  | 77" 57" 5.9704" E  |
| 5         | 12" 46' 1.8125" N  | 77" 57" 3.0843" E  |
| 6         | 12° 46' 2.2861" N  | 77" 57" 1.9504" E  |
| 7         | 12* 46* 7.4625* N  | 77° 57" 2.8661" E  |
| 8         | 12" 46" 7.7657" N  | 77" 57" 5.7114" E  |
| 9         | 12" 46" 5.5424" N  | 77" 57" 5.6559" E  |
| 10        | 12° 46' 0.1192' N  | 77° 57' 10.0009" E |
| 11        | 12* 45' 58.9793" N | 77° 57' 10.9141" F |

## PLATE NO: II

DATE OF SURVEY: 28-11-2024

## APPLICANT ADDRESS-

M/s. R.K.M SAND AND AGGREGATES, Prop. THIRU.D.RAVIKLMAR, VILLA NO.126, ADARSH PALM, RETREAT VILLAS, DEVARABISANAHALLI, BANGALORE, KARNATAKA -560103

## LOCATION OF QUARRY:

: 3.76.67 Ha. : 70/4A & 70/5B, VILLAGE : MIDITHEPALLI, TALUK SHOOLAGIRI, DISTRICT : KRISHNAGIRI

## INDEX

0,

QUARRY LEASE BOUNDARY 7.5m SAFETY DISTANCE

## BOUNDARY PILLARS

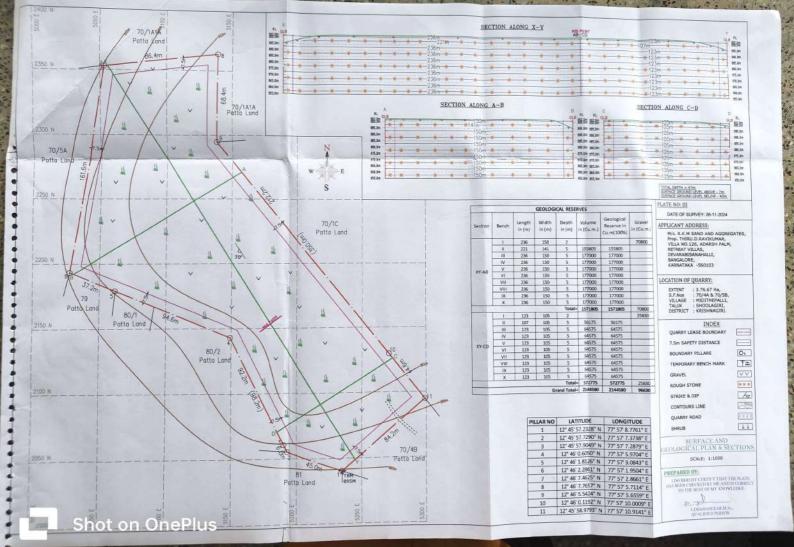
TEMPORARY BENCH MARK

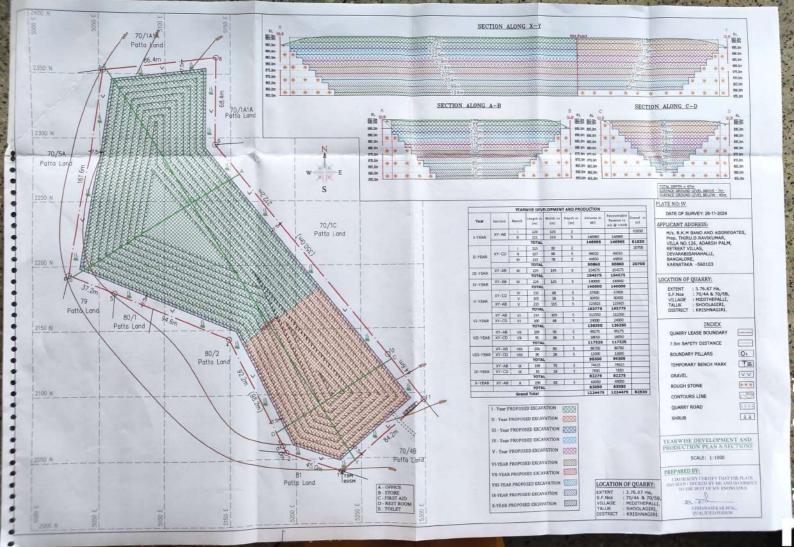
