DRAFT EIA & EMP FOR
PROPOSED ROUGH STONE & GRAVEL QUARRY
CATEGORY B1 - CLUSTER (CLUSTER AREA – 6.43.00 Ha.)

(Submitted for Public Hearing as per the provisions of EIA Notification 2006 & its amendments thereof)

ToR Identification No. TO26B0108TN5682646N (F. No. 13828), Dated: 24/07/2026

PROPOSED QUARRY LEASE DETAILS	
SURVEY NOS	**157/2**
VILLAGE	**THATHANAICKENPATTI NORTH**
TALUK	**PALANI TALUK**
DISTRICT	**DINDIGUL DISTRICT**
EXTENT	**1.48.00 Ha**
CLUSTER EXTENT	**6.43.00 Ha**
TOTAL PROPOSED PRODUCTION	**ROUGH STONE: 1,57,580 m^3 GRAVEL: 21,442 m^3 (3,03,765 TS / 1,10,460 m^3 OF ROUGH STONE & 42,884 TS / 21,442 m^3 OF GRAVEL FOR FIRST FIVE YEARS AND 1,29,580 TS / 47,120 m^3 OF ROUGH STONE FOR SECOND FIVE YEARS)**
LAND	**PATTA LAND**

(Sector No. 1(a) Sector No.1 as per NABET)
Category of the Project: B1 Cluster Mining, Total Cluster Area – 6.43.00 Ha
Baseline Monitoring Period – March 2026 to May 2026

APPLICANT

THIRU. P. MANIKANDAN, S/O.PERUMALSAMY,
DOOR NO.7/68, KINATHUKADAVU,
KARACHERY, COIMBATORE DISTRICT.

ENVIRONMENTAL CONSULTANT	LABORATORY
M/s. GLOBAL MINING SOLUTIONS *(NABET Accredited & ISO 9001 Certified Consultant)* Plot No. 6, S.F.No. 13/2, A2, VS City, RC Chettypatty, Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455. NABET Accreditation No: NABET/EIA/26-29/RA 0478, Valid Until - January 3rd, 2029 Contact: 97502 23535 & 94446 54520 Email: infoglobalmining@gmail.com, globalminingsolutionssalem@gmail.com	**M/s. SHRIENT ANALYTICAL & RESEARCH LABS PRIVATE LIMITED** (NABL Accredited Testing Laboratory) **Valid up to: 29.09.2029** #416/15, Dhargas Road, Perungalathur, West Tambaram, Chennai, Tamil Nadu, India.

SEPTEMBER- 2026

AMENDMENT PAGE

SL	Page No.	Section / Clause / Para / Line (as Applicable)	Date of Amendment	Amendment Made	Reasons of amendment	Signature of Person Authorizing Amendment
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

ACKNOWLEDGEMENT

M/s. Global Mining Solutions, Salem is very much thankful to Thiru.P.Manikandan, Lessee for the confidence and trust placed on the organization for carrying out Environmental Impact Assessment (EIA) study for the proposed Rough Stone and Gravel quarry over a lease extent of 1.48.00 Ha., & Cluster extent of 6.43.00 Ha., located at Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State and formulating the Environmental Management Plan (EMP). We also gratefully acknowledge the cooperation and assistance provided by concerned government authorities for collection of secondary information for the preparation of Draft EIA/EMP report. Our sincere thanks to the local people of Thathanaickanpatti North Village and the nearby villages for their whole hearted cooperation and constant involvement during the entire field study without which the study would not have been possible.

For: M/s. Global Mining Solutions



(M. Prabu)

Managing Director

UNDERTAKING

In line with MoEFCC OM No. J – 11013/41/2006-IA. II (I) dated 5th October 2011, we hereby give our undertaking for owning the content and information in the EIA/EMP report submitted for EC of the proposed Rough Stone and Gravel quarry over a lease extent of 1.48.00 Ha., & Cluster extent of 6.43.00 Ha located at Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State.

For: M/s. Global Mining Solutions



Name: M.Manikandan

EIA Coordinator – Mining

UNDERTAKING

In Line with OM no. J-11013/41/2006-IA.II (1) dated 4th Aug 2009 and its Amendments, we hereby confirm that all Terms of Reference issued by Ministry of Environment, Forest and Climate Change vide ToR Identification No. TO26B0108TN5682646N (F. No. 13828), Dated: 24/07/2026 of Draft EIA/EMP report for the proposed Stone and Gravel Quarry over a lease extent of 1.48.00 Ha., & Cluster extent of 6.43.00 Ha., located at at Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State for the Total production of Rough Stone is 1,57,580 m^3 & Gravel is 21,442 m^3 (3,03,765 Ts / 1,10,460 m^3 Of Rough Stone & 42,884 Ts / 21,442 m^3 Of Gravel for First Five Years And 1,29,580 Ts / 47,120 m^3 Of Rough Stone for Second Five Years) from the proposed lease area and the details has been complied in the Draft EIA/EMP report is factually correct.

The EIA/EMP report has been prepared by M/s. Global Mining Solutions (GMS), Salem. GMS is a NABET accredited consultant for preparation of EIA/EMP report of Mining of Minerals (Opencast & Under Ground Mining) vide certificate No. NABET/EIA/26-29/RA 0478, valid till 03.01.2029.

For: M/s. Global Mining Solutions

M. MANIKANDAN
EIA CO-ORDINATOR
GLOBAL MINING SOLUTIONS
SALEM

Name: M.Manikandan
EIA Coordinator – Mining

भारतीय गुणवत्ता परिषद
QUALITY COUNCIL OF INDIA
QCI Creating an Ecosystem for Quality

NABET

National Accreditation Board for Education and Training

Certificate of Accreditation

Global Mining Solutions, Salem

Plot No. 6, S.F.No. 13/2, A2, VS City,RC Chettypatty, Kottamettupatty, Omalur,Salem, Tamil Nadu – 636 455

*Global Mining Solutions, Salem is Re-Accredited (RA1) **as Category-A organization** under the QCI-NABET Scheme for Accreditation of EIA Consultant Organizations (Version 3), for the preparation of EIA/EMP reports in the sectors listed below, as per the specified categories*

S.No	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1.	Mining of minerals including opencast / underground mining	1	1 (a) (i)	A
2.	Thermal power plants	4	1 (d)	B
3.	Metallurgical industries (ferrous only)	8	3 (a)	A
4.	Metallurgical industries (non-ferrous only)	8		B
5.	Cement plants	9	3 (b)	A
6.	Synthetic organic chemical industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)	21	5 (f)	A
7.	Distilleries	22	5 (g)	A
8.	Industrial estates/ parks/ complexes/areas, export processing Zones(EPZs), Special Economic Zones(SEZs), Biotech Parks, Leather Complexes	31	7 (c)	B
9.	Common hazardous waste treatment, storage and disposal facilities (TSDFs)	32	7 (d)	B
10.	Common Effluent Treatment Plants (CETPs)	36	7 (h)	B
11.	Common Municipal Solid Waste Management Facility (CMSWMF)	37	7 (i)	B
12.	Building and construction projects	38	8 (a)	B
13.	Townships and Area development projects	39	8 (b)	B

Note: Names of approved experts and sectors are mentioned in RAAC minutes dated February 05, 2026, 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/26/4024 dated February 16, 2026. The accreditation needs to be renewed before the expiry date by Global Mining Solutions, Salem following due process of assessment.

Valid up to
January 03, 2029

Issue Date
February 16, 2026

Certificate No.
NABET/EIA/26-29/RA 0478

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.

DECLARATION BY EXPERTS

Declaration by Experts contributing to the proposed Rough Stone and Gravel Quarry over a lease extent of 1.48.00 Ha. & Cluster extent of 6.43.00 Ha located at Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State.

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

EIA Coordinator Name: M. Manikandan

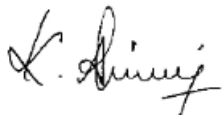
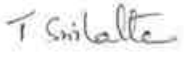


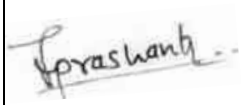
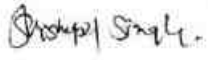
Signature & Date

Period of involvement: March 2026 to May 2026.

Contact information:

M/s Global Mining Solutions
Plot No.6, SF No. 13/2, A2, VS City, RC Chettypatty,
Kottamettupatty, Omalur,
Salem, Tamil Nadu – 636 455

S. No.	*Functional areas*	*Name of the expert/s*	*Involvement (period and task**)*	*Signature and Date*
1	*AP*	*Dhanalakshmi Ramanathan*	*Assessment of existing air quality, Impact of the project on ambient air and suggested mitigation measures for air pollution.* *Period: March 2026 to May 2026.*	
2	*WP*	*Abirami Kaliaperumal*	*Assessment of existing water quality, impact of the project on surface and ground water quality, suggested mitigation measures for minimizing the impact.* *Period: March 2026 to May 2026.*	
3	*SHW*	*Ramadoss N*	*Assessment of waste generated from the project, suggested waste management practices.* *Period: March 2026 to May 2026.*	
4	*SE*	*Sarasvathy K*	*Baseline SE studies. Data compilation and assessment. Impact of the project on SE status of the area. Formulation of CER plan.* *Period: March 2026 to May 2026.*	
5	*EB*	*Saravanan S*	*Baseline data collection of related to ecology of the area.* *Period: March 2026 to May 2026.*	
6	*HG*	*Ravinthiran N*	*Hydrogeological feature of the area. Ground water depth and impact of project on ground water of the area.* *Period: March 2026 to May 2026.*	
7	*AQ*	*Srilatha Thiruveedhula*	*Air quality modeling utilizing the area source model. Predication of the ground level concentration of the dust. Suggesting suitable mitigation measures.*	

			Period: March 2026 to May 2026.	
8	*NV*	*Dhanalakshmi Ramanathan*	*Ambient noise study of the area. Incremental noise generation due to quarry operation and impact of the noise due to the project.* *Period: March 2026 to May 2026.*	
9	*LU*	*Srilatha Thiruveedhula*	*Preparation of land use map based on satellite imagery. Land use classification and analysis. Impact prediction of the project on the surrounding land environment.* *Period: March 2026 to May 2026.*	
10	*RH*	*S.V. Prashant*	*Identification of the Risk related to the mining activities. Preparation of emergency disaster management plan. Plan for supply of safety equipment for the worker.* *Period: March 2026 to May 2026.*	
11	*SC*	*Shisupal Sing*	*Soil monitoring, secondary data collection on soil type, soil management practices, utilization of topsoil.* *Period: March 2026 to May 2026.*	
12	*GEO*	*Valliappan Meyyappan*	*Geological map, stability of quarry and dump, management plan for mine stability, after use of mining quarry and geological feature of the area.* *Period: March 2026 to May 2026.*	

EIA CONTENT

CHAPTER NO	TITLE	PAGE NO
1	**INTRODUCTION**	**59**
1.1	PURPOSE OF THE REPORT	59
1.2	IDENTIFICATION OF PROJECT AND PROJECT PROPONENT	61
1.3	BRIEF DESCRIPTION OF NATURE, SIZE, LOCATION OF THE PROJECT AND ITS IMPORTANCE TO THE COUNTRY, REGION	62
1.4	IMPORTANCE OF THE PROJECT TO THE REGION	65
1.5	REGULATORY COMPLIANCE	65
1.6	NEED AND JUSTIFICATION OF THE PROJECT	70
1.7	STRUCTURE OF THE REPORT	70
2	**PROJECT DESCRIPTION**	**73**
2.1	TYPE OF PROJECT	73
2.2	NEED FOR THE PROJECT	73
2.3	LOCATION OF THE PROJECT	73
2.4	LAND USE PATTERN OF THE PROJECT AREA	81
2.5	SIZE OR MAGNITUDE OF OPERATION	82
2.6	TOPOGRAPHY AND DRAINAGE	82
2.7	GEOLOGY	82
2.8	RESOURCES AND RESERVES	80
2.9	PROCESS DESCRIPTION AND TECHNOLOGY	89
2.10	CONCEPTUAL MINING PLAN / FINAL MINE CLOSURE PLAN	94
2.11	PROJECT REQUIREMENT	96
3	**DESCRIPTION OF THE ENVIRONMENT**	104
3.1	STUDY AREA, PERIOD COMPONENTS AND METHODOLOGY	104
3.2	ENVIRONMENTAL SETTING OF THE STUDY AREA	105
3.3	STUDY PERIOD	106
3.4	ESTABLISHMENT OF BASELINE FOR VALUED ENVIRONMENTAL COMPONENTS	106
3.5	METEOROLOGICAL ENVIRONMENT	110
3.6	AMBIENT AIR MONITORING DATA	117
3.7	WATER ENVIRONMENT	123
3.8	NOISE MONITORING	130
3.9	SOIL SAMPLING ANAYSIS	133
3.10	BIOLOGICAL ENVIRONMENT	136
3.11	LAND USE	142
3.12	SOCIOECONOMIC ENVIRONMENT	150
3.13	HYDROGEOLOGY OF THE STUDY AREA	153
4	**ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES**	**162**

4.1	INTRODUCTION	162
4.2	DETAILS OF INVESTIGATED ENVIRONMENTAL IMPACTS DUE TO PROJECT LOCATION POSSIBLE ACCIDENTS, PROJECT DESIGN, PROJECT CONSTRUCTION, REGULAR OPERATIONS FINAL DECOMMISSIONING OR REHABILITATION OF A COMPLETE PROJECT.	163
4.3	MEASURES FOR MINIMIZING AND /OR OFFSETTING ADVERSE IMPACTS IDENTIFIED	164
4.4	VEGETATION IN THE CORE ZONE	169
4.5	IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF ENVIRONMENTAL COMPONENTS	170
4.6	ASSESSMENT OF SIGNIFICANCE OF IMPACTS (CRITERIA FOR DETERMINING SIGNIFICANCE, ASSIGNING SIGNIFICANCE)	183
4.7	MITIGATION MEASURES	184
5	**ANALYSIS OF ALTERNATIVES (TECHNOLOGY & SITES)**	189
5.1	DESCRIPTION OF EACH ALTERNATIVE	189
5.2	SUMMARY OF ADVERSE IMPACTS OF EACH ALTERNATIVE	189
5.3	MITIGATION MEASURES PROPOSED FOR EACH ALTERNATIVE	189
5.4	SELECTION OF ALTERNATIVE	189
6	**ENVIRONMENTAL MONITORING PROGRAMME**	**191**
6.1	TECHNICAL ASPECTS OF THE MONITORING THE EFFECTIVENESS OF MITIGATION MEASURES (INCL MEASUREMENTS, METHODOLOGIES, FREQUENCY LOCATION DATA ANALYSIS, REPORTING SCHEDULES EMERGENCY PROCEDURES DETAILED BUDGET AND PROCUREMENT SCHEDULES)	191
7	**ADDITIONAL STUDIES**	195
7.1	PUBLIC CONSULTATION	195
7.2	RISK ASSESSMENT & MANAGEMENT	195
7.3	DISASTER MANAGEMENT PLAN	199
7.4	CUMULATIVE IMPACT STUDY	201
7.5	CLUSTER MINE CLOSURE PLAN	206
7.6	SLOPE STABILITY PLAN	206
8	**PROJECT BENEFITS**	**208**
9	**ENVIRONMENTAL COST BENEFIT ANALYSIS**	**209**
10	**ENVIRONMENTAL MANAGEMENT PLAN**	**210**
10.1	DESCRIPTION OF THE ADMINISTRATIVE ASPECTS OF ENSURING OF ENSURING THAT MITIGATIVE MEASURES ARE IMPLEMENTED AND THEIR EFFECTIVENESS MONITORED AFTER APPROVAL OF THE EIA	210
11	**SUMMARY AND CONCLUSIONS**	217
11.1	OVER ALL JUSTIFICATION FOR IMPLEMENTATION OF THE PROJECT	217
11.2	EXPLANATION OF HOW ADVERSE EFFECTS HAVE BEEN MITIGATED	222
11.3	ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES	230
12	**DISCLOSURE OF CONSULTANTS ENGAGED**	**237**

FIGURE LIST

FIGURE NO	TITLE	PAGE NO
1.1	SATELLITE IMAGE SHOWING PROPOSED ML AREA	61
1.2	ENVIRONMENTAL SETTINGS MAP	65
2.1	LOCATION MAP	74
2.2	GOOGLE IMAGE SHOWING PROJECT SITE	75
2.3	SITE CONNECTIVITY MAP	76
2.4	TOPO MAP – 10 KM RADIUS	79
2.5	LEASE PLAN OF THE PROJECT AREA	80
2.6	VILLAGE MAP	81
2.7	GEOLOGY MAP OF PROJECT AREA	84
2.8	PROCESS FLOW DIAGRAM	89
2.9	YEAR WISE DEVELOPMENT AND PRODUCTION PLAN & SECTIONS	91
2.10	CONCEPTUAL PLAN	96
2.11	WATER BALANCE CHART	97
2.12	TRAFFIC STUDY MAP	99
3.1	SATELLITE MAP	109
3.2	TOPO MAP (10 KM RADIUS)	109
3.3	SEISMIC MAP OF INDIA	115
3.4	WIND ROSE PLOT DURING MARCH TO MAY 2025	116
3.5	BASE MAP OF AMBIENT AIR MONITORING LOCATIONS	118
3.6	AMBIENT AIR DATA FROM AAQ1	120
3.7	AMBIENT AIR DATA FROM AAQ2	120
3.8	AMBIENT AIR DATA FROM AAQ3	121
3.9	AMBIENT AIR DATA FROM AAQ4	121
3.10	AMBIENT AIR DATA FROM AAQ5	122
3.11	AMBIENT AIR DATA FROM AAQ6	122
3.12	AMBIENT AIR DATA FROM AAQ7	123
3.13	BASE MAP OF GROUND WATER SAMPLING LOCATIONS	126
3.14	BASE MAP OF SURFACE WATER SAMPLING LOCATIONS	126
3.15	VALUES OF FEW COMMON PARAMETERS OF THE GROUNDWATER ANALYSIS	129
3.16	VALUES OF FEW COMMON PARAMETERS OF THE SURFACEWATER ANALYSIS	129
3.17	BASE MAP OF NOISE MONITORING LOCATIONS	131
3.18	DAY EQUIVALENT VALUES IN 7 LOCATIONS	132
3.19	BASE MAP OF SOIL SAMPLING LOCATIONS	134
3.20	REMOTE SENSING SATELLITE IMAGE	142

3.21	LAND USE/LAND COVER MAP OF THE STUDY AREA	146
3.22	VILLAGE MAP OF THE STUDY AREA	150
3.23	10 KM RADIUS OF THE DRAINAGE MAP	154
3.24	10 KM RADIUS OF THE GEOLOGY MAP	157
3.25	10 KM RADIUS OF THE STUDY AREA GEOMORPHOLOGY MAP	158
3.26	10 KM RADIUS OF THE STUDY AREA SOIL TYPE MAP	160
4.1	WATER BALANCE DIAGRAM	168
4.2	ISOPLETH OF GLC PREDICTION FOR PM2.5	177
4.3	ISOPLETH OF GLC PREDICTION FOR PM10	178
4.4	ISOPLETH OF GLC PREDICTION –CUMULATIVE FOR PM2.5	179
4.5	ISOPLETH OF GLC PREDICTION –CUMULATIVE FOR PM10	180
10.1	ORGANIZATION CHART	214

TABLE LIST

TABLE NO	TITLE	PAGE NO
1.1	CLUSTER MINES DETAILS	60
1.2	PROJECT IDENTIFICATION	61
1.3	DETAILS OF PROJECT PROPONENT	62
1.4	BRIEF DESCRIPTIONS OF THE PROJECT	62
1.5	PRESENT LEGAL STATUS	67
2.1	CO-ORDINATES OF THE PROJECT SITE	74
2.2	MINE LEASE AREA AND ITS OWNERSHIP	75
2.3	SITE CONNECTIVITY	76
2.4	SALIENT FEATURES OF THE PROJECT	77
2.5	ENVIRONMENTAL SETTINGS OF THE PROJECT SITE	78
2.6	LAND USE PATTERN OF THE PROJCET AREA	82
2.7	AVAILABLE GEOLOGICAL RESOURCES	87
2.8	AVIALABLE MINEABLE RESERVES	88
2.9	MACHINERY DETAILS	91
2.10	DETAILS OF BLASTING	92
2.11	YEAR WISE PRODUCTION PLAN	93
2.12	ULTIMATE PIT DIMENSION	95
2.13	LAND USE PATTERN OF THE PROJECT SITE	95
2.14	WATER REQUIREMENT	96
2.15	DETAILS OF FUEL REQUIREMENT	97
2.16	DETAILS OF MANPOWER REQUIREMENT	98
2.17	EXISTING TRAFFIC FLOW	101
2.18	MINERAL HOURLY TRANSPORTATION REQUIREMENT	101
2.19	SUMMARY ON TRAFFIC VOLUME	101
2.20	MODIFIED LEVEL OF SERVICE	102
3.1	ENVIRONMENTAL SETTINGS OF THE STUDY AREA	105
3.2	RAINFALL DATA	113
3.3	METEOROLOGICAL DATA RECORDED AT SITE	114
3.4	AMBIENT AIR QUALITY MONITORING LOCATIONS	118
3.5	RESULTS OF AIR SAMPLING ANALYSIS	119

3.6	WATER SAMPLING LOCATIONS	125
3.7	SURFACE WATER ANALYSIS RESULTS	127
3.8	GROUND WATER ANALYSIS RESULTS	128
3.9	NOISE MONITORING RESULTS	132
3.10	RESULTS OF SOIL SAMPLE ANALYSIS	135
3.11	LIST OF FLORA	137
3.12	LIST OF FAUNA	140
3.13	MAJOR LAND USE UNITS	144
3.14	MAJOR LAND USE UNITS OF THE STUDY AREA IN PERCENTAGE	149
3.15	POPULATION PROFILE OF THE STUDY AREA	151
3.16	POPULATION PROFILE - THATHANAICKENPATTI NORTH VILLAGE	151
3.17	EDUCATIONAL INFRASTRUCTURE	152
3.18	MEDICAL INFRASTRUCTURE	152
3.19	OTHER INFRASTRUCTURE	153
4.1	GROUND WATER LEVEL STATUS	169
4.2	IMPACTS AND MITIGATION MEASURES FOR FAUNA	170
4.3	CONCENTRATIONS OF PM2.5 & PM10 AFTER PROJECT IMPLEMENTATION	181
4.4	CLUSTER CONCENTRATIONS OF PM2.5 AFTER PROJECT IMPLEMENTATION	181
4.5	CONCENTRATIONS OF PM10 AFTER PROJECT IMPLEMENTATION	181
4.6	CLUSTER CONCENTRATIONS OF PM10 AFTER PROJECT IMPLEMENTATION	182
4.7	NOISE LEVELS IN MONITORING LOCATIONS	183
4.8	IMPACTS ON HUMANS DUE TO VARIOUS MINING ACTIVITIES	186
6.1	ENVIRONMENTAL MONITORING SCHEDULE	192
6.2	IMPORTANT RECORDS TO BE MAINTAINED BY PP	194
6.3	ENVIRONMENTAL MANAGEMENT PLAN BUDGET	194
7.1	HAZARDS AND PRECAUTIONARY MEASURES	196
7.2	DETAILS OF QUARRIES WITHIN 500M RADIUS	201
7.3	SALIENT FEATURES OF EXISTING & PROPOSED QUARRIES	203
7.4	CUMULATIVE PRODUCTION LOAD	205
8.1	CER ACTIVITIES	208
10.1	ENVIRONMENTAL MANAGEMENT PLAN	211
10.2	ENVIRONMENTAL MANAGEMENT PLAN BUDGET	215

11.1	DESCRIPTION OF THE LEASE AREA	220
11.2	DETAILS OF AMBIENT AIR QUALITY MONITORING LOCATIONS	222

LIST OF ANNEXURES

S. NO	CONTENTS	ANNEXURE NO
1	TERMS OF REFERENCE (TOR)	1
2	PRECISE AREA COMMUNICATION LETTER	2
3	APPROVED MINING PLAN WITH PLATES	3
4	500-METER RADIUS LETTER	4
5	VAO CERTIFICATE	5
6	LAND DOCUMENT	6
7	MONITORING REPORT	7
8	LAB NABL CERTIFICATE	8
9	CER LETTER	9

COMPLIANCE TO TERMS OF REFERENCE

S.No	TOR Points	Reply	Page No
SEAC Conditions - Site Specific			
1	The PP has obtained land ownership consent for 15 years mentioning that the lessee can carry out desired business activity in the land. However, the PP shall furnish revised land consent document specifically mentioning that the permission granted is for quarry operations in the said land.	The observation is noted. The **revised Land Owner Consent Document** has been obtained from the landowner, specifically mentioning that permission is granted to the lessee/Project Proponent to undertake **quarry operations in the said land** for the proposed project. The revised consent document is **enclosed.**	**-**
2	The PP has submitted the Patta document showing three numbers of land owners, whereas the consent document has been given by four members. The PP shall clarify this discrepancy by providing supporting ownership documents/revised land consent document signed by all legitimate land owners duly registered and signed by all land owners as per Patta.	The Patta extracts **Nos. 1178 & 1193** pertaining to **Survey Nos. 157/2 and 157/3, Thathanayakkanpatti North Village, Palani Taluk, Dindigul District**, originally contained the names of four landowners, namely **Shri. Nataraj, Shri. Manikandan, Shri. Sundarraj and Shri. Gopalakrishnan.** Subsequently, as per the **Registered Sale Deed dated 06.11.2025, Document No. 4200/2025**, Shri. Gopalakrishnan has transferred his one-fourth share in the subject property to the other co-owners for valid consideration. Accordingly, the ownership rights over the subject land are now vested with the remaining three legitimate landowners, namely	

		Shri. Nataraj, Shri. Manikandan, and Shri. Sundarraj. In view of the above, a **revised Land Owner Consent Document**, duly executed by the three present legitimate landowners, has been obtained. The revised consent specifically grants permission for undertaking **quarry operations** in the subject land. The following supporting documents are enclosed for verification: 1. Revised Land Owner Consent Document signed by the three present landowners. 2. Registered Sale Deed dated 06.11.2025, **Document No. 4200/2025**, evidencing the transfer of Shri. Palanichamy's share. 3. Relevant Patta extracts for the subject Survey Nos. **157/2 and 157/3**. Hence, the discrepancy in the number of consent signatories has been clarified, and the revised land consent has been obtained from the present legitimate landowners.	
3	During the meeting, from the KML, a filled-up portion was observed in the lease area. The PP has stated that it is drying of coir and will be removed	Photo evidence will be submitted along with final EIA report. The PP shall	

	while carrying out quarry operation. The PP shall remove the coir observed in the northern portion of the lease area and furnish geo-tagged photographic evidence for the same while EIA.	ensure that the coir is completely removed from the lease area prior to commencement of the quarrying operation. **Geo-tagged photographic evidence** showing the removal of the coir and the cleared northern portion of the lease area will be furnished along with the **final EIA report** for verification.	
4	The PP shall provide Garland drain around the periphery of the lease area and the same should be included in EMP.	Agreed, we will provide Garland drain around the periphery of the lease area and furnish the photograph along with the Final EIA report.	-
5	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 statutory personnel, appropriate environmental monitoring, good maintenance of haul roads and village/panchayat roads, authorized blasting operation 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 Organization chart of the Committee with defining the role of the members (iii) The 'Standard Operating Procedures' (SoP) executing the planned activities.	A cluster management committee including all the proponents of the rough stone quarrying projects within the cluster of 500 m radius will be constituted for the effective implementation of appropriate environmental management plan. Affidavit in this regard will be submitted during final EIA/EMP Report.	-

6	The PP shall install the CCTV camera for the continuous surveillance of mining activity & furnish the photographic/ videographic evidence along with the EIA report.	Agreed, we will install the CCTV camera for the continuous surveillance of mining activity & furnish the photographic / videographic evidence along with the Final EIA report.	**-**
SEAC Conditions - Standard			
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.	Not Applicable This is a proposed new project. No mining has been carried out in this lease area so far.	-
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.	VAO certificate regarding the location of habitations within 300 m radius from the periphery of the site is attached as Annexure 5. There are no approved Structures within 300 m Radius.	-
3	The proponent is requested to carry out a survey and enumerate on the structures located within the radius of	A Site survey will be conducted to identify and list structures located within a 500 m radius from the	-

	(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.	Proposed Quarry and structures located within 500 m radius are given in the EIA Report.	
4	The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc located within 1 km of the proposed quarry.	A detailed hydro-geological report of the proposed project will be incorporated in the Final EIA/EMP Report.	153
5	The Proponent shall carry out Bio diversity study through Department of Ecology and Environmental Sciences. Pondicherry University and the same shall be included in EIA Report.	The bio diversity study carried out by our FAE is given in section 3.10 of Chapter 3. Study report through reputed institute will be incorporated in the final EIA / EMP report.	136
6	The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.	There are two Reserved Forest, one Wild Life Sanctuary within a radius of 10 Km. The R.F & Wild Life Sanctuary in the buffer zone (10 km radius) are detailed below. Andipatti R.F – 7.8 Km (SW) Periyammapatti R.F – 8.4 Km (SE) Kodaikanal wildlife sanctuary – 6.5Km (SW)	-
7	In the case of proposed lease in an existing (or old) quarry where the	Not Applicable It is fresh quarry lease applied area.	-

	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.	Slope stability study through reputed institute will be conducted once the depth reaches 25 m.	-
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	Affidavit for blasting operation will be incorporated in the Final EIA/EMP report.	-

	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.	Controlled blasting techniques using delay detonators and optimum charge per delay will be implemented in this quarry. The details on blasting parameters are given in section 2.9.2 of Chapter 2.	92
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.	Prior to this project, the PP had not carried out any quarrying operations.	-
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 the following details from AD/DD, mines.	Not Applicable It is fresh quarry lease applied area.	-
13	What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?		
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. · If EC 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).	Project coordinates superimposed in satellite imagery and topo map given as Figure No – 3.2 and Figure 3.3. Geology and Geomorphology map are provided in Figure No – 3.24 and Figure No – 3.25, Chapter 3.	109 157 & 158
16	The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc.,	The Drone Video Survey covering the cluster, green belt and fencing will be carried out and submitted during the Environmental Clearance appraisal.	-
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.	There are no trees within ML area. Fencing and plantations are under process. Greenbelt / Plantation will be carried out in the safety zone to enhance the vegetative growth and aesthetic in the safety zone area. In the post mining stage, an area of 0.38.50 Ha will be under greenbelt and plantation.	-
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	Geological reserves – 12,20,175 Ts / 4,43,700 m3 of Rough Stone and 59,160 Ts / 29,580 m3 of Gravel and Mineable Reserves is estimated at 4,33,345 Ts / 1,57,580 m3 of Rough stone and 42,884 Ts / 21,442 m3 of Gravel. The proposed production of	87 & 162

	environment, and the remedial measures for the same.	3,03,765 Ts / 1,10,460 m3 of Rough Stone & 42,884 Ts / 21,442 m3 of Gravel for First Five Years and 1,29,580 Ts / 47,120 m3 of Rough Stone for Second Five Years. Methodology and Justification are presented in chapter 2. The anticipated impact and its mitigation measures are detailed in Chapter 4.	
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.	Complied. Please refer figure 10.1 of Chapter 10.	210
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 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	Hydro-geological study report will be incorporated in the Final EIA / EMP report.	153

	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.	The baseline data were collected (March 2026 to May 2026) for the environmental components including land, soil, water, air, noise, biology, socio-economy, and the results have been discussed in Chapter 3.	107
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.	Detailed cumulative impact study has been carried and the same is incorporated in the Chapter 7. Accordingly, a detailed Environment Management Plan is prepared considering air, water, noise and soil environment and the details are given in Chapter 10.	201 210
23	Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.	Runoff water during rainy season will be collected in the bottom quarry through proper drainage pattern and the collected water will be used for plantation and dust suppression during dry season. Rain water harvesting Plan is given in section 4.3.2 of chapter 4. The water balance is given in chapter 4.	167
24	Land use of the study area delineating forest area, agricultural land, grazing	Land use of the study area delineating forest area, agricultural land, grazing	142 & 81

	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.	land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features has been discussed in Section 3.10 of Chapter 3. The land use plan of the project area showing per-operational, operational and post-operational phases are discussed in section 2.4 of Chapter 2.	
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.	As per the mining plan, there is no overburden anticipated during the entire Rough Stone quarrying operation. The excavated rough stone will be directly loaded into a tipper to the needy crusher/other buyers. Top soil will be preserved in the safety zone and utilized for plantation purpose.	-
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.	Not applicable. The project is not located in any of the said areas mentioned in the condition.	-
27	Description of water conservation measures proposed to be adopted in the Project should be given. Details of	Rain water falling in the quarry will be harvested in the sump at the lowest level of the quarry. This sump will act as	167

	rainwater harvesting proposed in the Project, if any, should be provided.	a settling pond to prevent solids escaping along with discharge, before outlet. etc. Towards surface runoff management, a garland drain will be constructed around the quarry and will be connected to a settling pond with silt traps. The supernatant clear water from the settling pond will be flow to the downstream users. Rain water harvesting plan is given in section 4.3.2 of Chapter 4.	
28	Impact on local transport infrastructure due to the Project should be indicated.	There is no significant impact on the local traffic due to the proposed project. The traffic density study is given in Chapter 2, Sec 2.11.6.	99
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.	Flora species within 300 m radius is given in section 3.10.	136
30	A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.	Detailed Mine Closure plan is given in Chapter 2, sec 2.8.	87
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.	Accepted. It will be done.	-

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.	The Greenbelt plan is detailed in Chapter 4, Sec 4.4.	169
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.	Accepted. Green belt development work is in progress. Proof photographs on green belt will be incorporated in the Final EIA / EMP report.	-
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.	A disaster management plan is prepared and details are given in Chapter 7, Sec 7.3.	199
35	A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete	A Risk Assessment and management Plan is prepared and given in Chapter 7, Sec 7.2.	195

	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.	Anticipated Occupational Health impacts of the project is given detailed in Chapter 4. Sec 4.7.4.	186
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.	No major impact on public health will be there since the villages are located more than 1km from the lease area. Details of CER are discussed under Chapter No. 8	208
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.	Detailed Socio-Economic study is carried out and it is given in Chapter 3, Sec 3.12.	150
39	Details of litigation pending against the project, if any, with direction	There is no litigation pending against the project.	-

	/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.	The project benefits are given in Chapter 8.	208
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.	Not Applicable It is fresh quarry lease applied area	-
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.	Affidavit for considering EMP for the entire life will be incorporated in the Final EIA/ EMP Report.	-
43	Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.	Noted and agreed.	-
SEIAA Specific Conditions			
1	After detailed discussions, the Authority accepts the recommendation of SEAC and decided	Agreed	

	to grant 2.1 Terms of Reference (ToR) along with Public Hearing for the quantity of 1,57,580m3 of rough stone & 21,442m3 of Gravel up to the depth of 32m BGL and the annual peak production shall not exceed 22,360m³ of rough stone & 10,792m³ of Gravel 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 & normal conditions & SEIAA Specific & Standard conditions.		
SEIAA Standard Conditions			
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.	There are two existing quarries and two proposed quarries within a 500-metre radius. The proponent will take the initiative to form a cluster management committee once environmental clearance is obtained for this 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.,	Agreed and will be complied.	-
3	The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease	Agreed. The list of members of the committee formed will be submitted to	-

	and the same shall be updated every year to the AD/Mines.	ad/mines after obtaining Environmental Clearance.	
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.	Agreed. Details of the Operation plan for cluster mining operations will be submitted once we get environmental clearance for all one quarry proposed in the cluster area.	-
5	The committee shall deliberate on risk management plan 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.	Risk management plan for the individual quarry is given in this report. As far as cluster working condition is concerned, once the committee is formed, risk management as a cluster including inundation of clusters and the evacuation plan will be elaborated.	-
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.	Environmental policy for the cluster will be framed by the cluster management committee and the policy will be in accordance with EPA Act, 1986 and its amendments, guidelines by MoEFCC/ SEIAA and other regulatory bodies. This policy will be displayed in the quarry.	-
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.	Agreed. It will be complied as mentioned in the Point No.4	-
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.	Agreed. It will be complied as mentioned in the Point No.4	-

Agriculture & Agrobiodiversity			
9	Impacts on surrounding agricultural fields around the proposed mining Area.	There are no Agriculture, forest area and traditional practices within the project area. However, there are some agricultural lands around the project site. It may be affected due to the quarry operation as such dust particles sedimentation in the agricultural land. It will be controlled at the source level by proper dust suppression as such wet drilling, controlled blasting and water sprinkling on the project roads and project surrounding roads. As per Air Quality Modelling, the impact of the air quality limited to 400m radius. So, there is no impact for the Agriculture, Forestry & Traditional practices located within 10km radius.	-
10	impacts on soil flora & vegetation around the project site.	The chemical and physical characteristics of the soil is given in Chapter 3. The anticipated impact and its mitigation measures for soil environment and biological environment are detailed in section 4.4 of Chapter 4 respectively.	158 169
11	Details of type of vegetations including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetations all along the boundary of the proposed mining area shall committed mentioned in EMP.	The details on flora have been provided in Section 3.10 under Chapter 3. There is no schedule I species of animals observed within study area as per Wildlife Protection Act, 1972 and no species falls in vulnerable, endangered or threatened category as per IUCN.	136

		There is no endangered red list species found in the study area.	
12	The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.	The ecological details have been provided in Section 3.10 under Chapter 3 and measures have been provided in Section 4.4 under Chapter 4.	136 & 169
13	Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.	All the essential environmental protective measures will be followed by the proponent to manage the surrounding environment and restore the ecosystem, as discussed in Chapter 4.	162
14	The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.	The impact of project on the land environment has been discussed in Section 4.2 under Chapter 4.	163
Forests			
15	The project proponent shall detailed study on impact of mining on Reserve forests free ranging wildlife	There are two Reserved Forest & one Wild Life Sanctuary within a radius of 10 Km. The R.F in buffer zone Nil within a 10Km radius, but Andipatti R.F – 7.8 Km (SW), Periyammapatti R.F – 8.4 Km (SE) & Kodaikanal wildlife sanctuary – 6.5Km (SW). The anticipated impact and its mitigation measures for biological environment are detailed in section 4.4 of Chapter 4. The project proponent shall do barbed wire fencing work and develop a green	169

		belt around the lease area to prevent wildlife from entering the site.	
16	The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.	The impacts of the project on ecology and biodiversity have been discussed in Section 4.4 under Chapter 4.	169
17	The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.	Not Applicable.	-
18	The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.	There are two Reserved Forest & one Wild Life Sanctuary within a radius of 10 Km. The R.F & Wild Life Sanctuary in buffer zone: Andipatti R.F – 7.8 Km (SW), Periyammapatti R.F – 8.4 Km (SE) & Kodaikanal wildlife sanctuary – 6.5Km (SW). Impact and its mitigation measures are detailed in Chapter 4.	-
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 I km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored	A detailed hydrogeological report will be included in the final EIA/EMP report.	-

	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.	There is no waste generation (OB) in this quarry has been envisaged. However, there may be erosion due the rainy season and that is limited within quarry area. Gravel will be preserved in safety zone and utilized for plantation purpose. The control measures are explained in Chapter 4.	-
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	Complied. The study details are incorporated in Chapter 3. Anticipated impacts and its mitigation measures are detailed in Chapter 4.	104 & 162
22	The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.	There is no wastewater generation from this Quarry, so this is not applicable.	-
23	The project proponent shall study and furnish the details on potential fragmentation impact on natural environment by the activities.	Fragmentation impact on the environment may be due to drilling. The anticipated impacts and mitigation measures are discussed in Chapter 4.	162
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	The Flora and Fauna study covering 10 km radius are detailed in section 3.10 of chapter 3. The impacts anticipated with respect to the environment of the project area is very negligible and it will be minimized within the project area.	136

	land form changes visual and aesthetic impacts	Greenbelt / Plantation will be carried out to enhance the vegetative growth and aesthetic in the safety zone area.	
25	The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.	The impact of mining on soil environment has been discussed in Section 4.2 under Chapter 4.	163
26	The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.	The anticipated impact and its mitigation measures for Water Environment are detailed in section 4.3.2 of Chapter 4.	167
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.	The proposed quarry operation is Opencast method of semi mechanized mining with 5.0m height 5m width the bench. So, the effect of Hydrothermal/Geothermal is not envisaged.	-
Energy			
28	The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilize the Energy shall be furnished.	The measures taken to control noise, air, water, and dust have been given under Chapter 4.	162
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	This proposed quarry will adopt Opencast method of semi mechanized of mining with less equipment. However, only the best equipment will be used, and it will be properly and regularly maintained. Regular vehicular	-

	control of other emission and climate mitigation activities.	emission tests will be conducted on the transport vehicles to ensure minimal carbon emissions. To further reduce carbon emissions, a good greenbelt plan has been planned.	
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.	Detailed mine closure plan is given in section 2.10 of Chapter 2.	94
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.	Complied. The details are described in Chapter 10.	210
34	The Environmental Impact Assessment should hold detailed study on EMP with budget for Greenbelt development and mine closure plan including disaster management plan.	Total EMP Cost for 10 years is 37.44 lakhs i.e., 13.04 Lakhs of Capital Cost + 24.40 Lakhs of Recurring Cost (For 10 Years) have been allocated under the EMP budget. The breakup of the same is given in Table 10.2 of Chapter 10.	210
Risk Assessment			
35	To furnish risk assessment and management plan including anticipated vulnerabilities during	Risk assessment and Management plan are detailed in section 7.2, chapter 7.	195

	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.	Disaster Management plan are detailed in section 7.3, Chapter 7.	199
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.	There are no historical places, schools, cemeteries, temples, bird sanctuaries, and wildlife sanctuaries within 300 meters of the proposed project area. In this regard, the project proponent has received an official letter from the Village Administrative Officer, the letter copy enclosed as Annexure.	-
38	As per the MoEFCC office memorandum F.No.z2-6512017-tA.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.	The concerns raised during the public consultation and all the activities proposed will be updated in the final EIA report.	-
39	The project proponent shall study and furnish the possible pollution due to	Complied. We have framed detail solid waste management system for the	-

	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.	project are and the same will be executed by proper awareness and sign boards. The sign boards will be in two language i.e., Vernacular language (Tamil) and common language (English). The plastic waste generation is very negligible and it will be collected from the source level in specific dustbin and disposed through the municipal bins.	
C. Standard ToR			
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.	Not applicable.	-
2	A copy of the document in support of the fact that the proponent is the rightful lessee of the mine should be given.	It is a patta land registered in the name of Thiru.Nataraj, Thiru,Manikandan (applicant), Thiru.Sundarraj, vide patta no. 1178, the applicant has obtained consent from the pattadars.	-
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	Noted & agreed. All documents including approved mine plan, EIA and Public Hearing are compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and is in the name of the lessee.	-

	technology etc. and should be in the name of the lessee.		
4	All comer 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).	Project area is superimposed on Satellite imagery is enclosed in Figure No. 3.17. Project area boundary coordinates superimposed on Toposheet & Surface Features around the project area covering 10km radius. Geology map of the project area covering 10km radius. Geomorphology Map of the Study Area covering 10 km radius of section 3.13.3 in Chapter 3.	155
5	Information should be provided in Survey of India Topo sheet in l:50,000 scare 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.	The following map in 1:50,000 Scale: Geology map of the project area covering 10km radius. Geomorphology Map of the Study Area covering 10 km radius of section 3.13.3 in Chapter 3.	155
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.	The proposed mining area is Patta land. The Precise Area Communication letter and approved Mining Plan have been obtained from the competent authority and are enclosed as Annexure–2 and Annexure–3 respectively. The proposed mining activity conforms to the prevailing land use regulations and applicable State land use policies.	-
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	The proposed quarry is small scale magnitude operation and controlled by the lessee individually by engaging optimum statutory personals.	214

	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.	Based on the magnitude of the operation, the PP has framed Environmental Policy and the same is incorporated in section 10.1.4 of Chapter 10. The Mines Manager will undertake effective monitoring and implementation of various environmental control measures promptly and effectively and to oversee various environmental management schemes for air quality control, water quality status, noise level control, plantation program, social development schemes, etc in the mine. The organizational chart for the same has been provided in Figure No.10.1, Chapter-10.	
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.	Various risks likely to arise due to mining activities are detailed under section 7.2, Chapter-7. This being an opencast mine, subsidence is not applicable. The impact due to ground vibrations due to blasting is given in para 4.7.2, Chapter-4.	195 & 185
9	The study area will comprise of l0 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.	Noted & Agreed The study area considered for this study is 10 km radius and all data contained in the EIA report such as waste generation etc., is for the Life of the Mine / lease period.	-
10	Land use of the study area delineating forest area, agricultural land, grazing	Satellite imagery has been used to study land use and the details of land	109

	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.	use in the core and buffer zone is given in figure 3.1 of Chapter 3.	
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.	There is no waste generation anticipated in this quarry operation since the entire excavated material will be utilized. Hence, there is no external overburden dump involved.	-
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.	There is no Forest Land involved in the proposed project area. The proposed project area is a Consent Patta land. Approved Mining Plan is enclosed in Annexure – 2.	-

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.	Not Applicable. The proposed project area does not involve any Forest Land.	-
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.	Not Applicable. The project doesn't attract Recognition of Forest Rights Act, 2006.	-
15	The vegetation in the RF / PF areas in the study area, with necessary details, should be given.	Andipatti R.F – 7.8 Km (SW) Periyammapatti R.F – 8.4 Km (SE) The impact and its mitigation measures for biological environment are detailed in chapter 4.	-
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.	The mining lease area and the 10 km buffer zone from the periphery of the core zone is devoid of declared ecologically sensitive features like national parks, biospheres, sanctuaries, etc.	-
17	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within l0 km of the mine lease should be clearly indicated,	Not Applicable. There are No National Parks, Biosphere Reserves, Wildlife Corridors, and Tiger/Elephant Reserves within 10 km Radius from the periphery of the project area.	-

	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 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.	Flora and fauna composition in the core and buffer zone of the project has been studied through primary field surveys. The details are furnished in section 3.10 of Chapter 3.	136
19	Proximity to Areas declared as 'critically Polluted' or the project areas likely to come under the 'Aravali Range', (attracting court restrictions	Not Applicable	-

	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).	Not Applicable	-
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	The mining activities will be carried out within the mine lease area only. The entire mine lease area of 1.48.00 Ha is a Consent Patta Land. There is no population within the ML area. Hence, the question of R& R does not arise.	-

	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 revel, 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.	Baseline Data were collected for One Season (March 2026 to May 2026) as per CPCB Notification and MoEFCC Guidelines and Detailed in Chapter - 3.	107

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.	Modelling is done using AERMOD and the projected values are found to be within the norms. Hence, there is no major impact due to this mining project. The cumulative impact of mining is also studied and the same is found to be within norms. The details are given in section 4.5.6 of Chapter 4 and Chapter 7.	173 & 195
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.	The entire water requirement for the project is 5.0 KLD which will be sourced from outside agencies. The water balance diagram is shown in Chapter 4	162
25	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.	Not Applicable. The required water will be outsourced from the nearby village.	-
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.	Details of the water conservation plan are given in chapter 10. Rainwater harvesting plan are detailed in section 4.3.2 of Chapter 4.	167
27	Impact of the Project on the water quality, both surface and groundwater,	Impact Studies and Mitigation Measures of Water Environment including Surface	167

	should be assessed and necessary safeguard measures, if any required, should be provided.	Water and Ground Water are discussed in Section 4.3.2	
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-ali4 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.	The quarrying activity will not intersect ground water table as quarrying is proposed upto a depth of 32 m Below Ground Level and water table is found at a depth of 82 m BGL.	-
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.	Not Applicable No stream passing through the mine lease area.	-
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.	Altitude of the area: 374 m from MSL Ultimate Depth: 32 m BGL Ground water: 82 m BGL.	-
31	A time bound Progressive Greenbelt Development Plan shall be prepared in	Greenbelt Development Plan & Recommended Species proposed for	169

	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 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.	Greenbelt Development are detailed in Section 4.4. 0.38.50 hectares of land are allotted for greenbelt development.	
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	The Traffic density survey was carried out to analyse the impact of transportation in the study area as per IRC guidelines 1961 and it is inferred that there is no significant impact due to the proposed transportation from the project area.	-

	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.	Temporary Infrastructure & other facilities will be provided to the Mine Workers after the grant of quarry lease and the same has been discussed in Section 2.11.5 of Chapter 2.	98
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.	At the conceptual stage the quarried-out land will be fenced and lower benches will be allowed to collect rain water to act as a temporary reservoir and Greenbelt development will be carried out on the top bench, unutilized areas and haul roads. Mine closure plan is detailed in Section 2.10 of Chapter 2.	94
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.	Details of occupational health and safety aspects are given under the Section 4.7.4 & Section 10.1.5.	186 & 215
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	No major impact on public health will be there since the villages are located more than 1km from the lease area.	-

	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.	This project provides employment to 27 Nos. Local people will be hired for unskilled labour. Through CSR, nearby schools, hospitals will be benefitted. For CSR, INR 5.0 Lakh is allocated. Based on the demand of the people during public hearing, further funds will be allocated, if necessary.	-
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.	Environmental Management plan details are given in Chapter 10.	210
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.	During public hearing process, the opinions and demands of the people will be noted. The replies and commitment made by the proponent along with time bound action plan wherever applicable will be provided in Final EIA/EMP report.	-
40	Details of litigation pending against the project, if any, with direction /order paced by any Court of Law against the Project should be given.	There is no litigation pending against the project.	-
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.	Project Cost is Rs. 105.82 Lakhs CER Cost is Rs. 5.0 lakhs EMP Cost:	-

		Total EMP Cost for 10 years is 37.44 lakhs i.e., Rs.13.04 Lakhs of Capital Cost+ Rs.24.40 Lakhs of Recurring Cost (For 10 Years)	
42	A Disaster management Plan shall be prepared and included in the EIA/EMP Report.	Disaster management plan are provided under section 7.3 of Chapter-7.	199
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.	Detailed in Chapter 8.	208
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.	Yes, Complied.	-
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.	Yes, Complied.	-
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.	Yes, Complied.	-
E	Where the documents provided are in a language other than English, an English translation should be provided.	Yes, Complied.	-

F	The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.	Yes, Complied.	-
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- l 1013/41/2006-IA.11 0) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.	Noted & agreed	-
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.	Yes, Complied.	-
I	As per the circular no. J-11011/1618/2010-IA.ll (l) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the Environment Clearance the existing operations of the project, should be obtained from	Yes, Complied.	-

	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.	Yes, Complied.	-

CHAPTER 1

INTRODUCTION

1.1 PURPOSE OF THE REPORT

Environmental Impact Assessment (EIA) is the management tool to ensure the sustainable development and it is a process, used to identify the environmental, social and economic impacts of a project prior to decision making. It is a decision-making tool, which guides the decision makers in taking appropriate decisions for any project.

EIA systematically examines both beneficial and adverse consequences of the project and ensures that these impacts are taken into account during the project designing. It also reduces conflicts by promoting community participation, information, decision makers, and helps in developing the base for environmentally sound project.

Rough Stone and Gravel are the major requirements for construction industry. This EIA report is prepared by considering Cumulative load of all proposed & existing quarries located within 500 m radius of the project area.

Thiru. P. Manikandan proposes to operate Rough Stone and Gravel Quarry over an extent of 1.48.00 Ha Patta Land in S. F. No. 157/2 in Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State and ToR obtained vide ToR Identification No. TO26B0108TN5682646N (F. No. 13828), Dated: 24/07/2026.

This proposed project is categorized under category "B1" Activity 1(a) (mining lease area in cluster situation). This cluster includes the two existing quarries and two proposed Quarries are located within 500m radius. The existing and proposed quarries located within 500m radius are detailed in below Table.

Table 1.1 – Details of Quarries within 500m Radius

S.No	Name of the Quarry Owner	S.F. Nos & Village	Lease Status	Area in Ha
a. Existing Quarries				
1.	Thiru. P. Devaraj, S/o. Palanisamy Gounder, D.No.30, Thirukumaran Nagar, Singanallur, Coimbatore	160/1(P) Thathanaickenpatti	13.09.2021 To 12.09.2026	2.00.0
2.	Thiru. S. Manikandan, S/o. Sooriyamoorthi No.2/227, Kallar Street, Karambaviduthy, Karambakkudi Taluk, Pudukottai District	49(P) Thathanaickenpatti	23.11.2021 to 22.11.2026	1.20.0
b. Present Proposed Quarry				
1.	Tmt. S. Thamayanthi, W/o. Shanmugam. No.1/132, Kannamma Agam, R.G. Nagar, Chenniyampalayam, Tirupur	47/1(P), 47/2(P) & 47/3(P) Thathanaickenpatti	Applied area	1.75.0
2.	Thiru. P. Manikandan, S/o. Perumalsamy, Door No.7/68, Kinathukadavu, Karachery, Coimbatore	157/2 Thathanaickenpatti	Applied area	1.48.0
Total Area of Cluster		**6.43.00 Ha**		

Cluster area calculated as per MoEFCC Notification S.O. 2269(E) Dated 1st July 2016. Satellite image of Quarries in Cluster is shown in Fig 1.1.

As per MoEFCC OM: F.No. L-11011/175/2018-IA-II(M), dated 12.12.2018, the EIA/EMP report has to be prepared for the cluster area based on ToR recommended by SEIAA. Therefore, the applicant applied for ToR through Parivesh

website vide online proposal no. SIA/TN/MIN/574646/2026, Dated:07/04/2026. The ToR proposal was placed in 733rd meeting of SEAC-II held on 18.06.2026 and 1032nd meeting of SEIAA held on 21.07.2026. Then ToR has been issued by the SEIAA vide ToR Identification No. TO26B0108TN5682646N (F. No. 13828), Dated: 24/07/2026 to prepare the draft EIA report as per the recommended ToR for conducting public hearing and obtaining Environmental Clearance from the SEIAA.

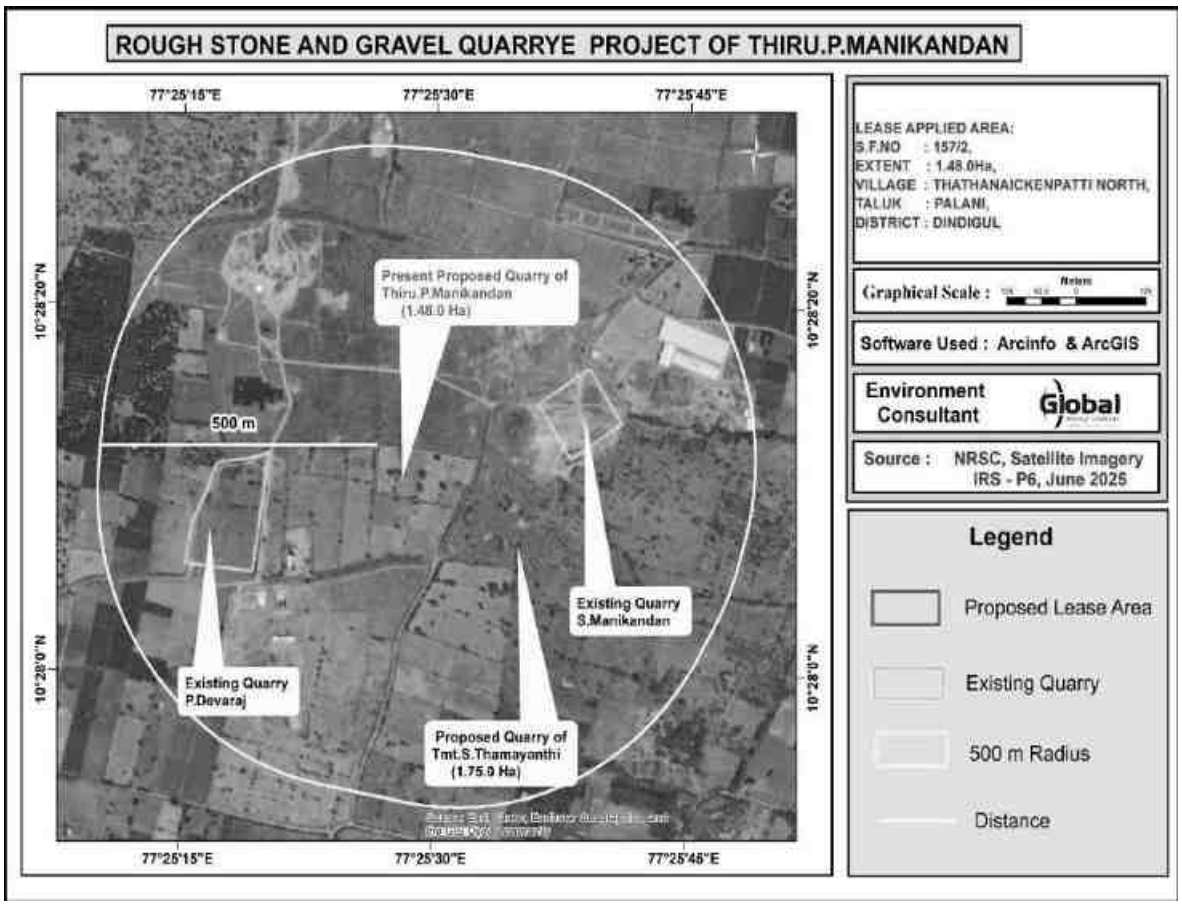


Figure.1.1 Satellite Image showing cluster quarries

1.2 IDENTIFICATION OF PROJECT AND PROJECT PROPONENT

1.2.1 IDENTIFICATION OF PROJECT

Table -1.2 Project Identification

Name of the Project	Rough Stone and Gravel Quarry of Thiru. P. Manikandan
S.F No.	157/2
Location of the Project	Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State.

Extent	1.48.00 Ha
Type of Land	Patta Land

1.2.2 IDENTIFICATION OF PROJECT PROPONENT

Table -1.3- Details of Project Proponent

Name of the Project Proponent	Thiru.P.Manikandan
Communication address	Thiru.P.Manikandan S/o. Perumalsamy, Door No.7/68, Kinathukadavu, Karachery, Coimbatore District. Pin Code – 641 201.
Mobile No.	+91 98428 96223

1.3 BRIEF DESCRIPTION OF THE PROJECT

1.3.1 NATURE AND SIZE OF THE PROJECT

The quarrying operation is proposed to be carried out by Opencast, Semi - Mechanized Mining Method with Drilling and Blasting by forming 5.0 m bench height and 5.0 m bench width. Excavator and tippers are proposed for Loading and transportation.

Table – 1.4 Brief Descriptions of the Project

Name of the Quarry	Rough Stone and Gravel Quarry of Thiru. P. Manikandan
Toposheet No	58 F/07
Latitude	10°28'08.96"N to 10°28'12.45"N
Longitude	77°25'26.50"E to 77°25'32.65"E
Altitude of the area	374 m (MSL)
Proposed depth of mining	32 m (BGL)
Geological Resources	12,20,175 Ts / 4,43,700 m3 of Rough Stone and 59,160 Ts / 29,580 m3 of Gravel
Mineable Reserves	4,33,345 Ts / 1,57,580 m3 of Rough stone and 42,884 Ts / 21,442 m3 of Gravel
Proposed production quantity for five years (32 m below ground level)	Total Proposed production of Rough Stone is 1,57,580 m^3 & Gravel is 21,442 m^3 (3,03,765 Ts / 1,10,460 m^3 of Rough Stone & 42,884 Ts / 21,442 m^3 of Gravel for First Five Years And 1,29,580 Ts /

	47,120 m^3 Of Rough Stone for Second Five Years)	
Ultimate Pit Depth	151 m (L) x 71 m (W) x 32 m (Below Ground Level) for the period of second five years	
Water Level in the area	82 m BGL	
Method of Mining	Opencast, Semi - Mechanized Mining Method with Drilling and Blasting	
Topography	The area applied for quarry lease is exhibits almost plain covered by gravel formation. The massive Charnockite formation is noticed below 2m Gravel formation and sloping towards southeastern side of the area, the altitude of the area is above 374m (maximum) from MSL.	
Machinery Proposed	Jack Hammer – 32 mm Dia	3 Nos
	Compressor	1 No
	Excavator – 0.9 Cu.m	1 No
	Tipper (10/20Ts)	3 Nos
Environmental Setting within 500m Radius	Odai – 360m (S), 400m (N) Tank – 380m (N), 1.56Km (W), 1.56 Km (SW), 1.36 Km (S), 1.33 km (NE). Amaravathi river – 6.9Km (NW) river – 6.6 KM (E)	
Details of Habitation	Thatanaickenpatty North Habitation – 1.11 Km (NE)	
Proposed Manpower Development	27 Nos.	
Water Requirement & Source	The water requirement for drinking & domestic – 1.5 KLD, dust suppression – 1.5 KLD and green belt – 2.0 KLD is about 5.0 KLD of water is required. The required water will be procured from outside agencies.	
Greenbelt Development	The safety zone of 0.38.50 Ha will be developed with about 385 Nos. of plantation.	
Fuel Requirement	1,29,638 Litres of HSD (Entire Project Life)	

Project Cost	105.82 Lakhs (Including operational + Fixed Asset + EMP cost + CER cost).
EMP Cost	Rs. 37.44 Lakhs
CER Cost	Rs. 5.0 Lakhs
Applicability of CRZ Clearance	Not Applicable

1.3.2 NATURE OF THE PROJECT

Sector	1(a) Non-Coal Mining
Type	Fresh Quarry
Category	B1 (Cluster Situation)
Mineral	Minor mineral of Rough Stone

1.3.3 LOCATION OF PROJECT

The proposed Quarry lease area is situated at S.F.No. 157/2 over an extent of 1.48.00 Ha., in Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State. The area lies in the northern latitude of 10°28'08.96"N to 10°28'12.45"N and eastern longitude of 77°25'26.50"E to 77°25'32.65"E. Location of the proposed project is shown in Figure 2.1 and the satellite imagery of the project site is shown in Fig 2.2. The details of Environmental Sensitivity within 1km radius are shown below:

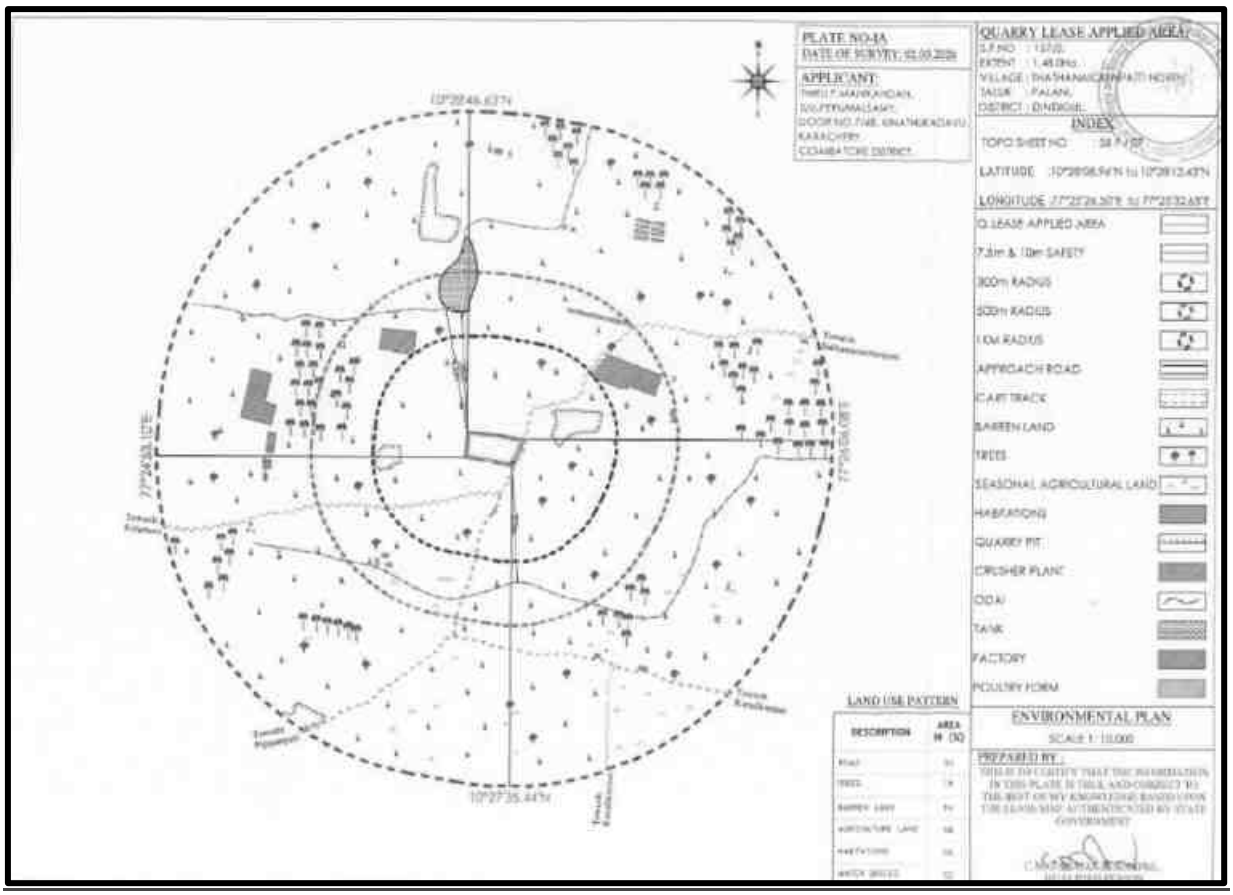


Figure 1.2 – Environmental Settings Map

1.4 IMPORTANCE OF THE PROJECT TO THE REGION

Rough stone and Gravel will continue to be a staple in construction, decoration and industry for years to come. As recycling picks up, mining and quarries may slow down, but we will always need rough stone in general construction and industry.