## TON I SESSO APPROACH ROAD

## MINELEASE PLAN SCALE: 1:1000

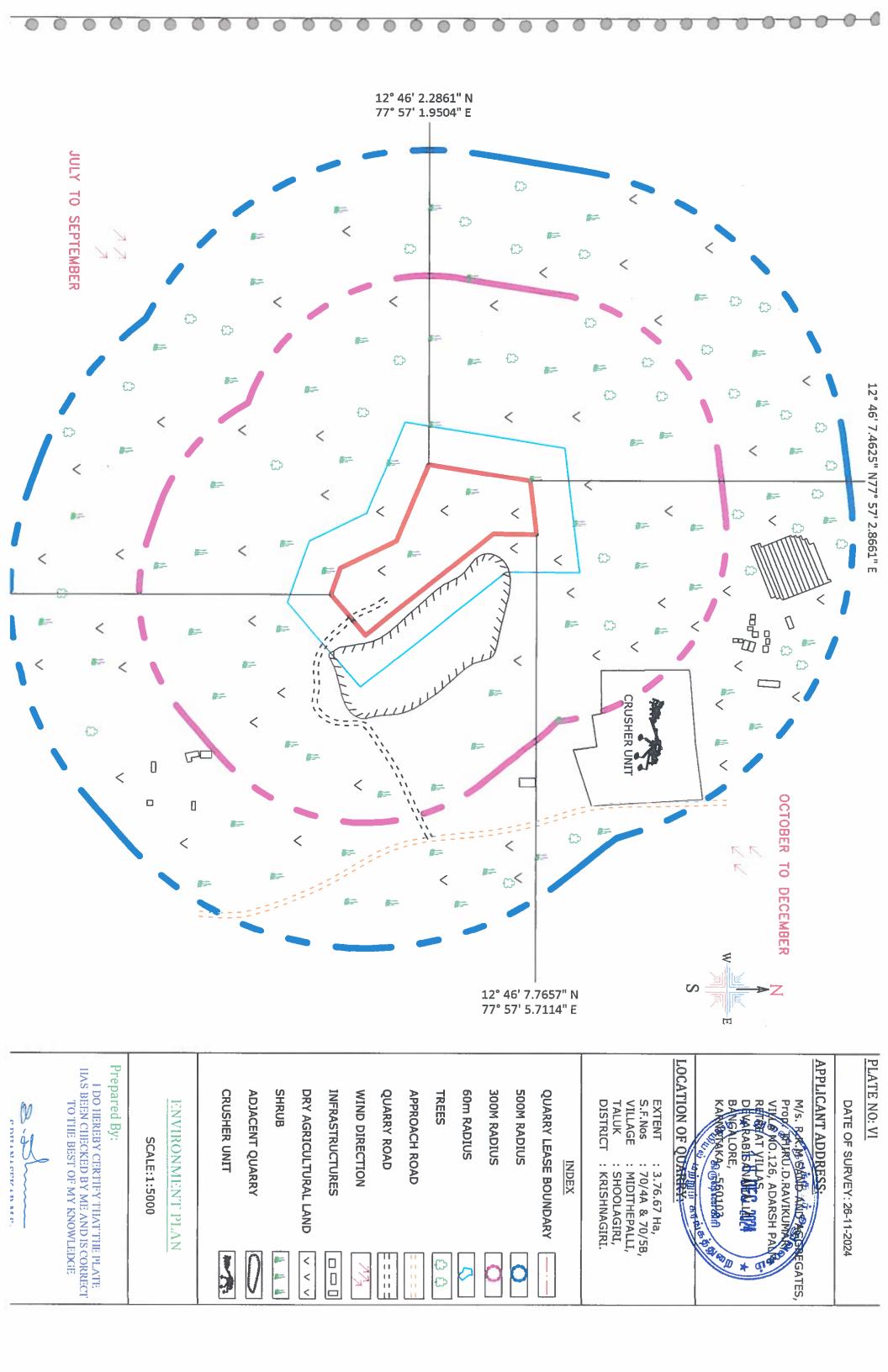
## PREPAREDEV

T DO BEHING CRUIN THAT THE PLATE HAS HERN CHECKED BY MI AND INCOMESSAY TO THE REST OF MY ENWALTERS



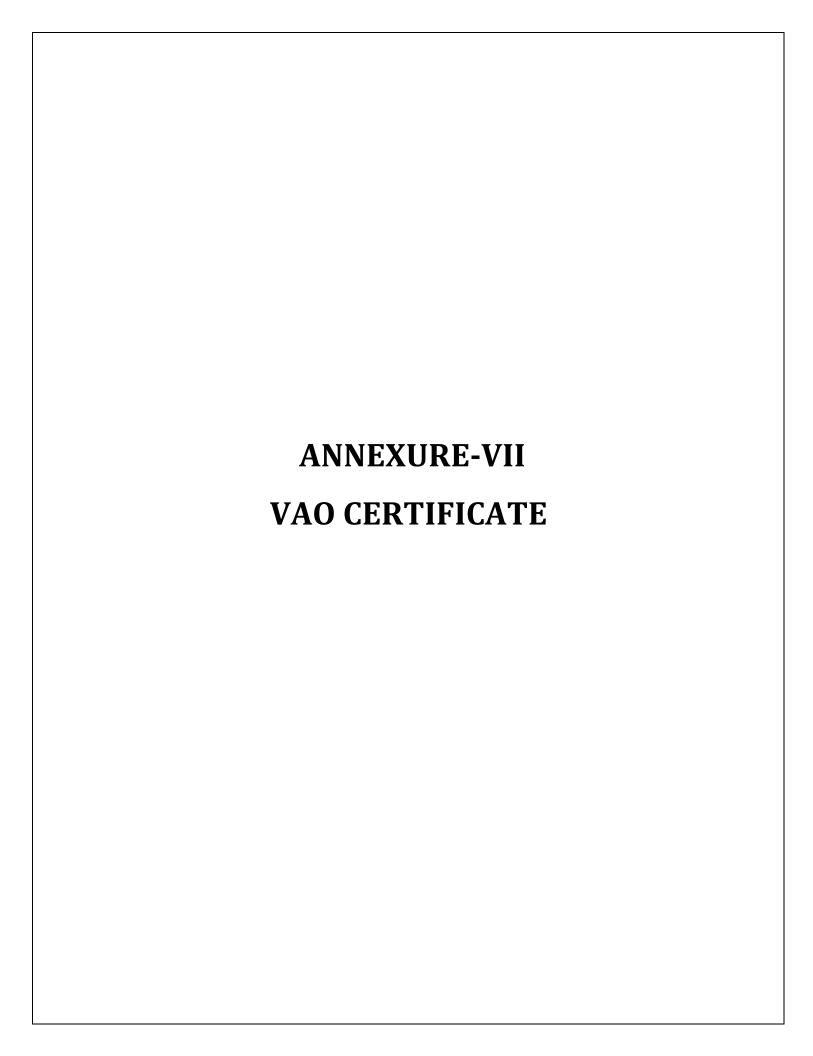












M/s. R.K.M Sand and Aggregates, Prop.D.Ravikumar Rough Stone & Gravel Quarry in the S.F.Nos.70/4A & 70/5B over an extent of 3.76.67ha. in Midithepalli Village, Shoolagiri Taluk, Krishnagiri District.

## GENERAL VIEW OF THE APPLIED LEASE AREA





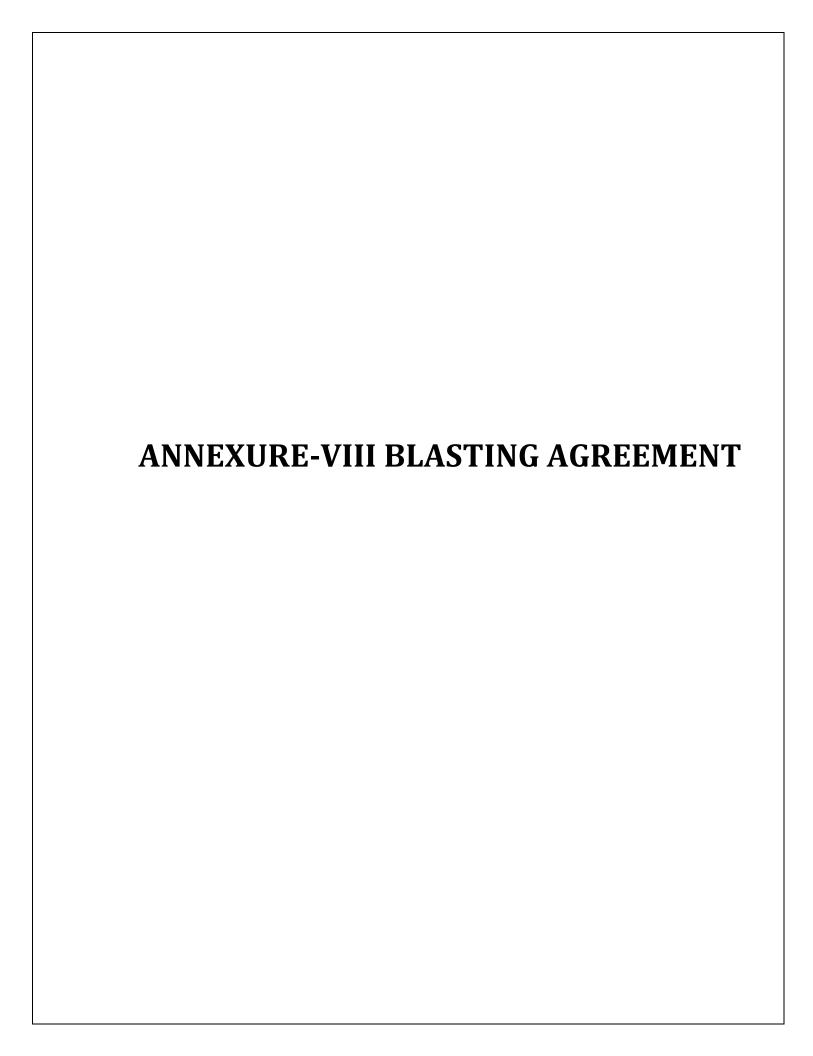
For M/s. R.K.M Sand and Aggregates,

D. Ravikumar (Deponent)

குராம் குர்வாக அலுவியும் விட்டுப்பாளி.

TEDOMET LONDIELLE FROMET DIELLE GUEDONE உள்வட்டு 070-மிடிக்கபன்னி கூடிப்பு மிடிக்கபன்னி Дипь вивы отоой: 70/4A, 70/5B, этой висть: 0.43.32, 3,33.35 Biood: 0.27,2.07 LIELT orasi: 984, 985 OTES SLEED SIED ENSINOT FREITISS க்க குவாயியை வுத்தி 300 ந் திற்றவர்கள் கொண்ற ECONT, HITE OF FORDIBECOND, BY BESTER, Lonor E Jal E BESONTO SUFF ELLA LE BESONTO OTON HOUSEONS SHORE ON DECONS (BOOK SHOULDES இச்சான் ஜ ஜடிக்கப்பக இறது என்பதனை பணிவுட்கா OBBOSEDE OBNOTEDO ESOS.

மிடிதேப்பள்ளி.





## VISHNU EXPLOSIVES



## **Blasting Contractor**

Office: Door No. 273-A, Keelpaiyur, Paiyur Village, Kaveripattinam, Krishnagiri Dt. Pin - 635 112. Magazine at: SF No. 344/3B, Paiyur Village, Kaveripattinam, Krishnagiri Dt.

Cell: 98427 44073, 99655 44073, 94437 44073

To

M/s. R.K.M Sand and Aggregates, Prop.D. Ravikumar. Villa No.126, Adarsh Palm. Retreat Villas, Devarabisanahalli, Bangalore,

Karnataka - 560 103.

Sir.

Sub: Willingness to do Explosives Blasting Works – Reg.

With respect to the above subject, we would like to introduce myself as the Explosives Blasting Contractors, for which our LICENCE NO: E/SC/TN/22/463(E37227) S.F.No.344/3B, Paiyur Village, Krishnagiri Taluk magazine is situated in No.273-A, Keel Paiyur Village, Kaveripattinam, Krishnagiri, Tamilnadu-635 112.

We were engaged in professional blasting contract works with all facilities and License holders to carry out blasting works in specified time and period covered under Explosives Rules, 2008.

We kindly request yourself to engage us to do Explosives Blasting Works in your proposed Rough stone & Gravel Quarry situated at S.F.No: 70/4A & 70/5B in Midithepalli Village. Shoolagiri Taluk, Krishnagiri District over an extent of 3.76.67 hectares.

SERVING BEST AT ALL TIMES

Thanking you.

Enclosure: Magazine License Copy.

PLOSIVES.

## अनुमन्ति प्ररूप एल. ई.-3 | LICENCE FORM LE-3

(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग । के अनुच्छेद 3(क) से (घ) देखिए।) (See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुनन्ति Licence to possess (c) for use explosives of class 1, 2,3.4.5.6 or 7 in a magazine

अनुकप्ति सं, (Licence No.) : E/SC/T/N/22/463(E37227) वाषिक फीस रुपए (Annual Fee Rs) 10400.

1. Licence is hereby granted to

M/s Vishnu Explosives (អាបិសាកា / Occupier : Shri G V.Sai Supramanian). Vishnu Explosives, 273-A. Keelpaiyur Village Kaveripatinam Taluk, Town/Village - Kaveripatinam. District KRISHNAGIRI, State-Tamil Nadu. Pircode - 655112



को अनुज्ञप्ति अनुदत्त की जाती है।

2 अनुत्रप्तिधारी की प्रास्थिति | Status of licensee : Proprietorship Firm

3 अनुजिप्त निम्निलिखित प्रयोजनी के लिए विधिमान्य है। Licence is valid only for the following purpose

possess for use of Detonators, Slurry Explosives, Detonating Fuse, Safety Fuse, -के उपयोग के लिए