1.5 REGULATORY COMPLIANCES

Understanding of the applicable environmental legislative framework is crucial for understanding the scope of the EIA study. With respect to prevention and control of environmental pollution, the following Acts and Rules of MoEFCC (Ministry of Environment Forests and Climate Change), GoI (Government of India) govern the proposed project. The applicable environmental legislation for the proposed mining project is detailed below,

- Environment protection Act, 1986

- EIA Notification, 2006 & Subsequent amendments
- Water Pollution (Prevention & Control) Act, 1974
- Air Pollution (Prevention & Control) Act, 1981
- Noise Pollution (Regulation 7 Control) Rules, 2000
- Mines Act,1952
- Tamil Nadu Minor Mineral Concession Rules, 1959
- Mines and Minerals (development and regulation) Act,1957
- Minor Minerals Conservation and Development Amendment Rules 2018
- State Minor Mineral Concession Rules (GMMCR), 2017
- Explosive Act ,1884
- Explosive Rules,2008
- Hazardous and other Wastes (management and Transboundry Movement) Rules, 2016
- Batteries (Management and Handling) Rules 2010
- Solid Waste Management Rule 2016

1.5.1 PRESENT LEGAL STATUS

Table 1.5 – Present Legal Status

Description	Issuing Authority	Status	Letter number	Reference
Precise Area Communication	Assistant Director, Department of Geology and Mining, Dindigul	Received	Rc.No.1206/2025 dated 23.02.2026	Annexure - 1
Mine Plan Approval Letter	Assistant Director, Department of Geology and Mining (Kanimam), Dindigul	Approved	Rc.No.1206/2025 dated 12.03.2026	Annexure-2
500m radius Cluster Letter	Assistant Director, Department of Geology and Mining, Dindigul	Obtained	Rc.No.1206/2025 dated 12.03.2026	Annexure-3
VAO NOC for features within 300m radius	VAO, Thathanaickenpatti	Obtained	-	Annexure-4

1.5.2 SCREENING

As per the Environmental Impact Assessment (EIA) Notification dated 14th September 2006 and its subsequent amendments the proposed quarry mining project falls under 'Category B1(Cluster Situation)', which requires Environmental Clearance from the State Environmental Impact Assessment Authority (SEIAA). The project proponent has appointed M/s. Global Mining Solutions, Salem, who are accredited by the National Accreditation Board for Education and Training (NABET), Quality Council of India (QCI), New Delhi, under the registration number NABET/EIA/26-29/RA 0478. Their role is to carry out an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) study in compliance with the Ministry of Environment, Forest and Climate Change (MoEFCC) requirements.

1.5.3 SCOPING

The proposal was placed in the 733rd meeting of SEAC-II held on 18.06.2026. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Terms of Reference (ToR) to SEIAA and SEIAA recommended ToR in its 1032nd meeting of SEIAA held on 21.07.2026.

1.5.4 SCOPE OF THE STUDY

In line with the prescribed Terms of Reference (TOR), the area comprising 10 km radius around the proposed mine lease boundary is considered as the study area. The EIA/EMP report has been prepared following the generic structure specified in the EIA Notification 2006. The detailed studies have been conducted as per prescribed Standard TOR issued by SEIAA, Tamil Nadu vide ToR Identification No. TO26B0108TN5682646N (F. No. 13828), Dated: 24/07/2026. The point wise compliance for the ToR has been incorporated in this EIA/EMP report.

The main scope of the EIA study is to quantify the cumulative impact in the study area due to cluster quarries and formulate the effective mitigation measures for this applied project area. A detailed account of the emission sources, emissions control

equipment, background Air quality levels, Meteorological measurements, Dispersion model and all other aspects of pollution like effluent discharge, Dust generation etc., have been discussed in this report. The baseline monitoring study has been carried out during the Period of March 2026 – May 2026 for various environmental components so as to assess the anticipated impacts due the cluster quarry projects on the environment and suggest suitable mitigation measures for likely adverse impacts due to this proposed project.

The scope of study broadly covered as below,

- Literature review and collection of secondary data relevant to the study area.
- Establish the baseline environmental aspects in and around the proposed project covering 10 km radius.
- Identify various existing pollution loads due to various mining activities.
- Predict incremental levels of pollutants in the study area due to the proposed operations.
- Establishing and analyzing demographic profile including sex ratio, literacy rate, SC/ST, workers classification, land use categorization, etc., in the project influenced area
- Evaluate the predicted impacts on various environmental attributes in the study area by using scientifically developed and widely accepted environmental impact assessment methodologies.
- Prepare an Environment Management Plan (EMP) outlining the measures for improving the environmental quality and identify critical environmental attributes that are required to be monitored in the post-project scenario.
- To assess the impacts on human settlement in the project influence area Socio-Economic Assessment
- Cumulative impact assessment for the quarries in cluster.

1.6 NEED AND JUSTIFICATION OF THE PROJECT

- Proposed mining project will fulfill the local market requirement for real estate and infrastructure industry. This project will also provide employment to local people helping them earn livelihood.
- Employment generated consequent to the mining activity in the project will be benefit local and rural population and will have multiplier effects on local economy.
- The Project will give tremendous boosts to the local and regional economy benefiting the population.
- The social benefits arising out of this proposal can be expressed in terms of increase in the standards of living of local population, educational opportunities, training and development of skills etc.

1.7 STRUCTURE OF THE REPORT

As per the new guidelines of the MoEFCC the report has been divided into the following chapters and presented as follows:

1. Introduction

This chapter describes the profile of the project proponent, name and contact address with email, project consultants, the purpose of the project, brief description of the project, applicable environmental regulations, objectives and methodology for EIA studies etc.

2. Project Description

This chapter gives a brief description of the project such as the type of project, need for the project, its location, approachability, layout, etc of the proposed project, the project implementation schedule, estimated cost of development etc.

3. Description of the Environment

This chapter presents details of the baseline environmental status for microclimate, air quality, noise, water quality (surface and ground), soil quality, flora, fauna and socioeconomic status etc.

4. Anticipated Environmental Impacts & Mitigation Measures

This chapter discusses the possible sources of pollution and environmental impacts due to the project during operation phases and suggests the mitigation measures.

5. Analysis of Alternatives (Site and Technology)

This chapter discusses the analysis of the various alternatives for the technology as well as the site and gives the selection of the most feasible alternative.

6. Environmental Monitoring Program

This chapter discusses the details about the environmental monitoring program during operation phases. The technical aspects of monitoring the effectiveness of mitigation measures are covered in this chapter.

7. Additional Studies

This chapter covers information about the additional studies conducted for this project such as the Risk Analysis, Emergency Response and Disaster Management Plan.

8. Project Benefits

This chapter discuss to improvements in the Physical and Social Infrastructure and presents the benefits from this project.

9. Environmental Cost Benefit Analysis

This Chapter involves identifying, quantifying, and, where possible, assigning monetary values to the positive and negative environmental impacts of a project.

10. Environmental Management Plan

This chapter deals with the EM for the proposed sand mining projects and indicates the measures proposed to minimize the likely impacts on the environment during and operation phases and budgetary allocation for the same.

11. Summary and Conclusion

This chapter deals with the overall justification for implementation of the project and explanation of how, adverse effects have been mitigated.

12. Disclosure of Consultant Engaged

This chapter deals with the details of consultants engaged and the NABET accreditation details of environmental consultants.

****

CHAPTER 2

PROJECT DESCRIPTION

2.1 TYPE OF THE PROJECT

The proposed activity is the extraction of Rough Stone and Gravel quarry by open cast mechanized mining method.

This project proposed to produce the Total production of Rough Stone is 1,57,580 m^3 & Gravel is 21,442 m^3 (3,03,765 Ts / 1,10,460 m3 Of Rough Stone & 42,884 Ts / 21,442 m3 of Gravel for First Five Years with ultimate depth up to 32 m below ground level and 1,29,580 Ts / 47,120 m3 of Rough Stone for Second Five Years with ultimate depth up to 32 m below ground level).

2.2 NEED FOR THE PROJECT

Rough stone and Gravel are one of the important materials for the building construction. The rough stone is used as both as coarse aggregate and fine aggregate after the proper sizing of stone. The coarse and fine aggregate are essential for preparing concrete which is used in foundation, beam, column, roof slab work of the buildings. The infrastructure is the sign of development of nation. So, it is very need to excavate the rough stone for economic and infrastructure development of our Nation.

2.3 LOCATION OF THE PROJECT

This is a Rough Stone and Gravel Quarry located in Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State. The area lies in the North Latitude of 10°28'08.96"N to 10°28'12.45"N and Eastern Longitude of 77°25'26.50"E to 77°25'32.65"E and toposheet number 58 F/07. Location of the proposed project is shown in Figure 2.1 the satellite imagery of the project site is shown in Figure 2.2.

This proposed project area is classified as Patta Land & does not fall within 10 km radius of any Eco – sensitive zone, National Park, Tiger Reserve, Elephant Corridor and Biosphere Reserves. The M.L area details are presented in below Table.

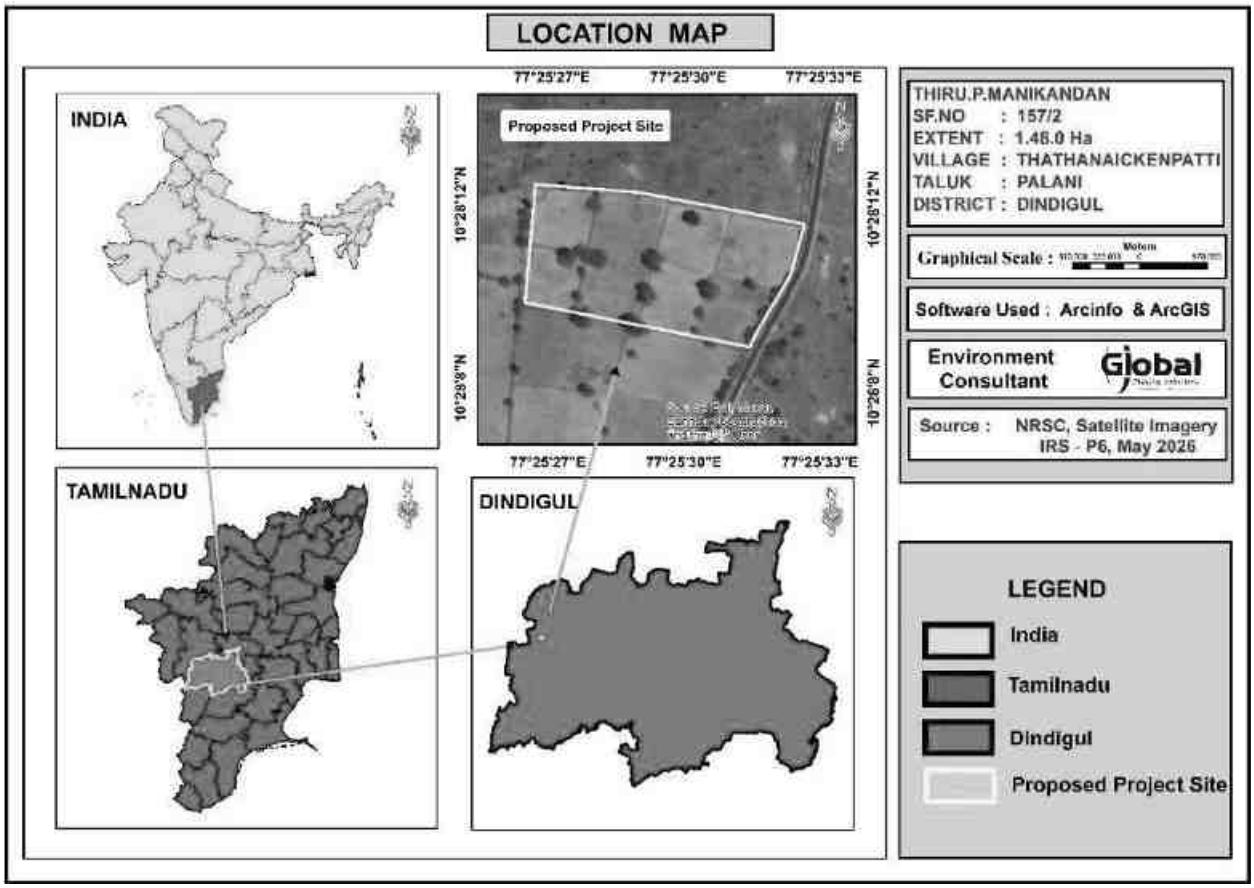


Figure 2.1 Location Map

Table 2.1 Boundary Coordinates of the Project Site

Corners	Co- ordinates		Distance between the corners		
	Latitude	Longitude			
1	10° 28' 09.87"N	77° 25' 26.50"E	1-2	=	79.6m
2	10° 28' 12.45"N	77° 25' 26.70"E	2-3	=	70.8m
3	10° 28' 12.30"N	77° 25' 29.03"E	3-4	=	112.0m
4	10° 28' 11.66"N	77° 25' 32.65"E	4-5	=	36.6m
5	10° 28' 10.51"N	77° 25' 32.34"E	5-6	=	42.0m
6	10° 28' 09.33"N	77° 25' 31.64"E	6-7	=	12.6m
7	10° 28' 08.96"N	77° 25' 31.47"E	7-1	=	153.8m

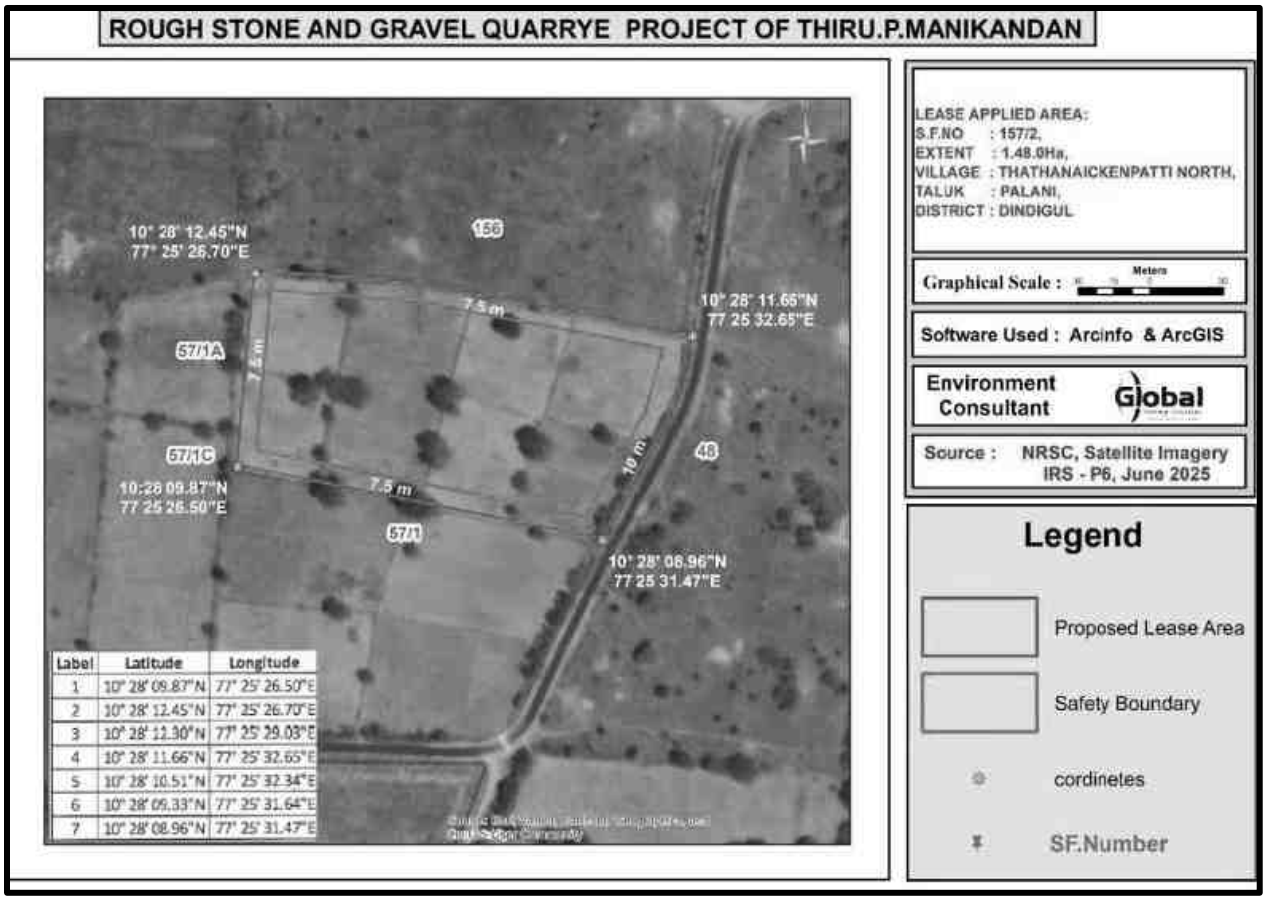


Figure 2.2 Google Image of the project site with Boundary Coordinates

Table 2.2 Mine Lease Area and its Ownership

Location	S.F. No	Area in Ha	Patta	Patta Name
Thathanaickenpatti North Village, Palani Taluk, Dindigul District	157/2	1.48.0	1178	Thiru.Nataraj, Thiru,Manikandan (applicant), Thiru.Sundarraj, vide patta no.1178, the applicant has obtained consent from the pattadars.
Total		**1.48.00**	-	

Table 2.3 Site Connectivity

S.No	Description	Details	Distance & Direction
1	Village	Thathaickenpatty North Village	1.11Km (W)
2	Highway	SH-192) Thalaiyuthu– Kallimandayam (NH-83) Dindigul – Coimbatore	5.8Km (N) 5.3 m (N)
3	Railway Station	Palani RS	10.42 km (SE)
4	Airport	Coimbatore International Airport	75.0 km (NW)

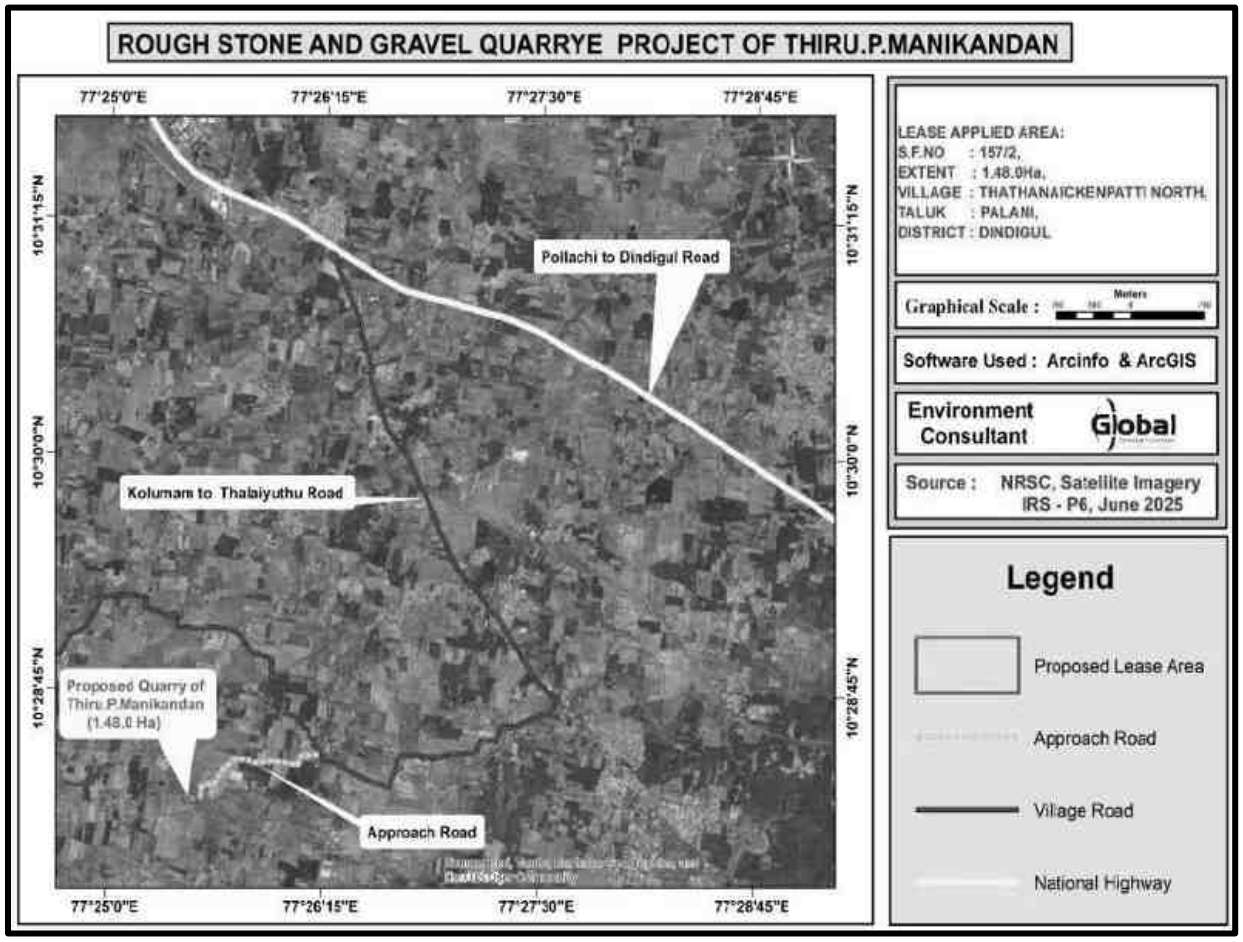


Figure 2.3 Site Connectivity Map

Table 2.4 Salient features of the Project

S. No.	Particulars	Details
1.	Proponent Name	Thiru.P.Manikandan
2.	Proposed project	Proposed Rough Stone & Gravel Quarry of Thiru. P. Manikandan
3.	Extent	1.48.00 Ha and the cluster area within 500 m radius including the proposed mine is 6.43.00 Ha > 5 Ha
4.	Location	S.F.No. 157/2 over an extent of 1.48.00 Ha., in Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State
5.	Co-ordinates of the project site	Latitude: 10°28'08.96"N to 10°28'12.45"N Longitude: 77°25'26.50"E to 77°25'32.65"E
6.	Topography	Plain
7.	Site Elevation above MSL	347 m from MSL
8.	Topo Sheet No.	58 F/07
9.	Minerals of Mine	Rough Stone and Gravel
10.	Proposed production in m3	Total production of Rough Stone is 1,57,580 m^3 & Gravel is 21,442 m^3 (3,03,765 Ts / 1,10,460 m^3 Of Rough Stone & 42,884 Ts / 21,442 m^3 Of Gravel for First Five Years And 1,29,580 Ts / 47,120 m^3 Of Rough Stone for Second Five Years) up to the depth of 32 m below ground level.
11.	Ultimate Depth of mining	32 m below ground level for the period of first ten years
12.	Method of Mining	Opencast Mining with a bench height of 5.0 m and bench width of 5.0 m is proposed
13.	Drilling/Blasting	Drilling and controlled Blasting is proposed
14.	No. of Working days	300 Days
15.	Water requirement & Source	5.0 kLD and will be sourced from local vendors

16.	Manpower	27 Nos.
17.	Project Cost	Rs. 105.82 Lakhs
18.	Mining Plan Approval	Assistant Director, Department of Geology and Mining Plan Approved vide RoC. No.1206/2025 dated 12.03.2026
19.	Safety Zone	0.38.50 Ha will be maintained as safety zone and 385 tree saplings will be planted in this area
20.	Ground water level	82 m
21.	Previous History & CCR	Fresh Quarry. Hence CCR is not applicable.

Table 2.5 Environmental Settings of the project site

S. No.	Particulars	Details
1.	Nearest Highway	(SH-192) Thalaiyuthu– Kallimandayam – 5.8 km (N) (NH-83) Dindigul – Coimbatore – 5.3 km (N)
2.	Interstate Boundary	Not Applicable
3.	Nearest Railway Station	The Nearest Railway line is Palani RS line which is about 10.42 Km on South East side of the area
4.	Nearest Airport	Tiruchirappalli International Airport – 34.0 km (SW)
5.	Nearest Village	Thathaickenpatty North Village – 1.11 km (W)
6.	Water bodies	Odai – 360m (S), 400m (N) Tank – 380m (N), 1.56Km (W), 1.56 Km (SW), 1.36 Km (S), 1.33 km (NE). Amaravathi river – 6.9Km (NW) river – 6.6 KM (E)
7.	Reserved Forest	Andipatti R.F – 7.8 Km (SW) Periyammapatti R.F – 8.4 Km (SE)
8.	Eco Sensitive Zone and Wildlife	Kodaikanal wildlife sanctuary – 6.5Km (SW)

	Sanctuary (Notified)	
9.	Archaeological important places	Nil within 10 km radius
10.	Defense Installations	Nil within 10 km radius
11.	Nearest Port	Nil within 10 km radius
12.	Seismic Zone	Zone – II (Least Active)

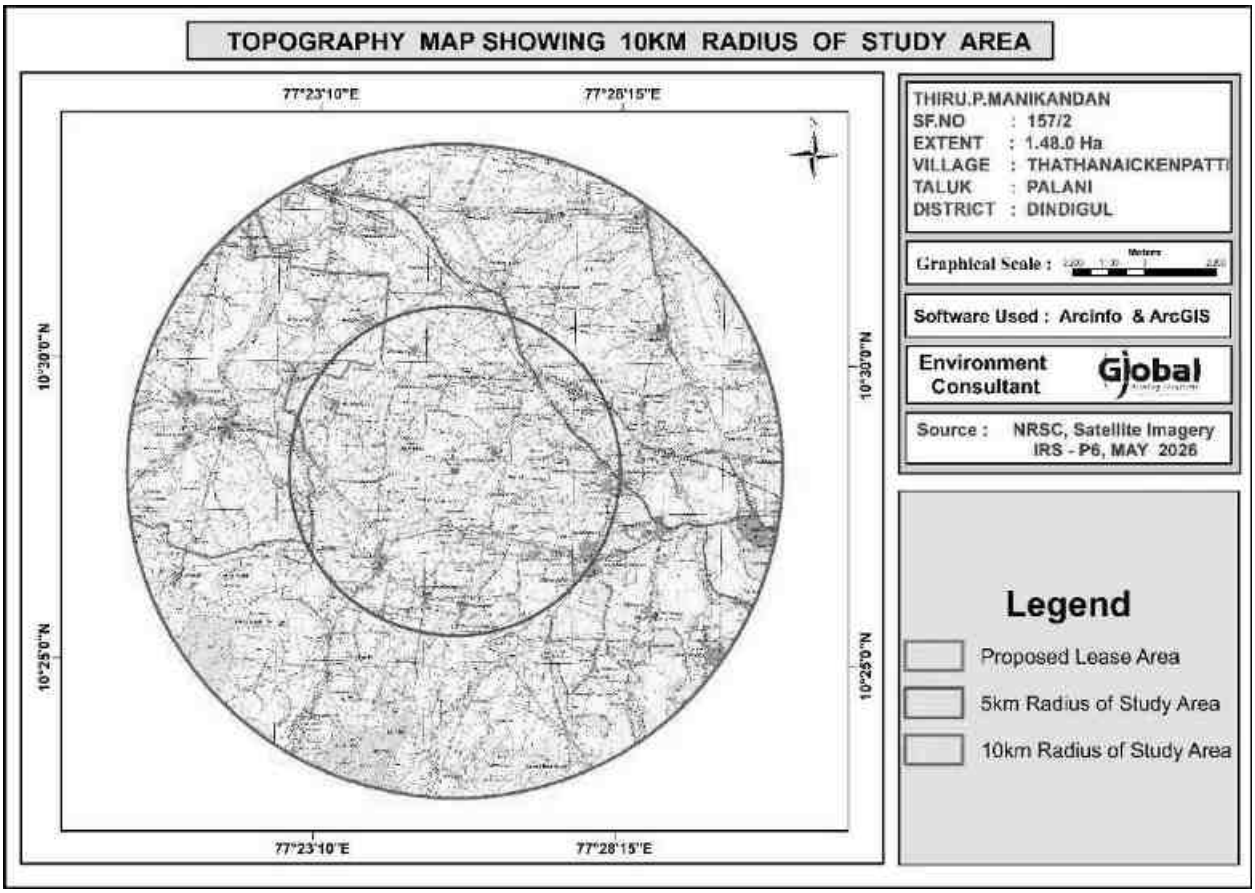


Figure 2.4 10km Radius TOPO Map

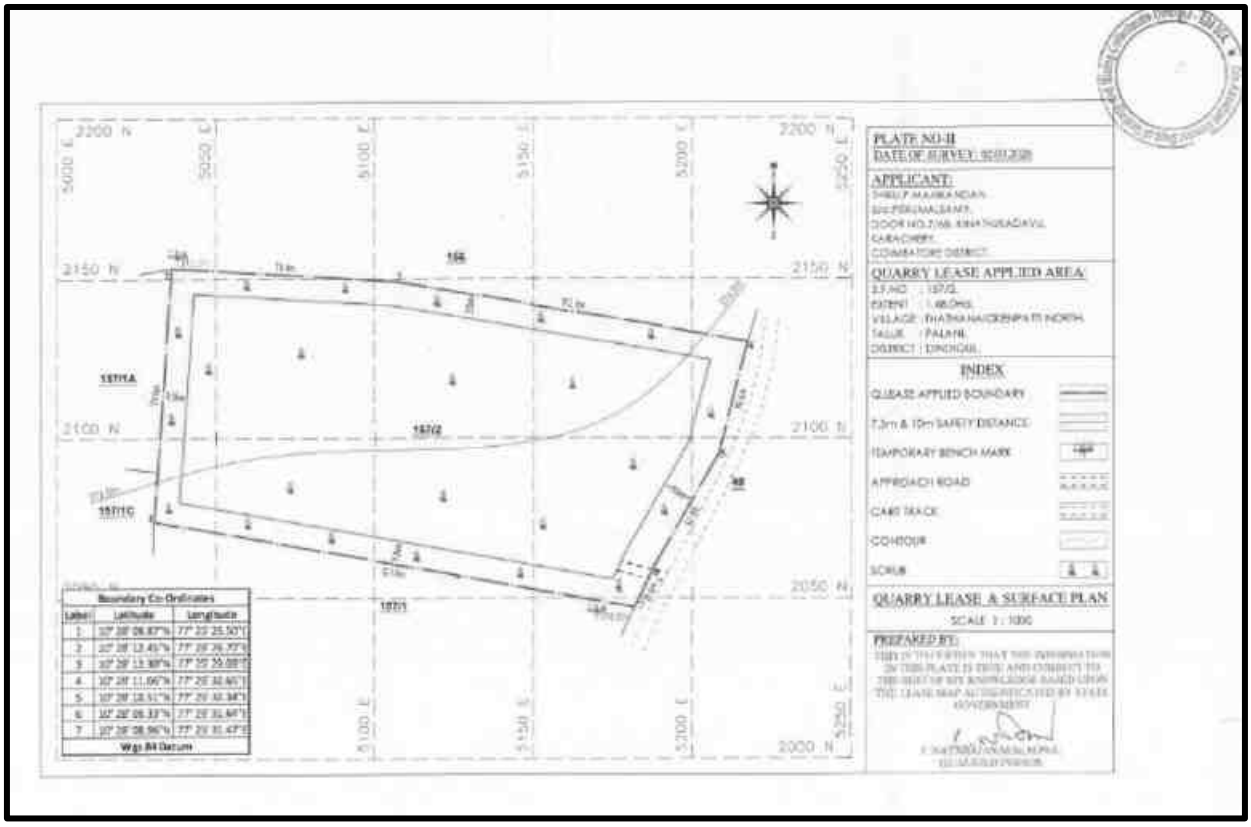


Figure 2.5 Lease Plan

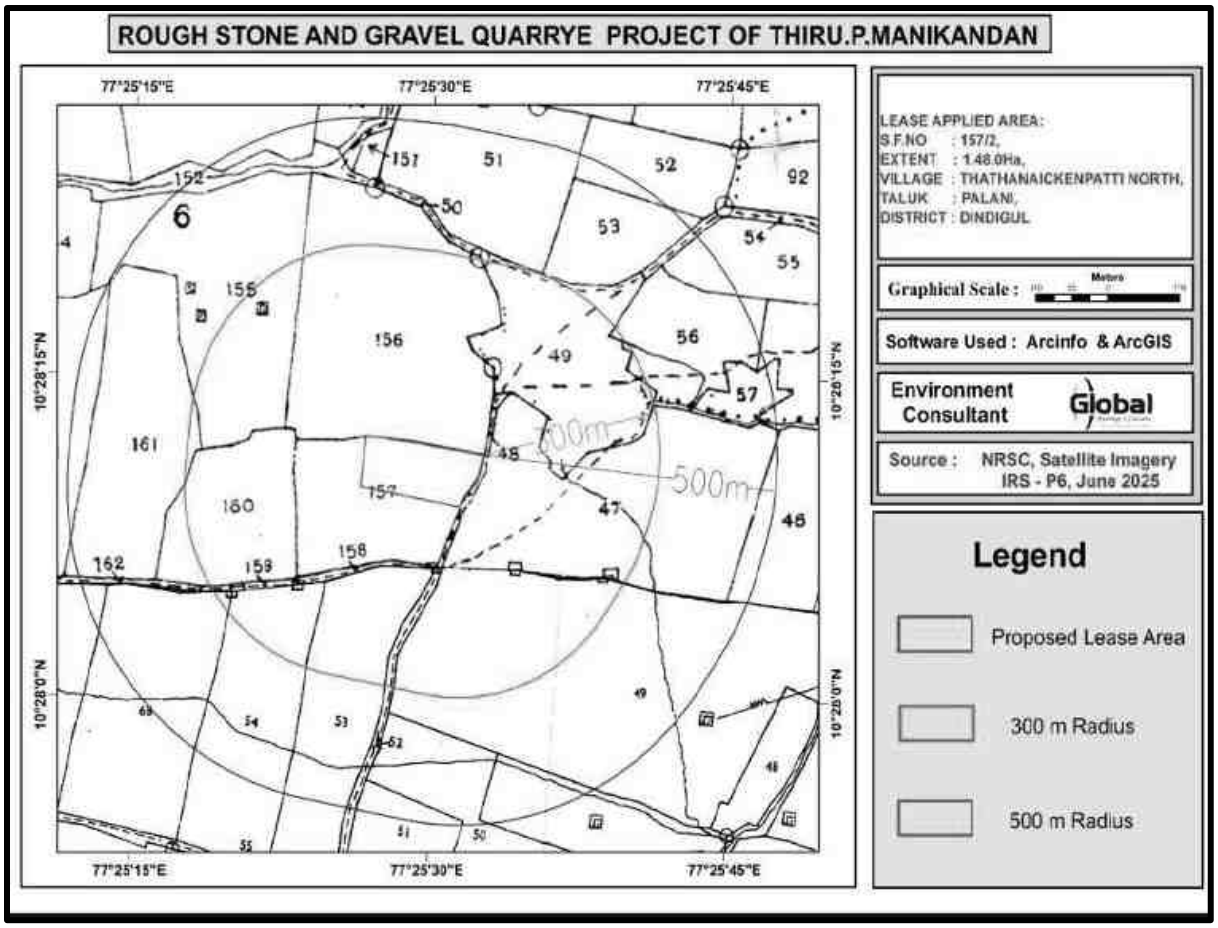


Figure 2.6 Village Map

2.4 LAND USE PATTERN OF THE PROJECT AREA

The proposed land is a patta land registered in the name of Thiru.Nataraj, Thiru. Manikandan (applicant), Thiru. Sundarraj, vide patta no.1178, the applicant has obtained consent from the pattadars for a period of 10 Years and got it registered. The land use pattern of the mine lease area as of today and conceptual stage given in Table No. 2.6.

Table 2.6 Land use pattern of the Project area

Sl. No.	Land Use	Present Area (Ha)	Area in use during the quarrying period (Ha)
1.	Quarrying Pit	Nil	1.07.50
2.	Infrastructure	Nil	0.01.00
3.	Roads	Nil	0.01.00
4.	Green Belt	Nil	0.38.50
5.	Unutilized	1.48.00	Nil
	Total	**1.48.00**	**1.48.00**

2.5 SIZE AND MAGNITUDE OF THE OPERATION

The proposed activity is the extraction of Rough Stone and Gravel by open cast, semi mechanized mining method over an extent of 1.48.00 Ha and to produce Total production of Rough Stone is 1,57,580 m^3 & Gravel is 21,442 m^3 (3,03,765 Ts / 1,10,460 m^3 of Rough Stone & 42,884 Ts / 21,442 m^3 of Gravel for First Five Years And 1,29,580 Ts / 47,120 m^3 of Rough Stone for Second Five Years) with ultimate depth up to 32 m Below Ground Level. The details of geological and mineable reserves in the lease area have been provided below in the subsequent sub section.

2.6 TOPOGRAPHY AND DRAINAGE

The area applied for quarry lease is exhibits almost plain covered by gravel formation. The massive Charnockite formation is noticed below 2 m Gravel Formation and sloping towards southeastern side of the area, the altitude of the area is above 374 m (maximum) from MSL. No major river is found nearby the lease applied area.

2.7 GEOLOGY

2.7.1 LOCAL GEOLOGY

The area is underlain by the wide range of metamorphic rocks of peninsular gneissic complex. These rocks are extensively weathered and overlain by the recent valley fills and alluvium at places. The geological formations found in the district are Archaean rocks like Gneisses, Granites, Charnockites basic granulites and calc-gneisses. The younger formations are Quartz veins and pegmatite.

The rock type noticed in the area for lease is Charnockite which contains mostly Quartz and Feldspar with some ferromagnesian minerals. The Charnockite is part of peninsular Gneisses, a high grade metamorphic rock.

The strike of the Charnockite formation is N45^{0}E –S45^{0}W with dipping towards SE60^0.

The general geological succession of the area is given as under.

AGE		**ROCK TYPE**
Recent	-	Gravelly soil
		Unconformity
Archaean	-	Dolerite dyke
		Charnockite.
		Peninsular
		Gneissic complex
		and Calc Gneiss

2.7.2 REGIONAL GEOLOGY

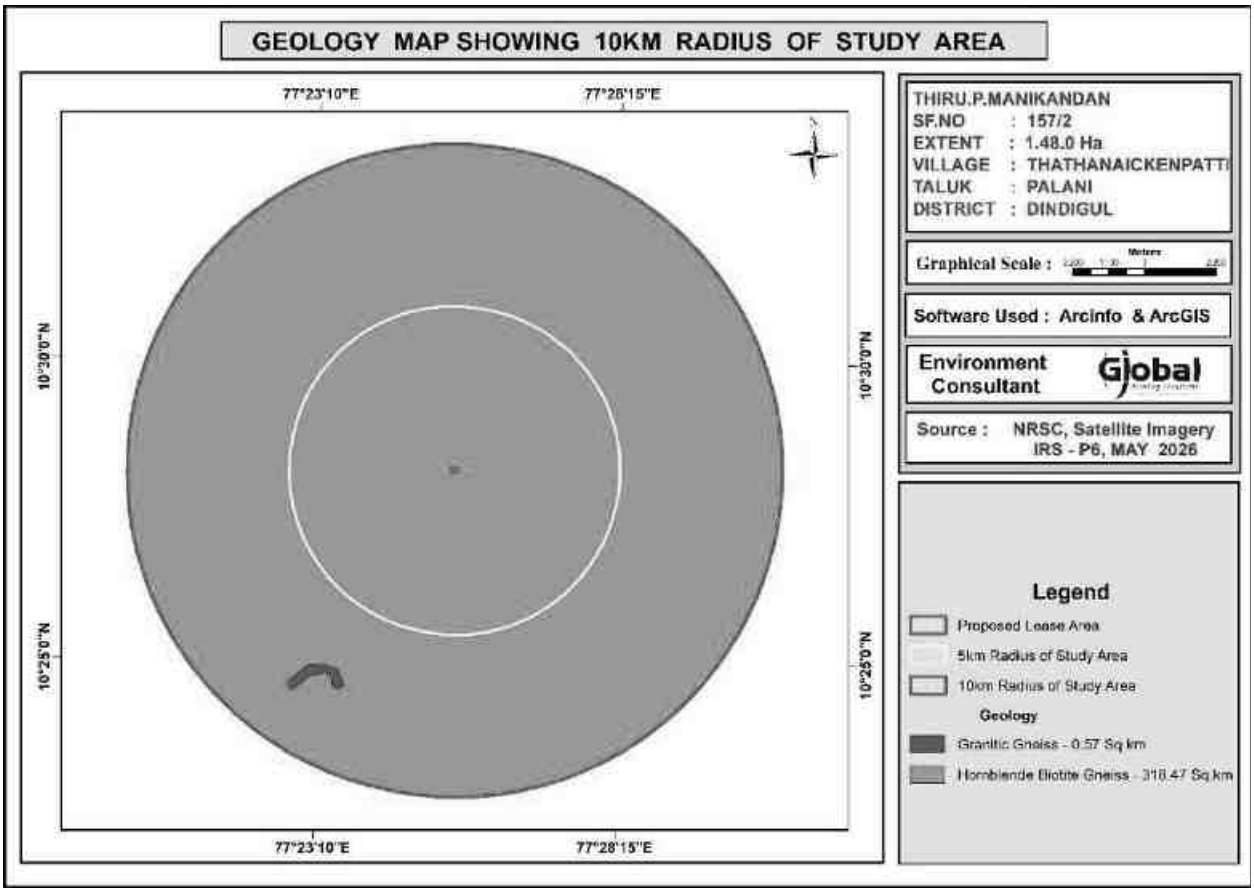


Figure 2.7 Geology Map – 10km Radius from the Project Site

The Core and 10 Km buffered zone geological features (Figure 2.28) show that the district is essentially a high-grade gneissic terrain characterized by highly deformed rocks, which can be classified under three groups as 1) Khondalite Group, 2) Charnockite Group and 3) Migmatite Group. The terrain also exposes basic/ultrabasic and younger acid intrusives.

Khondalite Group comprises quartzite, calc granulite / crystalline limestone, garnet sillimanite gneiss, garnet-cordierite gneiss and garnet quartz-feldspar gneiss. Quartzite is an important member of the group, which occurs as linear bands of 5 m to 50 m thick and occupies the crest of linear ridges. It is white or smoky grey and consists of interlocking grains of quartz with minerals like garnet, biotite, diopside, sillimanite and magnetite as accessories. Magnetitequartzite bands are of restricted

thickness. Calcgneiss is grey or green and banded, which shows typical ribbed weathering. It consists of diopside, calcite, scapolite, wollastonite and sphene in various proportions with a small amount of quartz and garnet. With decrease in silicate minerals and increase in carbonates, it grades into crystalline limestone. Crystalline limestone is white, medium to coarse, with interlocking calcite, with a small amount of diopside, biotite and magnetite. Garnet-sillimanite gneiss is medium to coarse grained, 5 to 100 m thick and can be traced over a few kilometers along strike. It is mainly made of bands of quartz-k-feldspar rich layers alternating with layers rich in biotite, sillimanite and garnet. Garnet porphyroblasts upto 3 cm in diameter and sillimanite needles upto 5 cm x 2.5 mm size, are seen at a few places. This rock also has thin interbands of garnet-cordierite gneiss and garnetquartz-feldspar gneiss.

The metasedimentary rocks occur either as individual bands or as swathes of bands repeated several times with width varying from 10 m to 100 m and exposed length from 100 m to a few kilometers, within the Charnockites and Migmatites. These bands are repeated several times because of tectonic slicing.

The Charnockite Group comprises pyroxene granulite and charnockite. The pyroxene granulite is dark grey, medium grained granulitic rock with typical salt and pepper texture, seen on the weathered surface. It consists of diopside, hypersthene, plagioclase, hornblende, biotite and quartz. Charnockite is the predominant rock in the area. It is grey, medium to coarse grained, greasy looking with foliation seen prominently on the weathered surface. It is essentially made of smoky or grey quartz, pale grey microcline and hypersthene as major minerals with plagioclase, hornblende and biotite as accessories. It forms high hills / hill ranges and also occupies the plains, covered by 1-2 m thick soil.

Migmatite is a group of banded felsic rocks of varying mineralogical composition that are formed due to the influx of quartzo-feldspathic material into high grade metamorphic rocks. Two types of migmatite are seen in the Dindigul district, one is grey and the other is pink. Next to charnockite, migmatite gneiss is the second most

extensive rock. The migmatite gneiss consists of quartz, kfeldspar, plagioclase, hornblende and biotite in varying proportions.

Intrusive igneous rocks are seen in the area are meta-gabbro and anorthosites as for example around Oddanchatram and east of Vedasandur. Meta gabbro is coarse grained, dark grey, mainly comprising pyroxene, amphibole and plagioclase. Anorthosite is pale pink to light brown, medium to coarse grained rock essentially made up of plagioclase with a small amount of pyroxene and amphibole. Quartz and pegmatite veins are of restricted areal extent. Minor bodies of younger granite are exposed in the area east of Vedasandur.

Foliation/ gneissosity, the prominent planar structure seen in the metamorphic rocks is ENE-WSW in the west and near N-S in the central part of the district. The eastern part of the district shows complicated folded structures due to interference of two phases of folding, forming a series of domes and basins. Faults and shear zones trend N-S in the central part, and NW-SE in the southern part.

(Source – District Survey Report, Dindigul).

2.8 RESOURCES AND RESERVES

The quarrying is restricted up to a depth of 32m (below ground level) only, availability of resources is given below.

Table 2.7 Available Geological Resources

Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel in m^3	Rough stone in m^3	Bulk Density	Gravel in Ts	Geological Resources of Rough stone in Ts
XY-AB	I	170	87	2	29580	-	2	59160.00	-
	II	170	87	5	-	73950	2.75	-	203362.50
	III	170	87	5	-	73950	2.75	-	203362.50
	IV	170	87	5	-	73950	2.75	-	203362.50
	V	170	87	5	-	73950	2.75	-	203362.50
	VI	170	87	5	-	73950	2.75	-	203362.50
	VII	170	87	5	-	73950	2.75	-	203362.50
Total					**29580**	**443700**	**-**	**59160.00**	**1220175.00**

Gravel : 59,160Ts
he Geological Resources of Rough stone : 12,20,175Ts

2.8.1 MINEABLE RESERVES

The mineable reserve calculated by deducting 7.5m and 10m safety distance and bench loss.

Table 2.8 – Available Mineable Reserves

Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel in m^3	Rough stone in m^3	Bulk Density	Gravel in (Ts)	Mineable Reserves of Rough stone in (Ts)
XY-AB	I	151	71	2	21442	-	2	42884.00	-
	II	146	66	5	-	48180	2.75	-	132495.00
	III	136	56	5	-	38080	2.75	-	104720.00
	IV	126	46	5	-	28980	2.75	-	79695.00
	V	116	36	5	-	20880	2.75	-	57420.00
	VI	106	26	5	-	13780	2.75	-	37895.00
	VII	96	16	5	-	7680	2.75	-	21120.00
Total					**21442**	**157580**	**-**	**42884.00**	**433345.00**

The mineable reserve is computed as 4,33,345Ts of Rough stone, 42,884Ts of Gravel upto a depth 32m (below ground level) only.

2.9 PROCESS DESCRIPTION AND TECHNOLOGY

2.9.1 PROCESS DESCRIPTON

The quarry operation involves shallow jack hammer drilling, slurry blasting, excavation, Loading and transportation of rough stone to the needy buyers. The production of rough stone in this quarry involves the following method which is typical for Rough Stone and gravel quarrying in contrast to other major mineral mining.

- Splitting of rock mass of considerable volume from the parent rock mass by jackhammer drilling and blasting, hydraulic excavators are used for loading the Rough Stone from pithead to the needy buyers.
- Occasionally hydraulic excavators are attached with rock breakers for fragmentation to avoid secondary blasting.
- The primary boulders thus splitted are removed from the pits by excavators and further made to smaller sizes by rock breakers attached in excavators.

The process diagram is provided in Figure 2.9. The production plan and cross section and conceptual plan and conceptual cross section is given in Figure No. 2.10 and Figure No. 2.11 respectively.

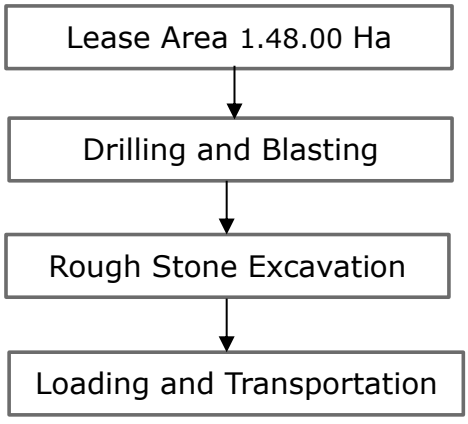
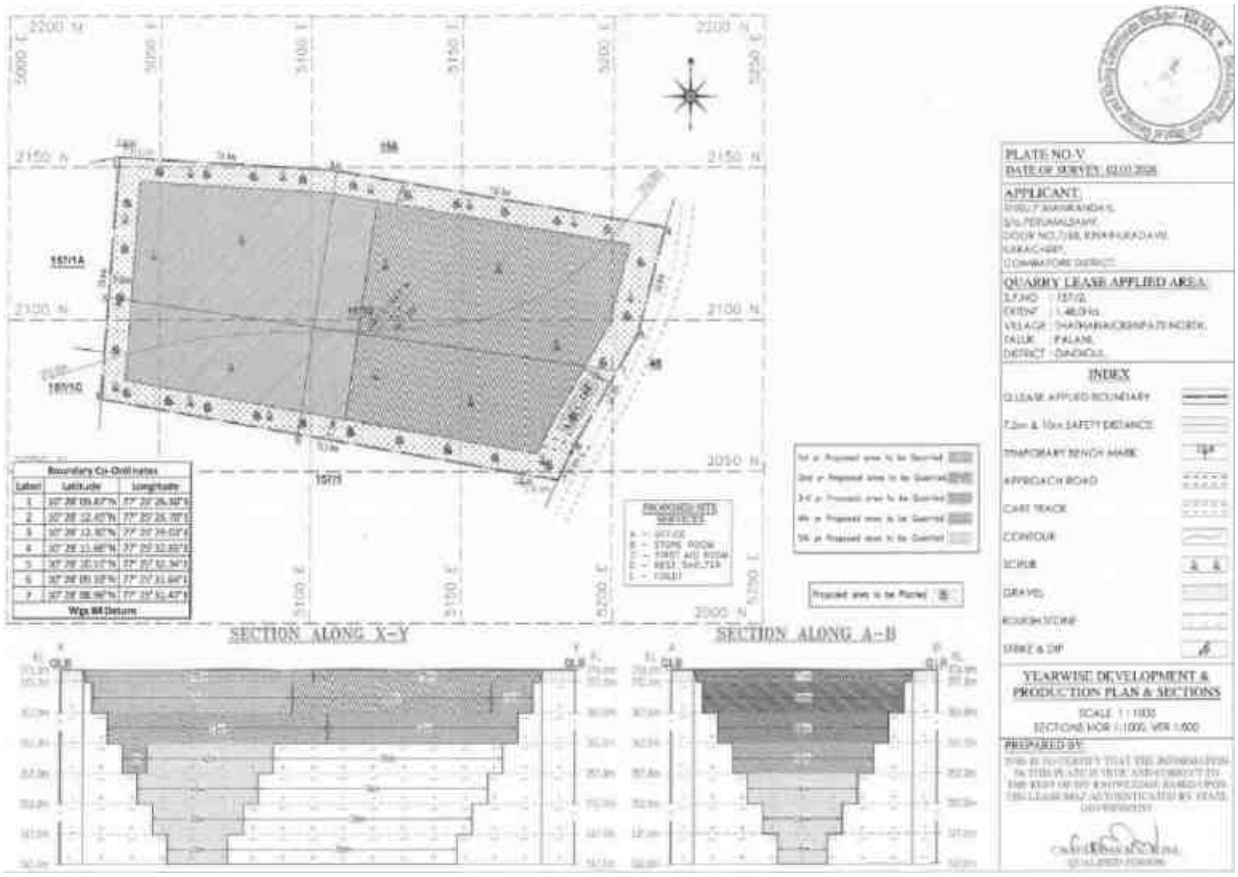


Figure 2.8 Process Flow Diagram


PLATE NO-V
APPLICANT
QUARRY LEASE APPLIED AREA
INDEX
YEARWISE DEVELOPMENT & PRODUCTION PLAN & SECTIONS
SCALE 1:1000
PREPARED BY
Boundary Co-Ordinates
Latitude
Longitude
SECTION ALONG X-Y
SECTION ALONG A-B

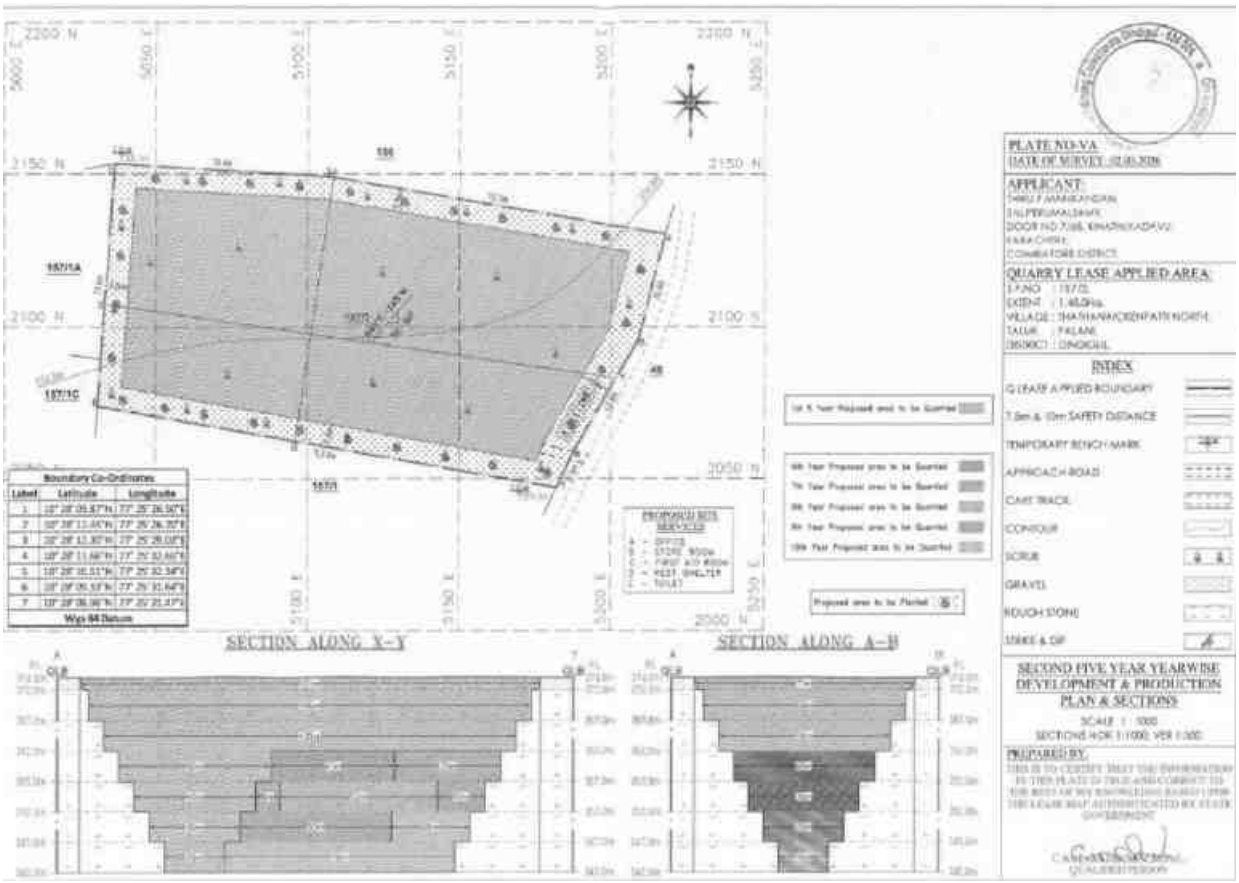


Figure 2.9 Year wise Development & Production Plan & Sections

Table 2.9 – Machinery Details

S.No.	Name of the Equipment	Capacity	Requirement
1	Excavator with Rock breaker attachment	0.90 m^3	1 No.
2	Compressor	-	1 No.
3	Jack hammer	32 mm Dia	3 Nos.
4	Tipper	10/20 Ts	3 Nos.

2.9.2 DRILLING AND BLASTING PARAMETERS

Drilling and Blasting will be carried out as per parameters given below,

Table 2.10 – Details of Blasting

Diameter of the hole	32-36 mm
Spacing	0.6m
Depth	1 to 1.5 m
Burden of hole	0.6m
Pattern of hole	Zig zag
Inclination of hole	70^0 from horizontal
Number of holes	68
Powder factor	6Ts/Kg of Explosives
Total explosive required	34 Kg slurry Explosives
Charge / hole	0.5 Kg
Blasting time	12-2 Pm

2.9.3 TYPE OF EXPLOSIVE

Slurry explosive is proposed for shattering and heaving effect for removal of rough stone. No deep hole drilling or primary blasting is proposed. The Project Proponent have agreement with AR & Co to carry out the blasting operation for the proposed quarry.

2.9.4 STORAGE OF EXPLOSIVES

No proposal for storage of explosives within the project area, the applicant will engage authorized explosive agency to carry out the blasting and it will be supervised by competent and statutory foreman / mines manager as per DGMS guidelines.

2.9.5 PRODUCTION SCHEDULE

The year wise production schedule upto lease period of 10 years is given below, the year wise production plan is given in Figure 2.10.

Table 2.11 Year wise Production Plan

Year	Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel in m^3	Rough stone in m^3	Bulk Density	Gravel in (Ts)	Mineable Reserves of Rough stone in (Ts)
I	XY-AB	I	76	71	2	10792	-	2	21584.00	-
		II	66	66	5	-	21780	2.75	-	59895.00
Total						**10792**	**21780**	**-**	**21584.00**	**59895.00**
II	XY-AB	I	75	71	2	10650	-	2	21300.00	-
		II	66	66	5	-	21780	2.75	-	59895.00
Total						**10650**	**21780**	**-**	**21300.00**	**59895.00**
III	XY-AB	II	14	66	5	-	4620	2.75	-	12705.00
		III	63	56	5	-	17640	2.75	-	48510.00
Total						**-**	**22260**	**-**	**-**	**61215.00**
IV	XY-AB	III	73	56	5	-	20440	2.75	-	56210.00
		IV	8	46	5	-	1840	2.75	-	5060.00
Total						**-**	**22280**	**-**	**-**	**61270.00**
V	XY-AB	IV	42	46	5	-	9660	2.75	-	26565.00
		V	40	36	5	-	7200	2.75	-	19800.00
		VI	30	26	5	-	3900	2.75	-	10725.00
		VII	20	16	5	-	1600	2.75	-	4400.00
Total						**-**	**22360**	**-**	**-**	**61490.00**
Grand Total						**21442**	**110460**	**-**	**42884.00**	**303765.00**

The applicant has proposed to carry out 3,03,765Ts of Rough Stone, 42,884Ts of gravel for the period of first five years. remaining quantity of 1,29,580Ts of Rough Stone will be proposed for the period of second five years up to a depth of 32m (below ground level).

The proposed tentative yearwise production for 6th to 10th year is given below

Year	Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Rough stone in m^3	Bulk Density	Mineable Reserves of Rough stone in (Ts)
VI	XY-AB	IV	41	46	5	9430	2.75	25932.50
Total						**9430**	**-**	**25932.50**
VII	XY-AB	IV	35	46	5	8050	2.75	22137.50
		V	8	36	5	1440	2.75	3960.00
Total						**9490**	**-**	**26097.50**
VIII	XY-AB	V	52	36	5	9360	2.75	25740.00
Total						**9360**	**-**	**25740.00**
IX	XY-AB	V	16	36	5	2880	2.75	7920.00
		VI	50	26	5	6500	2.75	17875.00
Total						**9380**	**-**	**25795.00**
X	XY-AB	VI	26	26	5	3380	2.75	9295.00
		VII	76	16	5	6080	2.75	16720.00
Total						**9460**	**-**	**26015.00**
Grand Total						**47120**	**-**	**129580.00**

2.9.6 DISPOSAL OF WASTE

There is no waste anticipated in this rough stone and gravel Quarry. The entire quarried minerals will be utilized. Rough Stone, after the excavation Rough Stone will be directly loaded into tipper to the needy buyers for road project and construction works for filling and leveling of low-lying areas.