4 अनुप्रपित दिस्फोटकों के निम्नलिखित किस्मी प्रकार और मांग के लिए विधिमान्य है।

Licence is valid for the following kinds and quantity of explosives, - (65) (a)

| Sr. No. | नाम और विवरण<br>Name and Description | वर्ग और प्रभाग<br>Class & Division | उप-प्रभाग<br>Sub-division | मात्रा किसी एक समय में<br>Quantity at any one time |
|---------|--------------------------------------|------------------------------------|---------------------------|----------------------------------------------------|
| 31. No. | Slurry Explosives                    | 2.0                                | 0                         | 4500 Kg                                            |
| 2.      | Detonating Fuse Safety Fuse          | 6,2                                |                           | 30000 Mtrs<br>10000 Mtrs                           |
| 4.      | Detonators                           | 6,3                                | 0                         | 44000 Nas.                                         |

(स) किसी एक कर्तेडर सास में सरिद्रे जाने वाले विस्फोटक की भाग (अनुस्पेद 3(स) और (स) के अधीन अनुसन्ति के लिए। (b) Quantity of explosives to be parchased in a calendar month/apphicable for licence under article 3(b) and (c)]

20 times a cahuse.

<sup>5</sup> मिम्नसिखित रेखांचित्र (रेखांचित्रों) से अन्जन्त परिसर की पुष्टि होती है। The licensed premises shall conform to the following drawing(s): .

रेखाचित्र का (Drawing No.) F/SC TN/22 463(E37227) दिनांक (Dated) 18/06/1990

6. अनुज्ञप्ति परिसर निम्निसिखित पते पर स्थित हैं। The licensed premises are situated at following address:

Survey No. 344/3B , बाम (Town/Village) : Palyur,Krishnagiri-taluk राज्य (State) KRISHNAGIRI जिला (District) द्राभाष (Phone) डे. मेल (E-Mail)

पुलिस थाना (Police Station) : Kaveripattinam पिनकोड (Pincode) 635112 फेक्स (Fax)

7. अनुजप्ति परिसर में निम्नतिष्ठित स्विधाएं अंतर्विष्ट है। The keessed premises consist of following facilities

main III magazine.lobby&dctonator room

8. अनुज्ञप्ति समय । समय पर यथासशोधित विरूपाटक अधिनियम 1884 और उनके अधीन विरुद्धित विरूपाटक नियम 2004 के उपवर्धा, शतौ और अतिरिक्त शतौ और निम्नतिश्चित उपाबर्ध्द के अधीन रहते हुए अनुदाल की जाती है। The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures

उपर्युक्त क्रम सं 5 में यथा कथित रेखायित (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए)।

Drawings (showing site, constructional and other details) as stated in settal No. 5 above, अनुजन्ति प्राधिकारी स्टारस हस्ता श्रीरत इस अनुजन्ति की शरी और अतिरिक्ति शरी। Conditions and Additional Conditions of this licence signed by the licensing authority दूरी परुप DE-2 [Distance Form DE-2]

9 यह अनुमन्ति तारीख 31 मार्च 1992 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 1992.

यह अनुजिद्दि, अधिनियम या उसके अधीन विरचित तियमां या अनुनूची एके भाग 4 के प्रति तिर्दिष्ट संट-ए।। के अधीन तथा उपवर्णित इस अनुजिद्दि की शर्ती का अधिक्रमण करने या यदि अनुकप्त परिसर योजना या उससे संतरन उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती

हैं, जहां वह लागू हो। This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

encles | The Date - 18 Ut/ 1990

संयक्त मुख्य विस्फोटक नियमक | Joint Chief Controller of Explosives South Circle, Chennai

- Change in Postal Address dated: 11/01/2017

  Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 15/01/2018

  Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 15/03/2018
- Amendment in Drawings/Facilities/Premises dated 11/10/2021
- Amendment of Quantity of Explosives: Monthly Purchase Limit dated 11/10/2021

Transfers:

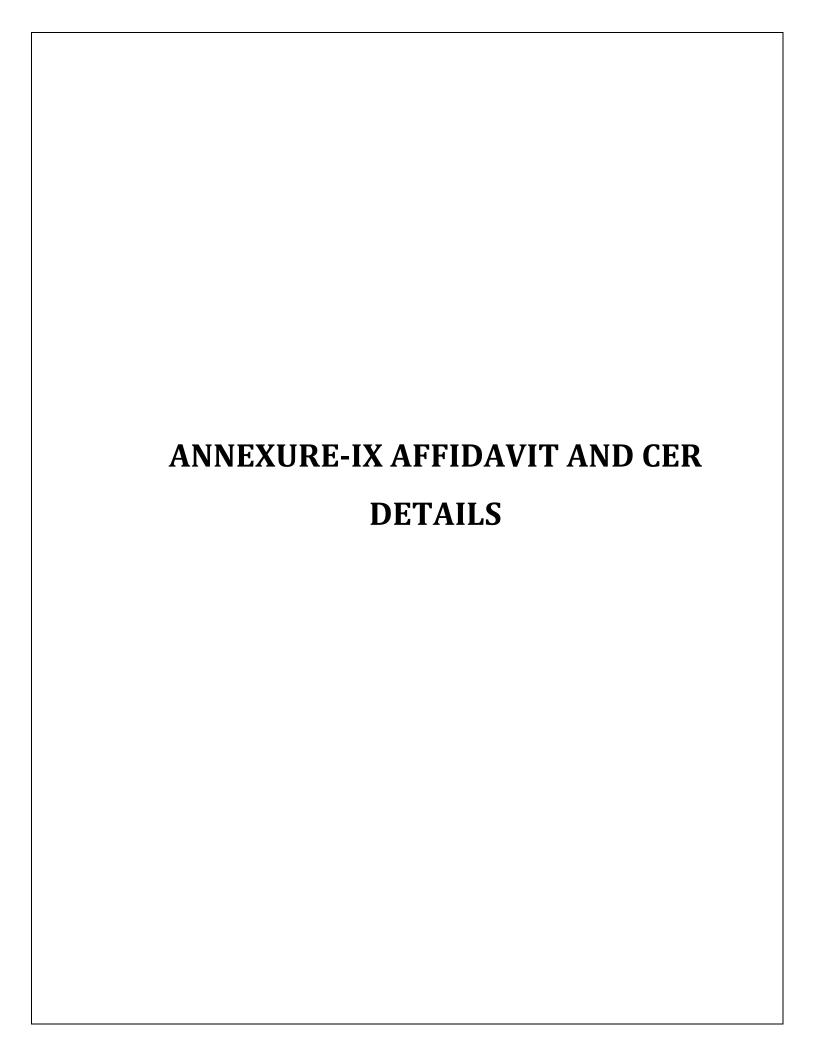
- Change in Licensee Name/Address Status dated 23:08:2011 Change in Licensee Name/Address/Status dated: 08:10:2021

नवीनीकरण के पृष्ठाकन के लिए स्थान Space for Endorsement of Renewal

नवीकरण की तारीख अन्जापन प्राधिकारी के हस्ताक्षर और स्टाम्प समाप्ति की तारीख Date of Expiry Date of Renewal Signature of lice using authority and stamp 10/03/2022 31/03/2027

Controller of Explosives, Vellore विस्फोटक नियंत्रक, येल्ल्य

Controller of Explosives, Vellara





தமிழ்நாடு तमिलनाडु TAMILNADU 29 JAN 2025 RKM Sand & Aggregates Midithepalli

K. SELVARANI
STAMP VENDOR
LICENCE No. 868 1994
HOSUR-655 199

## AFFIDAVIT TO SEIAA, TAMIL NADU

We, M/s. R.K.M Sand and Aggregates, Prop.D.Ravikumar, office at Villa No.126, Adarsh Palm, Retreat Villas, Devarabisanahalli, Bangalore, Karnataka – 560 103, do hereby solemnly declare and sincerely affirm that, We have applied for getting environment clearance to SEIAA, Tamil Nadu for quarry lease for Rough Stone & Gravel quarry over an extent of 3.76.67 Ha with Survey No. 70/4A & 70/5B, in Midithepalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.

- We swear to state and confirm that none of the following is situated within 10km radius of the quarry site for which, We have applied for environmental clearance,
  - a. Notified Protected areas under the wild life (Protection) Act, 1972 (NBWL).
  - b. Critically polluted areas as notified by the central pollution control board constituted under water (Prevention and control of Pollution) Act 1974.
  - c. Eco sensitive area as notified.



S.THANIGAINATHAN, B.Com., L.L.B.
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2. The following Corporate Environment Responsibility (CER) activities will be completed before commencement of the quarrying activities.

| CER Activity                                                              | Project cost (Rs)                       | CEP cost (Da) |  |
|---------------------------------------------------------------------------|-----------------------------------------|---------------|--|
| Carrying out various                                                      | , , , , , , , , , , , , , , , , , , , , | CER cost (Rs) |  |
| developmental works in the nearby region based on the need of the locals. | Rs.84,30,000/-                          | Rs.7,00,000/- |  |
| Total cost Allocation                                                     | Rs.84,30,000/-                          | Rs.7,00,000/- |  |