2.10 CONCEPTUAL MINING PLAN / FINAL MINE CLOSURE PLAN

Conceptual mining plan is prepared with an object of ten years of systematic development of bench layouts, selection of ultimate pit limit, depth of quarrying, ultimate pit slope, selection of sites for construction of infrastructure etc.

The ultimate pit size is designed based on certain practical parameters such as economical depth of mining, safety zones, permissible area, etc. Conceptual cross section and mine closure plan is given in Figure 2.11.

Pit dimension as per approved mining plan is given below.

Table 2.12 - Ultimate Pit Dimension at the end of Lease period

Ultimate Pit dimension (M) end of Mining plan Period			
Pit No	Length (max) in(m)	Width (Avg) in (m)	Depth(max) in(m)
I	151	71	32 (BGL)

Table 2.13 - Land use pattern of the Project site

Sl. No.	Land Use	Present Area (Ha)	Area in use during the quarrying period (Ha)
1.	Quarrying Pit	Nil	1.07.50
2.	Infrastructure	Nil	0.01.00
3.	Roads	Nil	0.01.00
4.	Green Belt	Nil	0.38.50
5.	Unutilized	1.48.00	Nil
Total		**1.48.00**	**1.48.00**

- At the end of life of mine, the excavated mine pit / void of 1.07.50 Ha will act as artificial reservoir for collecting rain water and helps to meet out the demand or crises during drought season.
- After mine closure the greenbelt (0.38.50 Ha.) will be developed along the safety barrier and top benches and 0.02 Ha are approach road and Infrastructure.

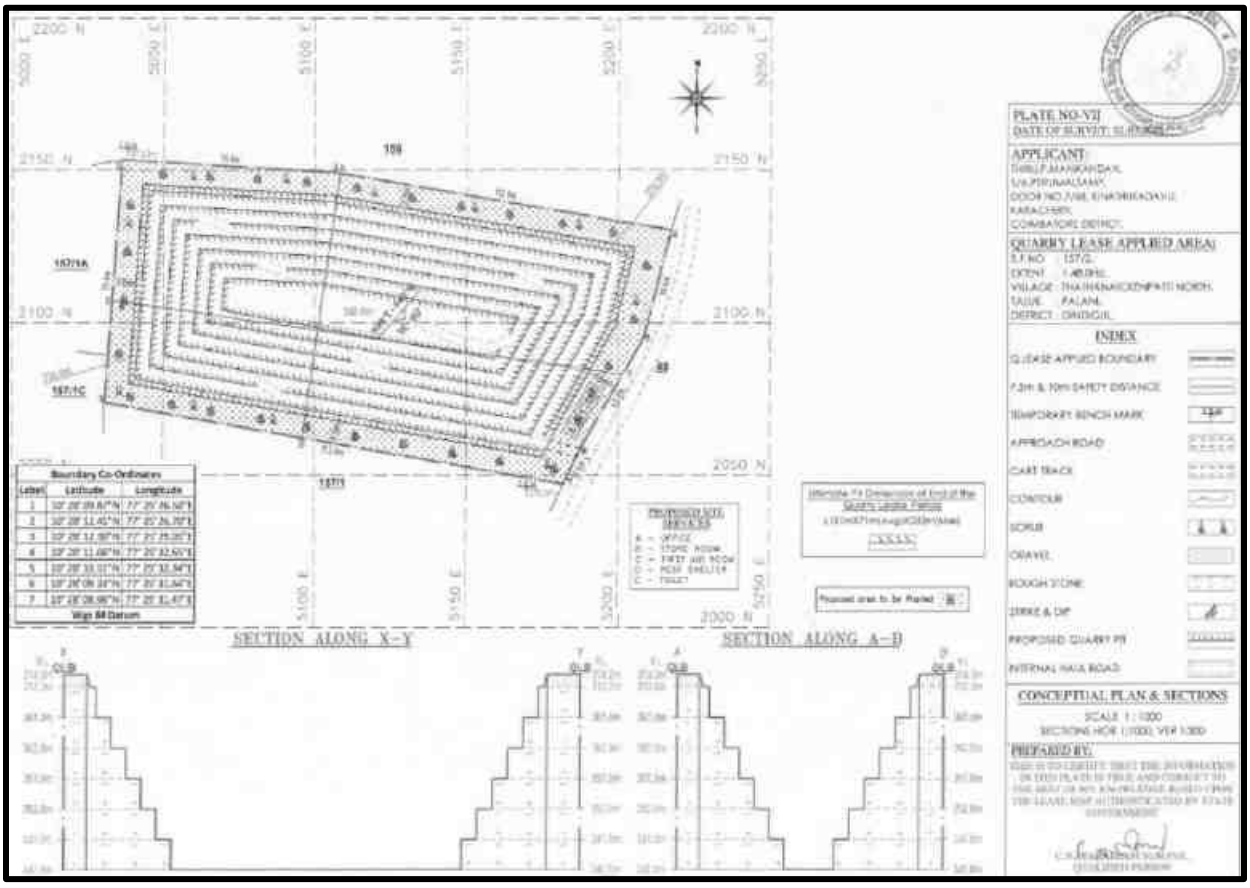


Figure 2.10 Conceptual Plan and Cross Section

2.11 PROJECT REQUIREMENT

2.11.1 WATER REQUIREMENT AND SOURCE

The total water requirement estimated for the quarry is 5.0 KLD. The required water will be procured from outside agencies initially and later rainwater harvested in the mine pit shall be used other than drinking purpose.

Table 2.14 Details of Water requirement

Activity	Water Requirement in KLD
Drinking & Domestic	1.5
Dust Suppression	1.5
Greenbelt Development	2.0
Total	**5.0**

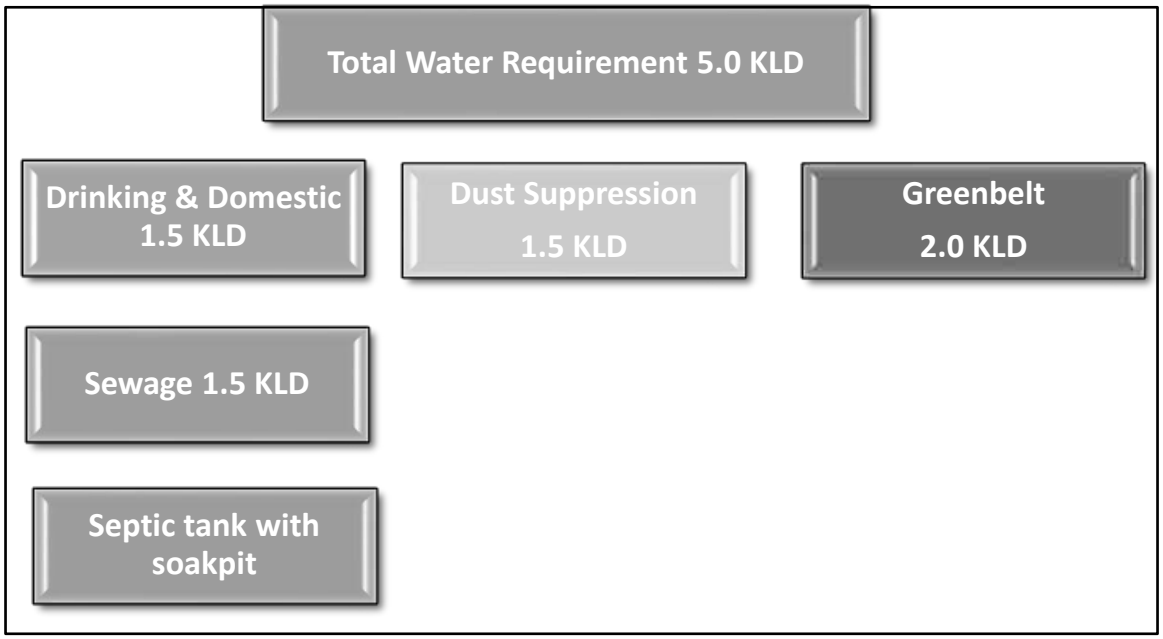


Figure 2.11 Water Balance Chart

2.11.2 POWER REQUIREMENT

All the equipment will be diesel operated. No electricity is needed for mining operation. The minimum power requirement for office, etc will be met from state grid.

2.11.3 FUEL REQUIREMENT

High speed Diesel (HSD) will be used for mining machineries.

Table 2.15 Details of Fuel (HSD) Requirement

For Rough Stone

For first five years	
Per hour excavator will consume	16 liters /hr
Per hour excavator will excavate	20 m3 of Rough Stone
For 1,10,460 m3	1,10,460 /20 = 5,523
So, Diesel consumption	= 5,523 x 16 litres
	= 88,368 litres of HSD

For second five years	
Per hour excavator will consume	16 liters /hr
Per hour excavator will excavate	20 m3 of Rough Stone
For 47,120 m3	47,120 /20 = 2,356
So, Diesel consumption	= 2,356 x 16 litres
	= 37,696 litres of HSD

For Gravel

Per hour excavator will consume	10 liters /hr
Per hour excavator will excavate	60 m3 of Gravel
For 21,442 m3	21,442 / 60 = 357.36
So, Diesel consumption	= 357.36 x 10 litres
	= 3573.6 litres of HSD

The Total fuel consumption is around 1,29,638 (L) of HSD for the entire period of life (10 years).

2.11.4 EMPLOYMENT GENERATION

The project will provide employment opportunities for 25 Nos. of persons.

Table 2.16 Details of Manpower requirement

1.	Skilled	Mines Manager	1 No.
		Foreman / Mate	2 No.
		Operator	8 No.
		Mechanic	1 No.
2.	Semi–skilled	Driver	3 No.
3.	Unskilled	Labours	12 Nos
		Total =	27 Nos

2.11.5 GREEN BELT REQUIREMENT

The safety zone, covering an area of 0.38.50 Hectares, will be maintained as a green belt and planted with 385 Nos. of local species.

2.11.6 VEHICULAR TRAFFIC DENSITY

The proposed quarry is located in Thathanaickenpatti village. The final product from the quarry will be transported through Pappampatti to Kasanayampatti Village Road. The details of transport route from the quarry shown below:



Figure 2.12 Key Plan of the Project Site

Mineral Transportation

Mineral Transportation			
Production Per day in tons			
Quarry	**Quarry Name**	**Total Mineral in tons per day**	**No. of Lorry Load per day**
P1 (Proposed)	Thiru.P.Manikandan	277	28
P2 (Proposed)	Tmt.S.Thamayanthi	435	44
Total		**712**	**72**

The proposed projects will bring 72 trips per day.

Methodology

Vehicle Count

The vehicles passing through the road (in both ways) were counted separately for 24 hours at the one selected location from 06.00 hrs to 06.00 hrs next day continuously. Category wise vehicle counting has been done continuously and recorded in the traffic volume count on hourly basis under respective categories.

Categorization of Traffic

The engine driven vehicles were categorized into various heads viz. two wheelers, three wheelers, four wheelers and trucks/bus. The level of service is given below. **(Source: Recommended Design Service Volumes (PCUs per hour), IRC)**

OPERATING CONDITION OF ROAD IN TERMS OF V/C AS PER INDIAN ROADS CONGRESS (IRC) 106 - 1990

Level of Service	General Operating conditions	Range of V/C
A	Free flow (traffic flows at or above speed limit and motorists have complete mobility between lanes)	<0.30

B	Reasonable flow (slightly more congested, with some maneuverability)	0.3 – 0.47
C	Stable flow (more congested than B, loads close to capacity)	0.48 – 0.68
D	Approaching unstable flow (speeds are somewhat reduced, example: busy corridor during middle of a weekday, or a functional urban highway during rush hour)	0.69 – 0.88
E	Unstable flow (flow becomes irregular, speed varies widely and rarely reaches speed limit)	0.88 - 1.00
F	Forced or breakdown flow (a constant traffic jam)	>1.00

Table 2.17 Existing Traffic Flow

Station Code	HMV		LMV		2/3 Wheelers		Total PCU
	No	PCU	No	PCU	NO	PCU	
1	70	210	56	56	190	95	361

PCU conversion factor: HMV (Trucks and Bus) = 3, LMV (Car, Jeep and Auto) = 1 and 2/3 Wheelers = 0.5

Table 2.18 Mineral Hourly Transportation Requirement

Capacity of trucks	No Trips per day Cumulatively	Volume in PCU	PCU Per hour considering 8 HOURS
10 tonnes	72	111	14

Table 2.19 - Summary of Traffic Volume

Route	Existing Traffic Survey in PCU	Incremental Traffic Survey due to project	Total Traffic Survey Volume	Hourly capacity in PCU as per

				IRC -1960 guidelines
(NH-83) Dindigul – Coimbatore	361	14	375	1500

As per the IRC 1960 this existing village road can handle 1500 PCU in hour hence there will not be any conjunction due to this proposed transportation.

Table 2.20 - Modified Level of Service

Sampling Location	**Existing Volume (PCU/hr)**	**Existing Volume/ Capacity ratio**	**Additional Volume (PCU/hr)**	**Modified Volume (PCU/hr)**	**Modified Volume/ Capacity ratio**	**Modified LOS**
(NH-83) Dindigul – Coimbatore	361	0.24	14	0.009	0.249	A*

(* A – Free Flow)

2.11.7 INFRASTRUCTURE REQUIREMENT

This is a proposed project. Site services like mine office, first aid room, toilets etc. will be provided as semi-permanent structures.

2.11.8 PROJECT COST

The total project cost of this rough stone Quarry is Rs. 105.82 lakhs.

Project Cost Details		
Fixed Cost		
Land Cost	:	Rs.8.88 Lakhs
First Aid Room and accessories	:	Rs.1.00 Lakh
Labourer Shed	:	Rs.1.00 Lakh
Sanitary Facility	:	Rs.1.00 Lakh
Total (A)– Rs.11.88 Lakhs		
Operational Cost		

Machineries	:	Rs.50.00 Lakhs
Fencing cost	:	Rs.1.50 Lakhs
		Total (B) – Rs. 51.50 Lakhs
EMP Cost		
Air Environment, Noise Environment, Mine Closure, Implementation of EC, Mining Plan & DGMS Condition	:	**Total(C)–Rs.37.44 Lakhs**
CER Cost		
Plantation, Providing Table and desks - 10 sets and Maintenance of the toilet for the entire lease period	:	**Total (D)– Rs.5.00 Lakhs**
Grand Total (A+B+C+D)	**:**	**Rs. 105.82 Lakhs**

2.11.9 PROJECT IMPLEMENTATION SCHEDULE

The proponent proposes to implement the production immediately after obtaining all the statutory approvals. The commercial operation will commence after the grant of Environmental Clearance. CTO and CTE will be obtained from the Tamil Nadu State Pollution Control Board. The conditions imposed during the Environmental Clearance will be compiled before the start of mining operation.

***

CHAPTER 3

DESCRIPTION OF THE ENVIRONMENT

3.1. STUDY AREA, PERIOD COMPONENTS AND METHODALOGY

The project area is located in in Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State over an extent of 1.48.00 Ha., The project area is considered as Core zone and the area in the surrounding 10km radius is considered as Buffer Zone. The baseline environmental monitoring was conducted by Shrient Analytical & Research Labs Private Limited, Chennai it is an NABL and MOEFCC recognized laboratory for various components of environment, viz. Air, Noise, Water, Land was carried out during Summer Season i.e. March 2026 to May 2026 in the study area covering 10 km radial distance from the rough stone mine. Other environmental data on flora and fauna, land-use pattern, forest etc. were also generated through field surveys and secondary information collected from different State Govt. departments. Sampling methods and analysis. Socio-economic survey was conducted, through interaction with the people, sarpanch and medical officers by floating questionnaires and collection of information are supported by census data for demographic structures, amenities, and infrastructure availability within the study area. Baseline values for various environmental components are discussed in this Chapter.

3.2 ENVIRONMENTAL SETTING OF THE STUDY AREA

Table 3.1 Description of the lease area		
S.No.	Areas	Distance from project site
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Nil within 15km radius
2	Areas which are important or sensitive for ecological reasons	
A	Wetlands, water courses or other water bodies,	Odai – 360m (S), 400m (N) Tank – 380m (N), 1.56Km (W), 1.56 Km (SW), 1.36 Km (S), 1.33 km (NE), Amaravathi River – 6.9Km (NW) River – 6.6 KM (E)
B	Coastal zone, biospheres,	Nil within 10km radius
C	Reserve forests	Andipatti R.F – 7.8 Km (SW) Periyammapatti R.F – 8.4 Km (SE)
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	Nil within 15km radius
4	Inland, coastal, marine or underground waters	Nil within 15km radius
5	State, National boundaries	Nil within 15km radius
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Nil within 15km radius
7	Defense installations	Nil within 15km radius
8	Densely populated or built-up area	Thatanaickenpatty North Habitation – 1.11 Km (NE)
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Thatanaickenpatty North Habitation – 1.11 Km (NE)

10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Nil
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	Nil
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earth quakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions) similar effects	No. The area is not prone to earthquakes, floods, etc.

3.3 STUDY PERIOD

The relevant information and data (both primary and secondary) were collected in core as well as buffer zone (10 km distance from the mine boundary) during March 2026 to May 2026 in accordance with the guidelines for preparation of EIA studies in order to assess the impact of the mine site within the 10 Km study area on existing physical, biological and social environment.

3.4 ESTABLISHMENT OF BASELINE FOR VALUED ENVIRONMENTAL COMPONENTS

Information on the following components/parameters were collected to understand the existing scenario of the core and buffer area:

- Meteorological environment
- Air environment
- Water environment
- Noise environment
- Soil environment
- Biological environment

- Land use & Land cover
- Socio economic environment
- Hydrogeology

3.4.1 BASELINE DATA COLLECTION

Baseline environment data on various components of the environment in the study area were collected during March 2026 to May 2026 to assess the present scenario of the area. Details are given in the table given below.

Baseline data collection during March 2026 to May 2026.

S.No	Environmental Component	Primary data		
		Parameters	Frequency	Monitoring/ Sampling locations
1	Land	Agriculture, Habitation, Industry, Stony waste/ Quarries, Forest area, Plantation/ Vegetation, Open scrub, Water bodies etc.	Once in a Season	10 km radius study area
2	Meteorology	Temperature, Relative Humidity, Wind Speed, Wind Direction.	Hourly	1
3	Air	PM10, PM2.5, SO2, NO2, CO & PAH	twice a week (24 hourly)	7
4	Noise	Equivalent noise levels in Leq in dB (A)	Once in a season (day & night time)	7
5	Water	Parameters as per IS 10500 - 2012	Once in a season	-
A	Surface Water	Parameters as per IS 10500 - 2012	Once in a season	2
B	Ground Water	Parameters As per IS 2720/USDA	Once in a season	7
6	Soil	Parameters As per IS 2720/USDA	Once in a season	7
7	Biological Environment	Flora and Fauna	Once in a season	Study Area
8	Socio- Economic Environment	Socio-Economic Environment	Once in a season	Study Area

3.4.2 INSTRUMENTS USED FOR ENVIRONMENTAL BASELINE DATA COLLECTION

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

- Respirable Dust Sampler with attachment for gaseous Pollutants, Envirotech APM 460.
- Fine Particulate Matter (FPS) Sampler APM 550
- Sound Level Meter Model Envirotech SLM - 100
- Digital D.O. Meter Model - 831 E (CPCB Kit)
- Weather Monitoring Station Model Enviro WM 271
- Water Level Indicator and
- Global Positioning System (GPS) Apart from collecting samples of air, water, noise and soil from representative sampling points given in proceeding sections, the data on land use, vegetation and agricultural crops were also collected by the field team through interaction with a large number of local inhabitants of the study area and different Government departments/agencies. This provided an excellent opportunity to the members of the field team for obtaining clear scenario of the existing environment of the study area.

3.4.3. BASE MAP OF ALL ENVIRONMENTAL COMPONENTS

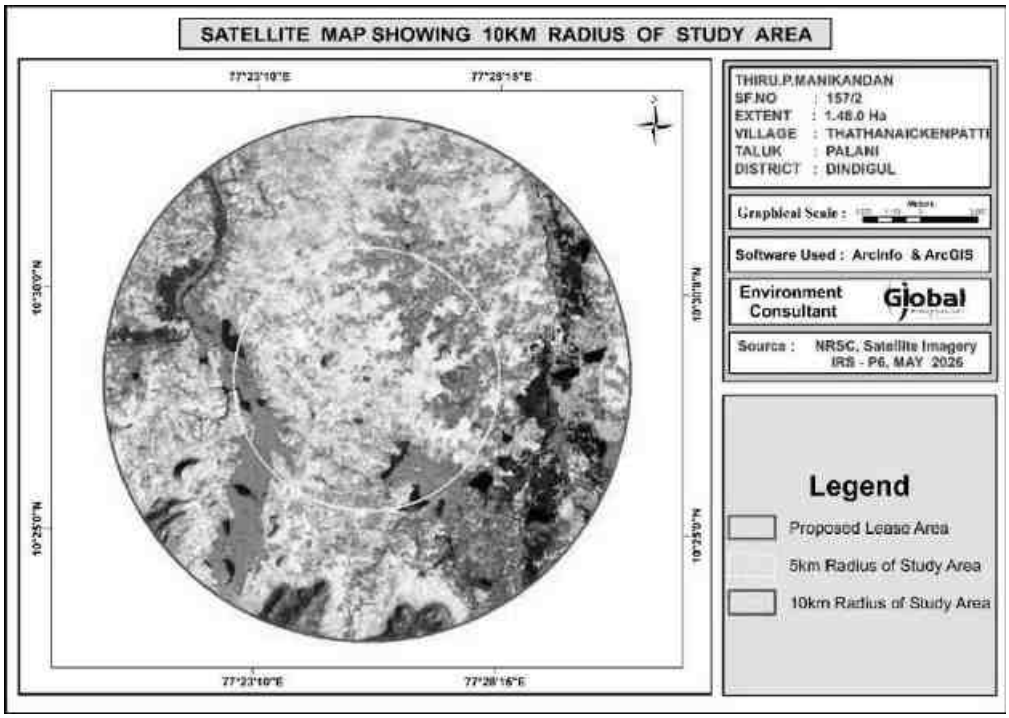


FIGURE - 3.1 SATELLITE MAP OF THE PROJECT AREA (10 KM RADIUS)

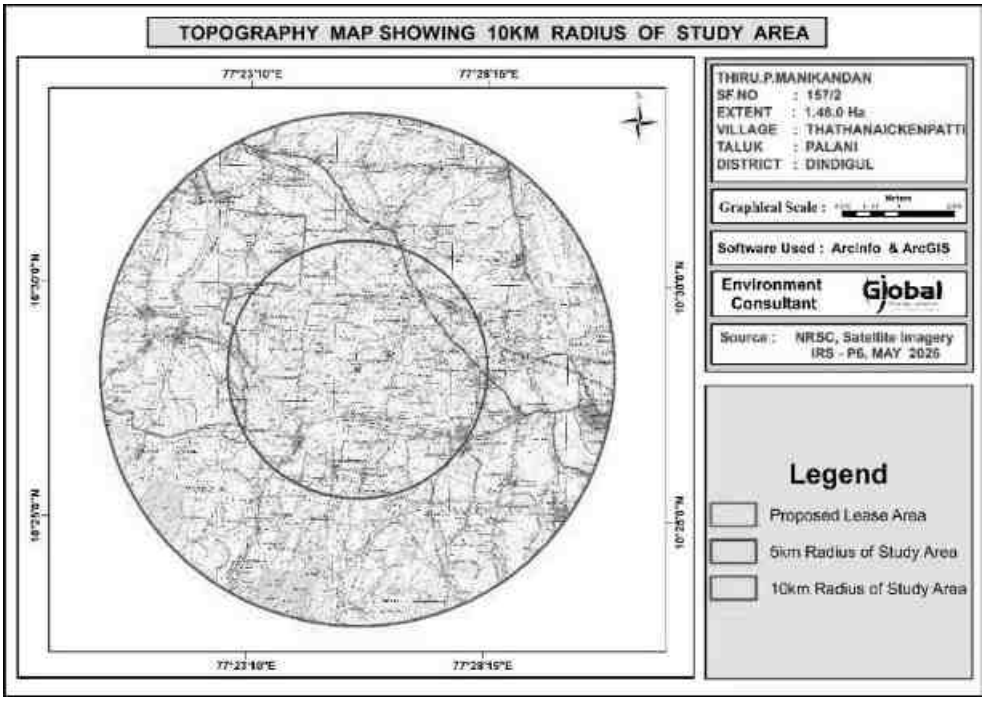


FIGURE - 3.2 Topo Map (10 KM RADIUS)

3.5 METEOROLOGICAL ENVIRONMENT

Meteorological conditions prevailing in the buffer zone is given below

3.5.1 Climate and Rainfall data

Dindigul District experiences a tropical semi-arid climate, characterized by warm to hot summers, moderate and seasonally variable rainfall, and distinct wet and dry periods. The district is located in the interior part of Tamil Nadu and is influenced by both the Southwest Monsoon and Northeast Monsoon. The Northeast Monsoon generally contributes a significant proportion of the annual rainfall.

The climatic conditions of the district vary to some extent due to differences in elevation and topography. The presence of the Palani Hills and other elevated terrain influences local temperature and rainfall patterns. The district supports agricultural activities, with irrigation being dependent on surface-water sources such as rivers, tanks and canals, as well as open wells and borewells. Groundwater is also an important source for agricultural and domestic requirements in several parts of the district.

Temperature

Summer Season (March–June):

- The summer season is generally hot and dry.
- Temperatures increase during April and May, which are generally the hottest months.
- Maximum temperatures may commonly reach around 35°C to 40°C in the plains and comparatively lower values occur in elevated areas.

Winter Season (December–February):

- The weather is generally mild and comparatively cool.
- Minimum temperatures may generally range between 18°C and 22°C, depending on location and elevation.

- January is generally among the cooler months of the year.

Rainfall

Dindigul District receives rainfall mainly from the Northeast Monsoon (October–December) and Southwest Monsoon (June–September). Rainfall distribution is seasonal and varies considerably across different parts of the district due to differences in elevation and topography.

The major sources of rainfall are:

- Northeast Monsoon (October–December): Generally the principal rainy season and contributes a significant share of the annual rainfall.
- Southwest Monsoon (June–September): Provides moderate rainfall and contributes to agricultural activities and groundwater recharge.
- Summer Rainfall (March–May): Occasional thunderstorms and convective rainfall may occur during the pre-monsoon period.
- Winter Rainfall (December–February): Generally limited, although occasional rainfall may occur.

Seasonal Characteristics

1. Summer (March–June):
    - Hot and relatively dry conditions generally prevail.
    - Temperatures are comparatively high, particularly during April and May.
    - Occasional convective thunderstorms may occur during the pre-monsoon period.
2. Southwest Monsoon (June–September):
    - Moderate and variable rainfall is received.
    - The rainfall contributes to groundwater recharge and supports agricultural activities.

- Rainfall distribution varies depending on the local topography and elevation.

3. Northeast Monsoon (October–December):
    - This is generally the principal rainy season for the district.
    - A substantial proportion of the annual rainfall is received during this period.
    - The rainfall contributes to the replenishment of tanks, surface-water bodies and groundwater resources.
4. Winter (December–February):
    - The weather is generally dry and comparatively cool.
    - Temperatures remain relatively moderate, particularly during night time and early morning hours.

Climate of Palani Taluk

Palani Taluk, located in the western part of Dindigul District and situated in the vicinity of the Palani Hills, experiences a tropical semi-arid climate with distinct summer, monsoon and winter seasons. The local climatic conditions are influenced by the surrounding hill ranges and variations in elevation. The area experiences rainfall from both the Southwest and Northeast Monsoons, with the Northeast Monsoon generally contributing significantly to the annual rainfall.

The general climatic characteristics of Palani Taluk are as follows:

- Climate type: Tropical semi-arid
- Annual rainfall: Generally moderate and seasonally variable
- Peak summer temperature: Approximately 35–40°C in the plains
- Winter minimum temperature: Approximately 18–22°C

- Major rainfall sources: Southwest and Northeast Monsoons, with the Northeast Monsoon contributing significantly
- Agricultural water sources: Tanks, canals, wells, borewells and seasonal rainfall

Agriculture is an important economic activity in Palani Taluk. Irrigation is supported by surface-water sources, tanks and canals, along with groundwater extraction through open wells and borewells. The presence of the Palani Hills influences local rainfall and temperature conditions, resulting in climatic variations between the elevated areas and the surrounding plains.

The semi-arid climate and seasonal nature of rainfall make effective management of surface-water and groundwater resources important for sustaining agricultural activities. Rainfall during the monsoon seasons contributes to groundwater recharge and replenishment of local water bodies, while irrigation infrastructure and groundwater resources provide supplementary water during dry periods.

The rainfall data for Dindigul District for the period 2019–2023 are presented in Table 3.2. The normal annual rainfall is reported as 816 mm. The data indicate considerable year-to-year variation in rainfall, with higher rainfall recorded during 2021 and 2022.

Table 3.2 Rainfall Data

Year	Actual Rainfall (mm)
2019	747.3
2020	629.2
2021	1,563.4
2022	1,043.8
2023	737.0
Normal Rainfall (mm)	816.0

The actual annual rainfall varied from 629.2 mm in 2020 to 1,563.4 mm in 2021, indicating significant inter-annual variability. Such variation is characteristic of the seasonal monsoon-dependent rainfall pattern of the region.

Seismic Information

The proposed project site at Palani Taluk, Dindigul District, Tamil Nadu, falls under Seismic Zone II, which is categorized as a low seismic damage risk zone, as per the seismic zoning provisions referenced in the BMTPC Vulnerability Atlas of India and IS 1893.

The meteorological parameters were monitored at the project site during the period from March 2026 to May 2026. The recorded meteorological data are presented in Table 3.3.

Table 3.3 Meteorological Data Recorded at Site

S. No.	Parameter	Unit	Minimum	Maximum	Average
1	Temperature	°C	17.0	36.0	24.5
2	Relative Humidity	%	20.0	96.0	65.9
3	Wind Speed	m/s	0.0	6.2	1.7
4	Wind Direction	—	—	—	Blowing from SE

Predominant Wind Direction: South-East (SE)

During the monitoring period from March 2026 to May 2026, the temperature recorded at the site varied between 17.0°C and 36.0°C, with an average of 24.5°C. Relative humidity ranged from 20% to 96%, with an average of 65.9%. Wind speed varied from calm conditions (0 m/s) to a maximum of 6.2 m/s, with an average wind speed of 1.7 m/s. The predominant wind direction during the monitoring period was observed to be from the South (S).

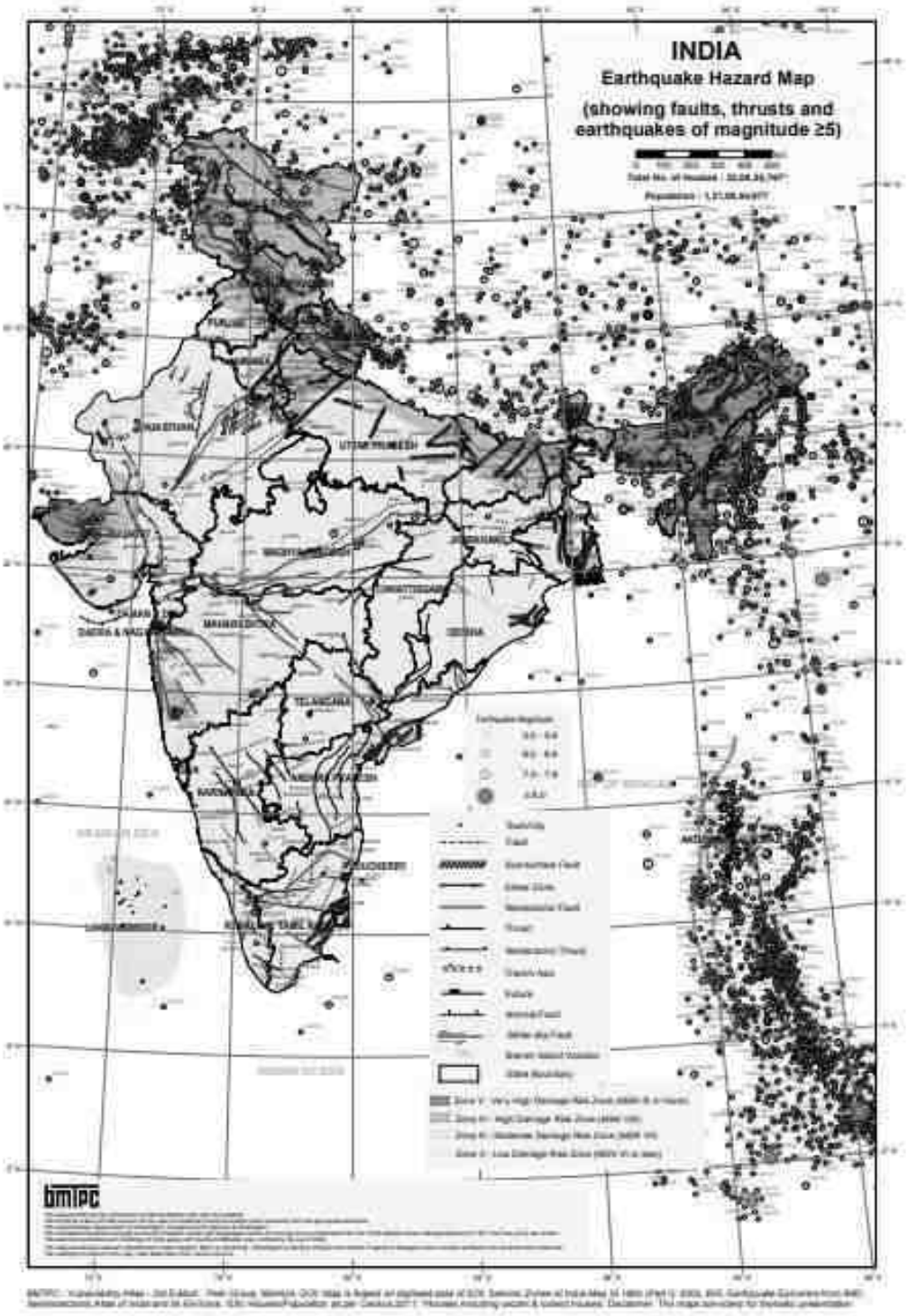


FIG 3.3 SEISMIC MAP OF INDIA

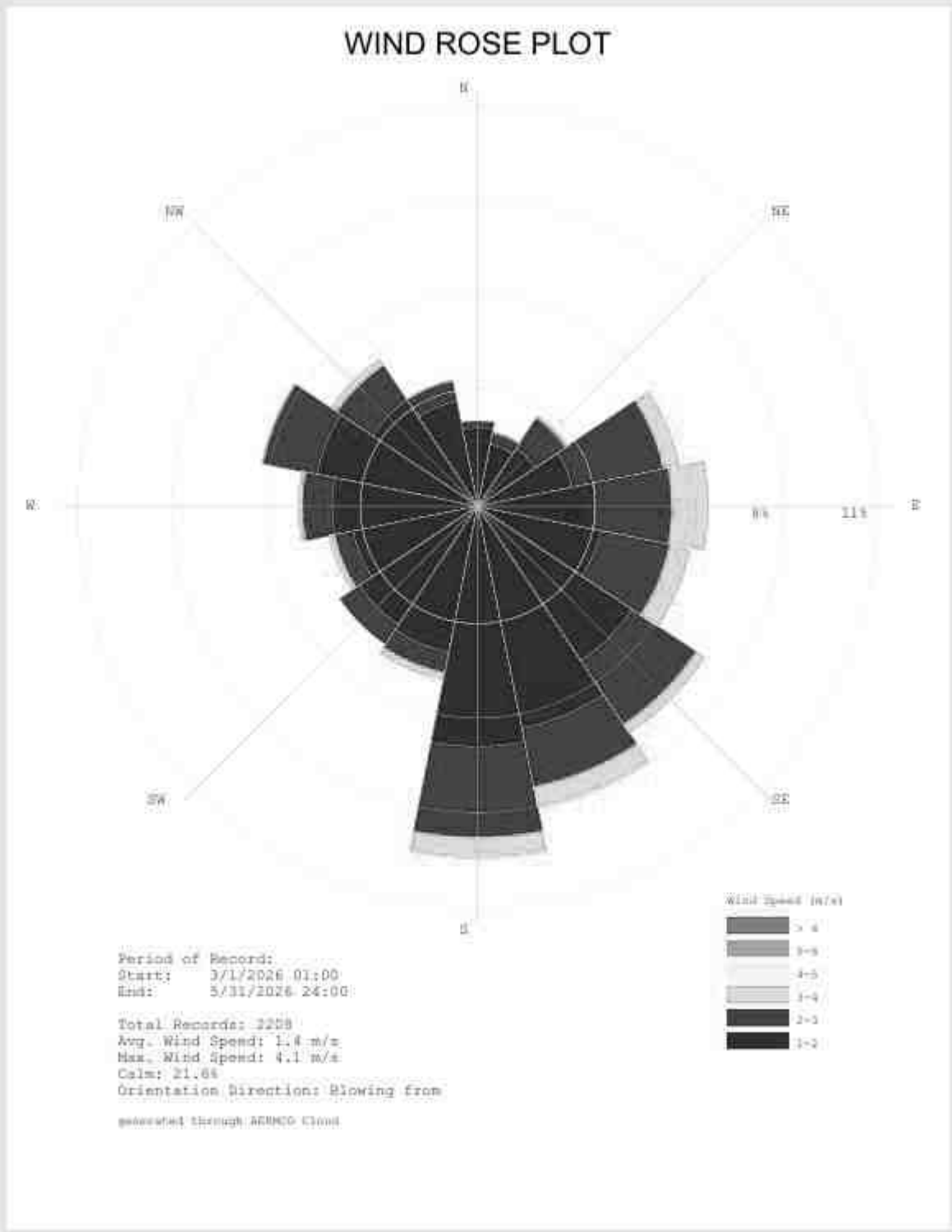


FIG 3.4 WIND ROSE PLOT DURING MARCH 2026 TO MAY 2026

3.5.2 Meteorological data of the project area

The meteorological data collected in the study area from March 2026 to May 2026 which includes Temperature, Wind speed and Wind direction. The predominant wind blows from South East. The temperature of the area is reported to be 17°C and 36°C during summer.

3.6 AMBIENT AIR MONITORING DATA

Ambient air quality monitoring has been carried out in 7 locations. One in the core zone and remaining six locations in the buffer zone areas. Monitoring locations have been chosen such that the measurement represents the overall air condition prevailing in the area. The study area represents mostly rural environment with stone mining quarries & crushers.

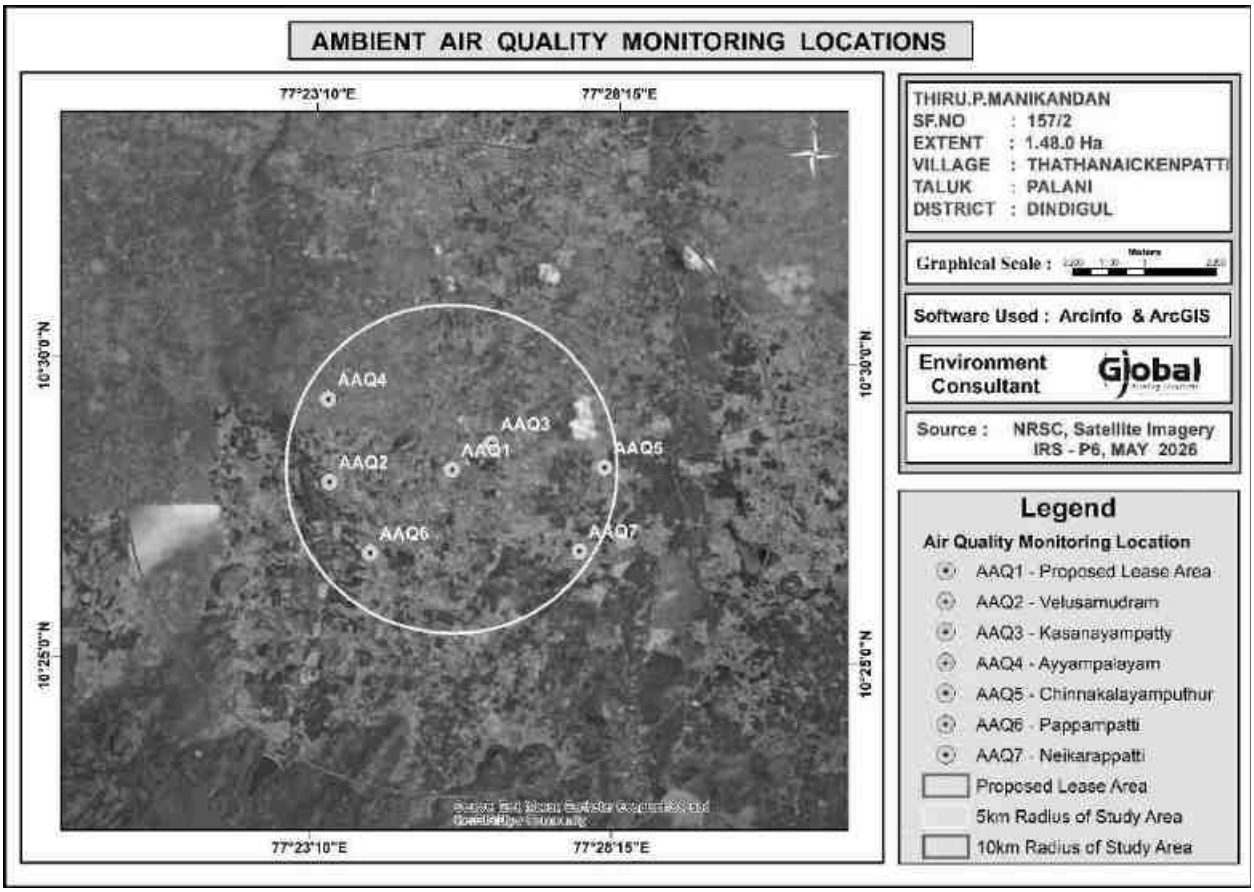
The regional climatologically data, was used as a guideline to know the predominant wind direction during study period. The locations were identified keeping in view predominant wind directions prevailing during study period, sensitive receptors, human settlements, and mining activities around.

The levels of Respirable Particulate Matter (PM10), Fine Particulates (PM2.5), Sulphur Dioxide (SO2) and Oxides of Nitrogen (NOx) were monitored for establishing the baseline status. PM10 were sampled with the help of Respirable Dust Samplers on filter papers and SO2 & NOx were absorbed in the respective absorption media in the impingers attached to RD samplers and analyzed Spectro-photometrically. PM2.5 was monitored with the help of Fine Particulate Samplers. The monitoring locations for ambient air study are given in Table – 3.3 and Figure 3.5 below.

Table 3.4 Details of Ambient Air Quality Monitoring Locations

S. No.	Station Code	Locations	Coordinates
1	AAQ 1	Within Mine Lease area	10°28'10.59"N & 77°25'29.15"E
2	AAQ 2	Velusamudram	10°27'54.57"N & 77°23'27.73"E
3	AAQ 3	Kasanayampatty	10°28'29.08"N & 77°26'12.31"E
4	AAQ 4	Ayyampalayam	10°29'11.83"N & 77°23'28.15"E
5	AAQ 5	Chinnakalayamputhur	10°28'10.70"N & 77°28'10.84"E
6	AAQ6	Pappampatti	10°26'41.28"N & 77°24'12.48"E
7	AAQ7	Neikarapatti	10°26'45.60"N & 77°27'40.93"E

FIG 3.5 BASE MAP OF AMBIENT AIR MONITORING LOCATIONS



The concentrations of various air pollutants at the 7 locations are given below. For all the components in the table, the unit are in $\mu g/m^3$.

Table.3.5 Results of Air sampling Analysis in 7 locations

Station ID	Min	Max	Avg
Particulate matter PM-$_{2.5}$ ($\mu g/m^3$)			
AAQ-1	23.2	35.2	29.5
AAQ-2	20.8	26.4	23.6
AAQ-3	18.8	23.6	21.0
AAQ-4	23.4	30.0	26.6
AAQ-5	18.5	25.1	21.8
AAQ-6	19.5	29.4	24.1
AAQ-7	21.3	28.0	24.8
CPCB NAAQS 2009 for PM $_{2.5}$ - 60 $\mu g/m^3$			
Particulate matter PM-$_{10}$ ($\mu g/m^3$)			
AAQ-1	48.6	73.9	61.9
AAQ-2	45.5	57.9	51.8
AAQ-3	40.6	51.2	45.5
AAQ-4	48.8	62.5	55.3
AAQ-5	40.6	55.1	48.0
AAQ-6	41.8	61.4	51.4
AAQ-7	45.9	60.5	53.2
CPCB NAAQS 2009 for PM $_{10}$ - 100 $\mu g/m^3$			
Sulphur Di-oxide as SO_2 ($\mu g/m^3$)			
AAQ-1	6.5	8.9	7.7
AAQ-2	5.7	8.2	7.0
AAQ-3	5.1	7.5	6.3
AAQ-4	6.2	8.1	7.5
AAQ-5	4.9	7.3	6.1
AAQ-6	5.0	7.4	6.2
AAQ-7	5.0	6.5	5.6
CPCB NAAQS 2009 for SO_2 – 80 $\mu g/m^3$			
Oxide of Nitrogen as NO_2 ($\mu g/m^3$)			
AAQ-1	10.9	14.8	12.4
AAQ-2	9.8	13.0	11.1
AAQ-3	7.7	11.7	9.4
AAQ-4	10.1	13.3	11.5
AAQ-5	7.9	11.5	9.3
AAQ-6	7.7	11.1	9.1
AAQ-7	11.1	13.4	12.3
CPCB NAAQS 2009 for NO_2 – 80 $\mu g/m^3$			

The results are summarized in graph and given as below Fig. 3.6

FIG 3.6 AMBIENT AIR QUALITY DATA AAQ1

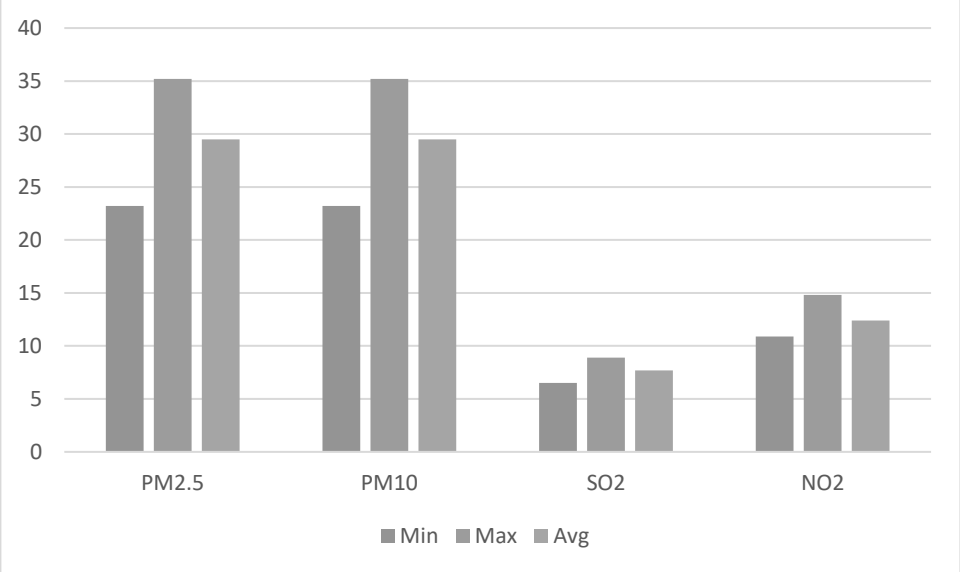


FIG 3.7 AMBIENT AIR QUALITY DATA AAQ2

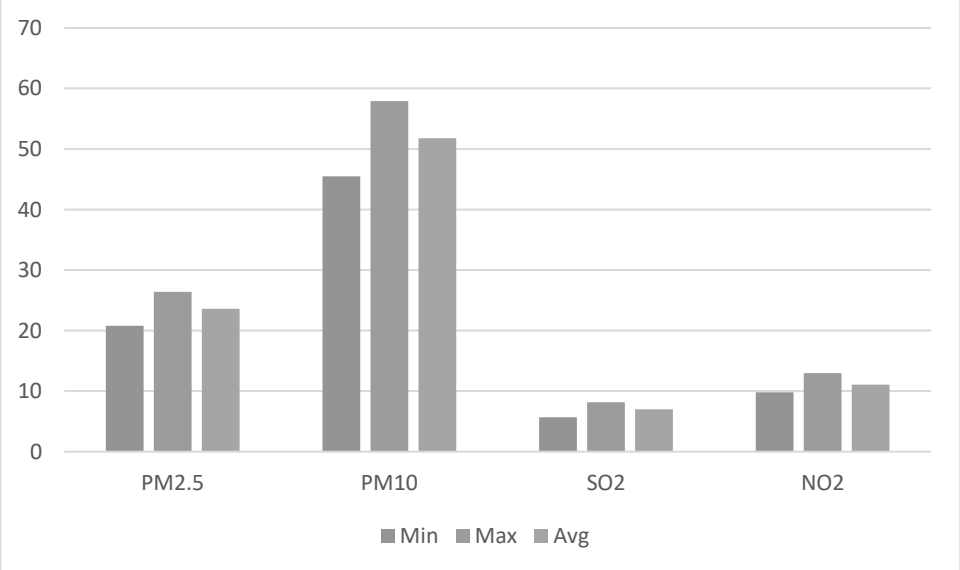


FIG 3.8 AMBIENT AIR QUALITY DATA AAQ3

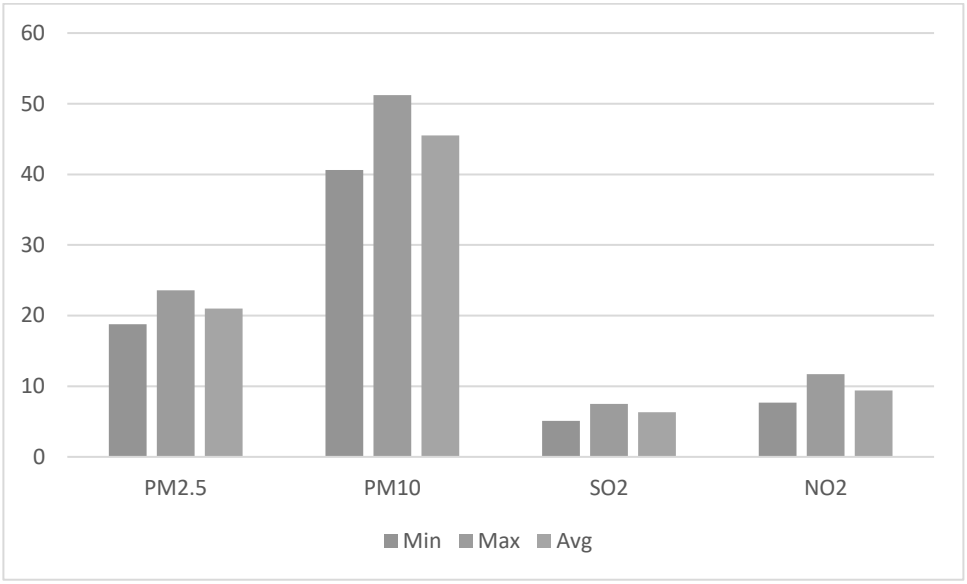


FIG 3.9 Ambient Air Quality DATA AAQ4

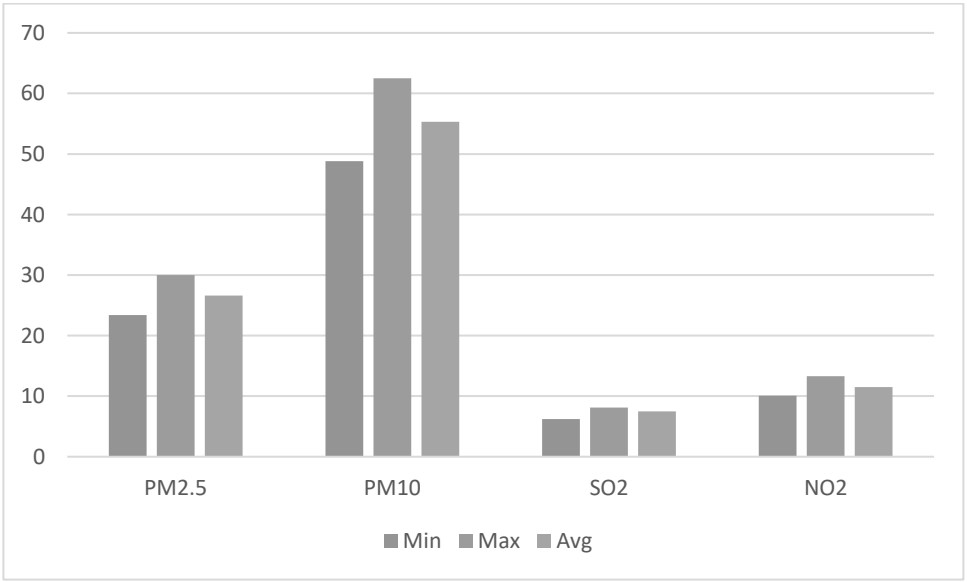


FIG 3.10 AMBIENT AIR QUALITY DATA AAQ5

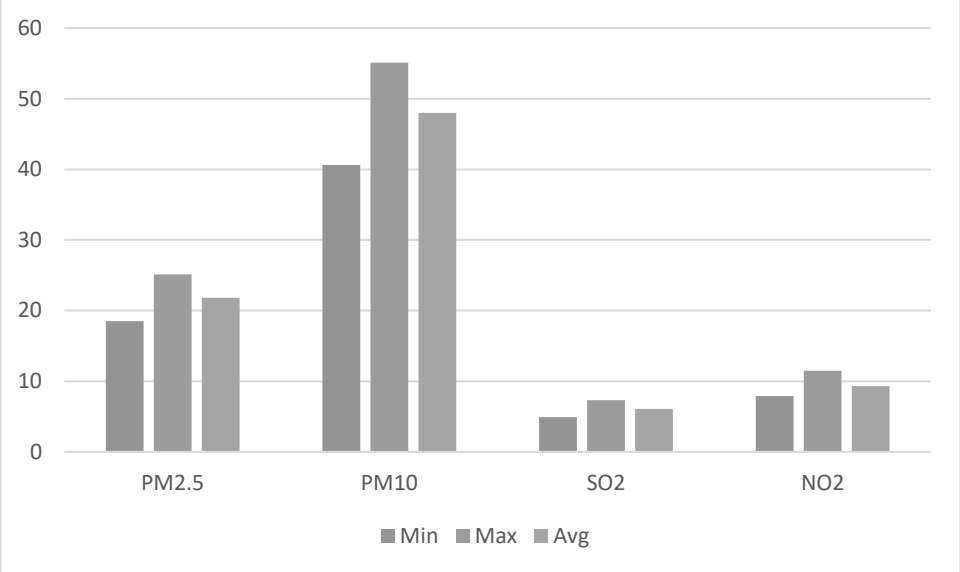


FIG 3.11 AMBIENT AIR QUALITY DATA AAQ6

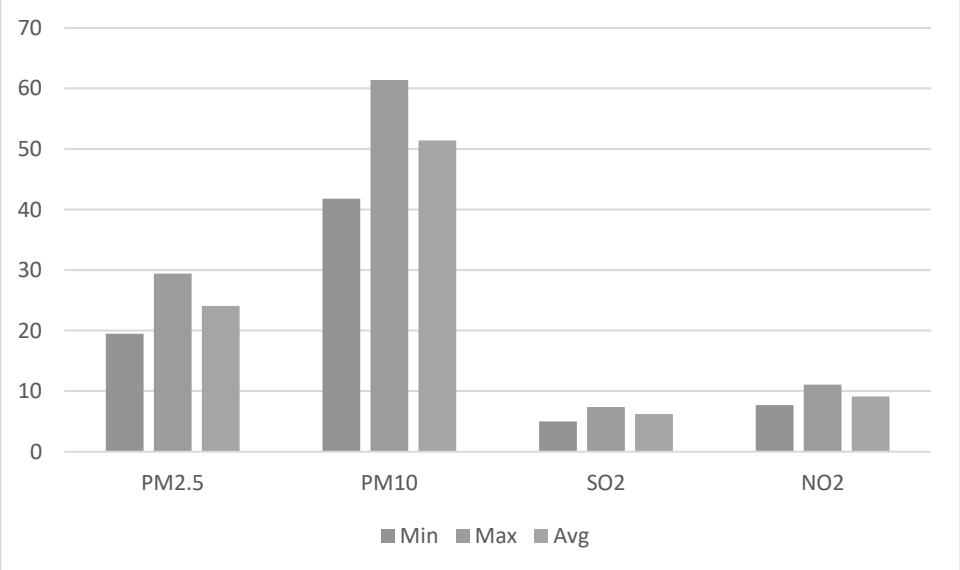
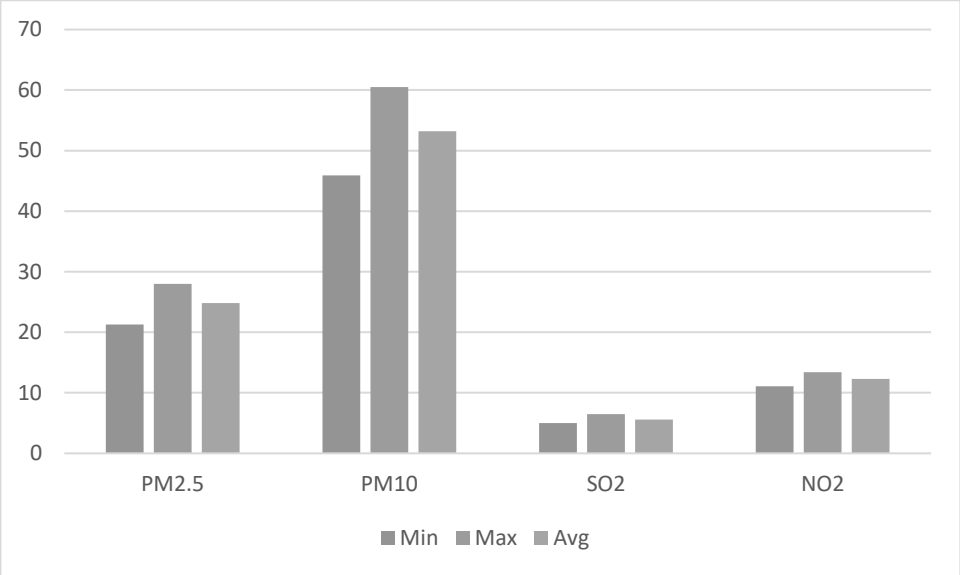


FIG 3.12 AMBIENT AIR QUALITY DATA AAQ7



From the above results, it is observed that the ambient air quality with respect to PM_{10}, $PM_{2.5}$, SO_2, and NO_2 at all the monitoring locations was within the permissible limits specified by CPCB.

3.6.1 DISCUSSION

From the table it is seen that, in the ambient air, the PM10 values were in the range of 40.6 – 73.90 µg/m3. PM2.5 values were in the range of 18.5 – 35.20 µg/m3. SO2 levels were ranging from 4.9 – 8.9 µg/m3. NO2 levels were ranging from 7.7 – 14.8 µg/m3. While comparing with the NAAQ Norms laid by MoEFCC, all monitored values of PM10, PM2.5, SO2, NO2 & CO were found to be well within the prescribed standards. The CO values in the all locations found to be below detectable limit.

3.7 WATER ENVIRONMENT

Assessment of baseline data on water environment includes:

- Identification of water resources
- Collection of water samples
- Analyzing water samples collected for physico-chemical parameters as per standards.

3.7.1 Surface Water

Water bodies in buffer zone are Odai – 360m (S), 400m (N), Tank – 380m (N), 1.56Km (W), 1.56 Km (SW), 1.36 Km (S), 1.33 km (NE), Amaravathi River – 6.9Km (NW) River – 6.6 KM (E). The area is studded with few tanks that serve as the source for agriculture and also their surplus feeds adjoining tanks. The rainfall over the area is moderate, the rainwater storage in open wells, trenches is in practice over the area and the stored water acts as source of freshwater. The prevailing status of surface water quality has been assessed during the study period. Surface water quality locations and results are provided in Table 3-14 and Figure 3.11.

3.7.2 Ground Water

The rainfall is the main source for the availability of water both in surface and sub-surface. The quantum of rainfall varies every year depending upon the monsoon. However, the extraction of surface and sub-surface water is increasing year by year. It leads to environmental impact on the water sources like depletion of water level, deterioration of water quality. It makes the demand for the quantification of available water and also its quality for various purposes like agriculture, industries, drinking and domestic purposes. Total Seven (7) ground water monitoring locations were identified for assessment in different villages around the project site based on the usage of sub surface water by the settlements/ villages in the study area. The groundwater results are compared with the acceptable and permissible water quality standards as per IS: 10500 (2012) for drinking water. Groundwater quality monitoring locations and results are given in Table 3.5 and Figure 3.11.

3.7.3 Sampling Locations

Two surface water samples and Seven (7) ground water samples were collected from the study area and were analysed for physio-chemical, heavy metals and bacteriological parameters in order to assess the effect of mining and other activities on water bodies. The samples were analysed as per the procedures specified by CPCB, IS-10500:2012. The water sampling locations are given in Table 3.5 and shown as Figure 3.12.

The monitoring locations were selected based on:

- Location of the major water bodies
- Location of project site,
- Likely areas that can represent baseline conditions

Table 3.6 Water Sampling Locations

S.NO	Location Code	Monitoring Locations	Latitude and longitude
Surface Water			
1	SW1	Amaravathi River (upstream)	10°29'27.68"N & 77°21'45.67"E
2	SW2	Amaravathi River (Downstream)	10°28'13.56"N & 77°19'35.25"E
Ground Water			
1	GW1	Within Mine Lease area	10°28'10.59"N & 77°25'29.15"E
2	GW2	Velusamudram	10°27'54.57"N & 77°23'27.73"E
3	GW3	Kasanayampatty	10°28'29.08"N & 77°26'12.31"E
4	GW4	Ayyampalayam	10°29'11.83"N & 77°23'28.15"E
5	GW5	Chinnakalayamputhur	10°28'10.70"N & 77°28'10.84"E
6	GW6	Pappampatti	10°26'41.28"N & 77°24'12.48"E
7	GW7	Neikarapatti	10°26'45.60"N & 77°27'40.93"E

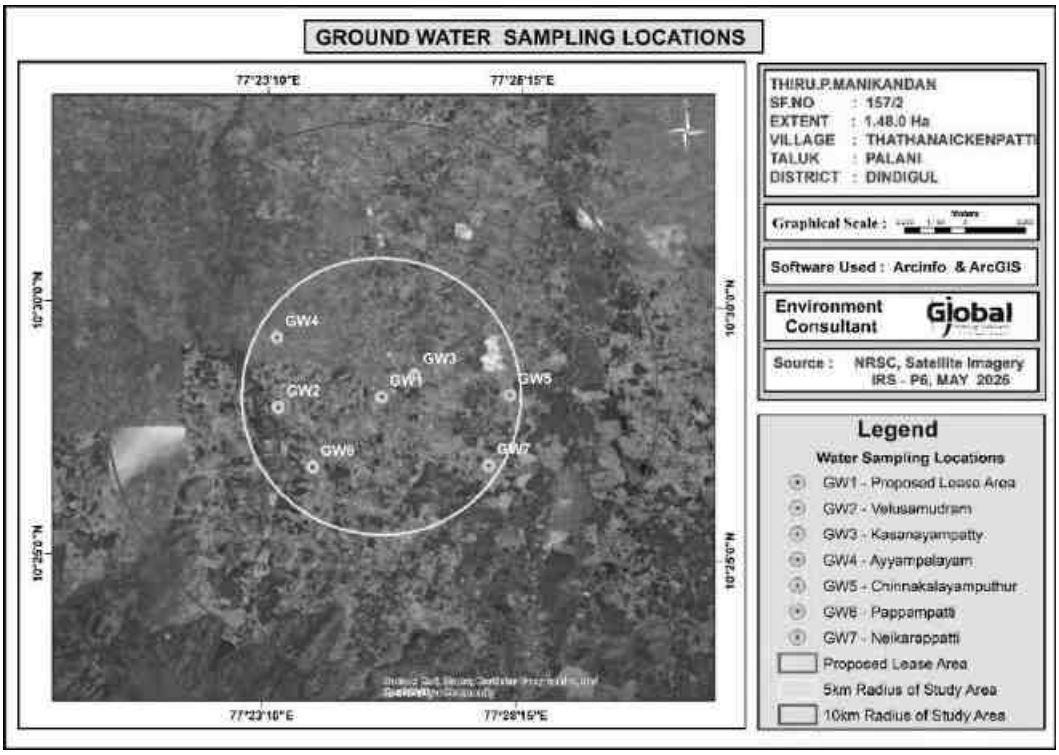


FIG 3.13 BASE MAP OF GROUND WATER SAMPLING LOCATIONS

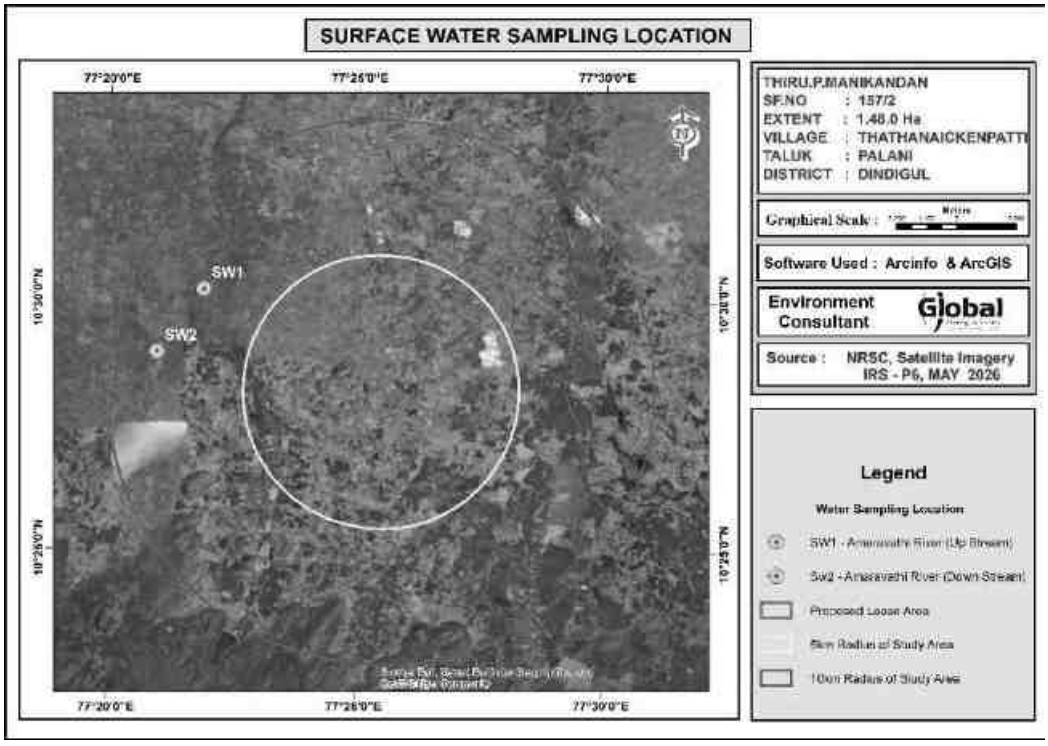


FIG 3.14 BASE MAP OF SURFACE WATER SAMPLING LOCATIONS

Table 3.7 Surface Water Analysis Results

S.No	Parameter	Unit	SW1	SW2	Surface water standards (IS 2296 Class-A)
1	Odour	-	AGREEABLE	AGREEABLE	-
2	Turbidity	NTU	143.48	80.18	1
3	pH at 25 ˚C	-	7.56	7.69	6.5-8.5
4	Electrical Conductivity	µs/cm	372.5	280.6	-
5	Total Dissolved Solids	mg/l	224	168	500
6	Total hardness as CaCO3	mg/l	73.2	98.7	300
7	Calcium as Ca	mg/l	15.4	28.2	-
8	Magnesium as Mg	mg/l	8.41	6.85	-
9	Calcium as CaCO3	mg/l	38.6	70.5	200
10	Magnesium as CaCO3	mg/l	34.6	28.2	200
11	Total alkalinity as CaCO3	mg/l	104.0	64.9	-
12	Chloride as Cl-	mg/l	71.5	40.6	250
13	Free Residual chlorine as Cl-	mg/l	BDL (D.L - 0.2)	BDL (D.L - 0.2)	-
14	Sulphates as SO42-	mg/l	40.5	43.2	400
15	Iron as Fe	mg/l	0.62	0.44	0.3
16	Nitrate as NO3	mg/l	1.44	1.58	20
17	Fluoride as F	mg/l	0.38	0.33	1.5
18	Manganese as Mn	mg/l	BDL (D.L - 0.05)	BDL (D.L - 0.05)	0.5
19	COD	mg/l	38.9	41.5	
20	BOD	mg/l	7.6	8.6	2
21	DO	mg/l	6.2	6.4	6
22	TSS	mg/l	26	18	

The samples were analyzed by Shrient Analytical & Research Labs Private Limited; Chennai and the results are summarized below.

Table 3.8 Results of Ground Water sampling Analysis in 7 locations								Standards as Per IS 10500: 2012	
Parameter	**W1**	**W2**	**W3**	**W4**	**W5**	**W6**	**W7**	**Acceptable Limits**	**Permissible Limits**
Odour	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	Agreeable	Agreeable
Turbidity	<1	<1	<1	<1	<1	<1	<1	1	5
pH at 25 ˚C	7.99	7.84	7.56	7.24	7.16	7.71	7.32	6.5- 8.5	No Relaxation
Electrical Conductivity	256.8	1079.0	1336.7	1316.6	1451.7	1072.9	1322.6	-	-
Total Dissolved Solids	154	650	802	790	872	644	794	500	2000
Total hardness as CaCO3	66.5	290	292	347	466	289	352	200	600
Calcium as Ca	18.9	78.4	45.7	79.8	103.4	78.9	78.4	75	200
Magnesium as Mg	4.67	22.84	43.25	35.97	50.45	22.30	37.91	30.0	100
Calcium as CaCO3	47.3	196	114	199	258	197	196	-	-
Magnesium as CaCO3	19.2	94.0	178.0	148	208	91.8	156	-	-
Total alkalinity as CaCO3	86.5	254	294	276	200	260	280	200	600
Chloride as Cl-	48.9	266	243	227	283	264	226	250	1000
Free Residual chlorine as Cl-	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	0.2	1
Sulphates as SO42-	13.20	120	230	164	208	117	166	200	400
Iron as Fe	0.06	0.05	0.06	0.14	0.13	0.05	0.15	0.3	No Relaxation
Nitrate as NO3	1.58	2.05	2.83	2.68	5.77	1.39	2.76	45	No Relaxation
Fluoride as F	0.22	0.34	0.59	0.38	0.65	0.38	0.42	1	1.5
Manganese as Mn	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	0.1	0.3

Some of the common parameters including EC, TDS, Total Hardness, Total Alkalinity, Chlorides and Sulphates in the 6 locations were plotted and the graph is provided below.

FIG 3.15 VALUES OF FEW COMMON PARAMETERS IN GROUND WATER ANALYSIS

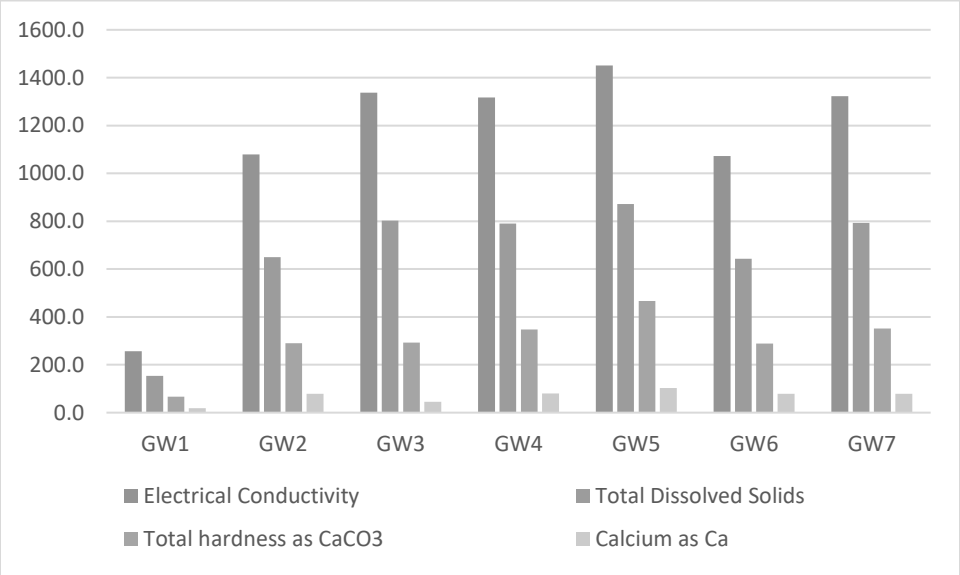
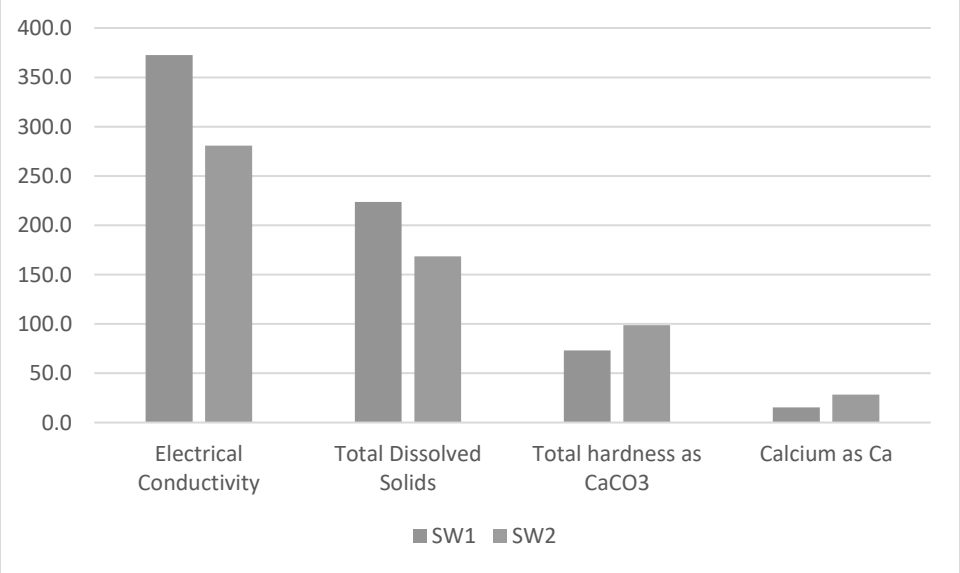


FIG 3.16 VALUES OF FEW COMMON PARAMETERS IN SURFACE WATER ANALYSIS



All the values were found to be within the permissible limits.

3.7.4 DISCUSSION

Surface Water

The pH varied from 7.56 to 7.69 while turbidity found within the standards (Optimal pH range for sustainable aquatic life is 6.5 to 8.5 pH). Total Dissolved Solids varied from 168 to 224 mg/l. Chloride varied between 40.6 mg/l and 71.5 mg/l. Nitrates varied from 1.44 to 1.58 mg/l, while sulphates varied from 40.5 to 43.2 mg/l.

Ground Water

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

As Per the data it has been observed that the pH value varies from 7.16 to 7.99, Chlorides Ranges From 48.9 – 282.84 mg/l, Sulphates value found to be between 13.2 – 230 mg/l, Fluoride Ranges low in lease area i.e. 0.22 – 0.65, Hardness varies from 66.5 – 466.0 mg/l, and Total dissolved solid 154.08 – 872 mg/l. The ground water has been analyzed as per IS10500: 2012 and found to be suitable for drinking purpose. So, the results of chemical and bacteriological analysis of water samples are classified under good class for drinking purpose with respect to total dissolved solids. Total hardness of the samples ranged from soft to moderately hard waters and can be fairly used for drinking. Regular ground water monitoring is suggested as the quality of ground water may fluctuate with groundwater consumption and seasonal variations.

3.8 NOISE MONITORING

Noise level monitoring was calculated using a noise level meter by NABL Accredited lab and the results are summarized below.

The noise monitoring locations are given in Fig 3.14.

S.NO	Location Code	Monitoring Locations	Latitude and longitude
1	N1	Within Mine Lease area	10°28'10.59"N & 77°25'29.15"E
2	N2	Velusamudram	10°27'54.57"N & 77°23'27.73"E
3	N3	Kasanayampatty	10°28'29.08"N & 77°26'12.31"E
4	N4	Ayyampalayam	10°29'11.83"N & 77°23'28.15"E
5	N5	Chinnakalayamputhur	10°28'10.70"N & 77°28'10.84"E
6	N6	Pappampatti	10°26'41.28"N & 77°24'12.48"E
7	N7	Neikarapatti	10°26'45.60"N & 77°27'40.93"E

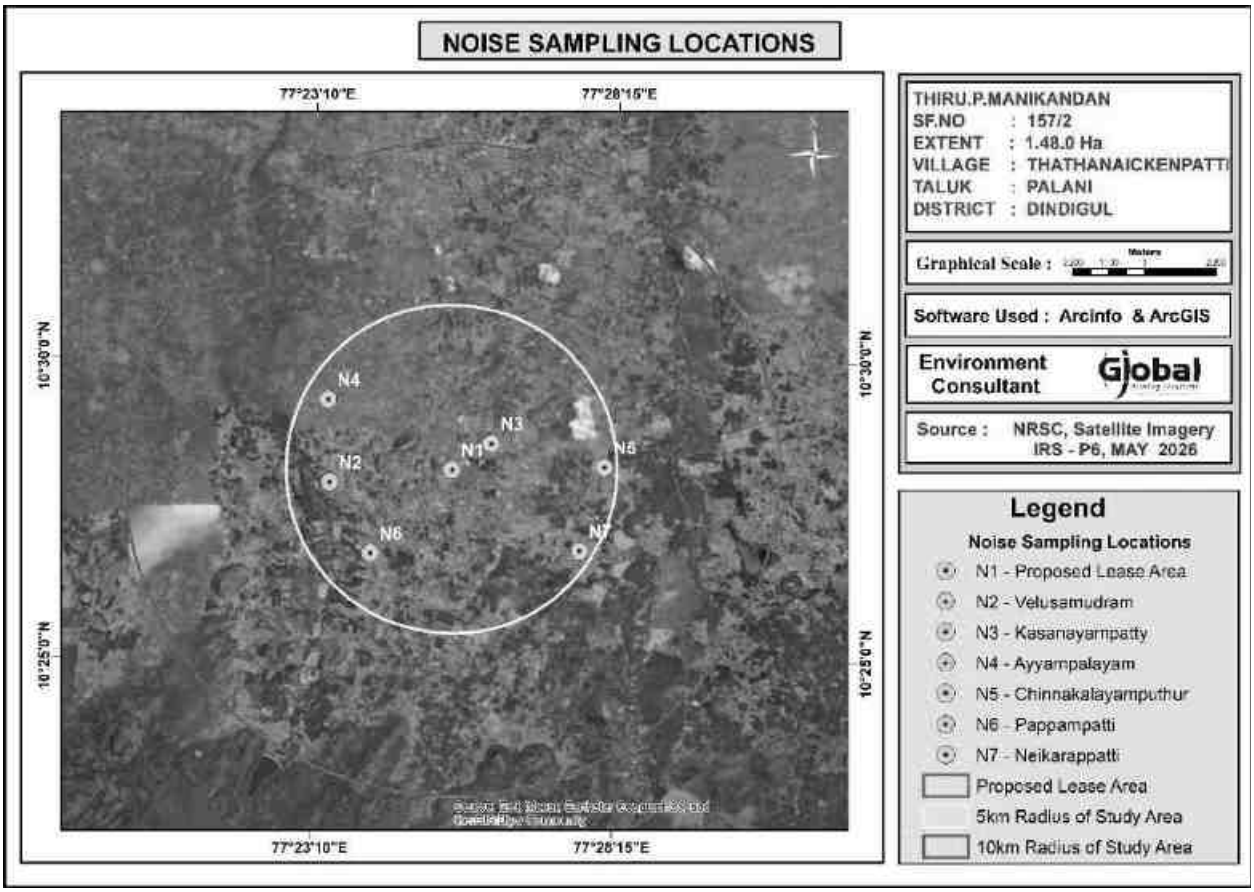


FIG 3.17 BASE MAP OF NOISE MONITORING LOCATIONS

3.8.1 METHOD OF MONITORING

Noise levels were measured using sound level meter manufactured by (Model No - SL4001, Make - Lutron). Sound Pressure Level (SPL) measurements were measured at all locations where ambient air quality monitored; one reading for every hour was taken for 24 hours.

3.8.2 NOISE MONITORING RESULT

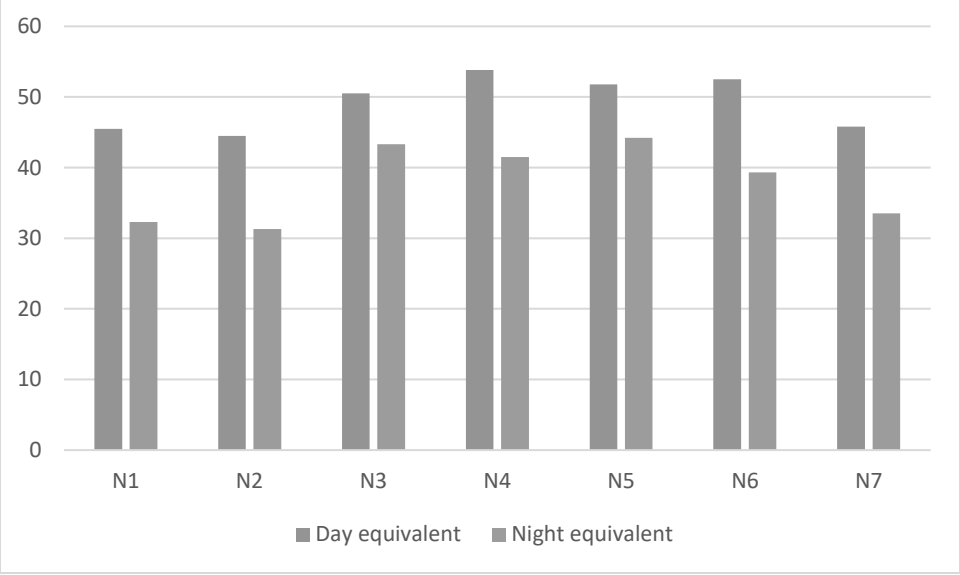
An analysis of the different Leq data obtained during the study period has been made. Variation was noted during the day-time as well as night-time. The results are given in Table below.

Table 3.9 Noise monitoring results

S. No	Location	Day equivalent	Night equivalent	Day equivalent limits by CPCB	Night equivalent limits by CPCB
1	Within Mine Lease area	45.5	32.3	55	45
2	Velusamudram	44.5	31.3		
3	Kasanayampatty	50.5	43.3		
4	Ayyampalayam	53.8	41.5		
5	Chinnakalayamputhur	51.8	44.2		
6	Pappampatti	52.5	39.3		
7	Neikarapatti	45.8	33.5		

The results are plotted as below.

FIG 3.18 DAY AND NIGHT EQUIVALENT VALUES IN 7 LOCATIONS



All the values are found to be within CPCB norms.

3.8.3 DISCUSSION

From the table it is observed that the day Equivalent Noise (Leq-d) level was ranging from 44.5 to 53.8 dB(A) and Night Equivalent Noise (Leq-n) level were ranging from 31.3 to 44.2 dB(A). Day and Night Equivalent Noise (Leq-n) level were ranging from 43.8 to 52.1 dB(A). While comparing with the MoEFCC Norm of 55 dB(A) for day time and 45 dB(A) for night time in Residential areas, the monitored ambient noise levels are within the limit values.

After commencement of mine operation the anticipated noise level will be 32.3 dB – 45.5 dB in the N1 location (Project Site). It is very negligible and within the prescribed standards of MoEFCC and DGMS.

3.9 SOIL SAMPLING ANALYSIS

Soil quality of the study area is one of the important components of the land environment. The composite soil samples were collected from the study area and analyzed for different parameters. The locations of the monitoring sites are detailed in Table 3.12 and Figure 3.14.

3.9.1 MONITORING LOCATIONS

Soil samples have been collected from the mine lease area and 6 other locations. The locations are shown in figure below.

S.No	Location Code	Monitoring Locations	Latitude and longitude
1	S1	Within Mine Lease area	10°28'10.59"N & 77°25'29.15"E
2	S2	Velusamudram	10°27'54.57"N & 77°23'27.73"E
3	S3	Kasanayampatty	10°28'29.08"N & 77°26'12.31"E
4	S4	Ayyampalayam	10°29'11.83"N & 77°23'28.15"E
5	S5	Chinnakalayamputhur	10°28'10.70"N & 77°28'10.84"E
6	S6	Pappampatti	10°26'41.28"N & 77°24'12.48"E
7	S7	Neikarapatti	10°26'45.60"N & 77°27'40.93"E

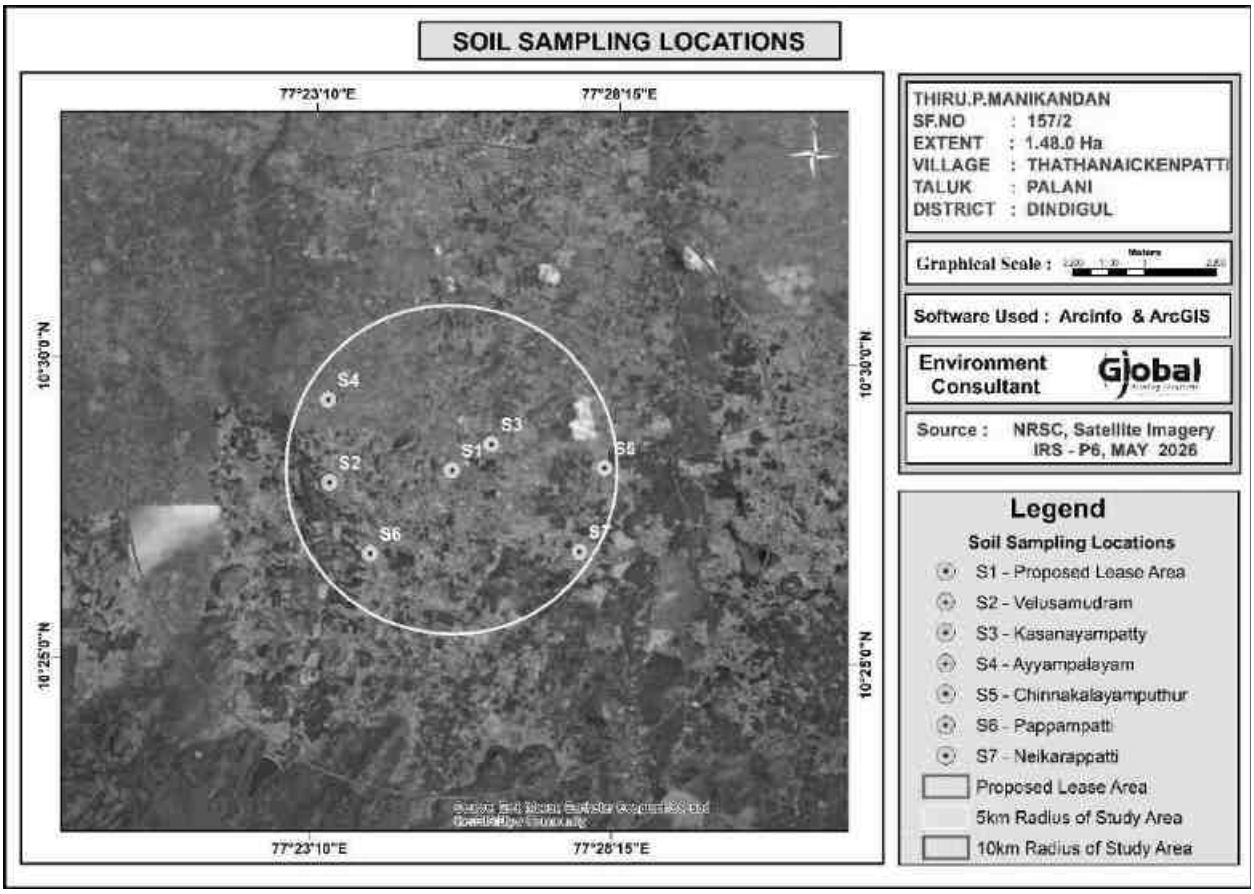


FIG 3.19 BASE MAP OF SOIL SAMPLING LOCATIONS

3.9.2 METHODOLOGY

For studying soil quality, sampling locations were selected to assess the existing soil conditions in and around the project site representing various land use conditions. The samples were collected by auger boring into the soil up to 90-cm depth. Seven locations were selected for soil sampling on the basis of soil types, vegetative cover, industrial & residential activities including infrastructure facilities, which would accord an overall idea of the soil characteristics.

Composite grab samples of the topsoil were collected by specified depth, and mixed to provide a representative sample for analysis. They were stored in airtight Polythene bags and analyzed at the laboratory.

The results are summarized in the table below.

Table 3.10 RESULTS OF SOIL SAMPLE ANALYSIS

S.No	Parameter	Unit	S1	S2	S3	S4	S5	S6	S7
1	pH at 25 °C	-	7.12	6.58	7.14	7.96	7.07	6.48	7.94
2	Electrical Conductivity	µmhos/cm	95.8	122	186	184	199	146	182
3	Dry matter content	%	97.25	98.24	96.97	97.36	97.44	97.44	96.24
4	Water Content	%	2.56	1.76	3.03	2.64	4.93	2.54	2.64
5	Organic Matter	%	1.54	1.26	2.16	2.91	1.32	1.22	2.15
6	Soil texture	-	SILTY CLAY	CLAY	CLAY	SILTY CLAY	SILTY CLAY	CLAY	SILTY CLAY
7	Grain Size Distribution	%	2.69	5.52	8.19	7.88	6.26	5.46	7.98
	i. Sand	-	SILT LOAM	silty clay	silty clay loam	silt loam	silty clay loam	silt loam	loam
8	ii. Silt	%	53.65	16.21	30.24	54.22	48.93	15.90	55.60
9	iii. Clay	%	43.66	78.27	61.58	37.90	44.81	78.64	36.42
10	Phosphorous as P	mg/kg	1.45	0.86	2.06	1.36	1.96	0.86	1.42
11	Sodium as Na	mg/kg	690	512	590	960	667	504	952
12	Potassium as K	mg/kg	432	245	361	569	314	238	576
13	Nitrogen and Nitregenous Compounds	mg/kg	342	136	199	258	233	131	264
14	Total Soluble Sulphate	%	BDL	BDL	BDL	BDL	BDL	BDL	BDL
15	Porosity	%	30.6	46.2	35.1	35.1	46.2	45.3	35.8
16	Water Holding Cabacity	Inches/foot	44.0	41.3	41.1	46.4	42.2	42.2	47.1

3.9.3 DISCUSSION

Results of the soil samples show that the pH values were found to be 6.48 to 7.96 and Electrical Conductivity values were ranging between 95.80 – 199.0 µmhos/cm. Soils are generally Silty Clay. Organic matter values were ranging between 1.22 – 2.91 %. Total Nitrogen values were ranging between 131 – 342.0 mg/kg. Phosphorus values were ranging between 0.86 – 2.06 µg/g. Potassium values were ranging between 238.43 – 576.0 mg/kg. Sodium values were ranging between 504.29 – 960.05 mg/kg.

Total Sulphur values were observed to be BDL. The soil quality data for the 7 samples collected and analyzed are provided in Table no – 3.13.

3.10 BIOLOGICAL ENVIRONMENT

Study of the biological environment of any area comprises of well-planned ecological survey for the floristic and faunal composition of the areas through various scientifically planned techniques. Accordingly, the ecological survey for the proposed Rough stone and Gravel quarry area including core and buffer zone were carried out to identify various species occurring in the area.

3.10.1 FLORA

An ecological survey of the study area was conducted with reference to listing of species and assessment of the existing baseline ecological (Terrestrial Ecosystems) conditions. The objective of the survey is as follows:

- Generate existing data from field observations of various terrestrial floristic occurrences.
- Collect secondary data from Government records as well as through discussion with Forest officials, knowledgeable public etc.,
- Compare the data with authentic past records to identify changes, if any.
- Identify the impact of project operations on the biological aspects.

To accomplish the above objectives, a general ecological survey covering an area of 10 km radius was conducted. The locations were identified for phyto-sociological aspects to assess the current status.

3.10.1.1 FLORISTIC COMPOSITION IN CORE ZONE

The lease area is a non- forest, Patta land with scrub and thorny bushes. In the core zone, there are no trees.

S.No	Local Name	Scientific Name	Family Name	IUCN Conservation Status
Shrubs				
1	Erukku	*Calotropis Gigantea*	Apocynaceae	Not Listed
2	Chundai	*Solanum torvum*	Solanaceae	Not Listed
3	Thuthi	*Abutilon Indicum*	Meliaceae	Not Listed
4	Unnichedi	*Lantana camara*	Verbenaceae	Not Listed
Herbs				
1	Kuppaimeni	*Acalypha indica*	Euphorbiaceae	Not Listed
2	Nelavembu	*Andrographis paniculata*	Acanthaceae	Not Listed
3	Kovakkai	*Trichosanthes Dioica*	Cucurbitaceae	Not Listed
4	Perandai	*Cissus Quadrangularis*	Vitaceae	Not Listed
5	Thumbai	*Leucas Aspera*	Lamiaceae	Not Listed

3.10.1.2 FLORISTIC SCENARIO IN BUFFER ZONE AREA

The present report gives the review of published secondary data and the results of field sampling conducted during March 2026 to May 2026 and there are no forest blocks within 1 km radius of the project site. The detailed ecological assessment of the study area has been carried out and are presented in below Table.

3.10.2 List of Flora

Taxonomically a total of 61 species distributed among 37 families have been recorded from the buffer area. Based on habitat classification of the enumerated plants the majority of species were Trees 27 and herbs 13 followed by Shrubs (12), climbers 6. Details of flora with the scientific name were mentioned in Table No. 3.11.

Table 3.11 List of Flora

S.No	Local Name	Scientific Name	Family Name
	Trees		
1	Lemon	*Citrus limon*	Rutaceae
2	Krishna Fig	*Ficus benghalensis*	Moraceae
3	Karuvelam	*Acacia nilotica*	Fabaceae
4	chokla	*Agalaia elaeagnoidea*	Meliaceae

5	Vagai	*Albizia lebbeck*	Caesalpiniaceae
6	Seetha maram	*Annona Squamosa*	Annonaceae
7	kattu elumichai	*Atalantia monophyla*	Rutaceae
8	Vaeppa maram	*Azadirachta indica*	Meliaceae
9	vazhai	*Musa paradisiaca*	Musaceae
10	Guava	*Psidium gujava*	Myrtaceae
11	Karuvali	*Cassine glauca*	Celastraceae
12	Naruvizhi maram	*Cordia monoica*	Boraginaceae
13	Kattunochchi	*Debregaesia velutina*	Urticaceae
14	Neruppu Kondrai	*Delonix regia*	Minosaceae
15	Nagai	*Syzygium cumini*	Myrtaceae
16	mull kalyanamurungai	*Erythrina stricta*	Fabaceae
17	Kallichi	*Ficus microcarpa*	Moraceae
18	atti	*Ficus racemosa*	Moraceae
19	Kattarasu	*Ficus tomentosa*	Moraceae
20	Kambimaram	*Gardenia resinifera*	Rubiaceae
21	Kumalaa maram	*Gmelina arborea*	Verbenaceae
22	Tambachi	*Holoptelea integrifolia*	Ulmaceae
23	Kunnancholai	*Mallotus Philippensis*	Euphorbiaceae
24	Peyimurungai	*Moringa concanensis*	Moringaceae
25	Malaithekku	*Premna tomentosa*	Verbenaceae
26	Peymiratti	*Schefflera stellata*	Araliaceae
27	Thaan-dri kaai	*Terminalia bellirica*	*Bahera*
	Shrubs		
1	Seethaatthazhai	*Acalypha fruiticosa*	Euphorbiaceae
2	peyimarutti	*Anisomeles malabarica*	Lamiaceae
3	Barleria paniculata	*Barleria tomentosa*	Acanthaceae
4	Turatti	*Capparis divaricate*	Capparidaceae
5	Sirukilaa	*Carissa spinarum*	Apocynaceae
6	Kodikalai	*Carmona retusa*	Boraginaceae

7	Virali	*Dodonaea viscosa*	Sapindaceae
8	Manjal Thutthi	*Hibiscus vitifolia*	Malvaceae
9	Karuppu avuri	*Indigofera longiracemosa*	Fabaceae
10	Velimungil	*Justicia betonica*	Acanthaceae
11	Sirunelli	*Phyllanthus polyphyllus*	Euphorbiaceae
12	Ottu Pullu	*Triumfetta pentandra*	Tiliaceae
	Herbes		
1	Kuppaimeni	*Acalypha indica*	Euphorbiaceae
2	perumpeelai	*Aerva persica*	Amaranthaceae
3	Katthaalai	*Aloe vera*	Agavaceae
4	Nilaccurunki	*Biophytum sensitivum*	Oxalidaceae
5	Nattai-churi	*Borreria pusilla*	Rubiaceae
6	Malaiyavarai	*Cassia hirsute*	Caesalpiniaceae
7	Cuvarnaciri Taivelai	*Cleome felina*	Caryophyllaceae
8	korai kizhangu	*Cyperus rotundus*	Cyperaceae
9	Karungurundhu	*Dicliptera cuneata*	Acanthaceae
10	Chinnammanpacharisi	*Euphorbia thymifolia*	Euphorbiaceae
11	Narina	*Indigofera cassioides*	Fabaceae
12	Nai Tulasi	*Ocimum canum*	Lamiaceae
13	Water peper	*Polygonum hydropiper*	Polygonaceae
	Climbers		
1	Mudakathan	*Cardiospermum halicacabum*	Sapin
2	Kattuppirantai	*Cayratia trifoliata*	Vitaceae
3	Pirantai	*Cissus bicolr*	Vitaceae
4	Kovai	*Coccinia indica*	Cucurbitaceae
5	Iviralkovai	*Diplocyclos palmatus*	Cucurbitaceae
6	Adambu	*Ipomoea pescarpae*	Convolvulaceae
	Grasses		
1	bread grass	*Brachiaria remota*	Poaceae
2	feather fingergrass	*Chloris dolichostachya*	Poaceae

3	spear grass	*Heteropogon contortus*	Poaceae

3.10.3 LIST OF FAUNA

A total of 28 species belonging were recorded in the buffer zone. Based on habitat classification the majority of species were 10 Aves, followed by 6 Reptiles, 7 Mammals and 5 Fishes. The list of fauna within the study area is given in Table No – 3.12.

Table 3.12 List of Fauna

S.No	Common name	Scientific name	Family	IUCN / WPA schedule
MAMMALS				
1	Indian Palm squirrel	Funambulus palmarum	Squirrel	IV
2	Hare	Lepus nigricollis	Leporids	IV
3	House rat	Rattus rattus	Murids	IV
4	Mannuli paambu	Eryxjohni	Boidae	-
5	Indian Grey Mongoose	Herpestes edwardsii	Mongoose	IV
6	Field mouse	Rattus norvegicus	Murids	IV
7	Rusty spotted Cat	Felis rubiginosa	Felidae	IV
REPTILES				
1	Common Garden lizard	Calotes versicolor	Agamid lizards	IV
2	Rough tailed Sand boa	Gongylophis conicus	Boidae	IV
3	Indian Cobra	Naja naja	elapid snakes	II
4	Indian mud turtle	Lissemys punctate	Softshell turtles	IV
5	Common Green Snake	Passerita mycterizaris	Colubrid Snakes	IV
6	Common rat snake	Ptyas mucosus	Colubrid Snakes	II
BIRDS				
1	Grey Partridge	Francolinus pondicerianus	Phasianidae	IV

2	Indian Ring Dove	Streptopelia decaocto	Pigeons and doves	IV
3	Red collared dove	Streptopelia tranquebarica	Pigeons and doves	IV
4	Astur badius	Shikra	Accipitridae	IV
5	Black Drongo	Dicrurus macrocerus	Drongos	IV
6	House Sparrow	Passer domesticus	Sparrow	IV
7	Weaver bird	Ploceus Philippines	Ploceidae	IV
8	Rose Ringed Parakeet	Psittacula krameria	Parrots	IV
9	Little egret	Egretta garzetta	Heron	IV
10	Redvented BulBul	Pycnonotus cafer	Bulbul	IV
FISH				
1	Common carp	Cyprirus earpio	Minnows and Carps	IV
2	Tilapia	Oreochromis mossambicus	Cichlid	IV
3	Carplet	Amblypharyngodon Sp	Cyprinidae	IV
4	Trout	Chela sp	-	IV
5	Punctatus	Ophiocephalus	Snakehead	IV

The core zone of the area is Consent Patta land, no forest land is involved in the project area. The proposed quarry area is covered by thorny bushes. There is no Wild Life Sanctuary or National Park within the study area of 10km. There is no schedule I species of animals observed within study area as per Wildlife Protection Act 1972 as well as no species is in vulnerable, endangered or threatened category as per IUCN. There is no endangered red list species found in the study area. Hence this small mining operation over short period of time will not have any significant impact on the surrounding flora and fauna.

3.11 LAND USE

3.11.1 Remote Sensing Satellite Data Used for the Study

For Land-use and land cover study, sensing satellite data of Geo EYE has been used as per Figure No. 1. A land use map showing 10 Km radial distance. The geographical coordinates of the project are northern latitude of 10°28'08.96"N to 10°28'12.45"N and eastern longitude of 77°25'26.50"E to 77°25'32.65"E.

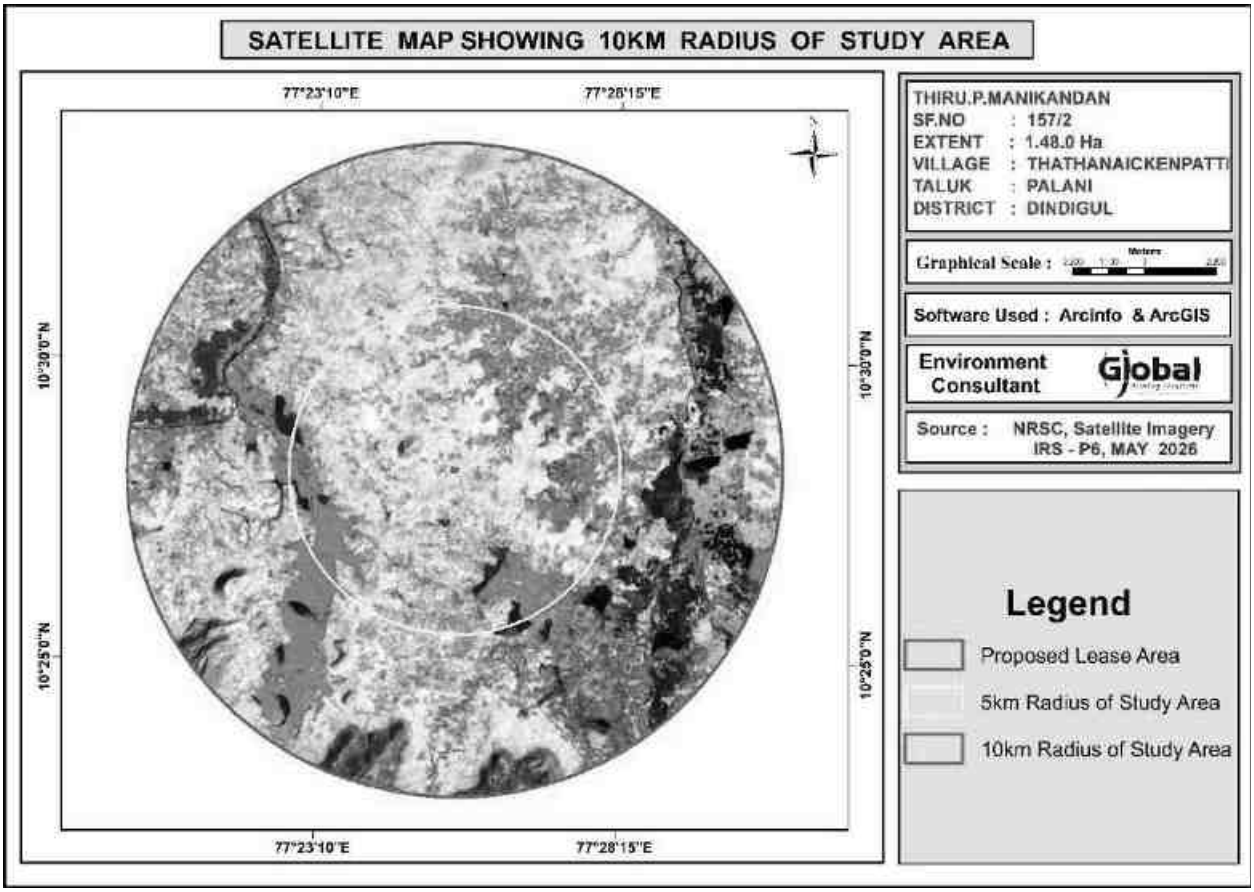


FIG 3.20 REMOTE SENSING SATELLITE IMAGE

Selection of remote sensing satellite image (RSI) is on the availability of cloud free data and interpretability of predominant landuse and land cover (LULC) category. The examination of satellite data showed that the region is always covered by clouds with lesser percentage during summer due to cluster habitation. But rained crops are cultivated during southwest monsoon and hence a data acquired during first onset of

precipitation is preferred so as to delineate crop and fallow land parcels of agricultural category. Delineation of scrub land is also possible since land with scrub could be easily distinguished from crop vegetation and separated. This may be an arduous task during monsoon since the entire area would be witnessed with sudden sprout of lush natural vegetation, mostly *prosopis*, with first onset of precipitation.

3.11.2 Methodology Adopted for the Land Use Study

Present study involves micro level analysis of landuse pattern showing 10 km radius and changes in landuse pattern using satellite data. This necessitates a careful analysis of satellite data adopting a well-defined methodology.

To cater the requirement, a preliminary assessment of terrain using digital analysis helping to infer relationship between terrain and landuse has been carried out. Such an approach provides lucid understanding of landuse units and enhances the knowledge on the landuse pattern assisting in impact assessment.

The knowledge base thus generated is used to delineate various landuse units while carrying out interpretation of the satellite image. The derived landuse information is transformed into a GIS based spatial database using geo-referencing techniques. Besides, a limited but well focused field investigation also carried out and coordinates of significant landuse units using handheld GPS (Global Positioning System) are gathered to be used as control points for geo-referencing. Interpreted landuse units are verified in the field to carryout necessary corrections wherever is required before preparing final landuse map.

Using the image elements such as color, tone, texture, size, shape and associated elements various landuse units are delineated following the categorization and nomenclature adopted for the national level landuse classification system as recommended by National Remote Sensing Centre (NRSC), Department of Space, Government of India. Some of the landuse units that are identified in the study area are listed in Table No. 3.13 given below.

3.11.3 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.

Table No.3.13 Major Land use Units of the Study Area

Sr.No	1st level classification	2nd level classification
1	Built-Up Or Habitation	Residential
		Commercial / Industrial
2	Agriculture	Crop / Fallow Land
		Plantation
3	Water Bodies	Reservoir / Lake / Pond
		River
4	Vegetation Cover	Scrub
		Open Vegetation
		Close Vegetation
		Mangroves
5	Waste Land	Open Without Scrub
		Open With Scrub
6	Others	Mudflow
		Salt Pan
		Brick Manufacturing

3.11.4 Land Use Pattern of 10 km Radial Buffer Area of Project Site

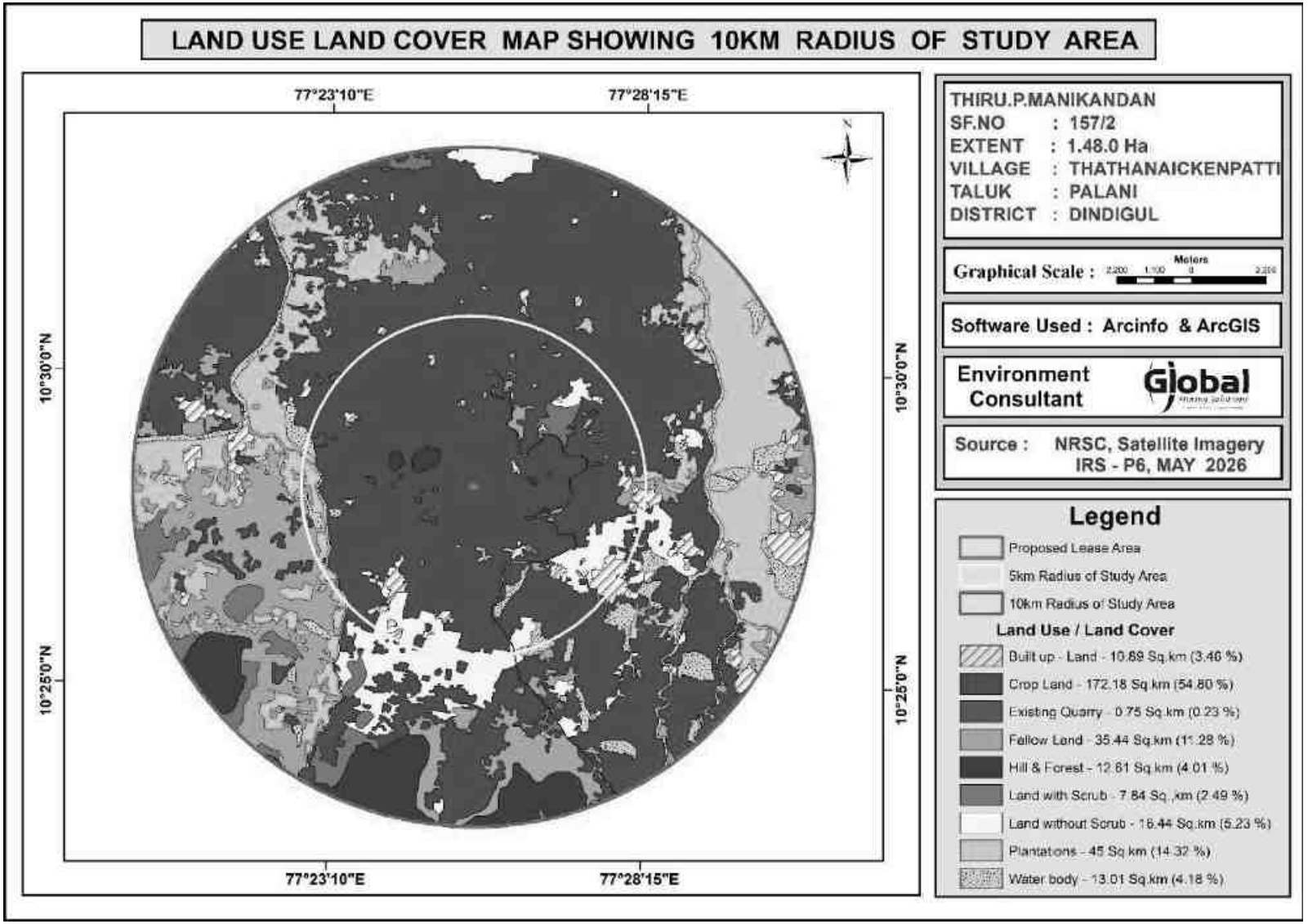
The existing land use pattern and land cover distribution of the whole acquired block, have been studied from the satellite imagery and subsequent ground checking during the field surveys.

It mainly comprises of agricultural land with bi-annual crops of Kharif (Kharif: Jowar,

Bajra, Cotton, etc. Season: July to October) and Rabi (Rabi: Wheat, Rai etc. Season: December to March). The presence of the agricultural land is followed by few dense settlements Athipalayam village, natural or man-made pond etc. The shortage of rainfall, availability of ground water at deeper level and other climatic condition do not support good agricultural productivity inspite of having enough land. There is no demarcated forest land within the study area, however, some scattered forest is found throughout the 10 km radius, especially along the periphery of the villages.

The general land use pattern of the core and buffer may be broadly classified into four major types – Buildup or habitation, Agriculture, Water Bodies, Waste land and other categories. Under buildup or habitation category covered villages, town and infrastructure. Under agriculture category considered crop land/fallow land and plantation. Under the water body categories Reservoir/ lake, pond, River and stream. Under wasteland category considered land with scrub and land without scrub is interpreted. Lastly other category's covered Mines area and forest are interpreted under this category. These categories are delineated from the selected satellite image using image elements such as color, tone, texture, size, shape and associated elements. The delineated land use units are transformed into a spatial database in GIS environment. Estimated for area and representation of each category in the study area. The total area of LULC in the study area is calculated as 314.16 sq.km and spatial distribution of various LULC categories within buffer area are discussed below. The 5km and 10km radius land use map is shown above. The details are given below.

FIG 3.21 LAND USE/LAND COVER MAP OF THE STUDY AREA



Land Use / Land Cover Classification classified into first level classification and second level classification and major land use/land cover classes were demarcated in the study area following Level II classification. A thematic map of 1:50,000 scale was generated incorporating these classified categories considering the area of the project.

Built-up / Settlements

Settlements in the study area are generally small to medium size in stature and area scattered. Palani Taluk is the relatively larger settlements observed at the north part of the study area.

Interpretation of settlement from the satellite image is based upon the image elements such as color, tone, texture and association. It is delineated by their typical red color. Association with linear features such as roads reaffirmed the presence of delineation of settlements. The spatial extent of settlement is estimated as 10.89 sq.km representing 4.51 % of the study area.

Agricultural Land

Under the broad category of agriculture crop land, fallow land and plantation is delineated. Cultivation is mostly dependent upon river water for irrigational activities are good. River, Ponds and tanks in each village act as rainwater storage units and do support domestic requirement and even cultivation to some extent. Because of these conditions, minimal water requiring crops such as corn, sunflower, oil seeds, grams, millets and coriander are cultivated. Cultivation is the most predominant crop cultivated and even if it failed their stalks are used as fodder for cattle.

Crop and Fallow land are interpreted using their image elements such as light to green, smooth to medium tone, they are the second most predominant landuse category delineated in the buffer area. As explained earlier, cultivation mostly depends upon river, canal and rainfall and majority of the land parcels are tilled and ready for cultivation with even a scanty Canal. Hence, cropland is the predominant category estimated at 172.18 Sq.km representing 71.18 % of the buffer area.

Wasteland

The last category of the landuse units in the study area is "Wasteland" which denotes land parcels that could not be utilized for cultivation even after conservation measures – such as land with scrub, land without scrub area.

Next to agricultural area, natural vegetation such as land with scrub forms the predominant LULC category of the buffer area. Land with scrub is sparse and delineated as patches scattered in all the parts of the buffer area. The spatial pattern of scrub suggests it is closely associated with water courses. This category occupies land with scrub an area of 7.84 sq.km representing 2.49 % of the total core and buffer area.

Land without scrub, on the other hand is interpreted using brown to white color, medium tone and medium texture and is generally restricted around land covered with scrub and fallow land. They occur as small patches and very minimal area covering 16.44 sq.km representing 6.29 % of the buffer area.

Water bodies

Many Streams small and big water bodies are seen in the study area distributed all over the study area. They support the domestic water requirements and for cattle. At some places, they may also use for irrigation purpose and are very limited. Few dry stream courses are also seen in the study area. In the satellite image, water bodies are interpreted by their light blue to greyish blue color, smooth tone and smooth texture.

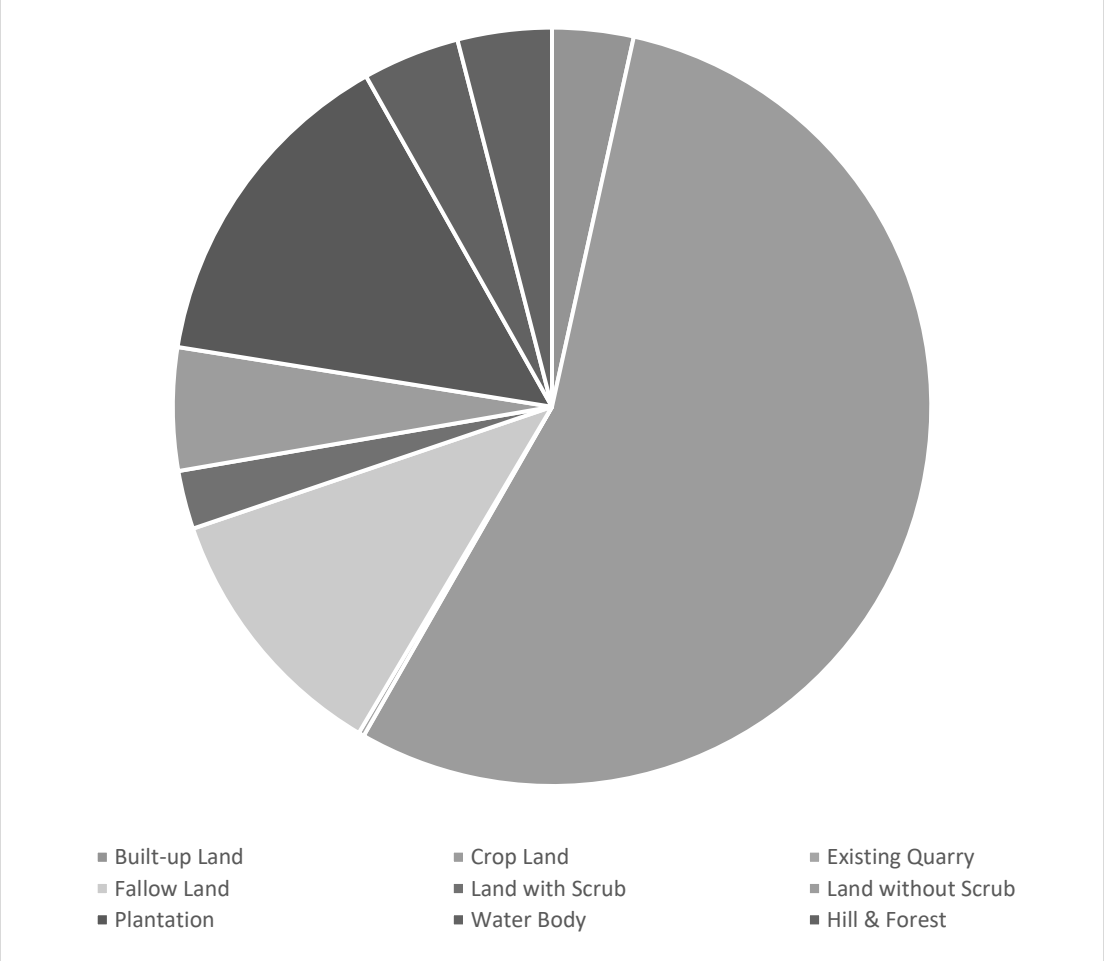
Most of the water bodies retain water for a shorter period after precipitation due to the soil constraint and hence go dry soon. Spatial extent of rivers, stream and water bodies is estimated at 13.01 sq.km and 4.42 %.

Mining area

Mining area seen in the study area distributed all over the study area. Major domestic income from mining business. Spatial extent of mining is estimated at 0.75 sq.km and 1.04 %.

Table 3.15 Major Land Use Units of the Study Area in Percentage

S. No	1st Level Classification	Area in (sq.km)	Percentage (%)
1	Built-up Land	10.89	4.51
2	Crop Land	172.18	71.15
3	Existing Quarry	0.75	1.04
4	Fallow Land	35.44	1.87
5	Land with Scrub	7.84	1.66
6	Land without Scrub	16.44	6.29
7	Plantation	45.0	9.06
8	Water Body	13.01	4.42
9	Hill & Forest	12.61	4.01
Total		**314.16**	**100.0**



3.12 SOCIOECONOMIC ENVIRONMENT

The socio-economic environment of the study area is studied by conducting primary sites through site visits and conducting sample surveys. The secondary data obtained from Census 2011 is also used. The following data area collected from secondary data:

- Demographic pattern.
- Health pattern
- Occupational structure.

3.12.1 DETAILS OF VILLAGES

The profile of the villages located in the study area is given in Fig 3.19 below.

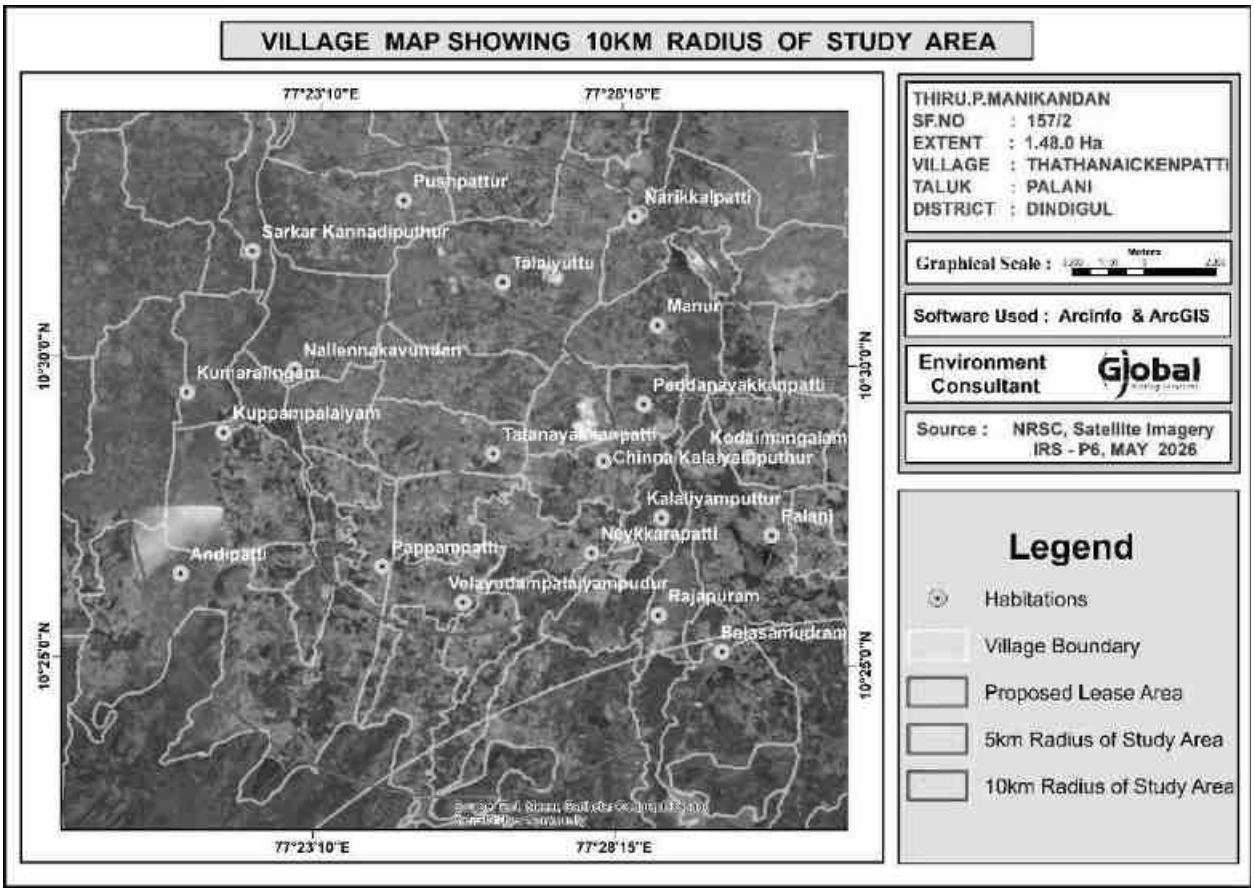


FIG 3.22 VILLAGE MAP OF THE STUDY AREA

The project is located in Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu. As per the Census 2011, Thathanaickenpatti North Village has a total population of **1,011 persons**, comprising **512 males** and **499 females**. The village contains **293 households** and is administered through the Thathanaickenpatti North Gram Panchayat.

Table 3.17 Population profile of the study area

Particulars	No. of Population	Percentage (%)
A. Population Break-up by Gender		
Male Population	1,080,938	50.05
Female Population	1,078,837	49.95
Total Population	**2,159,775**	**100.00**
B. Population Break-up by Social Category		
Scheduled Caste (SC)	452,376	20.95
Scheduled Tribe (ST)	8,064	0.37
Others	1,699,335	78.68
Total Population	**2,159,775**	**100.00**
C. Literacy Level		
Literate Population	1,481,834	68.61
Illiterate Population	677,941	31.39
Total Population	**2,159,775**	**100.00**
D. Occupational Structure		
Main Workers	963,017	44.59
Marginal Workers	142,138	6.58
Total Workers	**1,105,155**	**51.17**
Non-workers	1,054,620	48.83
Total Population	**2,159,775**	**100.00**

Table 3.18 Population profile – Thathanaickenpatti North Village

Particulars	No. of Population	Percentage (%)
A. Population Break-up by Gender		
Male Population	512	50.64
Female Population	499	49.36
Total Population	**1,011**	**100.00**
B. Population Break-up by Social Category		
Scheduled Caste (SC)	322	31.85
Scheduled Tribe (ST)	0	0.00
Others	689	68.15

Total Population	**1,011**	**100.00**
C. Literacy Level		
Literate Population*	603	65.58
Illiterate Population*	318	34.42
Total Population	**921**	**100.00**
D. Occupational Structure		
Total Workers	640	63.30
Non-workers	371	36.70
Total Population	**1,011**	**100.00**

3.12.2 INFRASTRUCTURE FACILITIES IN THE STUDY AREA

Education

Table 3.19 Educational infrastructure -10 km radius from proposed mine lease

S. No.	Particulars	Available in village (Nos)
1	Govt. Primary School	22
2	Govt. Middle School	12
3	Govt. Secondary School	20
4	Govt. Senior Secondary School	36
5	Govt. Arts and Science Degree College	42
6	Govt. Engineering College	0
7	Govt. Medicine College	0
8	Govt. Management Institute	0
9	Govt. Polytechnic	0
10	Govt. Vocational Training School/ITI	0

In the study area, there are totally 22 Primary Schools functioning in these 24 urban areas. Among them 32 villages have 22 primary school, 12 Middle schools & 20 Secondary school.