## 3. Details of quarry within 500m radius from the applied area:

| S.N | Name of the lessee/                                                                                                                        | Village &                                           | S.F. No.        | Extent in | Proceeding                                    | Lease                          |  |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------|-----------|-----------------------------------------------|--------------------------------|--|
| 0   |                                                                                                                                            | Taluk                                               |                 | Hectares  | Rc.No. & Date                                 | Period                         |  |
| 1.  | Thiru.B.Srikar,<br>S/o. Bharathy,<br>D.No.25, Shanthi<br>Nagar (West),<br>2 <sup>nd</sup> Cross,<br>Hosur – 635 109.                       | Midithepalli<br>Village<br>&<br>Shoolagiri<br>Taluk | 79              | 1.86.50   | Rc.No.646/2021/<br>Mines<br>Dated. 08.08.2024 | 08.08.2024<br>To<br>07.08.2034 |  |
| 2   | Thiru. D.Sreenivasalu,<br>S/o. Venkateshwarlu,<br>D.no.50, Radha<br>Lakshmi Nilaiyam,<br>Devachandra Main<br>Road,<br>Bangalore – 560 036. | Midithepalli<br>Village<br>&<br>Shoolagiri<br>Taluk | 80/1,<br>80/2   | 3.17.08   | Rc.No.1305/2018/<br>Mines<br>Dated.20.12.2022 | 20.12.2022<br>To<br>19.12.2032 |  |
| 3   | Thiru. Venkata Reddy,<br>S/o (Late) Uthama<br>Reddy,<br>Kolar Taluk,<br>Uddapanahalli,<br>Chakkarasanahalli,<br>Karnataka – 563 133        | Midithepalli<br>Village<br>&<br>Shoolagiri<br>Taluk | 81/2, &<br>82/1 | 2.05.92   | Rc.No.1308/2018/<br>Mines<br>Dated.31.10.2022 | 31.10.2022<br>To<br>30.10.2032 |  |

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| S.No | Name of the Applicant/ Lessee            | Village & Taluk | S.F. No. | Extent in Hectares | Proceeding<br>Rc.No. & Date | Lease<br>Period    |
|------|------------------------------------------|-----------------|----------|--------------------|-----------------------------|--------------------|
| 1.   | M/s. Sarva Infra                         | Midithepalli    | 79/1B1C  | 4.05.00            | Rc.No.09/2014/              | 28.10.2015         |
|      | Private Ltd,                             | Village         |          |                    | Mines                       | То                 |
|      | 540, 3 <sup>rd</sup> floor,<br>CMH Road, | &               |          |                    | dated 26.10.2015            | 27.10.2020         |
|      | Indira Nagar,                            | Shoolagiri      |          |                    |                             | (Lease<br>Expired) |
|      | Bangalore – 560<br>038.                  | Snoolagiri      |          |                    |                             | Exp                |

| S.No | Name of the<br>Applicant/ Lessee                                                                                                                | Village &<br>Taluk                      | S.F. No.            | Extent in Hectares | Proceeding<br>Rc.No. & Date | Lease<br>Period     |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------|--------------------|-----------------------------|---------------------|
| 1.   | M/s. R.K.M Sand and<br>Aggregates,<br>Prop:Thiru.Ravikumar,<br>Vill No.126, Adarsh<br>Palm, Retreat Villas,<br>Devarabisanahalli,<br>Bangalore, | Midithepalli Village & Shoolagiri Taluk | 70/4A<br>&<br>70/5B | 3.76.67            |                             | Instant<br>Proposal |

- 4. There will not be hindrance or disturbance to the people living on enrooted/ nearby our quarry site while transporting the mineral and due to quarrying activities.
- 5. There is no approved habitation within 300m radius from the periphery of our applied quarry.
- 6. We swear that afforestation will be carried out during the course of quarrying operation and maintained.
- 7. Insurance coverage will be arranged for the laborers working in our quarry site.
- 8. The existing road from the main road to quarry is in good condition and the same will be maintained and utilized for Transportation of Rough Stone & Gravel.

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- 9. We will not engage any child labor in our quarry site and we aware that engaging child labor is punishable under the law.
- 10. All types of safety / protective equipment will be provided and used by all the laborers working in our quarry.
- 11. No permanent structures, temple etc., are located within 500m radius from the periphery of our quarry.