Healthcare

In the study area, the following facilities are available.

Table 3.20 Medical Infrastructure-10 km radius from proposed mine lease

S.No.	Particulars	Available in village (Nos)
1	Community Health Centre	9

2	Primary Health Centre	8
3	Primary Health Sub Centre	13
4	Maternity and Child Welfare Centre	8
5	TB Clinic	5
6	Hospital Allopathic	0

Other Infrastructure

The other infrastructure facilities available are given below.

Table 3.21 Other Infrastructure-10 km radius from proposed mine lease

S.No.	Particulars	Available in village
1	Tap Water-Treated	24
2	Covered Well	27
3	Hand Pump	27
4	Tube Wells/Borehole	23
5	Post office	39
6	Public bus services	22
7	Commercial Bank	38
8	Cooperative bank	36

Sample Survey

The expert visited 6 villages in the study area. Discussions were held with the people from nearby locality to study the social and economic conditions prevailing in the area. The expert also visited nearby hospitals and primary health centres. The following observations were made.

Primary schools are available in many villages. For hospital facilities, people in the locality have to go to hospital in Palani which is about 4.63 km (SW) from the lease area. Major schools with higher secondary and senior secondary schools are located in Palani. The major Palani Union located in the area is Dindigul Facilities like petrol pump stations, ATM facility is available in Palani.

3.13 HYDROGEOLOGY OF THE STUDY AREA

The hydrological and hydrogeological pattern of the study area is studied in detail using satellite imagery.

3.13.1 HYDROGEOLOGICAL STUDY

To assess the hydrogeological condition of the surrounding proposed mine lease area. The study area is located in Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State is Considered to understand the nature of the general hydrogeological conditions of the surrounding proposed mine lease area.

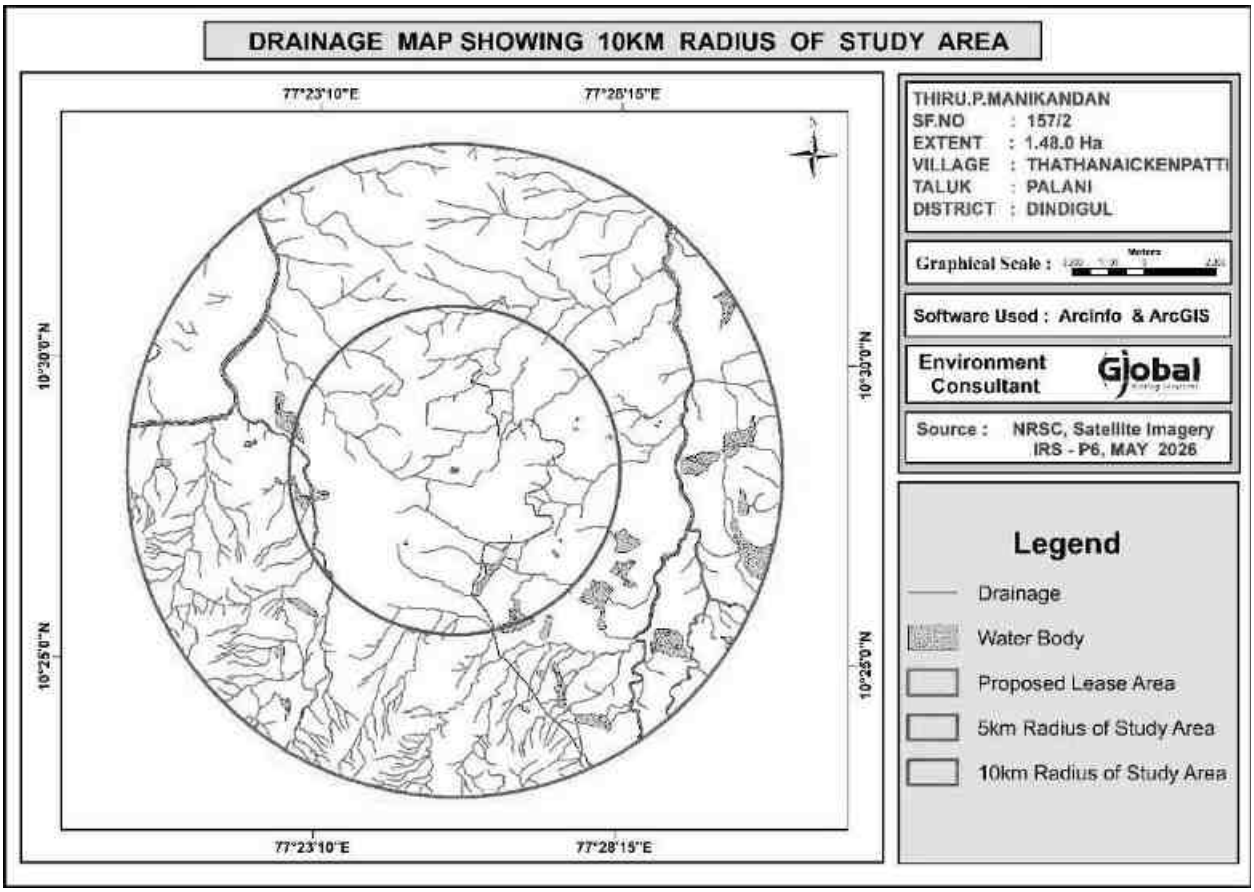


FIGURE 3.23 10 KILOMETER RADIUS OF THE DRAINAGE MAP

3.13.2 PHYSIOGRAPHY AND DRAINAGE

Physiography: The area applied for quarry lease is exhibits hilly terrain covered by top soil formation. The massive Charnockite formation is noticed below 1m (Avg) Topsoil and sloping towards southeast side of the area, the altitude of the area is above 374 m (maximum) from MSL.

Drainage: The drainage pattern study reveals that from the proposed mine lease area

with around 1 Km radius and 10 Km study observed in Figure 3.20. the major water bodies in buffer zone are Odai – 360m (S), 400m (N), Tank – 380m (N), 1.56Km (W), 1.56 Km (SW), 1.36 Km (S), 1.33 km (NE), Amaravathi River – 6.9Km (NW) River – 6.6 KM (E).

3.13.3 GEOLOGY, GEOMORPHOLOGY AND SOIL

Geology: The district is essentially a high-grade gneissic terrain characterized by highly deformed rocks, which can be classified under three groups as 1) Khondalite Group, 2) Charnockite Group and 3) Migmatite Group. The terrain also exposes basic/ultrabasic and younger acid intrusives.

Khondalite Group comprises quartzite, calc granulite / crystalline limestone, garnet sillimanite gneiss, garnet-cordierite gneiss and garnet quartz-feldspar gneiss. Quartzite is an important member of the group, which occurs as linear bands of 5 m to 50 m thick and occupies the crest of linear ridges. It is white or smoky grey and consists of interlocking grains of quartz with minerals like garnet, biotite, diopside, sillimanite and magnetite as accessories. Magnetitequartzite bands are of restricted thickness. Calcgneiss is grey or green and banded, which shows typical ribbed weathering. It consists of diopside, calcite, scapolite, wollastonite and sphene in various proportions with a small amount of quartz and garnet. With decrease in silicate minerals and increase in carbonates, it grades into crystalline limestone. Crystalline limestone is white, medium to coarse, with interlocking calcite, with a small amount of diopside, biotite and magnetite. Garnet-sillimanite gneiss is medium to coarse grained, 5 to 100 m thick and can be traced over a few kilometers along strike. It is mainly made of bands of quartz-k-feldspar rich layers alternating with layers rich in biotite, sillimanite and garnet. Garnet porphyroblasts upto 3 cm in diameter and sillimanite needles upto 5 cm x 2.5 mm size, are seen at a few places. This rock also has thin interbands of garnet-cordierite gneiss and garnetquartz-feldspar gneiss.

The metasedimentary rocks occur either as individual bands or as swathes of bands repeated several times with width varying from 10 m to 100 m and exposed length

from 100 m to a few kilometers, within the Charnockites and Migmatites. These bands are repeated several times because of tectonic slicing.

The Charnockite Group comprises pyroxene granulite and charnockite. The pyroxene granulite is dark grey, medium grained granulitic rock with typical salt and pepper texture, seen on the weathered surface. It consists of diopside, hypersthene, plagioclase, hornblende, biotite and quartz. Charnockite is the predominant rock in the area. It is grey, medium to coarse grained, greasy looking with foliation seen prominently on the weathered surface. It is essentially made of smoky or grey quartz, pale grey microcline and hypersthene as major minerals with plagioclase, hornblende and biotite as accessories. It forms high hills / hill ranges and also occupies the plains, covered by 1-2 m thick soil.

Migmatite is a group of banded felsic rocks of varying mineralogical composition that are formed due to the influx of quartzo-feldspathic material into high grade metamorphic rocks. Two types of migmatite are seen in the Dindigul district, one is grey and the other is pink. Next to charnockite, migmatite gneiss is the second most extensive rock. The migmatite gneiss consists of quartz, kfeldspar, plagioclase, hornblende and biotite in varying proportions.

Intrusive igneous rocks are seen in the area are meta-gabbro and anorthosites as for example around Oddanchatram and east of Vedasandur. Meta gabbro is coarse grained, dark grey, mainly comprising pyroxene, amphibole and plagioclase. Anorthosite is pale pink to light brown, medium to coarse grained rock essentially made up of plagioclase with a small amount of pyroxene and amphibole. Quartz and pegmatite veins are of restricted areal extent. Minor bodies of younger granite are exposed in the area east of Vedasandur.

Foliation/ gneissosity, the prominent planar structure seen in the metamorphic rocks is ENE-WSW in the west and near N-S in the central part of the district. The eastern part of the district shows complicated folded structures due to interference of two phases of folding, forming a series of domes and basins. Faults and shear zones trend N-S in the central part, and NW-SE in the southern part.

(Source – District Survey Report, Dindigul).

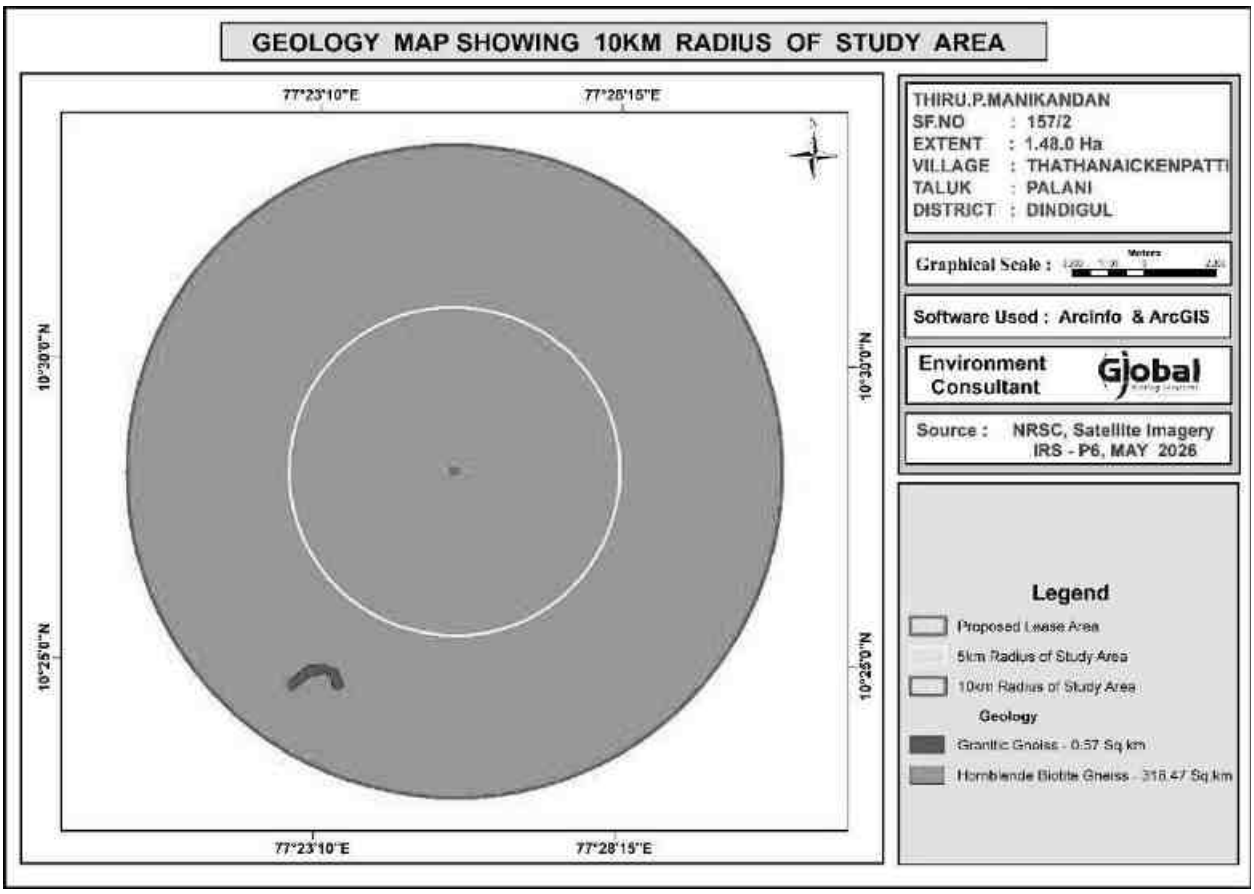


FIGURE 3.24 10 KILOMETER RADIUS OF THE GEOLOGY MAP

Geomorphology: The Core and 10 Km buffered zone geomorphological features (Figure 3.24) shows that A north-south trending range of hills, forming part of the Western Ghats, marks the western boundary with Kerala; Palani hills form the northern spur. The Palani hills range in height from 1163 to 2502 m, Vembadi Shola peak, called the suicide point, represents the highest peak. The Sirumalai hill ranges, situated south and east of Dindigul, mark the boundary with Madurai and Karur districts. The plains are dominant in between these hill ranges, in which the district headquarters Dindigul is located. It is undulating plain covered by red soil, except for a stretch of black cotton soil in areas around Palani and Nilakkottai. The district is drained by four parallel tributaries of Amaravathi River. They are Shanmugha nadi, Nallarangla nadi, Nanganji Ar., and Kodavanar. These ephemeral streams have their

origin in the Palani range hill. The Vaigai River enters the district from Theni and flows over a narrow stretch, before entering Vadipatti area in Madurai district. Inselbergs, residual hills, pediments and pediplains are the prominent landforms and the flood plain is restricted to the bed of Vaigai and the ephemeral streams rising from the Palanis and joining the Amaravathi river in the north. Geomorphology of the study area is detailed below figure.

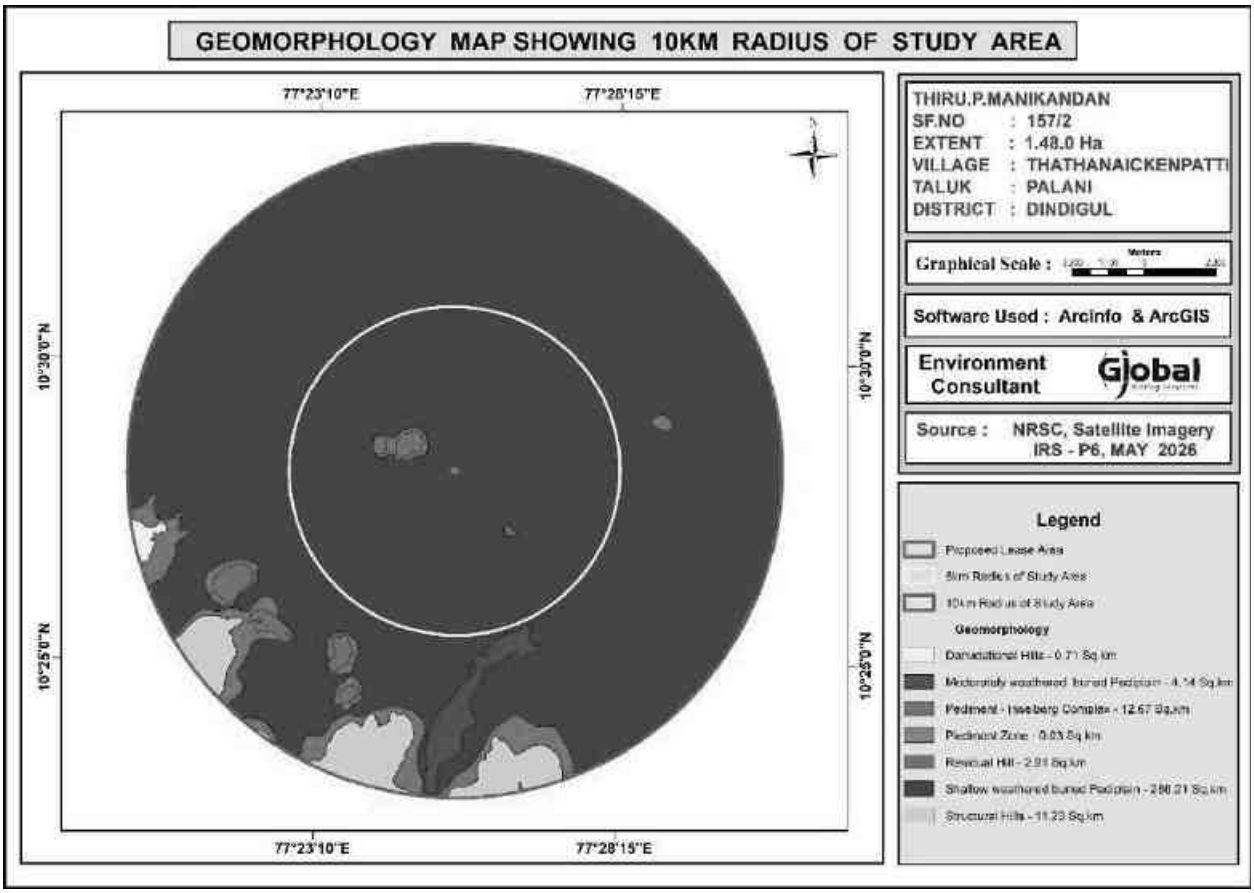
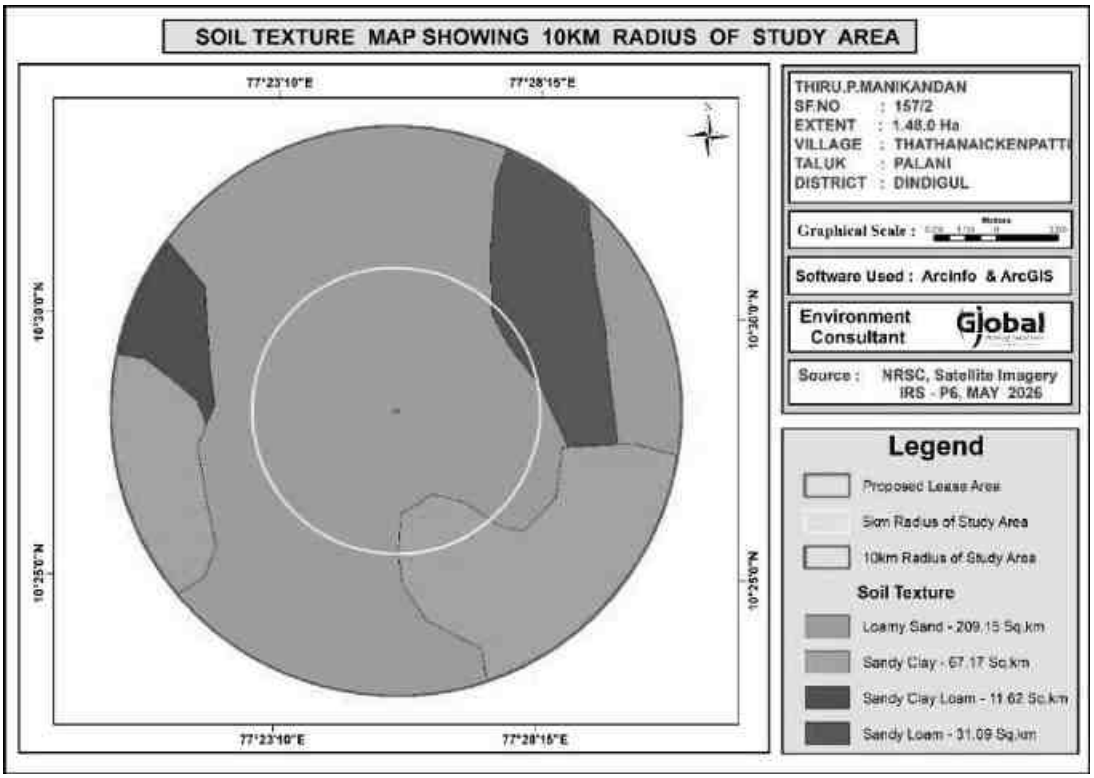
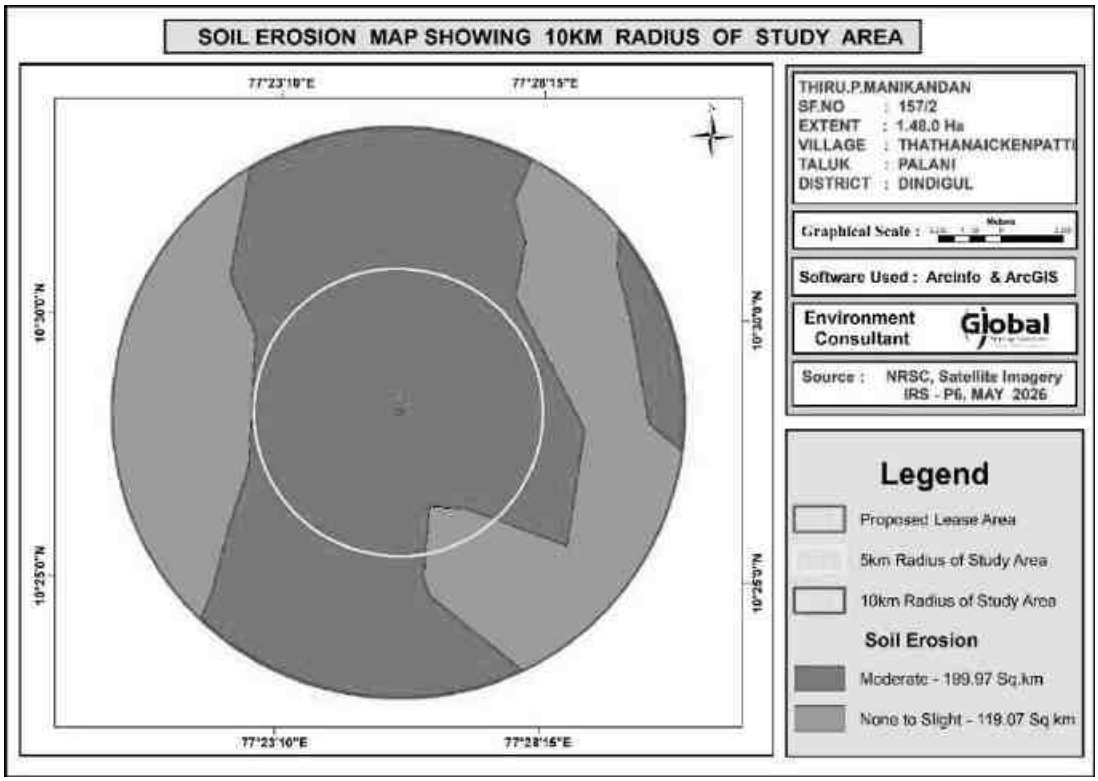


FIGURE 3.25 10 KM RADIUS OF THE STUDY AREA GEOMORPHOLOGY MAP

Soil: The soil developed in and around is moderately deep excessively drained, gravelly clay soil on hills, whereas, on NW part of the district, shallow, well drained, gravely clay soil on gently sloping lands. The soil developed deep drained, calcareous clayey soil on gently sloping low lands. The soil develops on isolated patch at SE of Oduattur is moderately deep, excessively drained, gravelly loam soil high hills.


SOIL TEXTURE MAP SHOWING 10KM RADIUS OF STUDY AREA
77°23'10"E
77°28'15"E
10°30'0"N
10°25'0"N
THIRU.P.MANIKANDAN
SF.NO : 157/2
EXTENT : 1.48.0 Ha
VILLAGE : THATHANAICKENPATTI
TALUK : PALANI
DISTRICT : DINDIGUL
Graphical Scale :
Software Used : Arcinfo & ArcGIS
Environment Consultant
Global
Source : NRSC, Satellite Imagery IRS - P6, MAY 2026
Legend
Proposed Lease Area
5km Radius of Study Area
10km Radius of Study Area
Soil Texture
Loamy Sand - 209.15 Sq.km
Sandy Clay - 67.17 Sq.km
Sandy Clay Loam - 11.62 Sq.km
Sandy Loam - 31.09 Sq.km


SOIL EROSION MAP SHOWING 10KM RADIUS OF STUDY AREA
77°23'10"E
77°28'15"E
10°30'0"N
10°25'0"N
THIRU.P.MANIKANDAN
SF.NO : 157/2
EXTENT : 1.48.0 Ha
VILLAGE : THATHANAICKENPATTI
TALUK : PALANI
DISTRICT : DINDIGUL
Graphical Scale :
Software Used : Arcinfo & ArcGIS
Environment Consultant
Global
Source : NRSC, Satellite Imagery IRS - P6, MAY 2026
Legend
Proposed Lease Area
5km Radius of Study Area
10km Radius of Study Area
Soil Erosion
Moderate - 199.97 Sq.km
None to Slight - 119.07 Sq.km

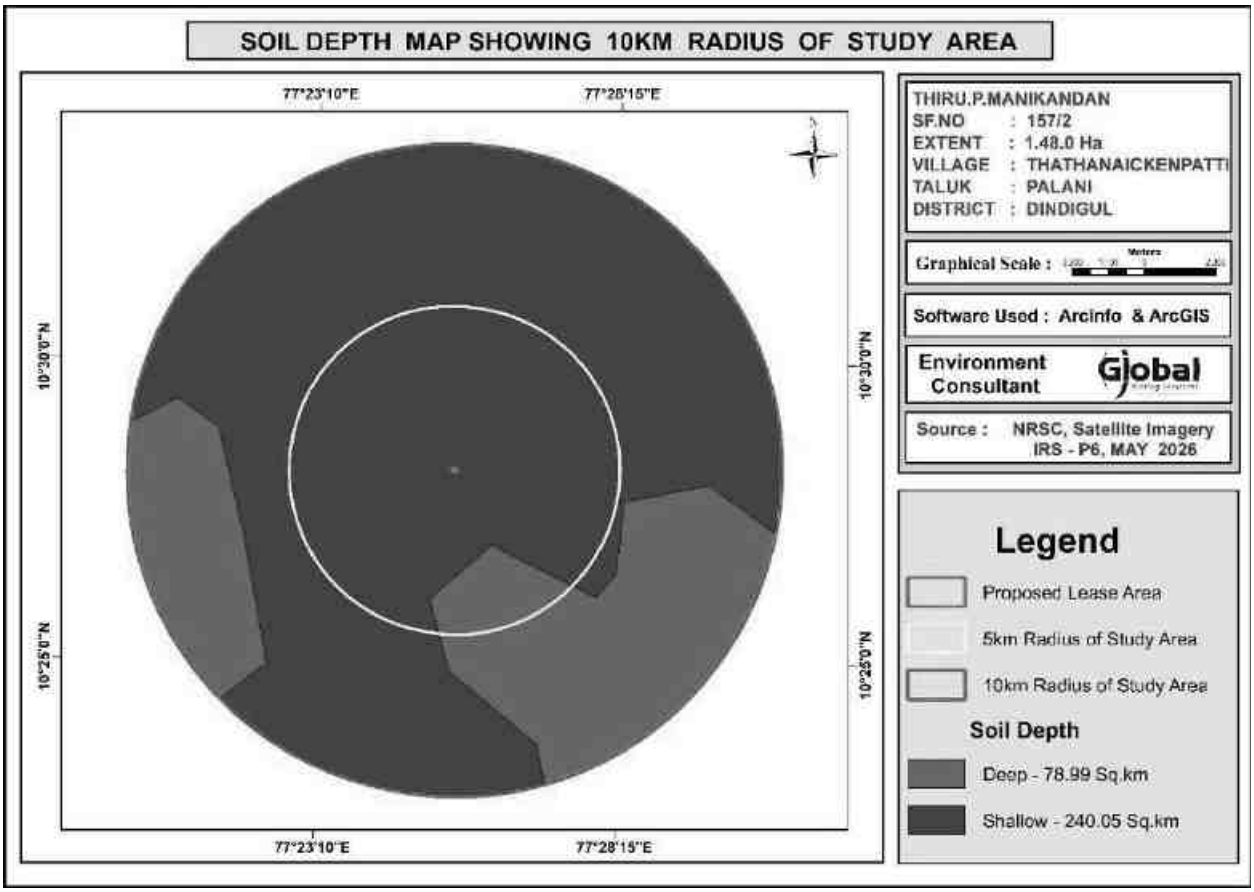


FIGURE 3.2 10 KM RADIUS OF THE STUDY AREA SOIL TYPE MAP

3.13.4 FIELD INVESTIGATION

In this representation in the two seasons, the water level substantially gets fall-down in the non-monsoon season, because of the rainfall impact and it extended up to the Monsoon season. Some of the wells water level is shallow depth in both seasons. These dug wells are located nearby water bodies. So, clearly shows that surface water is impact in these wells.

The shallow depth of groundwater level in the monsoon season. It is interesting to note that the water level is increased because of heavy rainfall during the southwest and northeast monsoon. The groundwater table level is substantially increased in the monsoon season.

In the study area, the shallow aquifer is developed through dug wells and deeper aquifer through tube wells. The study has revealed that potential fractures are encountered at deeper levels. The water in the wells is available mainly monsoon and it reduces during non-monsoon demanding the groundwater. Bore wells are deep and it reflects that the yield is only better at deeper water levels.

Rain water collected in the tanks in the region acts as a good source of water during monsoon season. In order to increase the recharge, tanks, and percolation ponds may be provided with the recharge wells/recharge shafts penetrating this impervious layer to make it more effective in recharging the aquifer.

CHAPTER 4

ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

4.1 INTRODUCTION

This chapter deals with the various anticipated environmental impacts and mitigation measures of the proposed mining activity. The proposed method of mining is Opencast Mechanized and the Quarry Operation involves Shallow Jack Hammer Drilling, Blasting, Excavation, Formation of Benches, Loading and Transportation of minerals. The above activities may affect the surrounding environment like removal of rock mass, Loss of flora and fauna of the area, surface water discharge, change in air and water quality, etc., If adequate measures are not taken for the proposed operations, it will cause the environmental degradation of the area and it will lead to affect to the ecosystem of the surrounding environment.

In order to maintain the existing environmental scenario of the proposed mine lease area it is mandatorily required to assess the present ecology and environment of the proposed mine lease area and buffer area of the project before starting mining operations. The various environmental impacts which are identified by the proposed quarrying activities have been discussed below and its subsequent paragraphs.

- Land Environment
- Soil Environment
- Water Environment
- Air Environment
- Noise Environment
- Biological Environment
- Socio Economic Environment

4.2 DETAILS OF INVESTIGATED ENVIRONMENTAL IMPACTS DUE TO PROJECT LOCATION POSSIBLE ACCIDENTS, PROJECT DESIGN, PROJECT CONSTRUCTION, REGULAR OPERATIONS FINAL DECOMMISSIONING OR REHABILITATION OF A COMPLETE PROJECT.

This is a proposed Rough Stone and Gravel Quarry of S.F.Nos. 157/2 over an extent of 1.48.00 Ha in Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State. The method of mining is Opencast mechanized with a bench width and height of 5m. It is proposed to excavate the Total production of Rough Stone is 1,57,580 m^3 & Gravel is 21,442 m^3 (3,03,765 Ts/ 1,10,460 m3 of Rough Stone & 42,884 Ts / 21,442 m3 of Gravel for the period of 5 years and 1,29,580 Ts/ 47,120 m3 of Rough Stone for the period of 10 years) up to a depth of 32m below ground level. There is some water bodies are Odai – 360m (S), 400m (N), Tank – 380m (N), 1.56Km (W), 1.56 Km (SW), 1.36 Km (S), 1.33 km (NE), Amaravathi River – 6.9Km (NW), River – 6.6 KM (E) within the mine lease area.

The main anticipated impact on the Land Environment due to quarrying operation is change in Landscape, change in Land – use Pattern.

The entire mine lease area is Consent Patta Land. The project area of 1.48.00 Ha and it is proposed to be altered by effective quarrying operation such as excavation (1.07.50 Ha), Infrastructure (0.01.00), Road (0.01.00 Ha) and green belt will be developed in the safety zone of 0.38.5 Ha. The ultimate depth of quarrying is proposed with maximum depth of 32m below ground level and will not intersect the ground water table.

4.3 MEASURES FOR MINIMIZING AND /OR OFFSETTING ADVERSE IMPACTS IDENTIFIED

<table>
<tr><th>Aspect</th><th>Impact</th><th>Mitigation measures</th></tr>
<tr><td>Topography</td><td>The area is plain topography covered by rough stone and Gravel. Quarrying activity will lead to change in geological setting of the area i.e., Due to the quarrying activity in the mine lease area will leads to affect the aesthetic view on the environment. Further, due to the movement of heavy vehicles in and around the mine lease area will leads to affect the surrounding agricultural lands, ecology and biodiversity, human habitations due to the emissions from vehicles like SO_2, NO_x, PM_{10}, $PM_{2.5}$, etc., The existing land use pattern is given as under.
<table>
<tr><th>Sl. No.</th><th>Land Use</th><th>Present Area (Ha)</th><th>Area in use during the quarrying period (Ha)</th></tr>
<tr><td>1.</td><td>Quarrying Pit</td><td>Nil</td><td>1.07.50</td></tr>
<tr><td>2.</td><td>Infrastructure</td><td>Nil</td><td>0.01.00</td></tr>
<tr><td>3.</td><td>Roads</td><td>Nil</td><td>0.01.00</td></tr>
<tr><td>4.</td><td>Green Belt</td><td>Nil</td><td>0.38.50</td></tr>
<tr><td>5.</td><td>Unutilized</td><td>1.48.00</td><td>Nil</td></tr>
<tr><td></td><td>Total</td><td>1.48.00</td><td>1.48.00</td></tr>
</table>
The ultimate pit dimension of the mine lease area is given below.</td><td>The major impact due to this project on land environment is the change in land use. Mining activity will be carried out upto a depth of 32 m below ground level. At the end of mining period, the quarried pit will act as a water reservoir to store the rain water.
Land Use at the end of mine will be as follows.
<table>
<tr><th>Land Use</th><th>Area in use during the quarrying period (Hect)</th></tr>
<tr><td>Area left for water body</td><td>1.07.50</td></tr>
<tr><td>Green Belt</td><td>0.38.50</td></tr>
<tr><td>Remaining area</td><td>0.02.00</td></tr>
<tr><td>Total</td><td>1.48.00</td></tr>
</table>
At the mine closure stage 1.07.50 Ha of lease area will be left as rain water harvesting pond 0.38.50 Ha will be developed with green belt.

Greenbelt shall be developed around the mine lease area and the details has been given below.
<table>
<tr><th>Year</th><th>Species</th><th>No. of trees</th><th>Spacing</th><th>Survival</th></tr>
<tr><td>I</td><td rowspan="4">Pungai, Vagai, Vembu, Manjal</td><td>385</td><td rowspan="4">3m x 3m</td><td rowspan="4">85%</td></tr>
<tr><td>II</td><td>-</td></tr>
<tr><td>III</td><td>-</td></tr>
<tr><td>IV</td><td>-</td></tr>
</table></td></tr>
</table>

<table>
<tr>
<td></td>
<td>
Ultimate Pit dimension at the end of Mining plan Period
<table>
<tr><th>Pit No.</th><th>Length (max) (m)</th><th>Width (Avg) (m)</th><th>Depth (max) (m)</th></tr>
<tr><td>I</td><td>151</td><td>71</td><td>32 (below ground level)</td></tr>
</table>

If mining is not done systematically it will lead to the dumping failure in the mining area.
</td>
<td>
<table>
<tr><td>V</td><td>konrai, Naval, Puvarasu, etc</td><td>-</td><td></td><td></td></tr>
<tr><td colspan="2">Total</td><td>385</td><td></td><td></td></tr>
</table>

Due to the thick vegetation around the mine lease area and sprinkling of water around the haul roads the dust emissions arise from the vehicles will be controlled.
At the end of mining period, fencing will be provided around the mine lease area to arrest the entry of public/cattle to the mining area.
The rough stone are proposed to quarry 5m bench height and 5m width with 45^0 slope and with conventional opencast Mechanized method. As per the approved mining plan a safety distance of 7.5 m and 10 m shall be provided. The overburden in the form of Gravel, after the excavation gravel will be directly loaded into tipper to the needy buyers for road project and construction works for filling and levelling of low-lying areas.
</td>
</tr>
<tr>
<td>Drainage</td>
<td>Mine drainage is surface water or groundwater that drains from an active or abandoned mine. One of the adverse impact of mine drainage is it will contaminate the ground water.</td>
<td>As per the approved mining plan the ultimate pit limit is 32 m below ground level. The ground water table is reported as 82 m BGL. Hence the quarrying operation may not affect the ground water.</td>
</tr>
<tr>
<td>Soil Quality and Agriculture</td>
<td>In monsoon seasons due to the excavation of minerals soil erosion and sediment deposition will occur in the nearby water bodies.</td>
<td>It is proposed to quarry upto a depth of 32 m below ground level and the nearby water table is 82 m. So, the mining activity will not affect the ground water. To prevent the soil erosion during monsoon season, garland drain will be constructed with silt traps.</td>
</tr>
</table>

Visual impact on surrounding environment	Quarrying activities and rock extraction generally cause several environmental effects on the surrounding areas. The alteration of landscape due to activities like excavation, drilling or blasting, in particular, often generates a visual impact on the receptors set in the surroundings. Among these effects, the shape, extent, or chromatic contrast of the mining surface with the original land form may represent a huge loss of appeal for the growth of new urban settlements.	The reclamation of the post mined quarry surface is aimed at restoring the ecological balance taking into account geological parameters but also local flora and climate. Further the ultimate depth of mining is 32 m below ground level. In the post mining stage, the quarried-out pit will be used for rainwater harvesting.

4.3.1 SOLID WASTE GENERATION AND MANAGEMENT

The plastic waste generation is very negligible and it will be collected from the source level in specific dustbin and disposed through the municipal bins.

- Identification of solid waste generations
- Providing dustbins to collect with different color coding
- Creating awareness among the employees
- Developing common storage yards
- Disposal to the nearby municipal yards
- Record keeping
- Review once in quarter

4.3.2 WATER ENVIRONMENT

4.3.2.1 Impact on Surface Water Resources

There is no seasonal or perennial Odai within the M.L area. The drainage pattern of the region is plane to sub-dendritic. Surface run-off water of the M.L. area is drained through proposed drainage and collected in the bottom of the quarry and collected water will be used for same quarry operation as such for plantation & dust suppression.

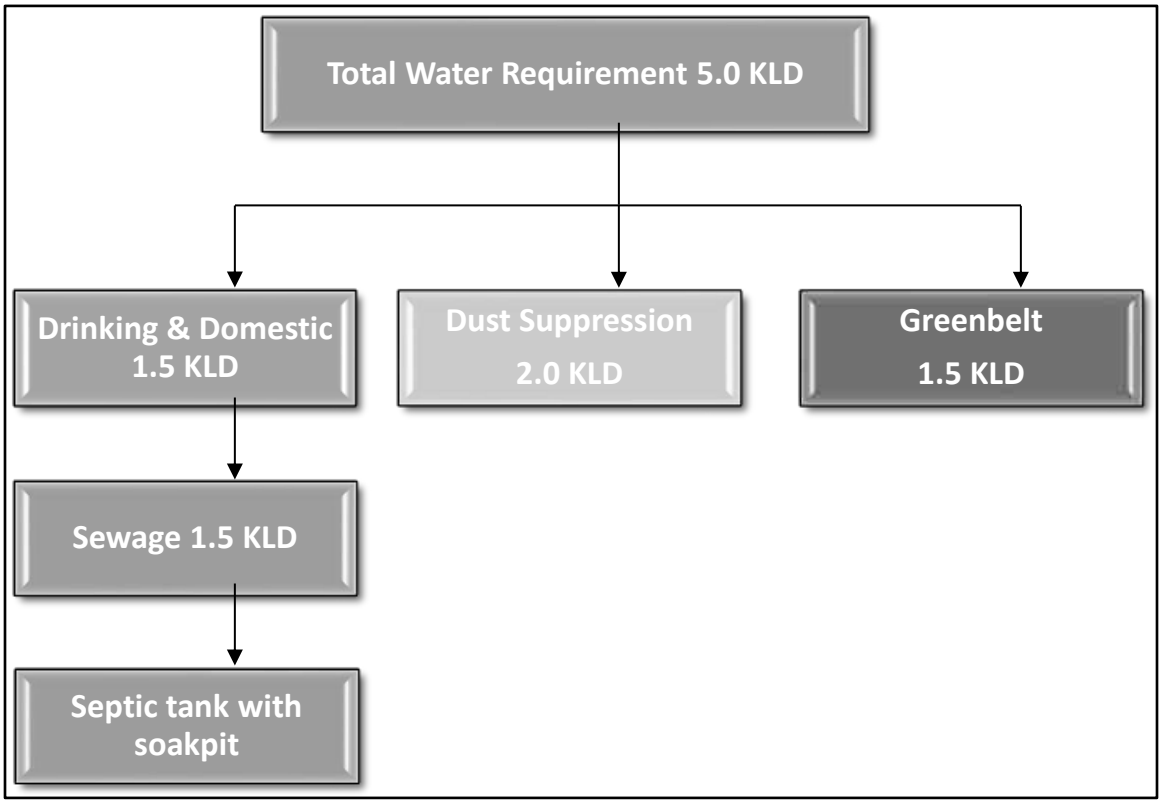
The following water bodies are located within 10 km radius of the project site are Odai – 360m (S), 400m (N), Tank – 380m (N), 1.56Km (W), 1.56 Km (SW), 1.36 Km (S), 1.33 km (NE), Amaravathi River – 6.9Km (NW), River – 6.6 KM (E).

Since these water bodies are located outside the lease area and there is no discharge of effluent or any untreated water from the mines will be made into these water bodies, there is no major impact. The project proponent will restrict the mining operation only within the lease and no other work will be carried out near the canal or any area outside the mining lease.

4.3.2.2 Impact due to Water use in Mines

In the proposed mines water will be mainly used for domestic purpose, dust suppression & plantation. Total water requirement for the project is 5.0 KLD which will be sourced from outside agencies. Negligible sewage of 1.5 KLD will be generated, for which a septic tank with soak pit will be set up. The water balance diagram is given below.

FIG 4.1 WATER BALANCE DIAGRAM



4.3.2.3 Impact on Ground Water

The mining activity is not likely to intersect ground water as the ground water table occurs at a depth of 82 m. The mining will go up to the maximum depth of 32 m below ground level. So, there will be no chance of intersecting the ground water table by the mining activity. So, the impact of mining on the ground water is not envisaged.

4.3.2.4 Mitigation measures

- Entire lease area will be provided with proper garland drains.
- Check wears will be provided to prevent solids from wash off.
- Construction of garland drains around freshly excavated so that flow of water with loose material is prevented.
- The mine water will be passed through the natural slopes and valleys and gets accumulated in the settling tank (Bottom pit)

4.3.2.5 Ground water environment in buffer zone

The scenario of ground water in Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State is given below.

TABLE 4.1 Ground Water Level Status in Dindigul District

S. No.	Assessment Unit (Firka)	Net Annual Ground water availability	Existing gross ground water consumption for irrigation	Existing gross ground water consumption for domestic and industrial water supply	Existing gross ground water consumption for all uses	Stage of ground water development	Category
1	Palani	410.51	OE	39.85	4.93	9.86	Over Exploited

Source: nwm.gov.in

It is planned to carryout appropriate rainwater harvesting schemes and artificial recharge schemes in the area**.**

4.4 VEGETATION IN THE CORE ZONE

The mine lease area is devoid of major plantation. Shrubs and bushes are majorly found within the lease area. The proponent has planned to develop green belt in an area of 0.38.5 Ha. Trees like Pongamia pinnata, Syzigium cumini, Albizia lebbeck, Thespesia populnea, Bauhinia racemose, Cassia siamea, Azadirachta indiaca will be planted around the mine lease area. A total of 385 trees is planned to be planted. Spacing will be 3m x 3m.

FAUNA

There are no sanctuaries/national parks in the buffer zone of 10km study area. The commonly found fauna in the buffer zone is given in Chapter III. During mining activity, the impacts and mitigation measures for Fauna are given in below table.

Table 4.2 Impacts and mitigation measures for Fauna

S.No.	Impact	Mitigation measure
1	Fauna is affected due to noise and vibration.	Sirens will be blown before blasting in the mines. To reduce noise levels, plantation will be done. Blasting will be carried out only in the allotted time.
2	Dust generation due to mining activities	To reduce dust generation, mist sprayers will be used. During transportation, the material will be covered with tarpaulin. Water sprinkling will be done to reduce generation of pollutants.
3	Change in land use of the lease area	After the mine closure stage, the mine pit will be left as rain water collecting tank, which can attract bird population in the nearby areas.
4	Accidental falling of animals	To prevent entry of animals, the mine lease surrounding area will be properly fenced with barbed wire.

4.5 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF ENVIRONMENTAL COMPONENTS.

4.5.1 IMPACT DUE TO MINING OPERATION

Impact prediction is a very important phenomenon in evaluating the environmentally potential adverse impacts for any proposed mine project. The impact prediction is always carried out under worst possible conditions so as to mitigate or to eliminate the environmental hazards. These predictions thus calculated are superimposed over the baseline data to calculate the net impact on the environment after the proposed mine Project comes into production.

4.5.2 IMPACT ON AIR ENVIRONMENT

The impacts on air environment from a mining activity depend on various factors like production capacity, machinery involved, operations and maintenance of various equipment's and vehicle. Apart from these, there will be other activities associated viz transportation of mineral and waste, stocking facilities and dump management within the mine lease area that may contribute to pollution.

4.5.3 Air Emissions

The impacts on air environment from a mining activity depend on various factors like production capacity, machinery involved, operations and maintenance of various equipments and vehicle. Apart from these, there will be other activities associated viz transportation of mineral and waste, stocking facilities and dump management within the mine lease area that may contribute to pollution.

4.5.4 Quantitative Estimation of Impacts on Air Environment

An attempt has been made to predict the incremental rise of various ground level concentrations above the baseline status in respect of air pollution due to proposed of Thiru.P.Manikandan is Rough Stone: 1,57,580 m3 Gravel: 21,442 m3 (Ten years), Tmt.S.Thamayanthi is 1185824.58 m^3 & 148380.27 m^3 Gravel and cluster queries Thiru.P.Devaraj is 483510.16 m^3 of Rough Stone and 31148.53 m^3 Gravel, Thiru. S.Manikandan is 388337.23 m^3 of Rough for a period of ten years by the open-cast semi-mechanised mining method.

The pollutants released into the atmosphere will disperse in the down wind direction and finally reach the ground at farther distance from the source. The concentration of ground level concentrations mainly depends upon the strength of the emission source and micrometeorology of the study area.

In order to estimate the ground level concentrations due to the emission from the proposed project, EPA approved Industrial Source Complex ISC AERMOD View Model has been employed.

The mathematical model used for predictions on air quality impact in the present study is ISC-AERMOD View-6.8.6. It is the next generation air dispersion model, which incorporates planetary boundary layer concepts.

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

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

Special features of AERMOD include its ability to treat the vertical in homogeneity of the planetary boundary layer special treatment of surface releases, irregularly shaped area sources, a plume model for the convective boundary layer, limitation of vertical mixing in the stable boundary layer, and fixing the reflecting surface at the stack base.

The AERMET is the meteorological preprocessor for the AERMOD. Input data can come from hourly cloud cover observations, surface meteorological observations and twice-a-day upper air soundings. Output includes surface meteorological observations and parameters and vertical profiles of several atmospheric parameters.

The AERMAP is a terrain preprocessor designed to simplify and standardize the input of terrain data for the AERMOD. Input data include receptor terrain elevation data. Output includes, for each receptor, location and height scale, which are elevations used for the computation of airflow around hills.

Salient features of the AERMOD model are given hereunder.

- Excavation operations are considered as area sources.
- Transportation of material on haulage roads has been considered as line source

The predicted ground level concentrations for study period computed using AERMOD model are plotted as isopleths.

4.5.5 Sources of Dust Emission

The proposed mining is carried out by semi mechanized opencast method. The air borne particulate matter generated by ore handling operations, transportation and screening of ore is the main air pollutant. The emissions of sulphur dioxide (SO_2),

Oxides of Nitrogen (NOx) contributed by diesel operated excavation/loading equipment and vehicles plying on haul roads are marginal. Prediction of impacts on air environment has been carried out taking into consideration proposed production and net increase in emissions. Based on the various operations involved in the production of minerals, the various emission sources has been identified as given below.

a. Area sources.
b. Line sources.

Extraction of mineral from mine, are considered as area sources. Transportation of material from mining benches to various end points are considered as line sources. The impact of above sources on air environment is discussed below:

The other sources of air pollution are the dust generated during the movement of tippers on the haul road. Water tankers with spraying arrangement will be used for regular water sprinkling on the haul roads to ensure effective dust suppression. The tippers are well maintained so that exhaust smoke does not contribute abnormal values of noxious gases and un-burnt hydrocarbons.

4.5.6 Emission Details

All the emissions discussed above are quantified for proposed maximum production of Thiru.P.Manikandan is Rough Stone: 1,57,580 m3 Gravel: 21,442 m3 (Ten years), Tmt.S.Thamayanthi is 1185824.58 m3 & 148380.27 m3 Gravel and cluster queries Thiru.P.Devaraj is 483510.16m3 of Rough Stone and 31148.53 m3 Gravel, Thiru. S.Manikandan is 388337.23 m3 of Rough for a period of ten years by the open-cast semi-mechanised mining method. The existing air quality levels are covered in the baseline scenario.

Excavation, loading and transportation through tippers are the major sources, which are of significance. Therefore, the emissions considered for modeling are from drilling blasting, excavation & transportation rough stone and gravel.

The emissions are computed based on AP-42 emission factors. Operational hours, activity rate, wind speed and moisture content have been considered for estimation of emissions from point and area sources. For line source, apart from operational hours, activity rate, moisture, silt content and vehicle weight have been considered.

Predictions are carried out for the worst-case scenario of simultaneous operation of excavators (area sources) and tippers for transportation from mine pit to loading pit (line sources) over a distance of 500 m.

The number of working days has been taken at 300 days per year with 8 hours of operation/day, hence the concentrations predicted are considered to be the worst case. With control measures, the emissions have been taken at 30% of uncontrolled emissions for handling and 10% of uncontrolled emissions for transportation.

4.5.7 Meteorological Data

The meteorological data recorded continuously during the month of March 2026 – May 2026 on hourly basis on wind speed, wind direction and temperature has been processed to extract the 24- hourly mean meteorological data as per the guidelines of IMD and MoEF for application of AERMOD model. Stability classes computed for the mean hours is based on guidelines issued by CPCB on modeling. Mixing heights representative of the region have been taken from the available published literature.

4.5.8 Summary of Predicted Ground Level Concentrations

Ground level concentrations due to the mining activities have been estimated to know the incremental raise and extent of impact in the study area.

The maximum ground level concentration is estimated to be about 2.66 µg/m^3 of PM 2.5 & 4.17 µg/m^3 of PM_{10} within the mine area and cluster area is estimated to be about 3.08 µg/m^3 of PM 2.5 & 5.27 µg/m^3 of PM_{10}, where mining operations are being carried out. The impact of mining operations would be negligible beyond 0.4 km.

Figure – 4.1 represents the spatial distribution of the predicted ground level concentrations of PM_{10} due to emissions from mine.

4.5.9 Emission sources & Quantification

Various point and non-point sources of emissions from Proposed Rough Stone Quarry of Thiru.P.Manikandan is quantified and presented below:

(I) Area Emissions – Total Material handling (Rough Stone)

Quantity, TPA	Thiru.P.Manikandan Rough Stone: 1,57,580 m^3 Gravel: 21,442 m^3 (Ten years)
Operational Hours Per Year	2400
Activity Rate, t/hr.	400.13
Emission of dust, g/t.	0.13
Emission of dust, g /hr.	62.256
Area of influence, m^2	601
Uncontrolled emission rate g/s/m^2	0.000051079
Controlled emission rate, PM10 g/s/m^2	0.000051079
Controlled emission rate, PM2.5 g/s/m^2	0.00029504

(II) Line Source – Transport of Rough Stone & Gravel from Pit to Boundary

Quantity, TPA	Thiru.P.Manikandan Rough Stone: 1,57,580 m^3 Gravel: 21,442 m^3 (Ten years)
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	2190
Lead length/trip, Km	1.9
Total VKT/Year	22012
Emission Kg/VKT	0.20
Total emission Kg/Year	32145
Uncontrolled emission rate g/s/m	4.5608
Controlled emission rate, PM10 g/s/m	0.45608
Controlled emission rate, PM2.5 g/s/m	0.38074

Area Emissions – Total Material handling (Cluster Rough Stone)

Quantity, m3	**Thiru.P.Manikandan** Rough Stone: 1,57,580 m^3 Gravel: 21,442 m^3 (Ten years) **Tmt.S.Thamayanthi** Rough Stone: 1185824.58 m^3 & Gravel: 148380.27 m^3 **Thiru.P.Devaraj** Rough Stone: 483510.16m^3 & Gravel: 31148.53 m^3 **Thiru. S. Manikandan** Rough Stone: 388337.23 m^3
Operational Hours Per Year	2400
Activity Rate, t/hr.	401.56
Emission of dust, g/t.	0.31
Emission of dust, g /hr.	76.85
Area of influence, m2	612
Uncontrolled emission rate g/s/m2	0.00061509
Controlled emission rate, PM10 g/s/m2	0.00061509
Controlled emission rate, PM2.5 g/s/m2	0.0005087

Line Source – Transport of Rough Stone (Cluster)

Quantity, m3	**Thiru.P.Manikandan** Rough Stone: 1,57,580 m^3 Gravel: 21,442 m^3 (Ten years) **Tmt.S.Thamayanthi** Rough Stone: 1185824.58 m^3 & Gravel: 148380.27 m^3 **Thiru.P.Devaraj** Rough Stone: 483510.16m^3 & Gravel: 31148.53 m^3 **Thiru. S. Manikandan** Rough Stone: 388337.23 m^3
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	7665
Lead length/trip, Km	0.22
Total VKT/Year	51230
Emission Kg/VKT	0.26
Total emission Kg/Year	46807
Uncontrolled emission rate g/s/m	5.6952
Controlled emission rate, PM10 g/s/m	0.56952

Controlled emission rate, PM2.5 g/s/m	0.45630

Note: *Emission factor computed based on wind speed of 2 m/s, and moisture content of 10 %. + Emission factor computed based on silt content of 10 % and moisture content of 10 %

FIG 4.2 Isopleth of GLC Prediction for $PM_{2.5}$

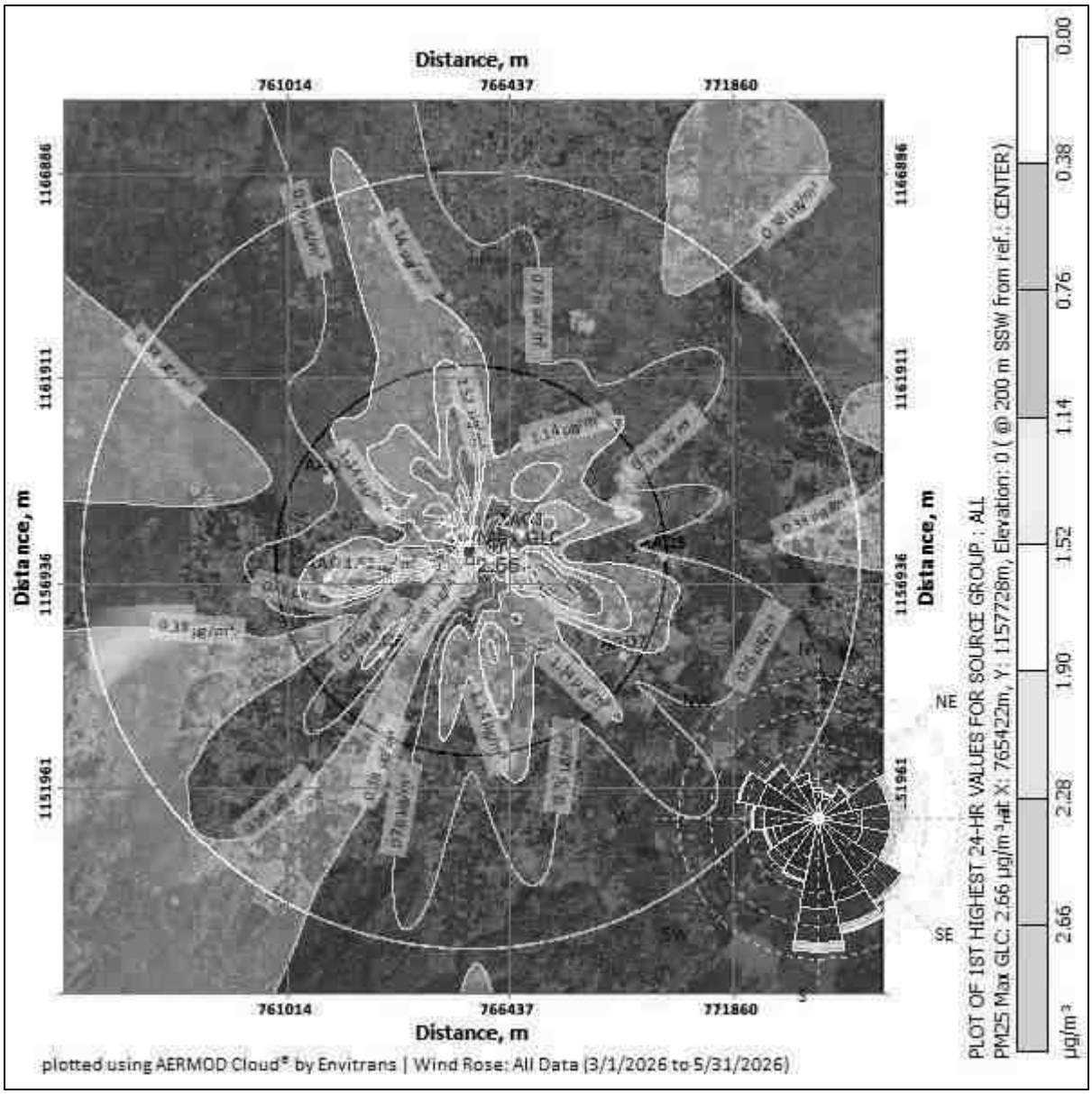


FIG 4.3 Isopleth of GLC Prediction for PM_{10}

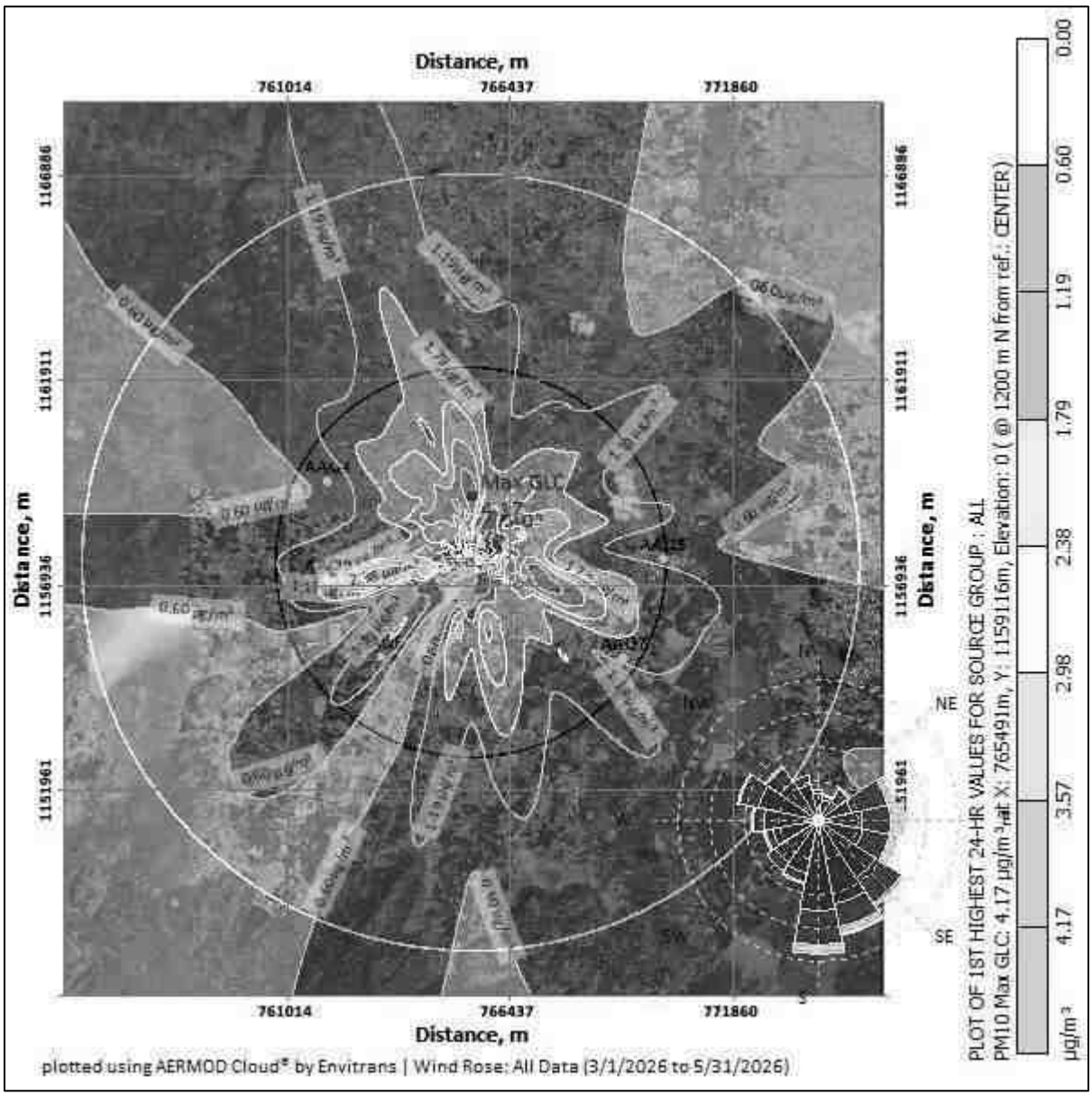


FIG 4.4 Isopleth of GLC Prediction –Cumulative for $PM_{2.5}$

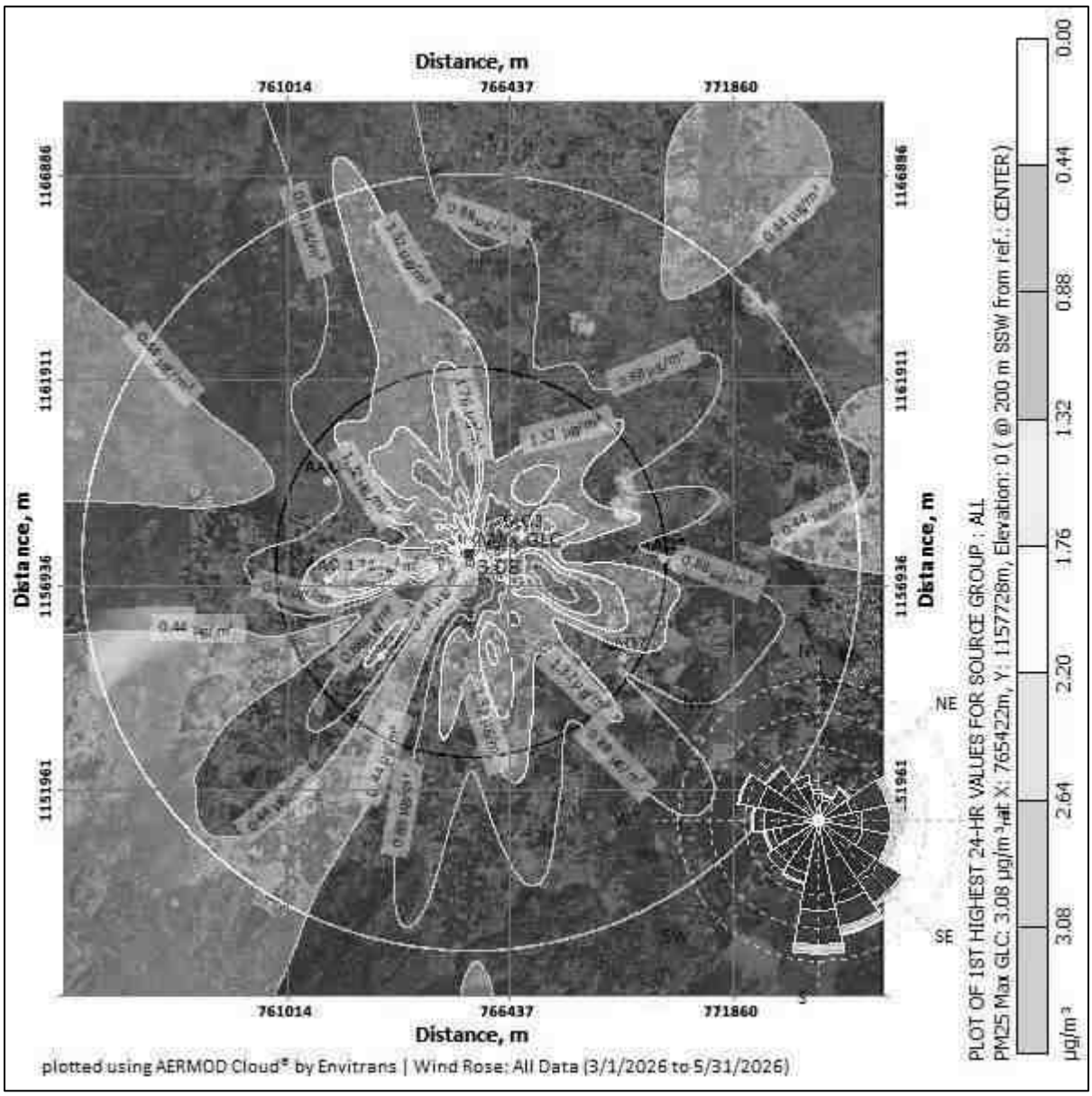
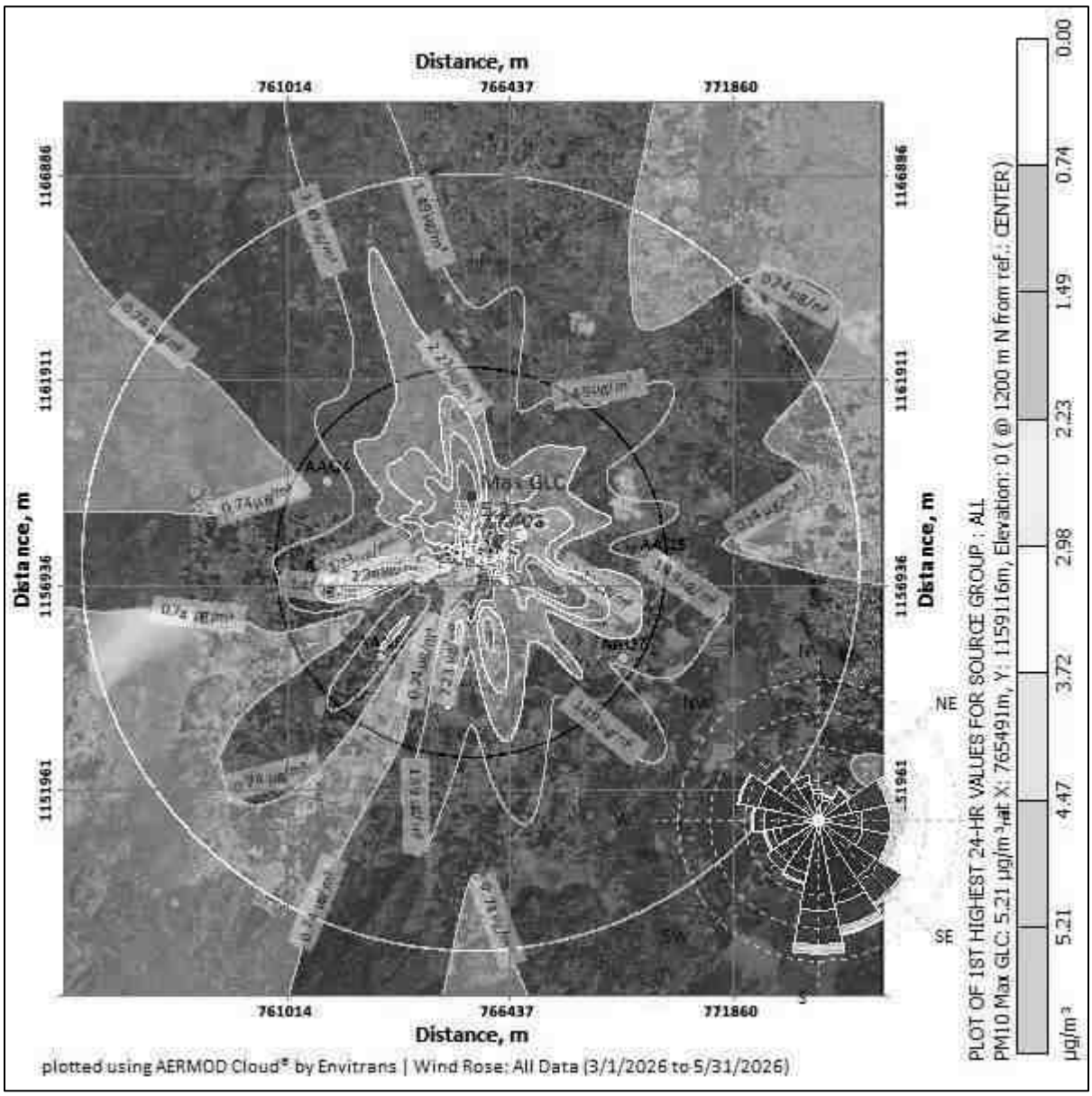


FIG 4.5 Isopleth of GLC Prediction –Cumulative for PM_{10}



PREDICTED AMBIENT AIR QUALITY

The post project Concentrations of PM10, PM2.5, (GLC) (base line + incremental) after adopting necessary control measures is given in Table No - 4.3 to 4.6.

Table 4.3 Concentrations of PM2.5 after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Within Mine Lease area	35.2	2.66	37.86	60
2	Velusamudram	26.4	2.28	28.68	
3	Kasanayampatty	23.6	1.90	25.50	
4	Ayyampalayam	30.0	1.52	31.52	
5	Chinnakalayamputhur	25.1	1.14	26.24	
6	Pappampatti	29.4	<1.0	30.40	
7	Neikarapatti	28.0	<1.0	29.0	

Table 4.4 Cluster Concentrations of PM2.5 after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Within Mine Lease area	35.2	3.08	38.28	60
2	Velusamudram	26.4	2.64	29.04	
3	Kasanayampatty	23.6	2.20	25.80	
4	Ayyampalayam	30.0	1.76	31.76	
5	Chinnakalayamputhur	25.1	1.32	26.42	
6	Pappampatti	29.4	<1.0	30.40	
7	Neikarapatti	28.0	<1.0	29.0	

Table 4.5 Concentrations of PM10 after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Within Mine Lease area	73.9	4.17	78.07	100
2	Velusamudram	57.9	3.57	61.47	
3	Kasanayampatty	51.2	2.98	54.18	
4	Ayyampalayam	62.5	2.38	64.88	
5	Chinnakalayamputhur	55.1	1.79	56.89	

6	Pappampatti	61.4	1.19	62.59	
7	Neikarapatti	60.5	<1.0	61.50	

Table 4.6 Cluster Concentrations of PM10 after Project Implementation

SL. No	Within Mine Lease area – Project site	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Within Mine Lease area	73.9	5.21	79.11	100
2	Velusamudram	57.9	4.47	62.37	
3	Kasanayampatty	51.2	3.72	54.92	
4	Ayyampalayam	62.5	2.98	65.48	
5	Chinnakalayamputhur	55.1	2.23	57.33	
6	Pappampatti	61.4	1.49	62.89	
7	Neikarapatti	60.5	<1.0	61.50	

The above report seems that, even in the worst-case scenario, the resultant added concentrations with baseline figures show that the values of ambient air quality for PM_{10} are in the range of 51.18 µg/m^3 to 78.07 µg/m^3 and for $PM_{2.5}$ are in the range of 25.50 µg/m^3 to 37.86 µg/m^3 and PM_{10} are surrounding area range of 54.92 µg/m^3 to 79.11 µg/m^3 and for $PM_{2.5}$ are in the range of 25.80 µg/m^3 to 38.28 µg/m^3 which are within the statutory limits in each case. The mitigation measures undertaken in the mine for control of air pollution are given below.

- Wet drilling will be practiced in drilling operation.
- Water sprinkling will be done in haul roads & loading etc.
- The mines workers are provided with the dust masks.
- Three-layer plantation in the safety zone.

DG sets shall be periodically maintained as per manufacturer's specifications.

4.6 ASSESSMENT OF SIGNIFICANCE OF IMPACTS (CRITERIA FOR DETERMINING SIGNIFICANCE, ASSIGNING SIGNIFICANCE)

4.6.1 NOISE ENVIRONMENT

The main noise generating source during mining operation and related activities are drilling, excavation, loading and transportation. Intermittent noise is generated due to operation of diesel generator.

4.6.2 Likely Noise Levels in Lease Area due to mining activity

S.No.	Source Name	Noise Level in dB (A)
1	Diesel generator	90
2	Excavator Operation	86
3	Trucks movement	82
4	Drilling	96
5	Blasting	102

It is expected that the generated noise will be limited within the mine lease area and there will be no profound effect of noise on the buffer zone. The noise level will be maintained below the threshold limit by vigorous maintenance of the machineries. Wet drilling with dust extractor is being used to reduce the noise level during the mining operation.

Noise levels were measured in the lease area and in the nearby Villages, the values are given below.

TABLE 4.7 Noise Levels in Monitoring Locations

S. No.	Location	Day Equivalent (in dBA)	Night Equivalent (dBA)
1	Within Mine Lease area	45.5	32.3
2	Velusamudram	44.5	31.3
3	Kasanayampatty	50.5	43.3
4	Ayyampalayam	53.8	41.5
5	Chinnakalayamputhur	51.8	44.2
6	Pappampatti	52.5	39.3
7	Neikarapatti	45.8	33.5

The noise levels are within the MoEFCC limits of 70 dB(A) in the working area and in the buffer areas, the values are below the limit of 75 dB(A). Since, the residential area norm has been considered for all six locations mentioned above, during mining operation mine lease area will be considered as industrial area/quarry area for which DGMS norms 85 dB(A)/CPCB guidelines 75 dB(A).

4.6.3 Impact of Noise due to mining

- Noise generation in mining is due to operation like drilling, blasting and transportation of minerals within and outside the lease area.
- As per DGMS (Directorate General of Mines Safety) limits, the acceptable noise level is 85 dB(A) for an exposure period of 8 hours.
- Exposure to loud noise can also cause high blood pressure, heart disease, sleep disturbances, and stress. Noise pollution also impacts the health and well-being of wildlife.
- Noise exceeding prescribed limits may cause impairment like abnormal loudness perception, tinnitus which causes a persistent high-pitched ringing in the ears, paracusis or distorted hearing.

4.7 MITIGATION MEASURES

4.7.1 Noise level control.

- As the distance between the source and receptor increases, the noise level decreases. Hence, there will be a natural attenuation.
- The proponent has planned to develop green belt in the periphery of the lease area which diminishes sound volume by dampening them.
- All the equipment/machinery/tippers involved will be properly maintained to control noise generation.
- Conducting regular health checkups for employees involved.
- Employees will be made to work on shifts to reduce their exposure time.
- Providing earplugs to all employees.
- Providing green walls/nets wherever possible.

By adopting these measures, the noise levels will be maintained well within MoEFCC limits since the baseline value is low.

4.7.2 IMPACTS DUE TO VIBRATION

There will be negligible vibration of ground due to the following activities.

- Due to Blasting
- Due to Drilling
- Due to movement of machinery

Impacts

- Though vibration will be only felt by the people working inside the lease area it is usually undesired.
- Vibration may also cause fly rocks.
- It may frighten the birds and small insects in the lease area. However, it will be felt only for a short period.

Mitigation measures

- The DG set will be kept within the acoustic enclosure made by the stone blocks.
- Drills will be equipped with sharp bits and wet drilling will be adopted.
- A well-planned green belt is proposed for the mining to reduce noise level.
- Proper warning system before blasting will be adopted and clearance of the area before blasting will be ensured.
- Regular maintenance of the machineries and vehicles to reduce the noise level.
- Use of ear muffs by the workers with occupational exposure to noise.
- Carrying out blasting on limited scale, only from 12:00 PM to 2:00 PM
- Control of fly rock and vibration by maintaining peak particle velocity within the standard as prescribed by the DGMS and MOEFCC.
- Shallow depth jackhammer drilling and blasting is proposed to be carried out with minimum use of explosive.
- Supervising blasting by competent and statutory Foreman/ Mines Manager.

4.7.3 SOCIO ECONOMIC IMPACT

The lease area is Consent Patta Land. The proponent has planned to spend INR 5,00,000 for CER activities.

4.7.4 OCCUPATIONAL HEALTH

Impacts on humans due to various mining activities

The occupational risk due to proposed mining may be due to drilling, blasting, excavation and transportation. A total of 27 workers will be engaged in the mining activity. Mining activity may cause various health problems to the mines workers as follows:

- Dust generated during excavation, drilling, stone cutting, sizing and transportation may cause health problems like Silicosis, Asthma, Tuberculosis and other respiratory lungs disorders.
- Heavy weight lifting by the workers may cause injuries to arms, legs and back.
- Noise generated during the mining activity may cause Noise Induced Hearing Loss (NIHL).

Table 4.8 Impacts on humans due to various mining activities

S. No.	Type of activity	Impact
1	Dust generation due to drilling and blasting	Continuous exposure to dust causes Pneumonia, Tuberculosis, Rhematic arthritis and Segmental Vibration
2	Noise generation due to drilling and blasting	Short term impact will be lack of sleep, high blood pressure and heart ailments. Long term exposure may lead to partial or permanent deafness
3	Unexpected accidents	Risks include fly rocks, cracks or fissures due to improper mining methods

Mitigation measures

- The mines worker will be provided with dust mask to minimize the inhalation of the dust.
- Water sprinkling twice in a day is in practice on the haul roads, near excavation and roads to reduce the fugitive dust emission.
- Wet drilling and drilling with dust extractor will be practiced.
- Ear muffs will be supplied to the workers working in the noise prone area
- The mining site will be supplied with first aid facilities and the entire mines worker will have access to that.

- The mines workers will be well trained about the safety practices in the mining activities.
- As per Mines Rules, 1955, medical examination of employees at the initial stage and periodically, shall be done by a team of qualified medical officers provided by the project proponent.
- Regular medical checkup camps shall also be arranged for detection of occupational diseases and minor disease in the nearby rural population.
- Free checkup and medicine for treatment for their acute and chronic illness shall be provided by the lessee. Conducting periodical Medical Examination as per DGMS.
- Making all first aid kits available in mines office
- Keeping fire extinguisher in place
- Educating the employees about how to handle unexpected happenings
- Posting information containing emergency contact numbers in mines office
- By adopting all these measures, the safety of the employees working in the quarry will be ensured.

4.7.5 WASTE MANAGEMENT

Solid Waste

Since the entire mined out material will be utilized there will not be any solid waste generation from this project. However, the Solid waste (MSW) generated from administrative activities will be properly collected and disposed to Govt. Authorized yards / Re-cylers / Disposers.

Liquid Waste

There is no process effluent generation from this mine. Hence no liquid waste is generated. Domestic wastewater i.e 1.5 KLD will be discharged in soak pit via septic tank.

Hazardous Waste Management

In this project the following management practices will be followed:

In the quarrying operation, the source of hazardous waste is from machinery maintenance activities that are waste oil/ Waste lubricants / Used filters / Used Hydraulic horses. The said hazardous waste are very negligible quantity, it will be properly collected in the source level, stored in impervious storage yards and disposed of as per the Hazardous waste (Trans-boundary Movement) Management Rules, 2016.

Plastic Waste

Single use plastics/ use and throwaway plastics will be banned in the site as directed by the Tamil Nadu Government vide GO(Ms)No.84 regarding ban on use of plastic products. The employees will be encouraged to use compostable material or reusable material.

****

CHAPTER 5

ANALYSIS OF ALTERNATIVES

5.1 DESCRIPTION OF EACH ALTERNATIVE

Analysis of alternative site helps in selection of best possible site for the project. On one hand it helps to closeness to the existing infrastructure and on other hand it also helps to minimize the impact of project on environment.

5.2 SUMMARY OF ADVERSE IMPACTS OF EACH ALTERNATIVE

The project proponent has prepared mining plan under Rule 41(5) of the Tamil Nadu Minor Mineral Concession Rules, 1959 and the same has been approved by the Assistant Director, Dept. of Geology & Mining, Dindigul vide Rc.No.1206/2025, dated 12.03.2026.

- There is no forest land or other Eco-sensitive places.
- Proposed mine site is selected on the basis of occurrence of mineral for suitable end use.

Hence seeking alternative site is not required.

5.3 MITIGATION MEASURES PROPOSED FOR EACH ALTERNATIVE

The mining technology is Opencast, semi mechanized in single-shift operation without any change in technology. The operation will be carried out as per DGMS norms. No alternate technology will be used. Details of the technology used are given in Chapter II.

5.4 SELECTION OF ALTERNATIVE

In case of Mining projects alternate site selection is not necessary as the mining is site specific and the area in which mining will be carried out has been adequately proved for presence of mineral. The deposit is also having good infrastructural facilities for access and development.

The mining technology is mechanized Opencast in single-shift operation without any

change in technology. The operation will be carried out as per DGMS norms. No alternate technology will be used. Details of the technology used are given in Chapter II.

*****

CHAPTER 6

ENVIRONMENTAL MONITORING PROGRAMME

6.1 TECHNICAL ASPECTS OF THE MONITORING THE EFFECTIVENESS OF MITIGATION MEASURES (INCL MEASUREMENTS, METHODOLOGIES, FREQUENCY LOCATION DATA ANALYSIS, REPORTING SCHEDULES EMERGENCY PROCEDURES DETAILED BUDGET AND PROCUREMENT SCHEDULES)

6.1.1 ENVIRONMENTAL MONITORING

Monitoring is done to measure the efficiency of control measures implemented. Regular monitoring of various environmental parameters like air, water, noise and soil environments is needed to assess the status of environment during the project operation.

A schedule is framed with timeline to monitor various parameters during the operation of the project. The schedule is framed based on MoEFCC and Tamil Nadu State Pollution Control Board. In case the SEIAA/TNPCB/MoEFCC or other statutory bodies demand monitoring of any additional parameter/factor, the same will also be done.

The proposed quarry is a small quarry. Hence the Mines-in-charge will be responsible for environmental related activities. After obtaining EC, the conditions mentioned in EC will be strictly followed. The Mines-in-charge will be responsible for implementing the conditions. EC compliance report will also be submitted periodically.

6.1.2 OBJECTIVES OF ENVIRONMENTAL MONITORING

The objectives of Environmental Monitoring are as follows.

- Monitoring and analysis of air and water samples
- Implementing the control and protective measures.

- Coordinating the environment related activities within the project as well as with outside agencies. Collecting statistics of health of workers and population of the surrounding villages. Green belt development etc.
- Monitoring the progress of implementation of Environmental Management Programme.
- Monitoring the noise generation in and around the project areas.
- Monitoring of wastewater treatment and disposal of solid waste.
- The laboratory will be suitably equipped for sampling/testing for various environmental pollutants.

6.1.3 ENVIRONMENTAL MONITORING SCHEDULE

To evaluate the effectiveness of Environmental Management Programme, regular monitoring of the important environmental parameters will be taken up. The frequency of monitoring different parameters is given in table 6.1.

Table 6.1 Environmental Monitoring Schedule

Sl.No.	Description of Parameters	Parameters	Frequency
1	Air	Air Quality for SPM, PM-10, PM-2.5, SO_2 and NO_x	24-hour average samples Once in a 3 month.
2	Water	General, Physical, and chemical parameters	Once per season
3	Noise	L_{eq}, L_{max}, L_{min}, L_{eq} Day & L_{eq} Night dB(A)	8-hour average samples Once in a 3 month.
4	Soil	Physical and Chemical characteristics.	Once per season

6.1.4 LOCATION

Monitoring of the above-mentioned environmental parameters would be done at appropriate and sensitive areas. The exact location of monitoring is given as Figure – 3.4, 3.10, 3.12 & 3.14.

6.1.5 MEASUREMENT METHODOLOGY

(a) Ambient Air Quality

Ambient air quality will be monitored for SO_2, NO_x, PM_{10} and $PM_{2.5}$. The instruments like high volume air samplers and Respirable dust samplers would be used for this

purpose. These parameters will be monitored as mentioned in the monitoring schedule previously.

(b) Water Quality

Water quality analysis will be done quarterly and the monitored parameters include pH, Temperature, TDS, etc. as specified by SPCB from time to time.

(c) Noise Monitoring

Noise level will be monitored in working environment mainly noise producing sources over the boundary and around the mining area**.**

(d) Green Belt and Afforested Areas

Continuous vigilance and monitoring of green belt will be done for performance and survival rate of the saplings. Watch and ward personnel will properly guard the plantation. Provision will be made for fertilizers application and watering on schedule.

(e) Socio-Economics

Socio-economic of the core and buffer zone details elaborated in Chapter-3.

6.1.6 TECHNICAL ASPECTS OF MONITORING THE EFFECTIVENESS OF MITIGATION MEASURES

The above monitoring schedule will be followed periodically. After collection of the data, the mines-in-charge will analyze the data obtained. The data thus obtained will be incorporated in the EC Compliance report submitted to the regional office, MoEFCC. The measurement methodologies will be as per CPCB/BIS/MoEFCC/DGMS norms.

6.1.7 EMERGENCY PROCEDURES

In case of any emergency due to environmental conditions, the mines in-charge will immediately report to the top-level management and the emergency response protocol will be implemented as per MoEFCC/ SPCB / DGMS norms.

6.1.8 REPORTS TO BE GENERATED

The Project Proponent will maintain records of each test and its interpretation so as to formulate an adequate Environmental Management Plan. The set of records planned to be maintained by Project Proponent are given in below table 6.2.

Table 6.2 Important Records to be maintained by PP	
S.No.	**Particulars**
1	Monitoring results for Air, Water & Soil.
2	Records of slope failure, land erosion & drainage.
3	Plantation Records
4	Environmental and related standards/ norms
5	Records pertaining to statutory consents, approvals.
6	Periodic Medical examination (PME) records.
7	Complain register (Environmental pollution)
8	Records on water and electricity consumption
9	Periodic progress records.
10	Environmental Expenses Records

6.1.9 DETAILED BUDGET AND PROCUREMENT SCHEDULES

The budget planned for environmental monitoring is given below.

Table 6.3 - Environmental Management Plan Budget

Sl. No	Budget planned for	Capital Cost Amount (INR)	Recurring Cost/Annum Amount (INR)
1	Air Environment	8.43	0.99
2	Noise Environment	0.30	0.02
3	Waste Management	0.25	0.12
4	Mine Closure	3.39	0.08
5	Implementation of EC, Mining Plan & DGMS Condition	0.67	0.73
Total		**13.04**	**1.94**

Total EMP Cost for 10 years is 37.44 lakhs i.e., Rs.13.04 Lakhs of Capital Cost+ Rs.24.40 Lakhs of Recurring Cost (For 10 Years).

CHAPTER 7
ADDITIONAL STUDIES

The following Additional Studies were done as per items identified by project proponent and the regulatory authority.

- Public Consultation
- Risk Assessment
- Disaster Management Plan
- Cumulative Impact Study
- Mine Closure Plan
- Slope Stability Plan

7.1 PUBLIC CONSULTATION

This draft EIA/EMP report will be exposed to public consultation as per mandatory procedures through the District Collector and State Pollution Control Board officials after giving 30 days advance notice in two local newspapers about the scheduled date and time for conduct of the public hearing procedures. The opinions, concerns and objections of stakeholders will be recorded during the public hearing. All the public queries and the replies to the query by the project proponent and officials concerned will be recorded and incorporated in the EIA/EMP report for approval by SEIAA, Tamil Nadu.

7.2 RISK ASSESSMENT

The DGMS risk assessment process is intended to identify existing and probable hazards in the work environment and all operations and assess the risk levels of those hazards in order to prioritize those that need immediate attention. Further, mechanisms responsible for these hazards are identified and their control measures, set to timetable are recorded along with pinpointed responsibilities. The whole quarry operation will be carried out under the direction of a Qualified Competent person holding certificate of competency to manage a metalliferous mine granted by the DGMS. Factors of risks involved due to human induced activities in connection with this proposed mining & allied activity with detailed analysis of causes and control measures for the mine is given in below Table 7.1.

Table 7.1 Risk Assessment and Control Measures

S.NO	Risk Factor	Causes of risk	Control Measures
1	Accidents due to explosives and heavy mining machineries	Improper handling and unsafe working practice	• 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. • Fire-fighting and first-aid provisions in the mine office complex and mining area. • Provisions of all the safety appliances such as safety boot, helmets, goggles etc. will be made available to the employees and regular check for their use. • Quarry operation will be done as per approved mining plan and other applicable statutory guidelines issued by DGMS, Dept. of Mining & Geology-Tamil Nadu. • Handling of explosives, charging and firing shall be carried out under competent statutory persons. • A comprehensive standard operating procedure (SOP) will be prepared as per DGMS guidelines and the same will be circulated to all the employees and it will be strictly followed in the all face of mining operation.
2	Drilling	Improper and unsafe practices. Due to high pressure of compressed air, hoses may burst. Drill Rod may break.	• Safe operating procedure established for drilling (SOP) will be strictly followed. • Only trained operators will be deployed.

			• No drilling shall be commenced in an area where shots have been fired until the blaster/blasting foreman has made a thorough Examination of all places. • Drilling shall not be carried on simultaneously on the benches at places directly one above the other. • Periodical preventive maintenance and replacement of worn-out accessories in the compressor and drill equipment as per operator manual. • Drills unit shall be provided with wet drilling to ensure efficient working.
3	Blasting	Fly rock, ground vibration, Noise and dust. Improper charging, stemming & Blasting/ fining of blast holes. Vibration due to movement of vehicles.	• Restrict maximum charge per delay as per approved mining plan. • Proper blasting design with optimum spacing & burden, Charge per delay and stemming. • SOP for Charging, Stemming & Blasting/Firing of Blast Holes will be followed by blasting crew during initial stage of operation. • Shots are fired during day time only. • Charging and firing shall be carried out in the same day. • Siren will be done for each blasting. Blasting evacuation plan prepared and executed. • The danger zone will be distinctly demarcated (by means of red flags).
5	Transportation	Potential hazards and unsafe workings contributing to accident and injuries. Overloading of	• Before commencing work, drivers personally check the dumper/truck/tipper for oil(s), fuel and water levels, tyre inflation, general cleanliness and inspect the brakes, steering system,

		material. While reversal & overtaking of vehicle. Operator of truck leaving his cabin when it is loaded.	warning devices including automatically operated audio-visual reversing alarm, rear view mirrors, side indicator lights etc., are in good condition. Unauthorized person will not be allowed to operate or ride on the vehicle. • Loading according to the vehicle capacity. • Periodical maintenance of vehicles as per operator manual.
6	Natural calamities	Unexpected happenings	• An emergency management plan will be prepared considering all possible national calamity and the same will be executed if any such situation occurs. • Escape Routes will be provided to prevent inundation of storm water. • Fire Extinguishers & Sand Buckets in the designated areas.
7	Failure of Mine Benches and Pit Slope	Slope geometry, Geological structure	Ultimate or over all pit slope shall be below 60° and each bench height shall be 5m height.

7.3 DISASTER MANAGEMENT PLAN

This being a small rough stone project that too working in a safe area, no major disaster is expected after following all the statutory rules and regulations.

7.3.1 MODEL DISASTER MANAGEMENT PLAN

The lessee has formulated the disaster Management plan keeping all eventualities in mind.

The mining operation will be carried out under the direction of qualified mines manager and supervisors, based on the guidelines and directions of Directorate General of Mines Safety (DGMS) and Indian Bureau of Mines. Code of practice of different operations will be formulated to ensure safety of men and machines and to avoid various hazards mentioned above. Mine workers will be provided training on safe work practices. The following natural/ industrial hazards may occur during normal operation; slope failure at the mine faces; accident due to heavy equipment/ machinery.

In order to prevent or take care of hazard / disasters if any the following control measures have been adopted.

- All safety precautions and provisions of Metalliferous Mines Regulations (MMR), 1961 is strictly followed during all mining operations.
- Observance of all safety precautions for blasting and storage of explosives as per MMR 1961.
- Entry of unauthorized persons into mine & allied areas is completely prohibited.
- Fire-fighting and first-aid provisions in the mines office complex and mining area are provided.
- Provisions of all the safety appliances such as safety boot, helmets, goggles, dust masks, ear plugs and ear muffs etc. are made available to the employees and the use of same is strictly adhered to through regular monitoring.
- Training and refresher courses for all the employees working in hazardous

premises. Working of mine, as per approved plans and regularly updating the mine plans.

- Handling of explosives, charging and blasting are carried out only by qualified persons following SOP.
- Checking and regular maintenance of garland drains and earthen bunds to avoid any inflow of surface water in the mine pit.
- Provision of high-capacity standby pumps with generator sets with enough quantity of diesel for emergency pumping especially during monsoon.
- A blasting SIREN is used at the time of blasting for audio signal.
- Before blasting and after blasting, red and green flags are displayed as visual signals. Warning notice boards indicating the time of blasting and NOT TO TRESPASS are displayed at prominent places.
- Regular maintenance and testing of all mining equipment were carried out as per manufacturer's guidelines.

7.3.2 OBJECTIVE OF DISASTER MANAGEMENT PLAN

The objective of disaster management plan is to identify mitigation measures to avoid hazards turning in to risk, the materials required for implementing the same, the personnel requirement and their roles and responsibilities, and the communication and operating procedures to be adopted in case of an emergency.

Communication System

The telephone numbers and addresses of mine sites in the vicinity, nearest fire station, police station, local hospital, electricity department, ambulance, and local public representatives and revenue officials shall be prepared and kept in custody of PP.

Facilities

The office shed will have provision of first aid centre to provide first aid in the event of an emergency. The office shed will also function as emergency control room. It will

be provided with telephone and mobile phones, and a vehicle for emergency transport.

Personnel

The PP is responsible for overall supervision of the disaster management plan. He will be assisted by supervisors, in implementing the emergency management plan and procedures.

Operating Procedures

The operating procedures during emergencies are related communication to the immediate supervisor, who would relay the same to PP. The PP may assess the requirement of first aid, external assistance, transportation to nearby hospital contingent on the emergency. In the absence of mines manager, the senior most supervisor will be made responsible for disaster management.

7.4 CUMULATIVE IMPACT STUDY

There is one proposed quarry are located within a radius of 500 m from this proposed project area. The proposed quarries situated within 500 m radius are presented in below Table 7.2 and the letter received from Dept. of Geology and Mining, Virudhunagar stating the quarries detail within 500m radius is enclosed in Annexure – 4.

Table 7.2 Details of Quarries within 500m radius

S.No	Name of the Quarry Owner	S.F. Nos & Village	Lease Status	Area In Ha
a. Abandoned Quarries: Nil				
b. Existing Quarry				
1.	Thiru.P.Devaraj, S/o.Palanisamy Gounder, D.No.30, Thirukumaran Nagar, Singanallur, Coimbatore	160/1(P) Thathanaickenpatti	13.09.2021 To 12.09.2026	2.00.0

2	Thiru. S.Manikandan, S/o.Sooriyamoorthi No.2/227, Kallar Street, Karambaviduthy, Karambakkudi Taluk, Pudukottai District	SEIAA EC FILE NO. 8280 49(P) Thathanaickenpatti	23.11.2021 to 22.11.2026	1.20.0
c. Present Proposed Quarry				
1.	Tmt.S.Thamayanthi, W/o.Shanmugam. No.1/132, Kannamma Agam, R.G.Nagar, Chenniyampalayam, Tirupur	47/1(P), 47/2(P) & 47/3(P) Thathanaickenpatti	Applied area	1.75.0
2.	Thiru.P.Manikandan, S/o.Perumalsamy, Door No.7/68, Kinathukadavu, Karachery, Coimbatore	157/2 Thathanaickenpatti	Present Applied area	1.48.0
Total Area of Cluster				**6.43.0 Ha**

As seen above, although the individual lease area of this project is less than 5 hectares, the one proposed quarry within a 500-meter radius, add up to more than 5 hectares i.e. 6.43.0 Ha. A map showing the existing and proposed quarry located within 500m radius is given in Figure 1.1.

The cumulative production load of existing and proposed Rough stone and Gravel quarries within cluster is shown in below table.

Table 7. 3 Salient Features of Existing & Proposed Quarries

Description		P1	P2
Name of the Quarry	-	Thiru.P.Manikandan,	Tmt.S.Thamayanthi
Geological Resources in Ts	Rough stone	1220175 Ts	2165625
	Gravel	59160 Ts	70000
Mineable Reserves in Ts	Rough stone	433345 Ts	704605
	Gravel	42884 Ts	52400
Five years plan period as in the approved mining plan	Rough stone	303765 Ts	418770
	Gravel	42884 Ts	52400
Ten years plan period as in the approved mining plan	Rough stone	129580 Ts	285835
	Gravel	-	-
Production in Ts	Peak Production – rough stone	61490	110247.5
	Gravel	21584	17600
Total Production per day in tons		55.38	85.23
Lorry Loads per day in Nos	-	277	435
Employment in Nos		14	23
Proposed Depth in meters		32 m	47 m
Status of the quarry		Proposed	Proposed

Description		E1	E2
Name of the Quarry	-	Thiru.P.Devaraj	Thiru. S.Manikandan
Geological Resources in Ts	Rough stone	478400 m3	4,72,800 m3
	Gravel	19136 m3	12,000 m3 – Top Soil
Mineable Reserves in Ts	Rough stone	170750 m3	1,37,140 m3
	Gravel	11000 m3	8,100 m3 – Top Soil
Five years plan period as in the approved mining plan	Rough stone	170750 m3	1,37,140 m3
	Gravel	11000 m3	8,100 m3 – Top Soil
Ten years plan period as in the approved mining plan	Rough stone	-	-
	Gravel	-	-
Production in Ts	Peak Production – rough stone	36875	35640 m3
	Gravel	7392	8100 m3 – Top Soil
Total Production per day in tons		29.51	29.16
Lorry Loads per day in Nos	-	3.0	3.0
Employment in Nos		10	18
Proposed Depth in meters		26	40.4
Status of the quarry		Existing	Existing

Air Environment

Based on the above production quantities the emissions due to various activities in 1 proposed mine includes various activities like ground preparation, excavation, handling and transport.

The data on the cumulative production resulting from the 1 project have been given in Tables 7.4.

Table 7.4 Cumulative Production Load

Mineral Transportation			
Production Per day in tons			
Quarry	**Quarry Name**	**Total Mineral in tons per day**	**No. of Lorry Load per day**
P1 (Proposed)	Thiru.P.Manikandan	277	28
P2 (Proposed)	Tmt.S.Thamayanthi	435	44
Total		**712**	**72**

As two quarries already exist, they are part of the current traffic. The proposed project will bring 72 trips per day. The existing road can absorb this additional traffic due to this project. Various measures like proper maintenance of road, covering of the loaded truck with tarpaulin, water sprinkling will be carried out to ensure no adverse impact on the logistical front. Traffic density study is detailed in section 2.11 of Chapter 2.

Cumulative Impact on Socio-economic Environment

The mining operations in the 4 mines will provide direct employment opportunity and indirect employment opportunity for scores of people through allied opportunities in logistics, contract workers, trading, repairing works etc. Various mitigative measures suggested in this report will be properly implemented to ensure that no adverse impact is felt on the socio economic and ecological front in the area.

7.5 CLUSTER MINE CLOSURE PLAN

In the mine closure stage, all necessary measures will be taken as per Act & Rules, there is no proposal for back filling, reclamation and rehabilitation in any of the proposals. The quarried pits after the end of life of mine will be properly fenced all around to prevent inherent entry of public and cattle and all the statutory requirements will be fulfilled. As already explained, in the post mining stage the rainwater harvested in the mined - out void shall be utilized for irrigation and domestic needs locally. The mine closure plan is provided in Figure 2.11.

7.6 SLOPE STABILITY PLAN

The factors that affect slope stability of the mine are detailed below.

- Geological structure comprising dip, intervening shear zone formation, clay intrusion, joints / discontinuities, faults etc.,
- Lithology of formation
- slope geometry
- Ground water availability which may cause increased thrust on the faces

Site Specific Analysis

- The quarry lease area is plain terrain which is covered by topsoiled rock formation. The rock type noticed in the lease area is Charnockite which contains mostly Quartz and Feldspar with some ferromagnesian.
- Since the formation is of homogeneous rock type probability of slope failure is low and can be avoided if proper measures are adopted.
- There will be a 7.5m and 10m safety zone which will form a ridge which can also take care of the top section and as such no risk is envisaged on this front.

Mitigation Measures

- Regular inspection of the mine faces to be carried out by pp for ensuring absence of any structural features like faults, joints, dyke, intrusive material in the rock strata which may affect the slope stability and cleared.

- No loose material or boulders is to be stacked on the mine top or pit benches.
- Height of the benches should be 5m.
- Haul road formation will be at 1 in 15 slope with adequate road width.
- There will be no ground water table intersection.
- No seepage is expected due to formation. Adequate drainage management system comprising peripheral garland drain, settling pond to regulate monsoon water will be created to prevent saturation of compact layers, apparent drainage over the bench slope to avert damages to quarry face and manage the water flow.

CHAPTER 8

PROJECT BENEFITS

The project area is located on barren land, thereby causing no impact on the loss of agriculture or forest land. The project will create employment opportunities in the area. There will be no adverse effect of mining on the socioeconomic status of the people; rather, mining activities will improve their standard of living. The mining activity creates employment opportunities for the local people, and this definitely raises their economic status. Apart from the overall beneficial impact of the project on the local people of the region, it is felt necessary to augment facilities in the fields of education, health, and social awareness, including concern for the environment and ecosystem.

The mining activity at proposed Rough Stone and Gravel Quarry of Thiru.P.Manikandan will create direct employment opportunity for 27 local peoples.

Based on the request letter received from Panchayat Union primary School, Thathanaickenpatti North village, the PP has proposed CER amount of Rs. 5.0 Lakhs for various activities.

The list of activities proposed for CER is mentioned below

Table 8.1 CER Activities

S. No.	PROPOSED CER ACTIVITIES	COST IN LAKHS.
1	Carrying out of various infrastructural development activities	5.0
Total		**5.0**
The above proposed CER activities will be implemented in Panchayat Union primary School, Thathanaickenpatti North village, before the commencement of quarrying operations. CER Organizer number - 9842896223		

****

CHAPTER 9

ENVIRONMENTAL COST BENEFIT ANALYSIS

As per EIA Notification dated 14th Sept., 2006, as amended from time to time, 'Environmental Cost Benefit Analysis' is applicable only if the same is recommended at the Scoping stage.

As per the ToR points issued by SEIAA-TN vide ToR Identification No. TO26B0108TN5682646N (F. No. 13828), Dated: 24/07/2026 for the proposed project, the 'Environmental Cost Benefit Analysis' is not prescribed.

*****

CHAPTER 10

ENVIRONMENTAL MANAGEMENT PLAN

10.1 DESCRIPTION OF THE ADMINISTRATIVE ASPECTS OF ENSURING OF ENSURING THAT MITIGATIVE MEASURES ARE IMPLEMENTED AND THEIR EFFECTIVENESS MONITORED AFTER APPROVAL OF THE EIA

10.1.1 OBJECTIVES

The Environmental Management Plan is developed to ensure that a project is implemented in an environmentally sustainable manner, where all contractors and subcontractors, including consultants, understand the potential environmental risks arising from the project and take appropriate actions to minimize those risks. EMP also ensures that the project implementation is carried out in accordance with the planned design and by taking appropriate mitigation measures to reduce adverse environmental impacts during the project's life cycle. The impacts due to this mining project are detailed in Chapter 4 and Mitigation measures at the source level and an overall Management Plan at the site level are elaborated on in this chapter.

10.1.2 BASIC OF EMP

The Environmental Management Plan for the proposed project activities is formulated taking into considerations the following key environmental issues.

- Project activities
- Studies on Environmental Impact Assessment
- Air & water pollution control
- Working zone environment improvement
- Occupational hazards & safety
- Environmental monitoring facilities
- Environmental management costs

EMP covers all phases of the project considering the impacts with mitigation measures and monitoring programme. The plan outlines the measures that will be undertaken to ensure compliance with environmental legislations and to minimize adverse impact. Details of EMP measures for implementation in the mine are given below.

Table 10.1 Environmental Management Plan

Environmental Parameter	Mitigation Measures
Air	Wet drilling to suppress the dust emission from drill machine
	Regular water sprinkling on haulage road through fixed water sprinkler.
	2.0 KLD of water will be used for dust suppression.
	Avoiding blasting during high wind period, night times and temperature inversion periods.
	Regular grading of haul road to clear accumulation of loose material.
	It will be ensured that vehicles are properly maintained to comply with exhaust emission requirements
	Maintenance as per operator manual of the equipment and machinery in the mines to minimizing air pollution
	Ambient Air Quality Monitoring carried out in the project area and in surrounding villages to access the impact due to the mining activities and the efficacy of the adopted air pollution control measures.
	Afforestation for control of dust.
Surface water	Odai – 360m (S), 400m (N), Tank – 380m (N), 1.56Km (W), 1.56 Km (SW), 1.36 Km (S), 1.33 km (NE), Amaravathi River – 6.9Km (NW), river – 6.6 KM (E)
	Surface runoff management structures like garland drain of required length which is connected to a settling pond will be constructed around the quarry to collect the rain water. Monthly or after rainfall, inspection will do to ensure performance of water management structures and systems. There is no discharge of any effluent into nearby water bodies.
Ground Water	The quarrying operation is proposed upto a depth of 32 m below ground level for first five years & 32 m below ground level for second five years, Water table is found at a depth of 82 m, hence the project will not intersect the Ground water table during entire quarry period.
Water Consumption and Wastewater generation	Water required for this project will be sourced from vendors.
	Domestic wastewater generation of 1.5 KLD will be treated in septic tank with soak pit.
	Conduct ground water and surface water monitoring for parameters specified by CPCB

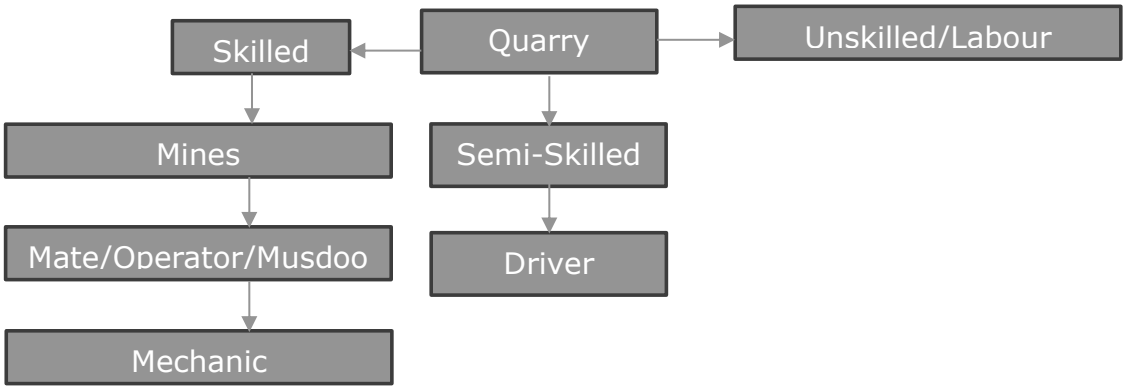
Noise	The workers employed are provided with protection equipment, earmuffs and ear- plugs for the protection from high noise level generated at the mine site wherever required.
	Noise levels are controlled by using optimum explosive charge, proper delay detonators and proper stemming to prevent blow out of holes.
	Development of thick greenbelt all along the safety Zone (7.5m and 10m) of the project area to attenuate the noise and the same will be maintained.
	Preventive maintenance of mining machinery and replacement of worn-out accessories to control noise generation.
	Annual ambient noise level monitoring is carried out in the project area and in surrounding villages to access the impact due to the mining activities and the efficacy of the adopted noise control measures. Additional noise control measures will be adopted if required as per the observations during monitoring.
Ground Vibration and Fly Rock Control	Controlled blasting using delay detonators will be carried out to maintain the PPV value well within the prescribed standards of DGMS.
	Drilling and blasting will be carried under the supervision of qualified persons.
	Will be Ensured that blast holes are adequately stemmed for the depth of the hole and stemmed with suitable angular material.
	To be Undertake noise or vibration monitoring.
Land Environment	At conceptual stage, the mining pits will be converted into Rain Water Harvesting pit. Remaining area will be converted into greenbelt area.
	No external dumping i.e., outside the project area. The entire material will be sold.
	Garland drains with catch pits / settlement traps to be provided all around the project area to prevent run off affecting the surrounding lands.
	The periphery of Project area will be planted with thick plantation to arrest the fugitive dust, which will also act as acoustic barrier.
	Frequent Soil and ground water testing as per Environmental Monitoring Plan.
Top Soil / Overburden	There is no overburden anticipated during the quarrying operation.
Biological Environment	During mining, thick plantation will be carried out on the mentioned safety zone areas.
	The main attributes that retard the survival of sapling is fugitive dust, this fugitive dust can be controlled by water sprinkling on the haul roads and installing a sprinkler unit near the newly planted area.
	Regular review on green belt development programme.
	Year wise greenbelt development plan mentioned in Chapter III will be monitored.

10.1.3 ADMINISTRATION AND TECHNICAL SETUP

Since this is a very small quarry, the mines in-charge will take care of all environment related aspects. He will ensure effective implementation of environment management plan and to ensure compliance of environmental statutory guidelines through Mine Management Level. The action plan for monitoring consists of monitoring of following environmental components.

- Monitoring of the water/ waste water quality, air quality and solid waste generated.
- Analysis of the water and air samples collected through external laboratory.
- Implementation and monitoring of the pollution control and protective measures/ devices which shall include financial estimation, ordering, installation of air pollution control equipment, waste water treatment plant, etc.
- Co-ordination of the environment related activities within the project as well as with outside agencies.
- Collection of health statistics of the workers and population of the surrounding villages.
- Green belt development.
- Monitoring the progress of implementation of the environmental monitoring programme.
- Compliance to statutory provisions, norms of State Pollution Control Board, Ministry of Environment and Forests and the conditions of the environmental clearance as well as the consents to establish and consents to operate.

Fig. 10.1 Organization Chart



1.	Skilled	Mines Manager	1 Nos.
		Foreman / Mate	2 Nos.
		Operator	8 Nos.
		Mechanic	1 Nos.
2.	Semi–skilled	Driver	3 Nos.
3.	Unskilled	Labours	12 Nos.
Total			**27 Nos**

10.1.4 ENVIRONMENTAL POLICY

- The Project Proponent has stipulated a well-defined Environmental policy by which the lessee is committed to conducting business with a strong environmental conscience towards the community, customers, and employees. The Environment policy is given as below.
- The Environment policy of "Rough Stone and Gravel Quarry" of Thiru.P.Manikandan is that the rules and commitment are driven towards conservation of the environment.
- The lessee is committed to efficient use of natural resources based on the reduce, recycle and reuse method.
- The project is committed to the identification of possible impacts and will take the necessary management steps to mitigate the impacts.

- Environment performance will be regularly monitored and reported for continual improvement of our environment and health performance.

10.1.5 OCCUPATIONAL SAFETY & HEALTH MANAGEMENT

Occupational safety and health are very closely related to productivity and a good employer-employee relationship. The main factors affecting occupational health in quarries are fugitive dust and noise. Safety of employees during quarrying operations and maintenance of mining equipment will be taken care of as per the Mines Act 1952 and Rule 29 of the Mines Rules 1955. To avoid any adverse effect on the health of workers due to dust, noise, and vibration, sufficient measures have been provided. The health status of workers in the mine will be regularly monitored under an occupational surveillance programme. Under this programme, all employees are subjected to a detailed medical examination at the time of employment. Before the induction of employees, a pre-medical checkup is done. In addition, a periodical medical checkup will be done annually for all employees.

10.1.6 COST OF ENVIRONMENTAL CONTROL MEASURES

The effective implementation of EMP is not only reduce pollution load and comply the regulatory requirement but also increase productivity and improve marketability of product. The capital and recurring cost of EMP for the cluster of mines has been given in below table.

Table 10.2 - Environmental Management Plan Budget

Sl. No	Budget planned for	Capital Cost Amount (INR)	Recurring Cost/Annum Amount (INR)
1	Air Environment	8.43	0.99
2	Noise Environment	0.30	0.02
3	Waste Management	0.25	0.12
4	Mine Closure	3.39	0.08
5	Implementation of EC, Mining Plan & DGMS Condition	0.67	0.73
Total		**13.04**	**1.94**

Total EMP Cost for 10 years is 37.44 lakhs i.e., Rs. 13.04 Lakhs of Capital Cost+ Rs. 24.40 Lakhs of Recurring Cost (For 10 Years).

10.1.7 CONCLUSION

Various aspects of mining activities were considered, and related impacts were evaluated. Considering all the possible ways to mitigate the Environmental concerns, an Environmental Management Plan was prepared, and INR 37.44 lakhs has been allocated for the same. The EMP is dynamic, flexible, and subjected to periodic review. For projects where major environmental impacts are associated, EMP will be under regular review. Thus, the proper steps will be taken to accomplish all the goals mentioned in the EMP, and the project will have a positive impact on the study area.

CHAPTER 11

SUMMARY& CONCLUSION

11.1 OVER ALL JUSTIFICATION FOR IMPLEMENTATION OF THE PROJECT

INTRODUCTION

Thiru.P.Manikandan has obtained Precise Area Communication Letter from Assistant Director, Department of Geology and Mining, Dindigul to quarry out of Total production of Rough Stone is 1,57,580 m^3 & Gravel is 21,442 m^3 (3,03,765 Ts / 1,10,460 m^3 Of Rough Stone & 42,884 Ts / 21,442 m^3 Of Gravel for First Five Years And 1,29,580 Ts / 47,120 m^3 Of Rough Stone for Second Five Years) over an extent of 1.48.00 Ha located in S.F.No. 157/2 of Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State.

As per EIA notification, 2006 and its subsequent amendments the proposed "Rough Stone and Gravel Quarry of Thiru.P.Manikandan mines cluster falls under Schedule 1(a) of EIA Notification and its subsequent amendments the project comes under Category B1. The ToR for preparation of EIA/EMP report of the project was approved vide ToR Identification No. TO26B0108TN5682646N (F. No. 13828), Dated: 24/07/2026. This report has been prepared in line with the approved TOR for production of maximum excavation of Total production of Rough Stone is 1,57,580 m^3 & Gravel is 21,442 m^3 (3,03,765 Ts / 1,10,460 m^3 Of Rough Stone & 42,884 Ts / 21,442 m^3 Of Gravel for First Five Years And 1,29,580 Ts / 47,120 m^3 Of Rough Stone for Second Five Years).

S.No.	Description	Status/Remarks
1.	Sector	1(a), non-coal mining
2.	Category of the project	B1
3.	Proposed mineral	Rough Stone
4.	Type of Lease	Fresh Quarry
5.	Extent of the lease	1.48.00 Ha
6.	Proposed depth of Mining	32 m below ground level for 10 years
7.	Method of mining	Opencast semi Mechanized

8.	Proposed lease period	10 Years
9.	Proposed Environmental Clearance	10 Years
10.	Proposed production quantity	Total production of Rough Stone is 1,57,580 m^3 & Gravel is 21,442 m^3 (3,03,765 Ts / 1,10,460 m^3 Of Rough Stone & 42,884 Ts / 21,442 m^3 Of Gravel for First Five Years And 1,29,580 Ts / 47,120 m^3 Of Rough Stone for Second Five Years)

The Lessee Thiru.P.Manikandan is an individual with sound experience in the identification, quarrying and marketing of Rough Stone and Gravel. The proposed land is a Consent Patta land and attached as **Annexure 6.**

11.1.1 LOCATION

This project site is located in Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State with northern Latitude: 10°28'08.96"N to 10°28'12.45"N, Eastern Longitude :77°25'26.50"E to 77°25'32.65"E with Survey of India Topo Sheet No. 58 F/ 07. To conduct the study, the proposed mine lease area (core zone) and an impact zone of 10 km radius (called buffer zone) around the proposed mine site were considered. The EIA report is based on three months baseline data (i.e. March 2026 to May 2026)

11.1.2 GEOLOGY

The rock type noticed in the area for lease is Charnockite which contains mostly Quartz and Feldspar with some ferromagnesian minerals. The Charnockite is part of peninsular Gneisses, a high-grade metamorphic rock. The strike of the Charnockite formation is $N45^0E$-$S45^0W$ with dipping towards $SE60^0$.

11.1.3 PROJECT DESCRIPTION

This is a proposed Rough Stone quarry by Opencast Mechanized mining method with drilling and blasting. The quarrying is restricted up to a depth of 32m below ground level. The geological reserves are estimated to be 12,20,175 Ts / 4,43,700 m3 of Rough Stone and 59,160 Ts / 29,580 m3 of Gravel. The mineable reserve calculated

by deducting 7.5 m and 10 m safety distance and bench loss. The mineable reserves are 4,33,345 Ts / 1,57,580 m3 of Rough stone and 42,884 Ts / 21,442 m3 of Gravel which will be recovered at the rate of 100% recovery upto a depth of 32m below ground level for the period of 10 years.

- It is proposed to quarry out rough stone with 5m bench height, 5m width with 45° slope using conventional Open cast Mechanized method. The quarry operation involves shallow jack hammer drilling, slurry blasting, excavation, Loading and transportation of Rough Stone.
- There is no overburden anticipated during entire rough stone quarrying operation.

S.No.	Type of Detail	Description
1	Sector	1(a) Non coal mining
2	Fresh/Existing project	Fresh Quarry
3	Category	B1
4	Nature of mineral	Minor mineral
5	Production	Total production of Rough Stone is 1,57,580 m3 & Gravel is 21,442 m3 (3,03,765 Ts / 1,10,460 m3 Of Rough Stone & 42,884 Ts / 21,442 m3 Of Gravel for First Five Years And 1,29,580 Ts / 47,120 m3 Of Rough Stone for Second Five Years)
6	Life	10 years
7	Waste generation and management	There is no overburden anticipated during the quarrying operation. Hence, no waste generation.
8	Bench height and width	Height and Width – 5m
9	Ultimate pit depth	32 m below ground level
10	End use	Rough Stone will be loaded into tippers to needy buyers for producing aggregates, M-sand.

11.1.4 PROJECT REQUIREMENTS

The requirements of the project is given below.

S.No.	Nature of requirement	Description

1	Water requirement	Total water requirement of 5.0 KLD which will be procured from the outside agencies. Out of 1.5 KLD drinking water requirements, Green belt development is 1.5 KLD and dust suppression is 2.0 KLD.
2	Power requirement	No electricity is needed for mining operations, for office demands, it will be met from the state grid. Total Fuel requirement is 1,29,638 (L) for entire life of the project.
3	Manpower requirement	Total Manpower – 27 Nos.
4	Financial requirement	The total project cost as per PFR will be INR 105.82 lakhs including Operational cost, Fixed Asset cost and EMP cost
5	Funds for Socio economic development	INR 5.0 Lakhs is allocated. In addition, any demand raised by people during public hearing will also be met.

11.1.5 DESCRIPTION OF LEASE AREA

The features in the study area is given below.

Table 11.1 Description of the lease area

S.No.	Areas	Distance from project site
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Nil within 15km radius
2	Areas which are important or sensitive for ecological reasons	
A	Wetlands, water courses or other water bodies,	Odai – 360m (S), 400m (N), Tank – 380m (N), 1.56Km (W), 1.56 Km (SW), 1.36 Km (S), 1.33 km (NE), Amaravathi River – 6.9Km (NW), River – 6.6 KM (E)
B	Coastal zone, biospheres,	Nil within 10km radius
C	Mountains, forests	Andipatti R.F – 7.8 Km (SW) Periyammapatti R.F – 8.4 Km (SE)

3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	Nil within 15km radius
4	Inland, coastal, marine or underground waters	Nil within 15km radius
5	State, National boundaries	Nil within 15km radius
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Nil within 15km radius
7	Defense installations	Nil within 15km radius
8	Densely populated or built-up area	Thatanaickenpatty North Habitation – 1.11 Km (NE)
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Thatanaickenpatty North Habitation – 1.11 Km (NE)
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Nil
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	Nil
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earth quakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions) similar effects	No. The area is not prone to earthquakes, floods, etc.

The baseline data collection for meteorology, air, water, noise and soil environments have been carried out during March 2026 to May 2026.

Air, water, noise and soil samples are collected and analyzed through NABL accredited lab.

11.2 EXPLANATION OF HOW ADVERSE EFFECTS HAVE BEEN MITIGATED

11.2.1 AIR ENVIRONMENT

The air monitoring has been carried out in 7 locations and the results are given below.

Table 11.2: Details Of Ambient Air Quality Monitoring Locations

S. No.	Station Code	Locations	Coordinates
1	AAQ 1	Within Mine Lease area	10°28'10.59"N & 77°25'29.15"E
2	AAQ 2	Velusamudram	10°27'54.57"N & 77°23'27.73"E
3	AAQ 3	Kasanayampatty	10°28'29.08"N & 77°26'12.31"E
4	AAQ 4	Ayyampalayam	10°29'11.83"N & 77°23'28.15"E
5	AAQ 5	Chinnakalayamputhur	10°28'10.70"N & 77°28'10.84"E
6	AAQ 6	Pappampatti	10°26'41.28"N & 77°24'12.48"E
7	AAQ 7	Neikarapatti	10°26'45.60"N & 77°27'40.93"E

All the values of pollutant concentrations were found to be within the NAAQs Standards.

Station ID	Min	Max	Avg
Particulate matter PM-$_{2.5}$ ($\mu g/m^3$)			
AAQ-1	23.2	35.2	29.5
AAQ-2	20.8	26.4	23.6
AAQ-3	18.8	23.6	21.0
AAQ-4	23.4	30.0	26.6
AAQ-5	18.5	25.1	21.8
AAQ-6	19.5	29.4	24.1
AAQ-7	21.3	28.0	24.8
CPCB NAAQS 2009 for PM $_{2.5}$ - 60 $\mu g/m^3$			
Particulate matter PM-$_{10}$ ($\mu g/m^3$)			
AAQ-1	48.6	73.9	61.9
AAQ-2	45.5	57.9	51.8
AAQ-3	40.6	51.2	45.5
AAQ-4	48.8	62.5	55.3
AAQ-5	40.6	55.1	48.0
AAQ-6	41.8	61.4	51.4
AAQ-7	45.9	60.5	53.2
CPCB NAAQS 2009 for PM $_{10}$ - 100 $\mu g/m^3$			
Sulphur Di-oxide as SO_2 ($\mu g/m^3$)			
AAQ-1	6.5	8.9	7.7

AAQ-2	5.7	8.2	7.0
AAQ-3	5.1	7.5	6.3
AAQ-4	6.2	8.1	7.5
AAQ-5	4.9	7.3	6.1
AAQ-6	5.0	7.4	6.2
AAQ-7	5.0	6.5	5.6
CPCB NAAQS 2009 for SO_2 – 80 µg/m^3			
Oxide of Nitrogen as NO_2 (µg/m^3)			
AAQ-1	10.9	14.8	12.4
AAQ-2	9.8	13.0	11.1
AAQ-3	7.7	11.7	9.4
AAQ-4	10.1	13.3	11.5
AAQ-5	7.9	11.5	9.3
AAQ-6	7.7	11.1	9.1
AAQ-7	11.1	13.4	12.3
CPCB NAAQS 2009 for NO_2 – 80 µg/m^3			

11.2.2 WATER ENVIRONMENT

S.No	Parameter	Unit	SW1	SW2	Surface water standards (IS 2296 Class-A)
1	Odour	-	AGREEABLE	AGREEABLE	-
2	Turbidity	NTU	143.48	80.18	1
3	pH at 25 ˚C	-	7.56	7.69	6.5-8.5
4	Electrical Conductivity	µs/cm	372.5	280.6	-
5	Total Dissolved Solids	mg/l	224	168	500
6	Total hardness as CaCO3	mg/l	73.2	98.7	300
7	Calcium as Ca	mg/l	15.4	28.2	-
8	Magnesium as Mg	mg/l	8.41	6.85	-
9	Calcium as CaCO3	mg/l	38.6	70.5	200
10	Magnesium as CaCO3	mg/l	34.6	28.2	200
11	Total alkalinity as CaCO3	mg/l	104.0	64.9	-
12	Chloride as Cl-	mg/l	71.5	40.6	250
13	Free Residual chlorine as Cl-	mg/l	BDL (D.L - 0.2)	BDL (D.L - 0.2)	-
14	Sulphates as SO42-	mg/l	40.5	43.2	400
15	Iron as Fe	mg/l	0.62	0.44	0.3
16	Nitrate as NO3	mg/l	1.44	1.58	20
17	Fluoride as F	mg/l	0.38	0.33	1.5
18	Manganese as Mn	mg/l	BDL (D.L - 0.05)	BDL (D.L - 0.05)	0.5

19	COD	mg/l	38.9	41.5	
20	BOD	mg/l	7.6	8.6	2
21	DO	mg/l	6.2	6.4	6
22	TSS	mg/l	26	18	

The samples were analyzed by Shrient Analytical & Research Labs Private Limited; Chennai and the results are summarized below.