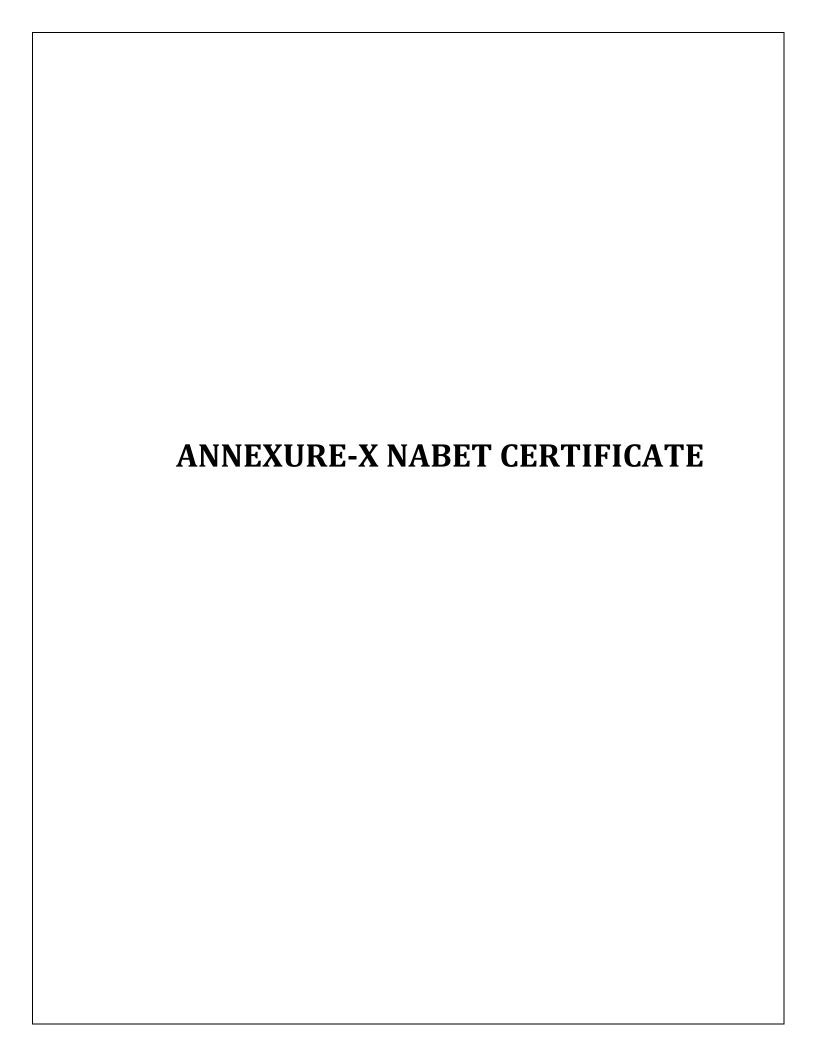
We ensure to do the social and Environment commitment as mentioned in the Mining plan to the best of our knowledge.

For M/s. R.K.M.Sand and Aggregates.,

(D. Ravikumar)
Proprietor

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## **National Accreditation Board for Education and Training**

## **Certificate of Accreditation**

## **Eco Tech Labs Pvt. Ltd., Chennai**

No.48, 2nd Main Road, Ram Nagar, South Extension, Pallikaranai, Chennai – 600100

The organization is accredited as **Category-A** under the QCI-NABET **Scheme for Accreditation of EIA Consultant Organization, Version 3**: for preparing EIA/EMP reports in the following Sectors-

| S. | Sector Description                                                                                                                           | Sector | Cot       |      |
|----|----------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|------|
| No | Sector Description                                                                                                                           |        | MoEFCC    | Cat. |
| 1. | Mining of minerals including opencast mining only                                                                                            | 1      | 1 (a) (i) | Α    |
| 2. | Thermal power plants                                                                                                                         | 4      | 1 (d)     | А    |
| 3. | Metallurgical industries                                                                                                                     | 8      | 3 (a)     | В    |
| 4. | Synthetic organic chemicals industry                                                                                                         | 21     | 5 (f)     | А    |
| 5. | Airports                                                                                                                                     | 29     | 7 (a)     | А    |
| 6. | Industrial estates/ parks/ complexes/ Areas, export processing zones (EPZs), Special economic zones (SEZs), Biotech parks, Leather complexes | 31     | 7 (c)     | А    |
| 7. | Building and construction projects                                                                                                           | 38     | 8 (a)     | В    |
| 8. | Townships and Area development projects                                                                                                      | 39     | 8 (b)     | В    |

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in RAAC minutes dated May 09, 2025 posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no QCI/NABET/ENV/ACO/25/3622 dated May 19, 2025. The accreditation needs to be renewed before the expiry date by Eco Tech Labs Pvt. Ltd., Chennai following due process of assessment.

Valid up to April 10, 2028

Issue Date May 19, 2025



Certificate No.
NABET/EIA/25-28/RA 0400

Variader Kanwas

Prof (Dr) Varinder S Kanwar (CEO – NABET)

For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to QCI-NABET website.