Results of Ground Water sampling Analysis in 7 locations								Standards as Per IS 10500: 2012	
Parameter	**W1**	**W2**	**W3**	**W4**	**W5**	**W6**	**W7**	**Acceptable Limits**	**Permissible Limits**
Odour	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	Agreeable	Agreeable
Turbidity	<1	<1	<1	<1	<1	<1	<1	1	5
pH at 25 ˚C	7.99	7.84	7.56	7.24	7.16	7.71	7.32	6.5- 8.5	No Relaxation
Electrical Conductivity	256.8	1079.0	1336.7	1316.6	1451.7	1072.9	1322.6	-	-
Total Dissolved Solids	154	650	802	790	872	644	794	500	2000
Total hardness as CaCO3	66.5	290	292	347	466	289	352	200	600
Calcium as Ca	18.9	78.4	45.7	79.8	103.4	78.9	78.4	75	200
Magnesium as Mg	4.67	22.84	43.25	35.97	50.45	22.30	37.91	30.0	100
Calcium as CaCO3	47.3	196	114	199	258	197	196	-	-
Magnesium as CaCO3	19.2	94.0	178.0	148	208	91.8	156	-	-
Total alkalinity as CaCO3	86.5	254	294	276	200	260	280	200	600
Chloride as Cl-	48.9	266	243	227	283	264	226	250	1000
Free Residual chlorine as Cl-	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	0.2	1
Sulphates as SO42-	13.20	120	230	164	208	117	166	200	400
Iron as Fe	0.06	0.05	0.06	0.14	0.13	0.05	0.15	0.3	No Relaxation
Nitrate as NO3	1.58	2.05	2.83	2.68	5.77	1.39	2.76	45	No Relaxation
Fluoride as F	0.22	0.34	0.59	0.38	0.65	0.38	0.42	1	1.5
Manganese as Mn	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	0.1	0.3

All the values were found to be within permissible limits.

11.2.3 NOISE ENVIRONMENT

Noise levels were measured in 7 locations and the results are given below.

Noise monitoring results					
S. No	**Location**	**Day equivalent**	**Night equivalent**	**Day equivalent limits by CPCB**	**Night equivalent limits by CPCB**
1	Within Mine Lease area	45.5	32.3	55	45
2	Velusamudram	44.5	31.3		
3	Kasanayampatty	50.5	43.3		
4	Ayyampalayam	53.8	41.5		
5	Chinnakalayamputhur	51.8	44.2		
6	Pappampatti	52.5	39.3		
7	Neikarapatti	45.8	33.5		

11.2.4 SOIL ENVIRONMENT

Soil samples are collected from 7 locations and the results are given below.

S.No	Parameter	Unit	S1	S2	S3	S4	S5	S6	S7
1	pH at 25 °C	-	7.12	6.58	7.14	7.96	7.07	6.48	7.94
2	Electrical Conductivity	µmhos/cm	95.8	122	186	184	199	146	182
3	Dry matter content	%	97.25	98.24	96.97	97.36	97.44	97.44	96.24
4	Water Content	%	2.56	1.76	3.03	2.64	4.93	2.54	2.64
5	Organic Matter	%	1.54	1.26	2.16	2.91	1.32	1.22	2.15
6	Soil texture	-	SILTY CLAY	CLAY	CLAY	SILTY CLAY	SILTY CLAY	CLAY	SILTY CLAY
7	Grain Size Distribution	%	2.69	5.52	8.19	7.88	6.26	5.46	7.98
	i. Sand	-	SILT LOAM	silty clay	silty clay loam	silt loam	silty clay loam	silt loam	loam
8	ii. Silt	%	53.65	16.21	30.24	54.22	48.93	15.90	55.60
9	iii. Clay	%	43.66	78.27	61.58	37.90	44.81	78.64	36.42
10	Phosphorous as P	mg/kg	1.45	0.86	2.06	1.36	1.96	0.86	1.42
11	Sodium as Na	mg/kg	690	512	590	960	667	504	952
12	Potassium as K	mg/kg	432	245	361	569	314	238	576

13	Nitrogen and Nitregenous Compounds	mg/kg	342	136	199	258	233	131	264
14	Total Soluble Sulphate	%	BDL	BDL	BDL	BDL	BDL	BDL	BDL
15	Porosity	%	30.6	46.2	35.1	35.1	46.2	45.3	35.8
16	Water Holding Cabacity	Inches/foot	44.0	41.3	41.1	46.4	42.2	42.2	47.1

11.2.5 BIOLOGICAL ENVIRONMENT

FLORA

For measuring the extent of flora present in the study area, the area is divided in to 4 quadrants. The flora population in each quadrant is summed up for the total population in the study area. Field survey is done. Erukku, Aavarai and Nayuruvi are found in lease area. In the buffer zone, common trees like Neem, papaya, mango, teak, etc and shrubs like Avarai, Aloe vera, etc, climbers like Kovai,jasmine etc are found.

FAUNA

In the study area, commonly found animals like dogs, cats, bush rat, cows, birds like crow, Myna, Sparrow, etc were found.

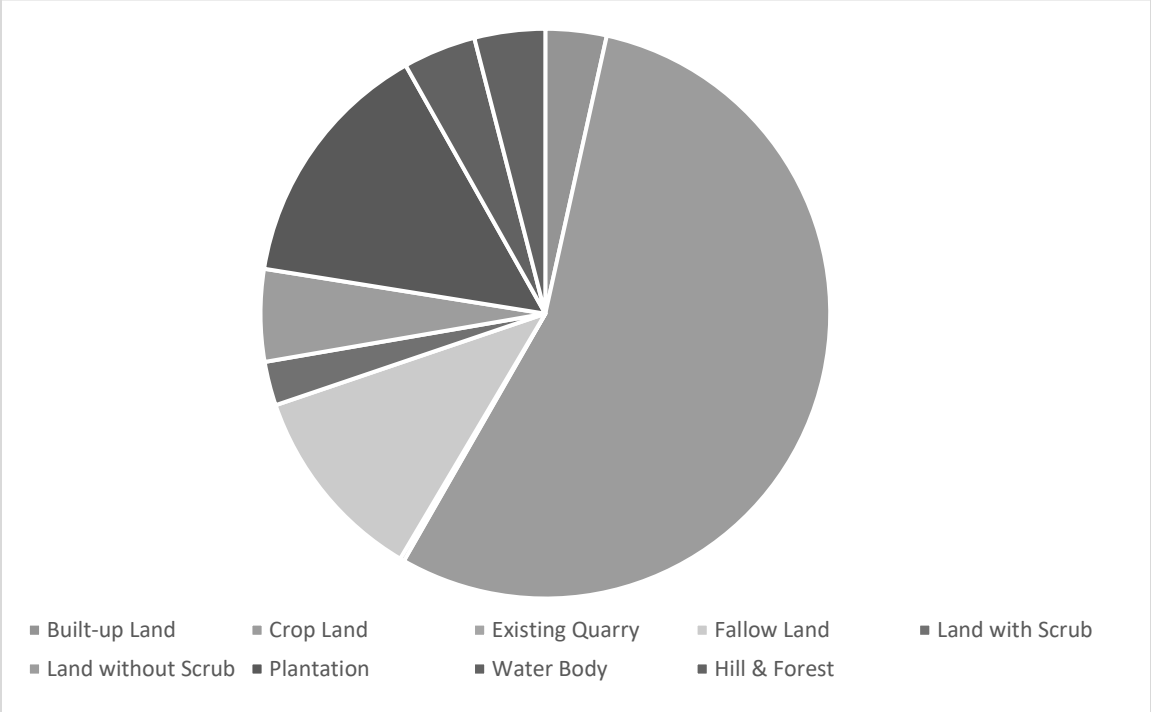
11.2.6 LAND USE

The land use land cover data is found using the LANDSAT – 9 satellite imagery. The number of bands used are 11. The land use pattern is given below:

Major Land Use Units of the Study Area in Percentage

S. No	1st Level Classification	Area in (sq.km)	Percentage (%)
1	Built-up Land	10.89	4.51
2	Crop Land	172.18	71.15
3	Existing Quarry	0.75	1.04
4	Fallow Land	35.44	1.87

5	Land with Scrub	7.84	1.66
6	Land without Scrub	16.44	6.29
7	Plantation	45.0	9.06
8	Water Body	13.01	4.42
9	Hill & Forest	12.61	4.01
Total		**314.16**	**100.0**



11.2.7 SOCIO ECONOMIC ENVIRONMENT

The socio-economic environment of the study area is studied by conducting primary sites through site visits and conducting sample surveys. The secondary data obtained from Census 2011 is also used.

The following data area collected from secondary data.

- Demographic pattern.
- Health pattern
- Occupational structure.
- Amenities available.

The expert visited nearby villages in the study area. Discussions were held with the people from nearby locality to study the social and economic conditions prevailing in the area. The expert also visited nearby hospitals and primary health centres. The following observations were made.

Primary schools are available in many villages. For hospital facilities, people in the locality have to go to hospital in Palani which is about 4.63 km (SW) from the lease area. Major schools with higher secondary and senior secondary schools are located in Palani. The major Palani Union located in the area is Dindigul. Facilities like petrol pump stations, ATM facility are available in Palani.

11.2.8 HYDROGEOLOGY OF THE LEASE AREA

There are two tanks located in the study area, which are mostly dry throughout the year. These tanks get water only during monsoons. The factors may be monsoon failure, insufficient rainfall, poor rain water management and water consuming patterns.

11.2.9 GROUND WATER STUDY

For Ground water study, satellite imagery is used. Water levels from monitoring levels are collected through imaging. The pre-monsoon and post-monsoon data are collected and the results are analyzed.

During field visit, it is observed that water is available in wells only after monsoon. The yield is obtained at deep levels only.

As far as the mining lease area is considered, the area is rocky and no major seepage is envisaged. The production quantity is very less and the depth proposed is 32 m below ground level. Hence, there will not be any major impact due to mining on water levels or ground water levels in the area.

11.3 ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

Environmental impacts on the following environments are identified.

- Land environment
- Water environment
- Vegetation
- Fauna
- Air environment
- Noise environment
- Socio-economic impacts

11.3.1 LAND ENVIRONMENT: IMPACT AND MITIGATION MEASURES

The major impact due to this project on land environment is the change in land use. Since this quarry is a small one and the production is less, mining activity will be carried out upto 32 m below ground level. Other than quarrying of minerals, no other change will be done since there is no dumping. To prevent soil erosion during monsoon season, garland drain will be constructed with silt traps. At the mine closure stage, 1.07.5 Ha of lease area will be left as rain water harvesting pond. 0.38.5 Ha will be developed with green belt. For this, plants like Pongamia Pinnata, Syzigium Cumini, Albizia Lebbeck, Thespesia Populnea, Bauhinia Racemose, Cassia Siamea, Azadirachta Indiaca are selected. A total of 385 trees are planned to be planted. Spacing will be 3m x 3m.

11.3.2 WATER ENVIRONMENT: IMPACT AND MITIGATION MEASURES

There is no water body present inside the lease area. The entire water requirement for the project is 5.0 KLD which will be sourced from outside agencies. Negligible sewage will be generated, for which a septic tank with soak pit will be set up.

During monsoon season, the excess rain water, if any, will be led through garland drain of 0.6m width and 0.3 m depth to the collection pond with silt traps.

Since the mining operation will be limited upto depth of 32m (below ground level), there will not be any seepage. However, the rain water percolation and collection of water from seepage shall be less than 300 lpm and it shall be pumped out periodically by a stand by diesel powered Centrifugal pump motivated with 7.5 H.P. Motor. The quality of water is expected to be potable. Hence, water stored in the quarry pit will be pumped into the adjacent agricultural fields. Further the water can also be used for plantation purposes

Since these water bodies are located outside the lease area and there is no discharge of effluent or any untreated water from the mines will be made in to these water bodies, there is no major impact. For the canal, adequate safety distance is left. The proponent will restrict the mining operation only within the lease and no other work will be carried out near the canal or any area outside the lease.

It is planned to carryout appropriate rainwater harvesting schemes and artificial recharge schemes in the area.

- Rain water falling in the quarry will be collected efficiently through garland drains.
- Water thus collected will be passed through collection tank with silt traps. This water can be used by the proponent for water sprinkling and for green belt purposes.
- Excess water after desiltation will be provided to downstream users, if any.

11.3.3 BIOLOGICAL ENVIRONMENT: IMPACT AND MITIGATION MEASURES

Impacts

- Fauna is affected due to noise and vibration.
- Dust generation due to mining activities
- Change in land use of the lease area
- Accidental falling of animals

Mitigation measures

- Sirens will be blown before blasting in the mines. To reduce noise levels, plantation will be done. Blasting will be carried out only in the allotted time.
- To reduce dust generation, mist sprayers will be used. During transportation, the material will be covered with tarpaulin. Water sprinkling will be done to reduce generation of pollutants
- After the mine closure stage, the mine pit will be left as rain water collecting tank, which can attract bird population in the nearby areas.
- To prevent entry of animals, the mining area will be properly fenced.

11.3.4 AIR ENVIRONMENT: IMPACT AND MITIGATION MEASURES

The major air pollutants due to mining operations are fugitive emissions like PM_{10}, $PM_{2.5}$. Other than these pollutants, gaseous emissions of sulfur dioxide (SO_2) and oxides of nitrogen (NO_x) due to excavation/loading equipment and vehicles plying on haul roads are the cause of air pollution in the project area.

The major impacts are Dust emission due to drilling, blasting and transportation. The major mitigation measures include Using Wet drilling methods, Allowing drilling only with PPE, Carrying out blasting only during specified times, Avoiding blasting during unfavourable weather conditions, Using explosives of good quality, Using mist sprayers Regular wetting of transport, Covering the materials carried in tippers with tarpaulin, Proper maintenance of vehicles used for transportation, Conducting regular emission tests for vehicles used for transport Development of greenbelt is proposed in the safety zone 7.5m barriers in the lease area.

The anticipated data is calculated using AERMOD software and the projected values are found to be within limits.

11.3.5 NOISE ENVIRONMENT: IMPACT AND MITIGATION MEASURES

Impacts

- Noise generation in mining is due to operation like drilling, blasting and transportation of minerals within and outside the lease area.

- As per DGMS (Directorate General of Mines Safety) and OSHA (Occupational Safety and Health Administration) limits, the acceptable noise level is 85 dB(A) for an exposure period of 8 hours.
- Exposure to loud noise can also cause high blood pressure, heart disease, sleep disturbances, and stress. Noise pollution also impacts the health and well-being of wildlife.
- Noise exceeding prescribed limits may cause impairment like abnormal loudness perception, tinnitus, which causes a persistent high-pitched ringing in the ears, paracusis or distorted hearing

Mitigation measures

- As the distance between the source and receptor increases, the noise level also decreases. Hence, there will be a natural attenuation
- The proposed has planned to develop green belt in the periphery of the lease area, which diminishes sound volume by dampening them.
- All the equipment/machinery/trucks involved will be properly maintained to control noise generation
- Conducting regular health checkups for employees involved
- Employees will be made to work on shifts to reduce their exposure time
- Providing earplugs to all employees

By adopting these measures, the noise levels will be maintained well within MoEFCC limits since the baseline value is low.

11.3.6 VIBRATION: IMPACT AND MITIGATION MEASURES

Impacts

- Though vibration will be only felt by the people working inside the lease area, it is usually undesired.
- Vibration may also cause flyrocks
- It may frighten the birds and small insects in the lease area. However, it will be felt only for a short period.

Mitigation measures

- Carrying out blasting on limited scale, only from 12:00 PM to 2:00 PM
- Control of fly rock and vibration by maintaining peak particle velocity with in standard as prescribed by the DGMS and MOEFCC.
- Shallow depths jackhammer drilling and blasting is proposed to be carried out with minimum use of explosive
- Supervising blasting by competent and statutory foreman/ mines manager

11.3.7 SOCIO ECONOMIC ENVIRONMENT

Impact and Mitigation measures

No land is acquired from anyone. No rehabilitation is needed. Hence, there is no negative impact. The proponent has planned to spend INR 5,00,000 for CER activities. This amount will be subjected to change after public hearing.

11.3.8 OCCUPATIONAL HEALTH

Impacts

Dust generation due to drilling and blasting, Noise generation due to drilling and blasting, unexpected accidents. Continuous exposure to dust causes Pneumonia, Tuberculosis, Rhematic arthritis and Segmental Vibration, Short term impact will be lack of sleep, high blood pressure and heart ailments. Long term exposure may lead to partial or permanent deafness, Risks include fly rocks, cracks or fissures due to improper mining methods

Mitigation measures

- Using dust suppression measures like water spraying on roads to reduce rise of air pollutants
- Providing green belt for air pollutant and noise attenuation
- Ensuring slope stability
- Employing only trained professionals for blasting
- Conducting Pre-Medical Examination for employees before inducting

- Conducting periodical Medical Examination once in 6 months.
- Making all first aid kits available in mines office
- Keeping fire extinguisher in place
- Educating the employees about how to handle unexpected happenings
- Posting information containing emergency contact numbers in mines office
- By adopting all these measures, the safety of the employees working in the quarry will be ensured.

11.3.9 ENVIRONMENTAL MONITORING PROGRAMME

Monitoring is done to measure the efficiency of control measures implemented. Regular monitoring of various environmental parameters like air, water, noise and soil environments is needed to assess the status of environment during the project operation. A schedule is framed with timeline to monitor various parameters during the operation of the project. To evaluate the effectiveness of environmental management programme, regular monitoring of the important environmental parameters will be taken up. Air monitoring will be carried out once in 3 months, water sample will be collected once in a season, noise will be monitored once in 3 months, soil samples will be analyzed once per season. For EMP, a budget of INR 37.44 Lakhs is allocated.

11.3.10 PROJECT BENEFITS

Financial benefits

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

Social benefit

- This project provides employment to 27 Nos. Local people will be hired for unskilled labour.
- Through CSR, nearby schools, hospitals will be benefitted.
- For CSR, INR 5,00,000 is allocated.
- Based on the demand of the people during public hearing, further funds will be allocated, if necessary.

Various aspects of mining activities were considered and related impacts were evaluated. Considering all the possible ways to mitigate the environmental concerns Environmental Management Plan was prepared and 37.44 lakhs for the ten years has been allocated as EMP cost. The EMP is dynamic, flexible and subjected to periodic review. For project where the major environmental impacts are associated, EMP will be under regular review. Thus, the proper steps will be taken to accomplish all the goals mentioned in the EMP and the project will bring the positive impact in the study area.

CHAPTER 12

DISCLOSURE OF CONSULTANTS

Global Mining Solutions is a NABET Accredited EIA consultant as per NABET certificate NABET/EIA/26-29/RA 0478. The registered office of Global Mining Solutions is at Plot No.6, S.F.No.13/2 A2, VS City, RC Chettypatty, Kottamettupatty, Omalur, Salem, Tamilnadu-636455.

Declaration by Experts contributing to the proposed Rough Stone and Gravel Quarry over an extent 1.48.00 Ha, while total cluster area of 6.43.0 Ha at Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State. (ToR Identification No. - TO26B0108TN5682646N (F. No. 13828), Dated: 24/07/2026).

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

EIA Coordinator Name: M. Manikandan

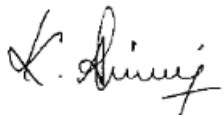
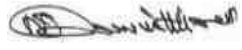


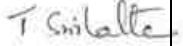
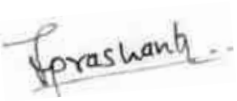
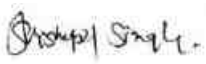
Signature & Date

Period of involvement: March 2026 to May 2026.

Contact information:

M/s Global Mining Solutions
Plot No.6, SF No. 13/2, A2, VS City, RC Chettypatty,
Kottamettupatty, Omalur,
Salem, Tamil Nadu – 636 455

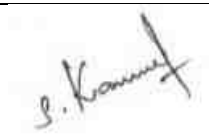
S. No.	*Functional areas*	*Name of the expert/s*	*Involvement (period and task**)*	*Signature and Date*
1	*AP*	*Dhanalakshmi Ramanathan*	*Assessment of existing air quality, Impact of the project on ambient air and suggested mitigation measures for air pollution. Period: March 2026 to May 2026.*	
2	*WP*	*Abirami Kaliaperumal*	*Assessment of existing water quality, impact of the project on surface and ground water quality, suggested mitigation measures for minimizing the impact. Period: March 2026 to May 2026.*	
3	*SHW*	*Ramadoss N*	*Assessment of waste generated from the project, suggested waste management practices. Period: March 2026 to May 2026..*	
4	*SE*	*Sarasvathy K*	*Baseline SE studies. Data compilation and assessment. Impact of the project on SE status of the area. Formulation of CER plan. Period: March 2026 to May 2026.*	
5	*EB*	*Saravanan S*	*Baseline data collection of related to ecology of the area. Period: March 2026 to May 2026.*	
6	*HG*	*Ravinthiran N*	*Hydrogeological feature of the area. Ground water depth and impact of project on ground water of the area. Period: March 2026 to May 2026.*	
7	*AQ*	*Srilatha Thiruveedhula*	*Air quality modeling utilizing the area source model. Predication of the ground level concentration of the dust. Suggesting suitable mitigation measures.*	

			Period: March 2026 to May 2026.	
8	*NV*	*Dhanalakshmi Ramanathan*	*Ambient noise study of the area. Incremental noise generation due to quarry operation and impact of the noise due to the project.* *Period: March 2026 to May 2026.*	
9	*LU*	*Srilatha Thiruveedhula*	*Preparation of land use map based on satellite imagery. Land use classification and analysis. Impact prediction of the project on the surrounding land environment.* *Period: March 2026 to May 2026.*	
10	*RH*	*S.V. Prashant*	*Identification of the Risk related to the mining activities. Preparation of emergency disaster management plan. Plan for supply of safety equipment for the worker.* *Period: March 2026 to May 2026..*	
11	*SC*	*Shisupal Sing*	*Soil monitoring, secondary data collection on soil type, soil management practices, utilization of topsoil.* *Period: March 2026 to May 2026.*	
12	*GEO*	*Valliappan Meyyappan*	*Geological map, stability of quarry and dump, management plan for mine stability, after use of mining quarry and geological feature of the area.* *Period: March 2026 to May 2026.*	

TM- EC:

S.No	*Name of TM (EC)*	*Sector(s) proposed*	*Approved (to work under)*	*Period of involvement*	*Type of work*	*Signature*
1.	*Abirami*	*1*	*Manikandan Manickam*	*Period: March 2026 to May 2026.*	*Associated with EIA Coordinator in overall preparation of Draft EIA/EMP report.*	

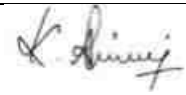
TM- FAE:

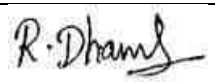
S. No	**Name of TM (FAE)**	**Functional Area**	**Approved FAE (to work under)**	**Period of involvement**	**Type of work**	**Signature**
1	Kamaraj S	LU	Srilatha Thiruveedhula	Period: *March 2026 to May 2026.*	Associated with Experts in preparing Land use map based on satellite imagery, Land use classification and analysis, Impact prediction on surrounding land environment.	

		HG	Ashok Kumar Rajagopal	*Period: March 2026 to May 2026.*	Associated with Experts in studying hydrogeological pattern of study area, Studying ground water and the impact of the project on ground water	
2	B.J.Sampatkkumar	SE	Saraswathy K	*Period: March 2026 to May 2026.*	Assisted by the Expert in preparation of socio-economic report.	
		SC	Shishupal Singh	*Period: March 2026 to May 2026.*	Assisted by the Expert in interpretation of soil sampling and their quality involved in the project.	
3	Mownica Balaji	NV	Dhanalakshmi Ramanathan	*Period: March 2026 to May 2026.*	Associated with the expert team in suggesting control measures for noise and Ground Vibration.	Mownica.B
		AP	Dhanalakshmi		Associated with expert team in assessing existing	

			Ramanathan		air quality, impact of the project on ambient air and suggesting mitigation measures for air pollution	
4	Balasubramani G	NV	Dhanalakshmi Ramanathan	*Period: March 2026 to May 2026.*	Associated with the expert in selection of base line monitoring stations, Review of Noise quality results, Review of emission sources – drilling, blasting, excavation and transportation, Identification of impacts on environment, identification of remedial measures and input to EIA preparation	
		Geo	Valliappan Meyyappan		Associated with the expert in preparing Geological map.	
5	Suresh Mani	LU	Srilatha Thiruveedhula	*Period: March 2026 to May 2026.*	Associated with Experts in preparing Land use map based	

					on satellite imagery, Land use classification and analysis, Impact prediction on surrounding land environment.	
		HG	Ashok Kumar Rajagopal		Associated with Experts in studying hydro-geology pattern of study area, studying water and the impact of the project on ground water.	
6	Asan Ali S	NV	Srilatha Thiruveedhula	*Period: March 2026 to May 2026.*	Associated with the expert in monitoring and analysis of blast induced ground vibration in order to develop the site-specific equation for its prediction, monitoring of fly rocks & air blast (noise), preparation of SOP's for the safety blasting	S. Asan ali

					practice in the mines.	
		Geo	Valliappan Meyyappan		Associated with the Qualified Person & Experts in preparing Geological map, assessing stability of quarry slope faces and dump, management plan for mine stability and after use of mining quarry and geological features of the area during mine plan preparation.	
7	Prabu M	Geo	Valliappan Meyyappan	*Period: March 2026 to May 2026.*	Associated with Experts and involved in Field Investigations, Mapping /Geo-referencing	
8	Abirami Kaliyaperumal	RH	S V Prashant	*Period: March 2026 to May 2026.*	Associated with experts and involved in the identification risk and hazard, suggesting	

					safeguard measures.	
9	Dhanalakshmi Ramanathan	AQ	Srilatha Thiruveedhula	*Period: March 2026 to May 2026.*	Involved with Expert team and involved in calculating air emission values using Meteorological data and Providing inputs for running modelling (ISCT3, AERMOD).	
10	Manikandan Manickam	AP	Ramadoss N	*Period: March 2026 to May 2026.*	Associated with expert team in assessing existing air quality, impact of the project on ambient air and suggesting mitigation measures for air pollution	
		WP	Abirami Kaliyaperumal		Involved in the identification of source of water and waste generation, suggesting treatment for safe disposal of wastewater	

ANNEXURE-1

File No: 13828

State Environment Impact Assessment Authority (SEIAA), Tamil Nadu

(Constituted as per the provision of EIA Notification, 2006, as amended by the Ministry of Environment, Forest and Climate Change, Government of India)

Dated: **24/07/2026**

To,

MANIKANDAN P
S/o.Perumalsamy, Door No.7/68, Kinathukadavu, Karachery, Coimbatore District - 641201, TAMIL NADU.
manikandan0828p@gmail.com

Subject: Grant of Terms of Reference along with Public Hearing under the provision of the EIA Notification 2006-regarding.

Sir/Madam,

Sub: SEIAA- TN Proposed Rough Stone & Gravel quarry over an extent of 1.48.0Ha at S.F.No. 157/2, Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu by Thiru. P. Manikandan - under project category – "B1" of Item 1(a) "Mining of Minerals" of the Schedule to the EIA Notification, 2006 as amended – ToR issued along with Public Hearing- preparation of EIA report – Regarding.

Ref:

1. Online proposal No. SIA/TN/MIN/574646/2026, Dated:07/04/2026
2. Minutes of the 733rd meeting of SEAC-II held on 18.06.2026.
3. Minutes of the 1032nd meeting of SEIAA held on 21.07.2026.

2. The particulars of the proposal are as below:

(i) TOR Identification No.	TO26B0108TN5682646N
(ii) File No.	13828
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vi) Name of Project	Rough Stone and Gravel Quarry of Thiru.P.Manikandan
(vii) Name of Company/Organization	MANIKANDAN P
(viii) Location of Project (District, State)	DINDIGUL, TAMIL NADU
(ix) Issuing Authority	SEIAA
(x) Applicability of General Conditions	no

(xi) Applicability of Specific Conditions no

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 21.07.2026. 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 **Thiru. P. Manikandan** 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 OMNo.J-11013/41/2006-IA-II(I)(part) dated 29th August, 2017.

Copy To

N/A

Annexure 1

Specific Terms of Reference s for (Mining Of Minerals)

1. Seac Conditions - Site Specific

S. No	Terms of Reference
1.1	1. The PP has obtained land ownership consent for 15 years mentioning that the lessee can carry out desired business activity in the land. However, the PP shall furnish revised land consent document specifically mentioning that the permission granted is for quarry operations in the said land. 2. The PP has submitted the Patta document showing three numbers of land owners, whereas the consent document has been given by four members. The PP shall clarify this discrepancy by providing supporting ownership documents/revised land consent document signed by all legitimate land owners duly registered and signed by all land owners as per Patta. 3. During the meeting, from the KML, a filled-up portion was observed in the lease area. The PP has stated that it is drying of coir and will be removed while carrying out quarry operation. The PP shall remove the coir observed in the northern portion of the lease area and furnish geo-tagged photographic evidence for the same while EIA. 4. The PP shall provide Garland drain around the periphery of the lease area and the same should be included in EMP. 5. 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

S. No	Terms of Reference
	through systematic & scientific approach with appointment of statutory personnel, appropriate environmental monitoring, good maintenance of haul roads and village/panchayat roads, authorized blasting operation 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 Organization chart of the Committee with defining the role of the members iii. The 'Standard Operating Procedures' (SoP) executing the planned activities. 6. The PP shall install the CCTV camera for the continuous surveillance of mining activity & furnish the photographic/video graphic evidence along with the EIA report.

2. Seiaa Specific Conditions :

S. No	Terms of Reference
2.1	After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant **Terms of Reference (ToR) along with Public Hearing for the quantity of 1,57,580m^3 of rough stone & 21,442m^3 of Gravel up to the depth of 32m BGL and the annual peak production shall not exceed 22,360m^3 of rough stone & 10,792m^3 of Gravel** 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 & normal conditions & SEIAA Specific & Standard conditions.

3. Seiaa Standard Conditions :

S. No	Terms of Reference
3.1	**<u>Cluster Management Committee</u>** 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. 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. **<u>Agriculture & Agro-Biodiversity</u>** 9. Impact on surrounding agricultural fields around the proposed mining Area.

S. No	Terms of Reference
	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, horti-cultural 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. **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.

S. No	Terms of Reference
	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.

SEAC Standard Condition:

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 water bodies 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, 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 the following details from AD/DD, mines,
13. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
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.
    - If EC 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 t he hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface water 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.
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 detail ed.
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 data and failure to comply with any of the conditions mentioned above may result in withdrawal of this

Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

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.
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.
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 & 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.

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 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.

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 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.
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.
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 -l1013/77/2004-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 proponent willtake 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 **valid for a period of three years** 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.

ANNEXURE-2

ANNEXURE I

புவியியல் மற்றும் சுரங்கத்துறை

ந.க.எண்: 1206/2025 (கனிமம்)

உதவி இயக்குநர் அலுவலகம்,
மாவட்ட ஆட்சியர் அலுவலக வளாகம்,
திண்டுக்கல்.

நாள்: .02.2026



குறிப்பாணை

பொருள்: கனிமங்களும் சுரங்கங்களும் - திண்டுக்கல் மாவட்டம் - திண்டுக்கல் மாவட்டம், பழனி வட்டம், வடக்குதாத நாயக்கன்பட்டி கிராமம், புல எண். 157/2-ல் 1.48.0 ஹெக்டேர் - பத்து வருடங்களுக்கு உடைகல் மற்றும் கிராவல் குவாரி குத்தகை உரிமம் வழங்கல் - உகந்த பரப்பு (Precise Area) தேர்வு செய்யப்பட்டது - சுரங்கத்திட்டம் மற்றும் மாநில அளவிலான சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் இசைவினைப் பெற்று சமர்ப்பிக்க கோருவது - தொடர்பாக.

பார்வை:
1. திரு.பெ.மணிகண்டன், த/பெ.பெருமாள்சாமி, காரச்சேரி, கிணத்துக்கடவு வட்டம், கோயம்புத்தூர் என்பவரது மின்னணு விண்ணப்பம் எண். 25DGL0405059 நாள்: 09.10.2025
2. இவ்வலுவலக கடிதம் ந.க. எண்: 1206/2025 (கனிமம்), நாள்: 28.10.2025 பழனி வருவாய் கோட்டாட்சியருக்கு முகவரியிட்டது.
3. பழனி வருவாய் கோட்டாட்சியர் கடிதம் எண்: 131/2026/அ7, நாள்: 09.01.2026
4. உதவி இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை அவர்களின் புலத்தணிக்கை அறிக்கை நாள்: 17.02.2026
5. திரு.பெ.மணிகண்டன், த/பெ.பெருமாள்சாமி, காரச்சேரி, கிணத்துக்கடவு வட்டம், கோயம்புத்தூர் என்பவரது கடிதம் நாள்: 17.02.2026
6. 1959 -ம் வருடத்திய தமிழ்நாடு சிறுகனிம சலுகை விதிகள் 41 மற்றும் 42.
7. அரசாணை எண்.169 தொழில் (எம்.எம்.சி.1) துறை, நாள்: 04.08.2020.
8. அரசாணை எண்.208, தொழில் (எம்.எம்.சி.1) துறை, நாள்: 21.09.2020.
9. தொடர்புடைய ஆவணங்கள்.

*****

திண்டுக்கல் மாவட்டம், பழனி வட்டம், வடக்குதாத நாயக்கன்பட்டி கிராமம், புல் எண். 157/2-ல் 1.48.0 ஹெக்டேர் பரப்பில் உடைகல் மற்றும் கிராவல் குவாரி குத்தகை உரிமம் வழங்கக்கோரி கோயம்புத்தூர் மாவட்டம், காரச்சேரி,

கிணத்துக்கடவு வட்டம், க.எண். 7/68-ல் வசித்து வரும் பெருமாள்சாமி மகன் மணிகண்டன் என்பவர் பார்வை 1-ல் காணும் விண்ணப்பத்தினை சமர்பித்துள்ளார். பழனி, வருவாய் கோட்டாட்சியர் மற்றும் புவியியல் மற்றும் சுரங்கத்துறை, உதவி இயக்குநர் ஆகியோரின் அறிக்கையில் விண்ணப்பிக்கப்பட்டுள்ள புல எண். 157/2-ல் 1.48.0 ஹெக்டேர் நிலம் பட்ட எண். 1178-ன்படி ராயன் மகன் நடராஜ்(1), பெருமாள்சாமி மகன் மணிகண்டன்(2), மயில்சாமி மகன் சுந்தர்ராஜ் (3) மற்றும் பழனிச்சாமி மகன் கோபாலகிருஷ்ணன் (4) ஆகியோர் பெயரில் கூட்டாக பட்டா தாக்கலாகியுள்ளது எனவும், கூட்டுப்பட்டாதாரர்களான ராயன் மகன் நடராஜ்(1), மயில்சாமி மகன் சுந்தர்ராஜ் (2) மற்றும் பழனிச்சாமி மகன் கோபாலகிருஷ்ணன் (3) ஆகிய மூவரும் மனுதாரர் திரு.மணிகண்டன் என்பவருக்கு குத்தகை பத்திர ஆவண எண். 2273/2025 நாள்: 23.06.2025-ன்படி 15 ஆண்டுகளுக்கு மட்டும் குத்தகை பத்திரம் செய்து கொடுத்துள்ளனர் எனவும், விண்ணப்பிக்கப்பட்ட புலங்களில் இருந்து 300 மீட்டர் சுற்றளவிற்குள் அங்கீகரிக்கப்பட்ட குடியிருப்புகள், வழிபாட்டுதலங்கள், வீட்டுமனைகள் ஏதுமில்லை. 50 மீட்டர் சுற்றளவில் தேசிய/மாநில நெடுஞ்சாலைகள், ஆறுகள், உயர் /தாழ்வழுத்த மின்கம்பங்கள், உயர் வகை மரங்கள் இல்லை எனவும், மனுதாரர் புல எண்.48 -ன் கிழக்கு பகுதியில் வண்டிப்பாதை செல்கிறது எனவும், மேலும் புலங்களில் இருந்து உடைகற்கள் உற்பத்தி செய்ய இயலும் என தெரிவித்து கீழ்காணும் நிபந்தனைக்குட்பட்டு மேற்கண்ட புலங்களில் உடைகல் குவாரி குத்தகை உரிமம் பத்து (10) ஆண்டுகளுக்கு வழங்க பரிந்துரை செய்துள்ளனர்.

1) அருகிலுள்ள பட்டா நிலங்களுக்கு 7.5 மீ மற்றும் அரசு புறம்போக்கு நிலங்களுக்கு 10 மீ பாதுகாப்பு இடைவெளி விடுத்து குவாரி செய்தல் வேண்டும்.
2) விண்ணப்ப புல எண்.157/2-ன் கிழக்குப் பகுதியில் புல எண்.48-ல் செல்லும் வண்டிப்பாதைக்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட வேண்டும்.
3) 1959 ஆம் வருடத்திய தமிழ்நாடு சிறுகனிமச் சலுகை விதிகள் விதி எண். 41 மற்றும் 42-ன்படி சுரங்கத்திட்டம் மற்றும் சுற்றுச்சூழல் தடையில்லாச் சான்று குத்தகை உரிமம் வழங்குவதற்கு முன் சமர்ப்பிக்க வேண்டும்.

எனவே, துறை அலுவலர்களின் பரிந்துரை மற்றும் மனுதாரரின் கோரிக்கையினை ஏற்றும் நிபந்தனைகளுக்கு உட்பட்டும், திண்டுக்கல் மாவட்டம், பழனி வட்டம், வடக்குதாத நாயக்கன்பட்டி கிராமம், புல எண். 157/2-ல் 1.48.0 ஹெக்டேர் பரப்பில் உடைகல் குவாரி குத்தகை உரிமம் 1959-ம் வருடத்திய தமிழ்நாடு சிறுகனிம சலுகை விதிகள் விதி எண்: 19 (1) மற்றும் 20-ன் படி பத்து (10) வருட காலத்திற்கு உடைகல் மற்றும் கிராவல் குவாரி உரிமம் வழங்க தகுதி வாய்ந்த நிலப்பரப்பாக (Precise Area) கருதப்படுகிறது.

தமிழ்நாடு சிறுகனிம சலுகை விதிகள்-1959 விதி எண்: 41 -ன்படி குவாரி பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்கத் திட்டத்தினை (Mining Plan) 90 தினங்களுக்குள் சமர்ப்பிக்குமாறும், விதி எண்: 42-ன்படி மாநில அளவிலான சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் (State Level Environmental Impact Assessment Authority) இசைவினைப் பெற்று சமர்ப்பிக்குமாறும் மனுதாரர் திரு.பெ.மணிகண்டன், த/பெ.பெருமாள்சாமி என்பவர் கேட்டுக் கொள்ளப்படுகிறார்.

21.12.22

உதவி இயக்குநர்,
புவியியல் மற்றும் சுரங்கத்துறை,
திண்டுக்கல்.

பெறுநர்

திரு.பெ.மணிகண்டன்,
த/பெ.பெருமாள்சாமி,
க.எண்.7/68, கிணத்துக்கடவு,
காரச்சேரி,
கோயம்புத்தூர் மாவட்டம்

நகல்
உறுப்பினர் செயலர்,
மாநில சுற்றுசூழல் தாக்க மதிப்பீட்டு ஆணையம் (SEIAA),
சென்னை.

ANNEXURE-3

From

S.Krishna Mohan,
Assistant Director,
Geology and Mining,
Dindigul

To

Thiru.P.Manikandan,
S/o.Perumalsamy,
Door No.7/68, Kinathukadavu,
Karachery,
Coimbatore

Rc.No. 1206/2025 (Mines), dated: 12.03.2026.

Sir,

Sub: Mines and Minerals - Minor Mineral - Rough stone – Dindigul District - Palani Taluk - North Thathanaickenpatti Village - Patta Land in S.F.No.157/2 over an extent of 1.48.0 Hectare – preferred by Thiru.P.Manikandan – Precise area communicated – Submission of Mining Plan for approval - Approved - Regarding.

Ref:
1. Application from Thiru.P.Manikandan, S/o.Perumalsamy, Karachery, Coimbatore online application No.25DGL0405059 dated 09.10.2025
2. Precise Area Communication letter Rc.No.1206/2025 (Mines), dated 23.02.2026
3. Mining Plan submitted by Thiru.P.Manikandan, S/o.Perumalsamy, Karachery, Coimbatore dated.02.03.2026

****

In the reference 2nd cited, the Assistant Director of Geology and Mining Dindigul has communicated the S.F.No.157/2 over an extent of 1.48.0 Hect of North Thathanaickenpatti Village, Palani Taluk, Dindigul District as precise area to the applicant Thiru.P.Manikandan for grant of quarry lease for quarrying Rough Stone and Gravel for a period of 10 years with a direction to produce an approved mining plan in respect of the precise area as per Rule 41 of Tamil Nadu Minor Mineral Concession Rules, 1959 by incorporating the conditions stipulated in the Assistant Director of Geology and Mining letter dated 23.02.2026.

In response to the precise area communication letter issued by the Assistant Director of Geology and Mining Dindigul vide reference 2nd cited, the applicant has submitted three copies of mining plan duly prepared by Qualified Person for approval vide reference 3rd cited.

The draft mining plan submitted in respect of the precise area communication has been examined with reference to the provisions of Rule 41 of Tamil Nadu Minor Mineral Concession Rules, 1959 and the followings are observed.

i) All the conditions stipulated in the Assistant Director of Geology and Mining Dindigul Letter Rc.No.1206/2025 (Mines) dated: 23.02.2026 have been incorporated in the mining plan.

ii) The boundary Co-ordinates (GPS readings) for the entire boundary pillars of the area have been incorporated and shown in the mining plan.

iii) The Geological resources is 4,43,700 Cbm (or) 12,20,175 MT of Roughstone and 29,580 Cbm (or) 59,160 MT of Gravel. After deducting safety distances and bench loss, the Mineable reserves fixed for Roughstone is 1,57,580 Cbm or 4,33,345 MT for the 10 years; for Gravel, the reserves are 21,442 Cbm (or) 42,884 MT.

The applicant has proposed to carryout 1,10,460 Cbm (or) 3,03,765MT of Roughstone and 21,442 Cbm (or) 42,884MT of Gravel for the first five years and remaining quantity of 47,120cbm (or) 1,29,580MT of Roughstone for the period of second five years upto a depth of 32m (below ground level).

4. In the light of the above, in exercise of the powers conferred under Rule 41 (7) of Tamil Nadu Minor Mineral Concession Rules, 1959 the mining plan in respect of Rough Stone & Gravel quarry of Thiru.P.Manikandan is approved subject to the following conditions.

i) The applicant must adhere to benching slope, safety distances depth and boundary conditions as indicated in the approved mining plan without deviation.

ii) 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.

iii) The approval of the mining plan does not in any way imply the approval of the Government it terms of any other provisions of the Mines and Minerals (Development and Regulation) Act 1957, or any other connected laws including Forest (Conservation) Act, 1980, Forest Conservation Rules 1981, Environment Protection Act, 1980, Forest

Conservation Rules, 1981, Environment Protection Act, 1980, Indian Explosives Act, 1884 (Central Act IV of 12.03.2020 of 1884) and the rules made there under and the Tamil Nadu Minor Mineral Concession Rules, 1959.

iv) The mining Plan is approved without prejudice to any other order or direction from any court of competent jurisdiction.

v) Quarrying operations and production shall be carried out as per the approved Mining Plan and the applicant shall be liable to pay the cost of mineral if there is any deviation in the quantum indicated in the approved year wise quantum of production and any such cases as on date are to be dealt with as per Court direction.

Encl: 2 Copies of Approved Mining Plan.

Assistant Director,
Geology and Mining,
Dindigul

Copy submitted to:

1. The Chairman, SEIAA,Tamil Nadu, 3rd Floor, Panagal Maaligai, No.1, Jeenis Road, Saidapet, Chennai-15.
2. The Director of Geology and Mining, Chennai-32.

APPROVAL MINING PLAN

Collectorate Dindigul - 624 004. Sand Mining Geology Department O/o Assistant Director

MINING PLAN FOR THATHANAICKENPATTI NORTH ROUGH STONE & GRAVEL QUARRY

(Prepared under rule 19(1), 41 & 42 of Tamil Nadu Minor Mineral Concession Rules, 1959)

LOCATION OF THE QUARRY LEASE APPLIED AREA

STATE	:	TAMIL NADU
DISTRICT	:	DINDIGUL
TALUK	:	PALANI
VILLAGE	:	THATHANAICKENPATTI NORTH
S.F.NO	:	157/2
EXTENT	:	1.48.0Ha

FOR

APPLICANT

Thiru.P.Manikandan,
S/o.Perumalsamy,
Door No.7/68, Kinathukadavu,
Karachery,
Coimbatore District.

ECO-FRIENDLY



SUSTAINABILITY



SAFETY





(PPE)

PREPARED BY

C.Natarajan, M.Sc.,M.Phil.,
Qualified Person
M/s. GLOBAL MINING SOLUTIONS
(NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT)
PLOT NO. 6, SF NO. 13/2, A2, VS CITY, RC CHETTYPATTY,
KOTTAMETTUPATTY,
OMALUR, SALEM, TAMIL NADU – 636 455
NABET ACCREDITATION NO – NABET/ EIA/23-26 / SA 0241
CONTACT: 97502 23535, 94446 54520
Email: infoglobalmining@gmail.com, globalminingsolutionssalem@gmail.com

Director Department of Geology and Mining Collectorate Dindigul - 624 004.
O/o Assistant

P.Manikandan,
S/o.Perumalsamy,
Door No.7/68, Kinathukadavu,
Karachery,
Coimbatore District.

CONSENT LETTER FROM THE APPLICANT

The Mining Plan in respect of **Rough Stone and Gravel** quarry over an extent of 1.48.0hectares of Patta lands in S.F.No.157/2 of Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State has been prepared by

C.Natarajan, M.Sc.,M.Phil.,
Qualified Person

I request the Assistant Director, Department of Geology and Mining, Dindigul District to make further correspondence regarding modifications of the Mining Plan with the said Qualified Person on this following address.

C.Natarajan, M.Sc.,M.Phil.,
Qualified Person
M/s. GLOBAL MINING SOLUTIONS
(NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT)
PLOT No. 6, SF No. 13/2, A2, Vs City, RC Chettypatty,
Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455
NABET ACCREDITATION NO – NABET/ EIA/23-26 / SA 0241
CONTACT: 97502 23535, 94446 54520

I hereby undertake that all modifications so made in the Mining Plan by the Qualified Person may be deemed to have been made with my knowledge and consent and shall be acceptable to me and binding on me in all respects.

Signature of the Applicant

P.Manikandan

Place: Coimbatore
Date: 02.03.2026

Collectorate Dindigul - 624 004. O/o Assistant Director, Deputy Director of Geology and Mining

P.Manikandan,
S/o.Perumalsamy,
Door No.7/68, Kinathukadavu,
Karachery,
Coimbatore District.

DECLARATION

The Mining Plan in respect of **Rough Stone and Gravel** quarry over an extent of 1.48.0hectares of Patta lands in S.F.No.157/2 of Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State has been prepared with my consultation and I have understood the contents and agree to implement the same in accordance with the Mining Laws.

Signature of the Applicant

P.Manikandan

Place: Coimbatore
Date: 02.03.2026

This Mining is approved based on guidelines I Instructions Issued in the CGM, Letter No : 3888/I.C/2012 dated 19-11-2012 and incorporation of the particulars specified in the letter Roc.No
Dated of the Assistant Director of Geology and Mining, Dindigul and subject to further Fulfillment of the conditions laid down under rule 41,42 of Tamil Nadu Miner Mineral Concession Rules 1959

12.03.2026

Assistant Director of Geology & Mining
Dindigul

C.Natarajan, M.Sc.,M.Phil.,
Qualified Person
M/s. GLOBAL MINING SOLUTIONS
(NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT)
PLOT No. 6, SF No. 13/2, A2, Vs City, RC Chettypatty,
Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455
NABET ACCREDITATION NO – NABET/ EIA/23-26 / SA 0241
CONTACT: 97502 23535, 94446 54520

O/o Assistant Director Geology and Mining Collectorate Dindigul - 624 004.

CERTIFICATE

This is to certify that, the provisions of under rules 41 & 42 as Amended in under Tamil Nadu Minor Mineral Concession Rules, 1959, have been observed in the Mining Plan for the grant of **Rough Stone and Gravel** quarry lease over an extent of 1.48.0hectares of Patta lands in S.F.No.157/2 of Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State applied by Thiru.P.Manikandan, for fresh quarry lease.

Wherever specific permission / exemptions / relaxations or approvals are required, the applicant will approach the concerned authorities of State and Central Governments for granting such permissions etc.

Certified
Signature of Qualified Person.

C.Natarajan, M.Sc.,M.Phil.,
Qualified Person
C.NATARAJAN M.Sc.,M.Phil.,
Qualified Person

Place: Salem
Date: 03.03.2026

C.Natarajan, M.Sc.,M.Phil.,
Qualified Person
M/s. GLOBAL MINING SOLUTIONS
(NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT)
PLOT No. 6, SF No. 13/2, A2, Vs City, RC Chettypatty,
Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455
NABET ACCREDITATION NO – NABET/ EIA/23-26 / SA 0241
CONTACT: 97502 23535, 94446 54520

Collectorate Dindigul - 624 004. Dy. Assistant Director Department of Geology and Mining

CERTIFICATE

Certified that, in preparation of Mining Plan for **Rough Stone and Gravel** quarry over an extent of 1.48.0hectares of Patta lands in S.F.No.157/2 of Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State for Thiru.P.Manikandan, 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.

C.Natarajan, M.Sc.,M.Phil.,
Qualified Person

C.NATARAJAN M.Sc.,M.Phil.,
Qualified Person

Place : Salem
Date : 03.03.2026

CERTIFICATE

Certified that I, C.Natarajan, M/s. GLOBAL MINING SOLUTIONS (NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT) Plot No. 6, SF No. 13/2, A2, Vs City, RC Chettypatty, Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455 NABET ACCREDITATION NO – NABET/ EIA/23-26 / SA 0241. I am a Post graduate in Geology (M.Sc., Geology) from Annamalai university and more than five years of experience in mining Field.

Rule 15(1)(a) and (b) of Minerals (Other than Atomic, Hydro Carbons Energy Minerals) concession Rules 2016 stipulates the eligibility for preparing Mining Plans as *"(1)(a) a post graduate degree in Geology granted by a university established" and (1)(b) "Professional experience of five years of working in a supervisory capacity in the field of mining after obtaining the degree"*. Since my qualification and experience are satisfied the Rule (1)(a) and (1)(b) of 15 of the Said Rules, I am eligible to prepare Mining Plans for both Major and Minor Minerals.

Accordingly I prepared this Mining Plan in respect of Rough Stone and Gravel quarry lease applied for an extent of 1.48.0hectares of Patta lands in S.F.No.157/2 of Thathanaickenpatti North Village, Palani Taluk, Dindigul District, by Thiru.P.Manikandan, for a period of Ten Years. Since the Mining Plan is prepared as per the provisions contained in Rule 15(1) (a) and (b) of Minerals (Other than Atomic, Hydro Carbons Energy Minerals) concession Rules 2016, the same may be approved by the Competent Authority.

C.Natarajan, M.Sc.,M.Phil.,

Qualified Person

M.Sc.,M.Phil.,
Qualified Person

Place : Salem

Date : 03.03.2026

CONTENTS

S. No.	Description	Page No.
1.0	Introduction	1
2.0	General Information	5
3.0	Location	6
4.0	Geology and Mineral Reserves	8
5.0	Mining	11
6.0	Blasting	15
7.0	Mine Drainage	16
8.0	Other Permanent Structures	17
9.0	Employment Potentials &Welfare Measures	18
10.0	Environment Management Plan	20
11.0	Mine Closure Plan	23
12.0	Any Other Details Intend to furnish by the Applicant	24

Collectorate Dindigul - 624 004 Geology and Mining Assistant Director

ANNEXURE

S. No.	Description	Annexure No.
1.0	Precise Area Communication letter issued by the Assistant Director, Department of Geology and Mining,	I
2.0	Copy of FMB	II
3.0	Copy of Village map	III
4.0	Copy of Patta	IV
5.0	Copy of Adangal	V
6.0	Copy of A Register	VI
7.0	Copy of Consent Document	VII
8.0	Copy of Identity Proof	VIII
9.0	Copy of QP Certificate	IX

LIST OF PLATES

S. No.	Description	Plate No.
1.0	Location Plan	I
2.0	Environmental Plan	I-A
3.0	Satellite imagery map	I-B
4.0	Topo sketch of Quarry lease applied area for 10Km Radius	I-C
5.0	Key Plan	I-D
6.0	Quarry lease & Surface plan	II
7.0	Topography, Geological plan and sections	III
8.0	Mineable plan and sections	IV
9.0	Year wise Development and Production Plan & Sections	V
10.0	Second Five Year Yearwise Development and Production Plan & Sections	VA
11.0	Progressive Quarry Closer Plan & Sections	VI
12.0	Conceptual Plan & Sections	VII

Collectorate Dindigul - 624 004
O/o Assistant Director Dept. of Geology and Mining

MINING PLAN FOR MINOR MINERALS

ROUGH STONE AND GRAVEL

Over an extent of 1.48.0 hectares of Patta land in S.F.No. 157/2 of Thathanaickenpatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State.

(PREPARED UNDER RULE 19(1), 41 and 42 OF TNMMCR 1959)

1.0 Introduction and Executive Summary;

1. The present Mining Plan is prepared for Thiru.P.Manikandan, S/o.Perumalsamy, residing at Door No.7/68, Kinathukadavu, Karachery, Coimbatore District.
2. The application was processed by the Assistant Director, Department of Geology and Mining, Dindigul, and passed an order vide Rc.No.1206/2025 (Kanimam) dated 23.02.2026 directing the applicant to produce approved Mining Plan under Rule 41(5) of the Tamil Nadu Minor Mineral Concession Rules, 1959 and Environmental Clearance Certificate under Rule 42 from the State Level Environmental Impact Assessment Authority (SEIAA) for the grant of quarry lease to quarry Rough Stone and Gravel over an extent of 1.48.0 hectares of Patta land in S.F.No.157/2 of Thathanaickenpatti North Village, Palani Taluk, Dindigul District of Tamil Nadu State for a period of Ten years.
3. Accordingly, Mining Plan is prepared under the provisions of rule 19(1), 41 and 42 as per the amendments under Tamil Nadu Minor Mineral Concession Rules, 1959 by incorporating following the conditions imposed in the precise area communication letter.
   a) A 7.5 meters of safety distance should be left out for the adjacent patta lands and 10 meters of safety distance should be provided to the adjoining government poramboke land while quarrying operation.



b) 10 meters of safety distance should be provided to the cart track passing in S.F.No.48 on the east side of the lease applied area.

c) As per the rule 41 and 42 of the Tamil Nadu Minor Mineral Concession Rules, 1959, The Draft Mining Plan and Environmental clearance should be submit before the grant of quarry lease.

4. Geological Resources is estimated at 12,20,175Ts of Rough stone, 59,160Ts of gravel. Mineable Reserves is estimated at 4,33,345Ts of Rough Stone, 42,884Ts of gravel after leaving necessary safety distance from the lease boundary as indicated in the precise area letter and relevant mining laws in force.

5. The production schedule is proposed production of 3,03,765Ts of Rough Stone, 42,884Ts of gravel for the period of first five years. remaining quantity of 1,29,580Ts of Rough Stone will be proposed for the period of second five years upto a depth of 32m (below ground level).

6. The applicant ensured that, child labours under 18 years of age will not be engaged for quarrying operation.

7. The applicant ensure that will appoint should have valid certified persons (Mines Manager, Foreman, Mate) during quarrying operation.

8. Environmental parameters,

i) The area does not attract the Forest Conservation Act, 1980 as there is no forest around 7.7Kms radius.

ii) There is no interstate boundary around 10Kms radius.

iii) There is no wild life animal sanctuary within 7.7Kms radius from the project site area under the Wildlife (Protection) Act, 1972.

Therefore the project seeks clearance only from State Level Environmental Impact Assessment Authority (SEIAA).



9. Environmental measures to be adopted shall be,

i) 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) Avoid uneven rat hole mining and follow scientific and systematic mining by safe bench system of open cast mining.

vi) Mining near major fracture zones if any should be avoided to control ground water fluctuation in the adjacent agricultural lands.

vii) Emission test of vehicles should be in tack to maintain minimum emission level of flue gases.

viii) Noise level should not exceed 80db and the vehicles should 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 adhere to.

x) And any other conditions as stipulated by the concerned authorities should be followed to protect the environment.

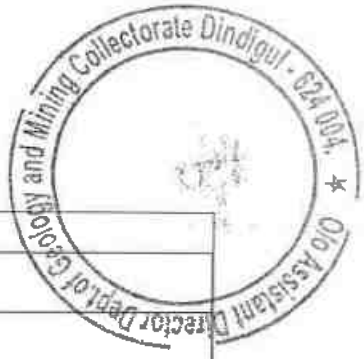


EXECUTIVE SUMMARY:

a.	Name of the Village Panchayat	:	Thathanaickenpatti North
b.	Name of the Panchayat Union	:	Palani
c.	The proposed total Minable Reserves	:	4,33,345Ts of Rough Stone, 42,884Ts of gravel.
d.	The proposed quantity of reserves (level of production) for five years to be mined is(Recoverable reserves)	:	3,03,765Ts of Rough Stone, 42,884Ts of gravel.
e.	Total extent of the area	:	1.48.0Ha
f.	Grant of lease period	:	Ten years
g.	Existing depth	:	It is fresh quarry lease applied area
h.	Proposed Depth	:	32m (below ground level).
i.	Method of mining/level of mechanization	:	Opencast, Semi-mechanized Mining with a bench height of 5m and bench width of 5m is proposed.
j.	Types of Machineries used in the quarry	:	Machineries like Tractor mounted compressor attached with Jack hammers, Excavators arc proposed to deploy for quarrying operation.
k.	Cost of the Project A. Fixed Assets Cost B. Operational Cost C. EMP Cost		Rs. 11,88,000/- Rs. 51,50,000/- Rs. 5,00,000/- Total Project cost(A+B+C)= **Rs. 68,38,000 /-**

l. The area applied for lease is bounded by seven corners and the coordinates are clearly marked in plate no II.

Corners	Co- ordinates		Distance between the corners		
	Latitude	Longitude			
1	10° 28' 09.87"N	77° 25' 26.50"E	1-2	=	79.6m
2	10° 28' 12.45"N	77° 25' 26.70"E	2-3	=	70.8m
3	10° 28' 12.30"N	77° 25' 29.03"E	3-4	=	112.0m
4	10° 28' 11.66"N	77° 25' 32.65"E	4-5	=	36.6m
5	10° 28' 10.51"N	77° 25' 32.34"E	5-6	=	42.0m
6	10° 28' 09.33"N	77° 25' 31.64"E	6-7	=	12.6m
7	10° 28' 08.96"N	77° 25' 31.47"E	7-1	=	153.8m



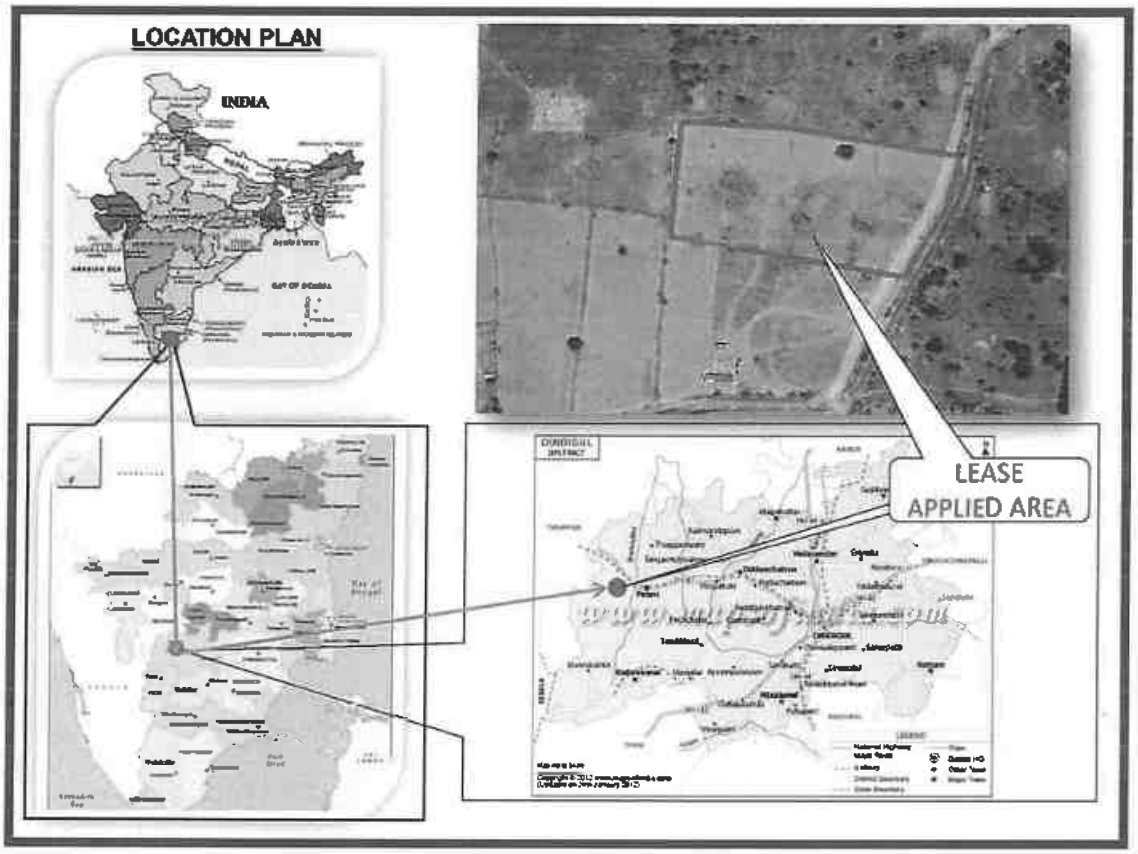
2.0 General Information:

2.1	a.	Name of the Applicant	:	Thiru.P.Manikandan,
	b.	Address of the Applicant with phone No and e-mail id if any	:	S/o.Perumalsamy, Door No.7/68, Kinathukadavu, Karachery, Coimbatore District. Pin code-641201. Cell No.: 9842896223
	c.	Status of the Applicant	:	Individual
2.2	a.	Mineral Which the applicant intends to mine	:	Rough Stone and Gravel.
	b.	Precise area communication letter No.	:	Precise area communication letter received from the Assistant Director, Department of Geology and Mining, Dindigul, vide Rc.No.1206/ 2025 (Kanimam) dated 23.02.2026.
	c.	Period of permission / lease granted	:	The Assistant Director, Department of Geology and Mining, Dindigul, has grant of lease period for **Ten years.**
	d.	Name and Address of the QP preparing Mining Plan	:	**C.Natarajan, M.Sc., M.Phil.,** **Qualified Person** **M/s. GLOBAL MINING SOLUTIONS** (NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT) Plot No. 6, S.F.No. 13/2, A2, Vs City, RC Chettypatty, Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455 NABET Accreditation No –NABET/ EIA/23-26 / SA 0241 Contact: 97502 23535, 94446 54520

Office of Assistant Director Geology and Mining Collectorate Dindigul - 624 004.

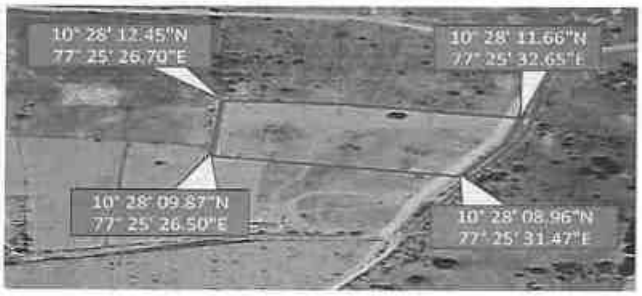
3.0 Location:

S.No		Details of the Area:
1	Corner Coordinates	Latitude :10°28'08.96"N to 10°28'12.45"N Longitude :77°25'26.50"E to 77°25'32.65"E
2	Toposheet Number	58 F/07
3	The altitude of the area	374m (MSL)
4	Extent	1.48.0Ha
5	Survey Nos	157/2
6	Village	Thathanaickenpatti North
7	Taluk	Palani
8	District	Dindigul
9	State	Tamil Nadu

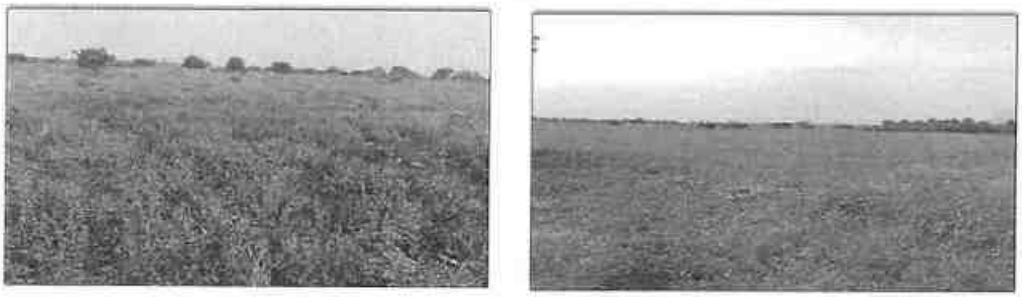


Collectorate Dindigul - 624 004. O/o Assistant Director Dept. of Geology and Mining

a.	Classification of the Area (Ryotwari / poramboke / others)	:	Patta land
b.	Ownership / Occupancy of the Applied area (Surface rights)	:	It is a patta land jointly registered in the name of Thiru.Nataraj, Thiru,Manikandan (applicant), Thiru.Sundarraj, Thiru.Gopala krishnan vide patta no.1178, the applicant has obtained consent from the pattadars, please refer annexure no: IV and VII.
c.	Toposheet No. with Latitude and Longitude	: : :	Topo Sheet No: 58 F/07 Latitude :10°28'08.96"N to 10°28'12.45"N Longitude :77°25'26.50"E to 77°25'32.65"E
d.	Existence of Public Road / Railway line if any nearby the area and approximate distance	:	There is an existing road from the area leads to Sukkamanaichenpatti - Pappampatti road on east side of the area. The Nearest Railway line is Dindigul to Pollachi line which is about 3.8Km on northeast side of the area.



SATELLITE IMAGERY OF THE LEASE APPLIED AREA



TOPOGRAPHICAL VIEW OF LEASE APPLIED AREA

Fig. Location of the lease applied area

Collectorate Dindigul - 624 004. Office of the Assistant Director Dept. of Geology and Mining

PART - A

4.0 Geology and Mineral Reserves:

4.1	a.	Topography	:	➢ The area applied for quarry lease is exhibits almost plain covered by gravel formation. The massive Charnockite formation is noticed below 2m Gravel formation and sloping towards southeastern side of the area, the altitude of the area is above 374m (maximum) from MSL. ➢ No major river is found nearby the lease applied area. ➢ Water table is found at a depth of 82m in summer and 79m in rainy seasons. ➢ Temperature of the area is reported to be 18°C to a maximum of 42°C during summer. ➢ Rainfall of this area is about 800mm to 900 mm during the both NE & SW monsoons.
	b.	General Geology of the Area	:	The area is underlain by the wide range of metamorphic rocks of peninsular gneissic complex. These rocks are extensively weathered and overlain by the recent valley fills and alluvium at places. The geological formations found in the district are Archaean rocks like Gneisses, Granites, Charnockites basic granulites and calc-gneisses. The younger formations are Quartz veins and pegmatite. The rock type noticed in the area for lease is Charnockite which contains mostly Quartz and Feldspar with some ferromagnesian minerals. The Charnockite is part of peninsular Gneisses, a high grade metamorphic rock. The strike of the Charnockite formation is N45°E –S45°W with dipping towards SE60°.

Collectorate Dindigul - 624 004. Geology and Mining Dept. of Geology Assistant Director

				The general geological succession of the area is given as under. **AGE** **ROCK TYPE** Recent - Gravelly soil Unconformity Archaean - Dolerite dyke Charnockite. Peninsular Gneissic complex and Calc Gneiss
4.2		Details of Exploration already carried out if any	:	No exploration was carried out, as the Rough stone formations are clearly visible from adjacent existing quarry pit.
4.3	a.	Estimation of Reserves	:	The Geological and Recoverable reserves are estimated by cross sectional method. Two sections have been drawn, one section drawn length wise as (X-Y), and another one section drawn width wise as (A-B) to cover maximum area considered for lease. The Plans and Sections have been drawn with a scale of 1:1000 and 1:500 respectively. Please refer plate No.III.

a. Geological Resources

The quarrying is restricted up to a depth of 32m (below ground level) only, availability of resources is given below.

Table No-1

Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel in m^3	Rough stone in m^3	Bulk Density	Gravel in Ts	Geological Resources of Rough stone in Ts
XY-AB	I	170	87	2	29580	-	2	59160.00	-
	II	170	87	5	-	73950	2.75	-	203362.50
	III	170	87	5	-	73950	2.75	-	203362.50
	IV	170	87	5	-	73950	2.75	-	203362.50
	V	170	87	5	-	73950	2.75	-	203362.50
	VI	170	87	5	-	73950	2.75	-	203362.50
	VII	170	87	5	-	73950	2.75	-	203362.50
Total					**29580**	**443700**	**-**	**59160.00**	**1220175.00**

Gravel : 59,160Ts

The Geological Resources of Rough stone : 12,20,175Ts

b. Mineable Reserve

The mineable reserve calculated by deducting 7.5m and 10m safety distance and bench loss.

Table No-2

Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel in m^3	Rough stone in m^3	Bulk Density	Gravel in (Ts)	Mineable Reserves of Rough stone in (Ts)
XY-AB	I	151	71	2	21442	-	2	42884.00	-
	II	146	66	5	-	48180	2.75	-	132495.00
	III	136	56	5	-	38080	2.75	-	104720.00
	IV	126	46	5	-	28980	2.75	-	79695.00
	V	116	36	5	-	20880	2.75	-	57420.00
	VI	106	26	5	-	13780	2.75	-	37895.00
	VII	96	16	5	-	7680	2.75	-	21120.00
Total					**21442**	**157580**	**-**	**42884.00**	**433345.00**

The mineable reserve is computed as 4,33,345Ts of Rough stone, 42,884Ts of Gravel upto a depth 32m (below ground level) only.

O/o Assistant Director, Dept.of Geology and Mining Collectorate Dindigul - 624 004.

5.0	**Mining:**		
5.1	Method of Mining	:	1. Opencast method of semi mechanized mining with 5.0m height 5m width of the bench. 2. However, as far as the quarrying of Rough stone is concerned, observance of the provisions of Regulation 106(2) (b) as above is seldom[possible due to various inherent petrogenetic 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 the regulation 106 (2) (b) of MMR-1961, under Mine Act-1952.
5.2	Mode of Working	:	The rough stone is proposed to quarry 5m bench height, 5m width with conventional opencast semi-Mechanized method. The quarry operation involves shallow jack hammer drilling, slurry blasting, excavation, Loading and transportation of Rough stone to the needy crushers/other buyers. 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 rock mass by jackhammer drilling and blasting, hydraulic excavators are used for loading the Rough Stone from pithead to the needy crushers/other buyers. Occasionally hydraulic excavators are attached with rock breakers for fragmentation to avoid secondary blasting. The primary boulders thus splitted are removed from the pits by excavators and further made to smaller sizes by rock breakers attached in excavators. It is a conventional opencast semi mechanized method of mining.
5.3	Proposed bench height & Width	:	Quarrying of Rough Stone is proposed bench height of 5m and bench width of 5m.
5.4	Details of Overburden / Mineral Production proposed for the first 5 years.	:	The overburden in the form of Gravel formation, after excavation of gravel and Rough stone will be directly loaded into tipper to the needy crushers/other buyers for road project and construction works for filling and leveling of low lying areas.

The Yearwise Production and Development Table

Table No –3

Year	Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel in m^3	Rough stone in m^3	Bulk Density	Gravel in (Ts)	Mineable Reserves of Rough stone in (Ts)
I	XY-AB	I	76	71	2	10792	-	2	21584.00	-
		II	66	66	5	-	21780	2.75	-	59895.00
Total						**10792**	**21780**	**-**	**21584.00**	**59895.00**
II	XY-AB	I	75	71	2	10650	-	2	21300.00	-
		II	66	66	5	-	21780	2.75	-	59895.00
Total						**10650**	**21780**	**-**	**21300.00**	**59895.00**
III	XY-AB	II	14	66	5	-	4620	2.75	-	12705.00
		III	63	56	5	-	17640	2.75	-	48510.00
Total						**-**	**22260**	**-**	**-**	**61215.00**
IV	XY-AB	III	73	56	5	-	20440	2.75	-	56210.00
		IV	8	46	5	-	1840	2.75	-	5060.00
Total						**-**	**22280**	**-**	**-**	**61270.00**
V	XY-AB	IV	42	46	5	-	9660	2.75	-	26565.00
		V	40	36	5	-	7200	2.75	-	19800.00
		VI	30	26	5	-	3900	2.75	-	10725.00
		VII	20	16	5	-	1600	2.75	-	4400.00
Total						**-**	**22360**	**-**	**-**	**61490.00**
Grand Total						**21442**	**110460**	**-**	**42884.00**	**303765.00**

The applicant has proposed to carry out 3,03,765Ts of Rough Stone, 42,884Ts of gravel for the period of first five years. remaining quantity of 1,29,580Ts of Rough Stone will be proposed for the period of second five years upto a depth of 32m (below ground level).

O/o Assistant Director Dept.of Geology and Mining Collectorate Dindigul - 624 004.



The proposed tentative yearwise production for 6th to 10th year is given below

Table No-4

Year	Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Rough stone in m^3	Bulk Density	Mineable Reserves of Rough stone in (Ts)
VI	XY-AB	IV	41	46	5	9430	2.75	25932.50
Total						**9430**	**-**	**25932.50**
VII	XY-AB	IV	35	46	5	8050	2.75	22137.50
		V	8	36	5	1440	2.75	3960.00
Total						**9490**	**-**	**26097.50**
VIII	XY-AB	V	52	36	5	9360	2.75	25740.00
Total						**9360**	**-**	**25740.00**
IX	XY-AB	V	16	36	5	2880	2.75	7920.00
		VI	50	26	5	6500	2.75	17875.00
Total						**9380**	**-**	**25795.00**
X	XY-AB	VI	26	26	5	3380	2.75	9295.00
		VII	76	16	5	6080	2.75	16720.00
Total						**9460**	**-**	**26015.00**
Grand Total						**47120**	**-**	**129580.00**

5.5		Machineries to be used		
	a.	Drilling	:	It is proposed to use following machineries for quarrying rough stone

S.No	Type	Nos	Dia Hole mm	Make	Motive power
1	Jack hammer	3	32	Atlas Copco	Compressed air
2	Compressor	1	-	Atlas Copco	Diesel Drive

	b.	Loading	:	Excavator of 0.90m^3 bucket capacity (with Rock breaker attachment) (1No).
	c.	Transportation	:	Tipper 3Nos (10/20Ts) capacity.



5.6		Disposal of Overburden	:	The overburden in the form of Gravel, after the excavation gravel will be directly loaded into tipper to the needy buyers for road project and construction works for filling and leveling of low lying areas.
5.7		Brief Note on Conceptual Mining Plan for the entire lease period	:	Conceptual Mining Plan is prepared with an object of Ten years of systematic development of bench lay outs, selection of ultimate pit limit, depth of quarrying, ultimate pit slope, selection of sites for construction of infrastructures etc. Ultimate pit size is designed based on certain practical factors such as the economical depth of mining, safety zones, permissible areas etc. Ultimate Pit dimension is given as under,

Ultimate Pit dimension (M) end of quarry lease Period			
Pit No	Length (max) in (m)	Width (Avg) in (m)	Depth(max) in(m)
I	151	71	32

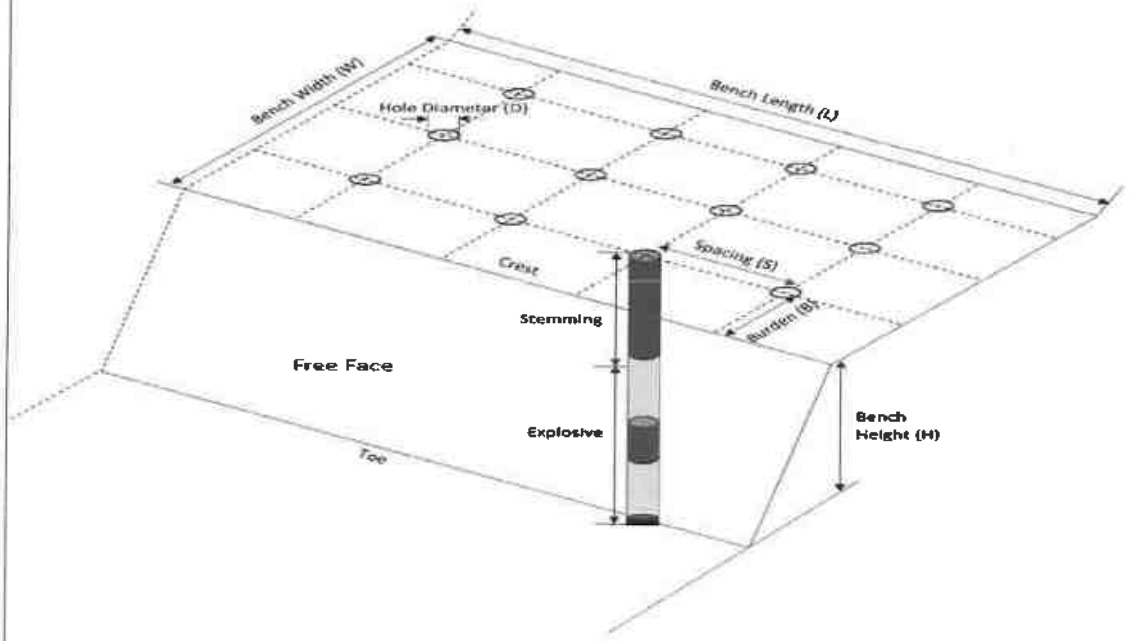
Afforestation has been proposed on all along the boundary barrier by planting trees.

All the baseline information studies like Air Quality monitoring, Noise and Vibration monitoring, Water Analysis studies will be carried out every year as per the MOEF norms.

6.0 Blasting:

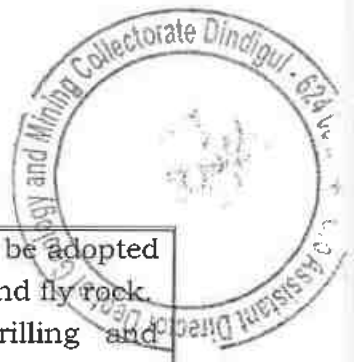
6.1	Blasting Pattern	:	The massive formation shall be broken into pieces of portable size by drilling and blasting using jack hammers and shot hole blasting. Powder factor of explosives for breaking such hard rock shall be in the order of 6 to 7 Tonnes per Kg of explosives. Blasting parameters are as follows.

Diameter of the hole	Spacing	Depth	Burden for hole	Pattern of hole	Inclination of hole
32-36mm	0.6m	1 to 1.5m	0.6m	Zig Zag	70^0 from the horizontal



6.2	Types of Explosives	:	Small dia, 25mm slurry explosive 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.

O/o Assistant Director, Dept. of Geology and Mining Collectorate Dindigul - 624 004.



6.3	Measures proposed to minimize ground vibration due to blasting	:	➢ Controlled blasting measures will be adopted for minimizing ground vibration and fly rock. ➢ Shallow depths jackhammer drilling and 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 rock.

Number of holes	:	68
Powder factor	:	6Ts/Kg of explosives
Total explosive required	:	34Kg slurry explosives
Charge / hole	:	0.5Kg
Blasting time	:	12-2 Pm

6.4	Storage of Explosives and safety measures to be taken while blasting.	:	➢ The applicant will engage an authorized explosive agency to carry out the small amount of blasting and it will be supervised by competent and statutory foreman/ mines manager. ➢ ***The applicant ensure that will appoint the Mate (Should have Valid Blaster Certificate) during Blasting Operation.***

7.0 Mine Drainage:

7.1	Depth of Water table	:	The ground water table is reported as 82m below ground level. In the proposed mining plan only 32m (below ground level) depth has been envisaged as workable depth for safe & economic quarrying for the entire lease period. Hence the quarrying operation may not affect the ground water.
7.2	Arrangement and Places where the mine water is finally proposed to be discharged	:	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 300lpm and it shall be pumped about periodically by a stand by diesel powered Centrifugal pump motivated with 7.5H.P.Motor. The quality of water is potable and it is not contaminated with any hazardous things. Hence, water stored in the quarry pit will be pumped into the adjacent agricultural fields. Further the water stored in the old pit will also be used for plantation purposes



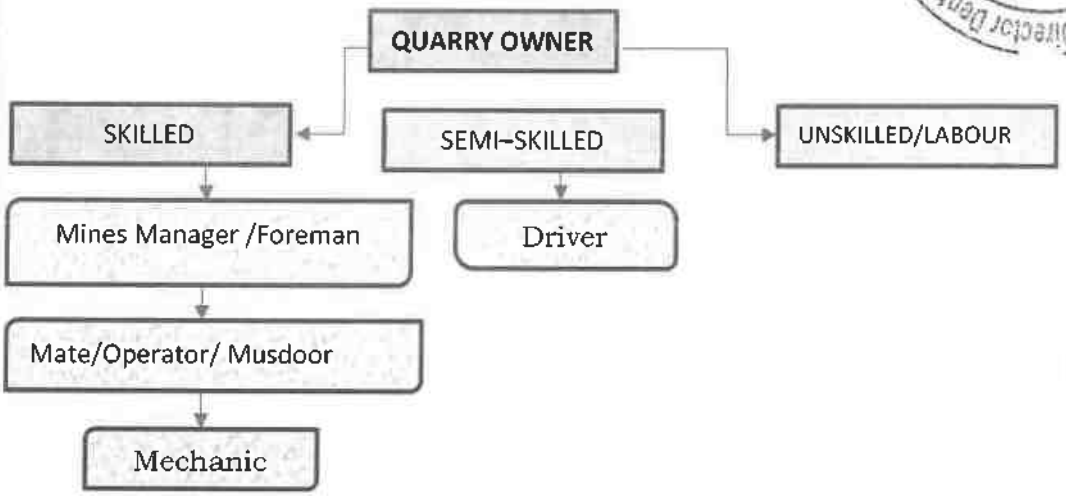
8.0	**Other Permanent Structures:**		
8.1	Habitations / Village	:	There is no habitations situated within a radius of 300m.
8.2	Power lines (HT/LT)	:	There is no Power line (HT/LT) passing within a radius of 50m.
8.3	Water bodies (River, Pond, Lake, Odai, Channel etc)	:	There is seasonal odai passing on south, north side and is 360m, 400m away from lease applied area. there is tank situated on north side and is 380m away from the lease applied area.
8.4	Archeological / Historical Monuments	:	There are no Archaeological / Historical Monuments within a radius of 300m.
8.5	Road (NH, SH, Village Road etc)	:	The National Highway (NH-83) Dindigul – Coimbatore is about 5.3Km on north side of the area. The State Highway (SH-192) Thalaiyuthu–Kallimandayam is about 5.8Km on north side of the area.
8.6	Places of Worship	:	There are no Places of Worship within a radius of 50m.
8.7	Reserved Forest / Forest / Social Forest / Wild Life Sanctuary etc.,	:	There is no Reserved Forest, Wild Life Sanctuary within a radius of 1Km.
8.8	Any Interstate Border, Protected areas under the Wild Life (Protection) Act, 1972, Critically Polluted Areas as Identified by Central Pollution Control Board and Notified Eco sensitive areas	:	There are No inter State border within a radius of 10Kms.
8.9	Any Other Structures	:	Nil

Collectorate Dindigul - 624 004. Dy. Assistant Director Dept. of Geology and Mining

9.0 Employment Potential & Welfare Measures:

9.1 Employment Potential (Management & Supervisory personal)

The proposed organization chart



1.	Skilled	Mines Manager	1 No.
		Foreman / Mate	2 No.
		Operator	8 No.
		Mechanic	1 No.
2.	Semi-skilled	Driver	3 No.
3.	Unskilled	Labours	12Nos
		Total =	27Nos

Allowing 10% absentee, the no. of men of roll will be around 25.

The above man power is adequate to meet out the production schedule and the machinery strength envisaged in the mining plan and to comply the statutory provisions of Mines Safety Regulations.

- **It is been ensured that, child labours under 18 years of age will not be engaged for quarrying operation.**
- **Necessary life insurance policies will be taken by the applicant to all the employees up to the end of the lease period.**

9.2		Welfare Measures		
	a.	Drinking Water	:	Packaged drinking water is available from the nearby approved water vendors in Kasanayampatty village which is about 1.1Km on northeast side of the area.

Assistant Director Geology and Mining Collectorate Dindigul - 624

	b.	Sanitary facilities	:	Semi-permanent latrines & urinals shall be maintained at convenient places for use of labours as per the provisions of Rule (33) of the Mines Rules, 1955 separately for males and females. Washing facilities shall also be arranged as per rule (36) of the Mines Rules, 1955.
	c.	First Aid Facility	:	First aid kits are kept in Mines office room, in case of such eventualities the victim will be given first aid immediately at the site and injured person will be taken to the hospital. Hospital is available at distance of 9.5Km (SE) in Palani the competent and Statutory foreman/ permit manager will be in charge of first aid.
	d.	Labour Health	:	As per Mines Rule, Periodic medical examination related to occupational health safety will be conducted to all the workers in applicant's own cost.
	e.	Precautionary safety measures to the Labourers:		

Safety provisions like helmet, goggles, 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 systematic quarrying operation.





Geology and Mining Collectorate Dindigul - 624 004. O/o Assistant Director Department

PART – B

10.0 Environmental Management Plan:

10.1	Existing Land Use Pattern	:	1. The area is exhibits almost plain topography covered by gravel formation. 2. Quarrying operation is proposed up to a depth of 32m (below ground level) for the proposed mining plan period. 3. Fluctuation of Water table in this area is in between 82m and 79m during a year. 4. This region receives the average annual rainfall of 800mm to 900mm. The surrounding area is practiced by the seasonal cultivation. The existing land use pattern is given as under.

Table No-5

Sl. No.	Land Use	Present Area (Ha)	Area in use during the quarrying period (Ha)
1.	Quarrying Pit	Nil	1.07.5
2.	Infrastructure	Nil	0.01.0
3.	Roads	Nil	0.01.0
4.	Green Belt	Nil	0.38.5
5.	Unutilized	1.48.0	Nil
	Total =	**1.48.0**	**1.48.0**

10.2	Water Regime	:	Water table in this area is noticed at a depth of 82m and presently, in the proposed mining plan only 32m (below ground level) depth has been envisaged as workable depth for safe & economic quarrying for the entire lease period. Hence, it will not affect the ground water depletion of this arca.
10.3	Flora and Fauna	:	Except acacia bushes, no other valuable trees are noticed in the applied area. Further, neither flora of botanical interest nor fauna of zoological interest is noticed in this area.

Collectorate Dindigul
Geology and Mining
Asstant D

10.4	Climatic conditions	:	Generally subtropical climatic condition prevails throughout the year and there is no sharp variation in climate. 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 maximum of 42°C during the summer.
10.5	Human Settlement	:	The nearest habitations with the population is given as under. Table No-6

S. No	Name of the Village	Approximate distance & Direction from lease applied area	Approximate population
1.	Kasanayampatty	1.1Km - NE	500
2.	Sithraikulam	2.3km - NW	300
3.	R.Vadipatti	1.8km - SE	400
4.	Pappampatti	2.9km - SW	1200

10.6	Plan for Air, Dust Suppression	:	Air or dust expected to be generated from drilling process, hauling roads, places of excavation etc., will be suppressed by periodical wetting of land by water spraying. Wet drilling and dust extractor arrangements will be provided to drilling units so as to control raise of dust from the site of drilling. Operators, those exposed directly to such conditions will be provide such protective equipment like mask, ear plug, helmet, gloze etc., as per the Mines Act.
10.7	Plan for Noise Control	:	Quarrying of Rough Stone will be carried out by drilling and blasting by using low power explosives, and hence, noise will be very minimum. However, periodical noise level monitoring will be carried out to check the noise level in and around the quarry site. Nowhere the noise level should exceed the permissible limit of 80db during the quarry working hours.

10.8	Environmental Impact Assessment Statement Describing Impact on mining on the next Five years	:	The mining plan proposed is for a small production of Rough stone without involving deep hole drilling and heavy blasting. Such limited mining activity is not likely to cause any impact adversely on environment as far as pollution of air, water and noise is concerned, anyhow environmental impact studies will be conducted as per EIA notification issued by MOEF.
10.9	Proposal for Waste Management	:	There is no waste anticipated in this rough stone quarry operation.
10.10	Proposal of Reclamation of Land affected during mining activities and at the end of mining.	:	In the proposed mining plan 32m (below ground level) depth has been envisaged as workable depth for safe & economic mining during the lease period. Hence, after quarry reaches ultimate pit limit (for this lease period) of 32m depth, fencing will be constructed around the quarried pits to prevent inherent entry of the public and cattle.
10.11	Program for Afforestation	:	The 7.5m and 10m safety distance along the lease boundary has been identified to be utilized for afforestation Appropriate native species of Neem/Pungan trees will be planted in the first year. Nearly 3850Sqm area is proposed to use under afforestation by planting 462nos of Neem/Pungan trees during first year with an anticipated survival rate of 80%. The Quarry landuse, layout and afforestation plan is shown in Plate No.III.
10.12	Proposed Financial Estimate / Budget for (EMP) Environment Management		
	A. Fixed Asset Cost: 1. Land Cost (600000/1Ha)= 2. First aid room and accessories 3. Labour Shed 4. Sanitary Facility **Total=**		 Rs. 8,88,000 Rs.1,00,000 Rs.1,00,000 Rs.1,00,000 **Rs. 11,88,000/-**



	B. Operational Cost: 1. Machineries 2. Fencing cost **Total**	: : :	 Rs.50,00,000- Rs. 1,50,000 **Rs.51,50,000/-**
	C.EMP Cost: **Expenditure** 1. Drinking water facility 2. Sanitary Arrangements 3. Safety kids 4. Water sprinkling 5. Afforestation **Total=**	: : : : 	Budget Provision for the entire quarrying period. Air Quality Sampling = Rs. 40,000/- Water Quality Sampling = Rs. 40,000/- Noise Monitoring = Rs. 20,000/- Ground vibration test = Rs. 20,000/- Rs.1,00,000/- Rs. 50,000/- Rs. 50,000/- Rs. 1,00,000/- Rs. 80,000/- **Rs. 5,00,000/-**
	Total Project Cost (A+B+C)	:	**Rs. 68,38,000 /-**
	CSR Cost(2% of Total Project Cost)	:	**Rs. 1,36,760/-**

11.0 Mine Closure Plan:

11.1	Steps proposed for phased restoration, reclamation of already mined out area.	:	There is no proposal for back filling, reclamation and rehabilitation. The quarried pits after the end of the life of lease will be fenced to prevent inherent entry of public and cattles.
11.2	Measures to be under taken on mine closure as per Act & Rules	:	Measures will be taken as per the Acts and Rules. The quarried pit will be fenced by using Barbed wire fencing to prevent inherent entry of public and cattle.
11.3	Mitigation measures to be undertaken for safety and restoration/ reclamation of the already mined out area	:	Mitigation measures: Drilling will be carried out by wet drilling mode to control the dust propagation into the air. Blasting will be carried out on limited scale. Mist Water spraying on haul road is proposed to prevent the dust propagation into the air.



12.0 Any Other Details Intend to Furnish by the Applicant:

(i) Permission will be obtained from the District Mines Office to extract the Rough Stone from the Boundary barriers and for slopes.

(ii) Care and precautionary measures will be taken for the safety of workers as per Rules and Acts.

(iii) The applicant will endeavor every attempt to quarry the Rough Stone economically without any wastage and to improve the environment and ecology.

(iv) The Mining Plan is prepared by incorporating the conditions stipulated in the precise area communication issued and relevant mining laws in force.

(v) Any violation pointed out by the inspecting authorities shall be rectified as per the guidelines of the Department.

Prepared by

C.Natarajan, M.Sc., M.Phil.,
Qualified Person

C.NATARAJAN M.Sc.,M.Phil.,
Qualified Person

Place: Salem
Date: 03.03.2026

This Mining is approved based on guidelines / Instructions issued in the CGM, Letter No : 3888/LC/2012 dated 19-11-2012 and incorporation of the particulars specified in the letter Roc.No Dated of the Assistant Director of Geology and Mining, Dindigul and subject to further Fulfillment of the conditions laid down under rule 41,42 of Tamil Nadu Miner Mineral Concession Rules 1959

Assistant Director of Geology & Mining
Dindigul

ANNEXURE I

புவியியல் மற்றும் சுரங்கத்துறை

ந.க.எண்: 1206/2025 (கனிமம்)

உதவி இயக்குநர் அலுவலகம்,
மாவட்ட ஆட்சியர் அலுவலக வளாகம்,
திண்டுக்கல்.

நாள்: .02.2026



குறிப்பாணை

பொருள்: கனிமங்களும் சுரங்கங்களும் - திண்டுக்கல் மாவட்டம் - திண்டுக்கல் மாவட்டம், பழனி வட்டம், வடக்குதாத நாயக்கன்பட்டி கிராமம், புல எண். 157/2-ல் 1.48.0 ஹெக்டேர் - பத்து வருடங்களுக்கு உடைகல் மற்றும் கிராவல் குவாரி குத்தகை உரிமம் வழங்கல் - உகந்த பரப்பு (Precise Area) தேர்வு செய்யப்பட்டது - சுரங்கத்திட்டம் மற்றும் மாநில அளவிலான சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் இசைவினைப் பெற்று சமர்ப்பிக்க கோருவது - தொடர்பாக.

பார்வை:
1. திரு.பெ.மணிகண்டன், த/பெ.பெருமாள்சாமி, காரச்சேரி, கிணத்துக்கடவு வட்டம், கோயம்புத்தூர் என்பவரது மின்னணு விண்ணப்பம் எண். 25DGL0405059 நாள்: 09.10.2025
2. இவ்வலுவலக கடிதம் ந.க. எண்: 1206/2025 (கனிமம்), நாள்: 28.10.2025 பழனி வருவாய் கோட்டாட்சியருக்கு முகவரியிட்டது.
3. பழனி வருவாய் கோட்டாட்சியர் கடிதம் எண்: 131/2026/அ7, நாள்: 09.01.2026
4. உதவி இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை அவர்களின் புலத்தணிக்கை அறிக்கை நாள்: 17.02.2026
5. திரு.பெ.மணிகண்டன், த/பெ.பெருமாள்சாமி, காரச்சேரி, கிணத்துக்கடவு வட்டம், கோயம்புத்தூர் என்பவரது கடிதம் நாள்: 17.02.2026
6. 1959 -ம் வருடத்திய தமிழ்நாடு சிறுகனிம சலுகை விதிகள் 41 மற்றும் 42.
7. அரசாணை எண்.169 தொழில் (எம்.எம்.சி.1) துறை, நாள்: 04.08.2020.
8. அரசாணை எண்.208, தொழில் (எம்.எம்.சி.1) துறை, நாள்: 21.09.2020.
9. தொடர்புடைய ஆவணங்கள்.

*****

திண்டுக்கல் மாவட்டம், பழனி வட்டம், வடக்குதாத நாயக்கன்பட்டி கிராமம், புல் எண். 157/2-ல் 1.48.0 ஹெக்டேர் பரப்பில் உடைகல் மற்றும் கிராவல் குவாரி குத்தகை உரிமம் வழங்கக்கோரி கோயம்புத்தூர் மாவட்டம், காரச்சேரி,

கிணத்துக்கடவு வட்டம், க.எண். 7/68-ல் வசித்து வரும் பெருமாள்சாமி மகன் மணிகண்டன் என்பவர் பார்வை 1-ல் காணும் விண்ணப்பத்தினை சமர்பித்துள்ளார். பழனி, வருவாய் கோட்டாட்சியர் மற்றும் புவியியல் மற்றும் சுரங்கத்துறை, உதவி இயக்குநர் ஆகியோரின் அறிக்கையில் விண்ணப்பிக்கப்பட்டுள்ள புல எண். 157/2-ல் 1.48.0 ஹெக்டேர் நிலம் பட்ட எண். 1178-ன்படி ராயன் மகன் நடராஜ்(1), பெருமாள்சாமி மகன் மணிகண்டன்(2), மயில்சாமி மகன் சுந்தர்ராஜ் (3) மற்றும் பழனிச்சாமி மகன் கோபாலகிருஷ்ணன் (4) ஆகியோர் பெயரில் கூட்டாக பட்டா தாக்கலாகியுள்ளது எனவும், கூட்டுப்பட்டாதாரர்களான ராயன் மகன் நடராஜ்(1), மயில்சாமி மகன் சுந்தர்ராஜ் (2) மற்றும் பழனிச்சாமி மகன் கோபாலகிருஷ்ணன் (3) ஆகிய மூவரும் மனுதாரர் திரு.மணிகண்டன் என்பவருக்கு குத்தகை பத்திர ஆவண எண். 2273/2025 நாள்: 23.06.2025-ன்படி 15 ஆண்டுகளுக்கு மட்டும் குத்தகை பத்திரம் செய்து கொடுத்துள்ளனர் எனவும், விண்ணப்பிக்கப்பட்ட புலங்களில் இருந்து 300 மீட்டர் சுற்றளவிற்குள் அங்கீகரிக்கப்பட்ட குடியிருப்புகள், வழிபாட்டுதலங்கள், வீட்டுமனைகள் ஏதுமில்லை. 50 மீட்டர் சுற்றளவில் தேசிய/மாநில நெடுஞ்சாலைகள், ஆறுகள், உயர் /தாழ்வழுத்த மின்கம்பங்கள், உயர் வகை மரங்கள் இல்லை எனவும், மனுதாரர் புல எண்.48 -ன் கிழக்கு பகுதியில் வண்டிப்பாதை செல்கிறது எனவும், மேலும் புலங்களில் இருந்து உடைகற்கள் உற்பத்தி செய்ய இயலும் என தெரிவித்து கீழ்காணும் நிபந்தனைக்குட்பட்டு மேற்கண்ட புலங்களில் உடைகல் குவாரி குத்தகை உரிமம் பத்து (10) ஆண்டுகளுக்கு வழங்க பரிந்துரை செய்துள்ளனர்.

1) அருகிலுள்ள பட்டா நிலங்களுக்கு 7.5 மீ மற்றும் அரசு புறம்போக்கு நிலங்களுக்கு 10 மீ பாதுகாப்பு இடைவெளி விடுத்து குவாரி செய்தல் வேண்டும்.
2) விண்ணப்ப புல எண்.157/2-ன் கிழக்குப் பகுதியில் புல எண்.48-ல் செல்லும் வண்டிப்பாதைக்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட வேண்டும்.
3) 1959 ஆம் வருடத்திய தமிழ்நாடு சிறுகனிமச் சலுகை விதிகள் விதி எண். 41 மற்றும் 42-ன்படி சுரங்கத்திட்டம் மற்றும் சுற்றுச்சூழல் தடையில்லாச் சான்று குத்தகை உரிமம் வழங்குவதற்கு முன் சமர்ப்பிக்க வேண்டும்.

எனவே, துறை அலுவலர்களின் பரிந்துரை மற்றும் மனுதாரரின் கோரிக்கையினை ஏற்றும் நிபந்தனைகளுக்கு உட்பட்டும், திண்டுக்கல் மாவட்டம், பழனி வட்டம், வடக்குதாத நாயக்கன்பட்டி கிராமம், புல எண். 157/2-ல் 1.48.0 ஹெக்டேர் பரப்பில் உடைகல் குவாரி குத்தகை உரிமம் 1959-ம் வருடத்திய தமிழ்நாடு சிறுகனிம சலுகை விதிகள் விதி எண்: 19 (1) மற்றும் 20-ன் படி பத்து (10) வருட காலத்திற்கு உடைகல் மற்றும் கிராவல் குவாரி உரிமம் வழங்க தகுதி வாய்ந்த நிலப்பரப்பாக (Precise Area) கருதப்படுகிறது.

தமிழ்நாடு சிறுகனிம சலுகை விதிகள்-1959 விதி எண்: 41 -ன்படி குவாரி பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்கத் திட்டத்தினை (Mining Plan) 90 தினங்களுக்குள் சமர்ப்பிக்குமாறும், விதி எண்: 42-ன்படி மாநில அளவிலான சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் (State Level Environmental Impact Assessment Authority) இசைவினைப் பெற்று சமர்ப்பிக்குமாறும் மனுதாரர் திரு.பெ.மணிகண்டன், த/பெ.பெருமாள்சாமி என்பவர் கேட்டுக் கொள்ளப்படுகிறார்.

21.12.22

உதவி இயக்குநர்,
புவியியல் மற்றும் சுரங்கத்துறை,
திண்டுக்கல்.

பெறுநர்

திரு.பெ.மணிகண்டன்,
த/பெ.பெருமாள்சாமி,
க.எண்.7/68, கிணத்துக்கடவு,
காரச்சேரி,
கோயம்புத்தூர் மாவட்டம்

நகல்
உறுப்பினர் செயலர்,
மாநில சுற்றுசூழல் தாக்க மதிப்பீட்டு ஆணையம் (SEIAA),
சென்னை.

ANNEXURE II

Office of the Assistant Director, Geology and Mining, Collectorate Dindigul

மாவட்டம் : திண்டுக்கல்

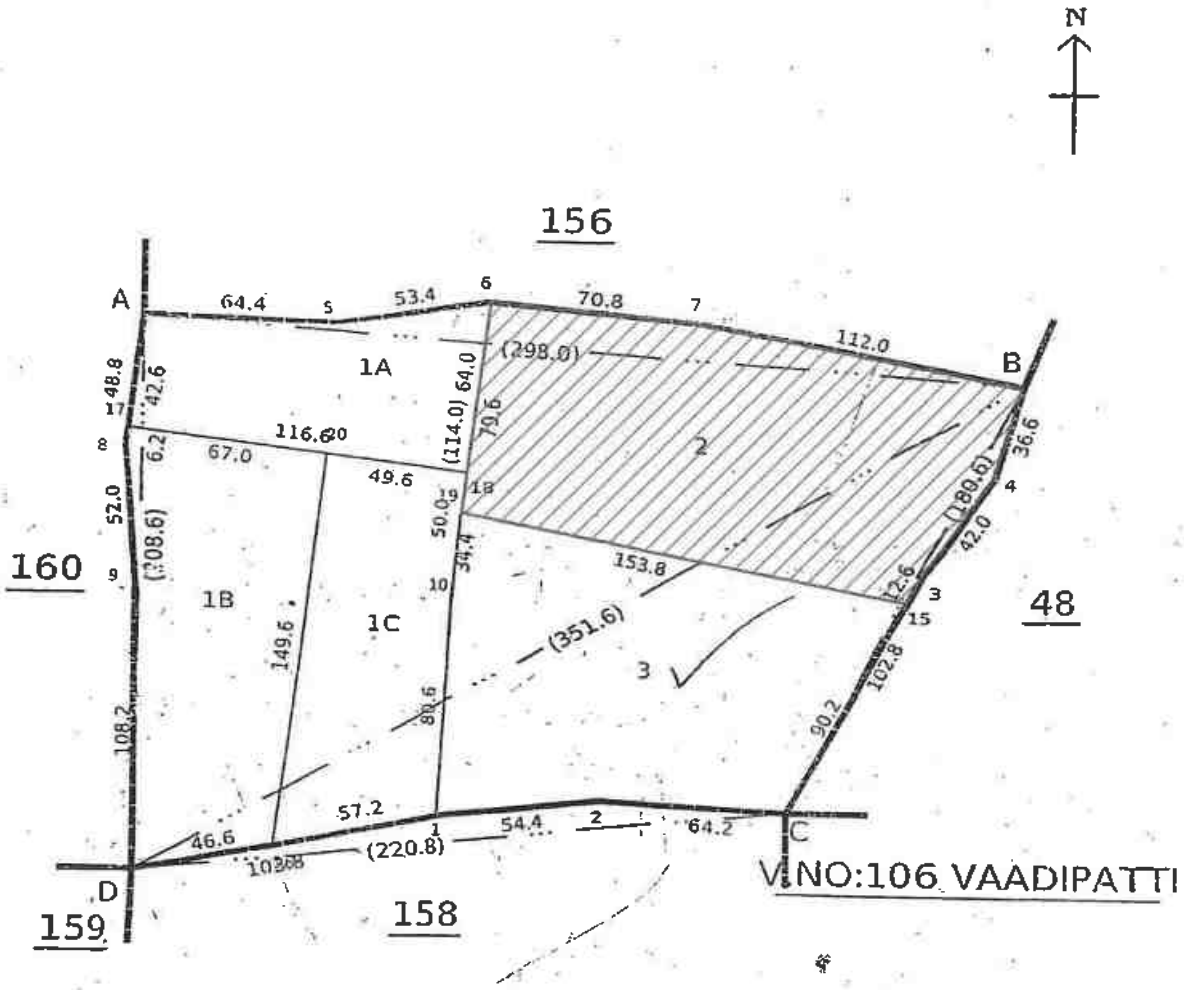
வட்டம் : பழனி

கிராமம் : தாதநாயக்கன்பட்டி வடக்கு [104]

புல எண் : 157

பரப்பளவு : எக்டர் 04 ஏர் 97.00

அளவு : 1 : 2398



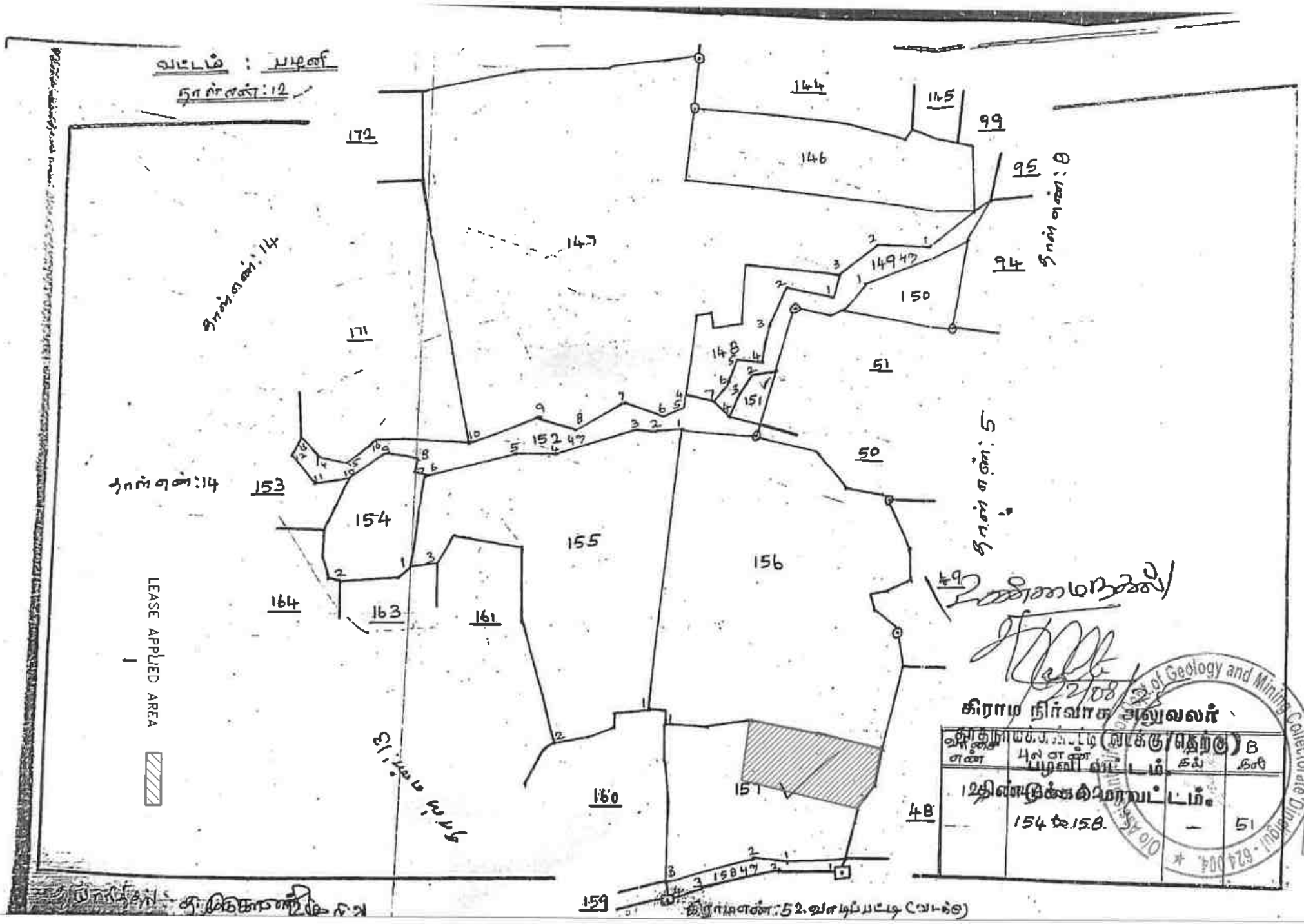
LEASE APPLIED AREA

Signed By Tahsildar
Name of approver : thpln
Date of Approval : 12-03-2018

Date of Issue: 09-05-2025 09:30:21

Survey and Settlement Department, Government of TamilNadu

240 fv.2


வட்டம் : பழனி
நாள்எண்:12
172
144
145
99
146
95
147
94
149
150
148
51
151
50
153
154
155
156
164
163
161
160
159
LEASE APPLIED AREA
கிராம நிர்வாக அலுவலர்
(வடக்கு/தெற்கு) B
புல எண்
பழனி வட்டம்
ஏக்
நிலை
12.தின்டுக்கல் மாவட்டம்
154 to 158
51
48
Dir. of Geology and Mining, Collectorate Office, Trichy - 620 004
ANNEXURE III

ANNEXURE IV



தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

மாவட்டம் : திண்டுக்கல் வட்டம் : பழனி

வருவாய் கிராமம் : தாதநாயக்கன்பட்டி வடக்கு பட்டா எண் : 1178

உரிமையாளர்கள் பெயர்

1. ராயன் மகன் நடராஜ்
2. பெருமாள்சாமி மகன் மணிகண்டன்
3. மயில்சாமி மகன் சுந்தர்ராஜ்
4. பழனிச்சாமி மகன் கோபாலகிருஷ்ணன்

புல எண்	உட்பிரிவு	புன்செய்		நன்செய்		மற்றவை		குறிப்புரைகள்
		பரப்பு	தீர்வை	பரப்பு	தீர்வை	பரப்பு	தீர்வை	
		ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	
157	2	1 - 48.00	3.18	--	--	--	--	2025/0103/13/374396 -- ------- Digitally signed:PRabhu Sivasankar Zonal Deputy Tahsildar 08/05/2025 07:54:21:PM
		1 - 48.00	3.18					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **P/13/21/104/01178/140497** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 09-10-2025 அன்று 11:07:05 AM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

1435 மாவட்டம் பாட்டம் (பகுதி)

எண் 2

கிராமத்தில் வருடவாரி புலவாரி கைப்பற்று சாகுபடி அடங்கல் கணக்கு

நிலவரித் திட்டத்தின்படி நன்செய்/புன்செய் விபரம்					நிலத்தின் எண்	முதல் போகம்					இரண்டாம் போகம்							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(18அ)	(19)
157	2	1.31.5	253	1178			—	—	—	1							—		
57	2	1.19.0	3.18	1178			—	—	—	—	—						—		

(1) வட்டம், (2) பஞ்சாயத்து யூனியன் அல்லது நகரம், (3) கிராமம் மற்றும் இதர பல்வேறு நிலவரித் திட்ட விவரங்களுக்கு பயன் படுத்தும் எண், (4) பயிரிடத்தக்க தரிசு நிலம், (5) நிலவரம் மற்றும் இதர பல்வேறு நிலவரம் (6) விவசாயத்திற்கு பயன்படுத்தப்படாத மற்றவை பயிரிடத்தக்க தரிசு, (7) நடப்புத் தரிசுகள் (8) இதர தரிசு நிலங்கள்.

கிராம நிர்வாக அலுவலர்
தாலுகா(அல்லது)மாவட்டம்
பழனி வட்டம்.
திண்டுக்கல் மாவட்டம்.

Director of Geology and Mining Collectorate Dindigul - 624 004.

ANNEXURE 2

ANNEXURE VI

அ-பதிவேடு விவரங்கள் - ஊரகம்

Office of the Assistant Director Geology and Mining Collectorate Dindigul - 624 004

மாவட்டம் : திண்டுக்கல்

வட்டம் : பழனி

கிராமம் : தாதநாயக்கன்பட்டி வடக்கு

1. புல எண்	**157**	9. மண் வயனமும் ரகமும்	**7 - 3**
2. உட்பிரிவு எண்	**2**	10. மண் தரம்	**5**
3. பழைய புல உட்பிரிவு எண்	**157-2**	11. தீர்வை (ரூ - ஹெ)	**2.15**
4. பகுதி	-	12. பரப்பு (ஹெக்டேர் - ஏர்)	**1 - 48.00**
5. அரசு / ரயத்துவாரி	**ரயத்துவாரி**	13. மொத்த தீர்வை (ரூ - பை)	**3.18**
6. நிலத்தின் வகை	**புஞ்சை**	14. பட்டா எண்	**1178**
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இரு போகமா	**0**	16. பெயர்	**மணிகண்டன் மற்றும் 2பேர்**

குறிப்பு:

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **13/21/104/157/2/140497** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

Back | Home

ANNEXURE VII

Mining Collectorate, Dindigul - 624 002

2273/2025

भारतीय गैर न्यायिक

एक सौ रुपये

Rs. 100

ONE HUNDRED RUPEES

₹. 100

सत्यमेव जयते

भारत INDIA

INDIA NON JUDICIAL

தமிழ்நாடு தமிலநாடு TAMILNADU

Rs100/-

EX 977836

S. சதீஸ் B.Sc.,
முத்திரைத்தாள் விற்பனையாளர்
உரிமம் எண்: 03/2021
C1, ஸ்ரீ விஷ்ணு காம்ப்ளக்ஸ்
புது தாராபுரம் ரோடு
பழனி - 624 601
நாள்: 23.06.2025

மணிகண்டன்
கார்த்தி.

குத்தகைப் பத்திரம்

முன் பணம் இல்லை

ஆண்டு ஒன்றுக்கு ரூ.1,000/- வீதம் 15 (பதினைந்து) ஆண்டுகளுக்கு

இரண்டாயிரத்து இருபத்திஐந்தாம் ஆண்டு ஜூன் மாதம் இருபத்திமூன்றாம் தேதி (23.06.2025)

கோயம்புத்தூர் மாவட்டம், கிணத்துக்கடவு வட்டம், பெரியகுயிலை, காரச்சேரி, கதவு எண். 3/252-5-ல் வசித்து வரும் திரு.ராயன் அவர்கள் குமாரர் (Aadhaar No: 7685 3631 0567, PAN: BDJPN5206Q) (Cell No: 99766 80909) திரு.R.நடராஜ்-1, ஷை வட்டம், காரச்சேரி, கதவு எண்.7/68-ல் வசித்து வரும்

1.
2. P. Muniyappan
3. M. Sudhakar
4.
5. P. Muniyappan

புத்தகம் 2025 ன் வருடத்திய 2273 ம்
ஆவணம் 15 நான்களைக் கொண்டது
1 வது நகல்

பதிவு எழுத்தர்

THE SEAL OF THE JOINT SUB REGISTRAR OF PALNI

திரு.பெருமாள்சாமி அவர்கள் குமாரர் (Aadhaar No: 3801 9799 1056, PAN: BMEPM6055N) (Cell No: 98428 96223) திரு.P.மணிகண்டன்-2, ஷை வட்டம், காரச்சேரி, கதவு எண். 3/252-ல் வசித்து வரும் திரு.மயில்சாமி அவர்கள் குமாரர் (Aadhaar No: 2855 3850 1633, PAN: DJDPS8639Q) (Cell No: 99521 50130) திரு.M.சுந்தர்ராஜ்-3, ஷை மாவட்டம், கப்பளாங்கரை, மாரியம்மன் கோவில் வீதி, கதவு எண்.2/16-ல் வசித்து வரும் திரு.பழனிச்சாமி அவர்கள் குமாரர் (Aadhaar No: 9674 6636 0238, PAN: APRPG6731N) (Cell No: 98425 94510) திரு.P.கோபாலகிருஷ்ணன்-4 சொத்து சுவான்தார்கள்.

கோயம்புத்தூர் மாவட்டம், கிணத்துக்கடவு வட்டம், காரச்சேரி, கதவு எண்.7/68-ல் வசித்து வரும் திரு.பெருமாள்சாமி அவர்கள் குமாரர் (Aadhaar No: 3801 9799 1056, PAN: BMEPM6055N) (Cell No: 98428 96223) திரு.P.மணிகண்டன்-5 குத்தகைதாரர் ஆக நாம் ஐந்து பேர்களும் சேர்ந்து எழுதிக்கொண்ட குத்தகைப்பத்திரம் என்னவென்றால்..

நம்மளில் 1,2,3,4 லக்க நபர்களுக்கு சென்ற 25.03.2025-ந் தேதிய பழனி 2 நிர் சார்பதிவகம் 1 புத்தகம் 1097/2025-ம் எண் பதிவு கிரையப் பத்திரம் மூலமும், சென்ற 08.04.2025-ந் தேதிய பழனி 2 நிர் சார்பதிவகம் 1 புத்தகம் 1314/2025-ம் எண் பதிவு கிரையப் பத்திரம் மூலமும் சுயார்ஜித வகையில் சர்வ சுதந்திர பாத்தியப்பட்டு பிறர் சுவாதீனமின்றி அனுபவித்து வருகின்ற சொத்துக்களில் இதில் கண்ட சொத்தை மட்டும் ஆண்டு ஒன்றுக்கு ரூ.1,000/- வீதம் 15 (பதினைந்து) ஆண்டுகளுக்கு முன் பணம் இல்லாமல் குத்தகைக்கு பேசி முடித்து ஐந்து பேர்களும் ஒப்புக்கொண்டு நாளது தேதியில் 5 லக்க நபரிடம் 1,2,3,4 லக்க நபர்கள்

1.
2. P.
3. M.
4.
5. P.

1 புத்தகம் 2025 ம் வருடத்திய 2273 ம்
ஆவணம் 15 நான்காவைக் கொண்டது
2 வது தாள்
பதிவு அலுவலர்

மொத்த குத்தகை தொகை ரூ.15,000/-(ரூபாய் பதினைந்தாயிரம்) மட்டும் ரொக்கமாக பெற்றுக்கொண்டு இதில்கண்ட சொத்தை இன்றே 1,2,3,4 லக்க நபர்கள் ஒப்படைத்து 5 லக்க நபர் சுவாதீனம் அடைந்து கொண்டபடியால் நாளது தேதியிலிருந்து 15 (பதினைந்து) ஆண்டுகளுக்கு அதாவது 23.06.2025ம் தேதி முதல் 22.06.2040ம் தேதி வரை எந்தவித ஆட்சேபணையும் இல்லாமல் வேண்டும் தொழில் செய்து 5 லக்க நபர் அனுபவித்துக் கொள்ளவேண்டியது.

நாளது தேதியிலிருந்து 15 (பதினைந்து) ஆண்டுகள் முடிந்தவுடன் (22.06.2040) எந்தவிதமான ஆட்சேபணையும் இல்லாமல் இதன் 1,2,3,4 லக்க நபர்கள் இதில் கண்ட சொத்துக்களை சுவாதீனம் பெற்றக்கொள்ளவேண்டியது.

குத்தகை காலத்தில் நிலவரியை இதன் 1,2,3,4 லக்க நபர்களே செலுத்தி கொள்ளவேண்டியது. இந்தப்படி நம் ஐந்து பேர்களின் முழுமனச்சம்மதத்துடன் எழுதிக்கொண்ட குத்தகை பத்திரம்.

சொத்து விபரம்

பழனி ரீடி. பழனி சப்டி 2, பழனி வட்டம், வடக்கு தாதநாயக்கன்பட்டி கிராமம், பட்டா எண்கள்.1178 மற்றும் 1193-ல் கண்ட

சர்வே 157/2 நிர் முழுப்புலம் ஹெக்.1.48.00-க்கு ஏக் 3 செ 66-ம்

சர்வே 157/3 நிர் முழுப்புலம் ஹெக்.1.31.50-க்கு

ஏக் 3 செ 25-ல் வடபுறம் கிழமேலாக ஹெக்.0.28.34-க்கு ஏக் 0 செ 70-ம்

ஆக மொத்தம் ஹெக்.1.76.34-க்கு ஏக் 4 செ 36 உள்ள புஞ்சை நிலத்திற்கு நான்கு மால் விபரம்.

1.

2.

3.

4.

5.

1 புத்தகம் 2025 ம் வருடத்திய 2273 ம்
ஆவணம் 15 நான்கலகக் கொண்டது
3 வது ஷால்
பதிவு அலுவலர்

வடக்கு	-	சர்வே 156/1 நீர் தே.உ.சா நிலம்
கிழக்கு	-	சர்வே 413 நீர் வண்டிப்பாதை
தெற்கு	-	சர்வே 157/3 நீர் எங்கள் கைவசம் உள்ள மீதி நிலம்
மேற்கு	-	சர்வே 157/1A, 157/1C நீர் தங்கவேல் நிலங்கள்

இதற்குள் மேற்படி ஹெக்.1.76.34-க்கு ஏக் 4 செ 36 உள்ள புஞ்சை நிலங்களும், மேற்படி நிலங்களுக்கு ஏற்பட்ட சகல மாமூல் அனுபவ பாத்தியமும் மாமூல் வழிநடை பாதை பாத்தியமும் சேர்ந்து.

1.
2.
3.
4.
5.

சாட்சிகள் :

1. M.பொன்னுச்சாமி (Aadhaar No: 5627 6106 2636) த/பெ.மயில்சாமி, 2/368, ஆலமரத்தோட்டம், அரசம்பாளையம், கோயம்புத்தூர். (Cell No: 98946 80758)

2. P.ராஜமாணிக்கம் (Aadhaar No: 3185 9254 8517) த/பெ.பொன்னுச்சாமி, 13/5, பன்னர் மேற்கு தெரு, பெரியகலையம்புத்தூர், நெய்க்காரபட்டி, பழனி Tk. (Cell No: 94429 93277)

ஆவணம் தயாரித்தவர்:



R.பவுல் டாமினிக், பழனி.
L.No.B99/PLN/1991
pauldominic61@gmail.com
Cell.98941 38510
88252 50850.

1 புத்தகம் 2025 ம் வருடத்திய 2273 ம் ஆவணம் 15 தாய்மனைக் கொண்டது 4 பக்கம்

பதிவு அலுவலர்

THE SEAL OF THE JOINT SUB REGISTRAR OF PALNI

உறுதிமொழி

இந்த ஆவணத்தை எழுதிக் கொடுப்பவர்களும், எழுதிப்பெறுபவர்களும் கீழ்க்கண்ட உறுதி மொழியை அளிக்கின்றோம்.

வழக்கிடை ஆவணை சொத்து பதிவுச்சட்டம் 1908 பிரிவு 22 (A) மற்றும் பிரிவு 22(B)-க்கு உட்பட்டதல்ல எனவும், ஆவணத்துடன் இணைக்கப்பட்ட அனைத்து ஆவணங்களும் இந்திய தண்டனை சட்டம் 1860 பிரிவு 470-ன்படி Forged Document அல்ல எனவும், ஆவணத்தை எழுதிப்பெறுவர் அனைத்து ஆவணங்களையும் பரிசீலித்து விலைங்கம் சரிபார்த்து எழுதிப் பெறுகிறோர் எனவும், சொத்து மாற்றுச் சட்டம் 1882-ன்படி சொத்து பரிமாற்றம் தொடர்பான அனைத்து பிரிவுகளுக்கும் உட்பட்டு செயல்பட்டுள்ளோம் எனவும் உறுதிமொழி அளிக்கின்றோம்.

மேலும் இதனில் தங்களுக்கு தவறான தகவல்கள் அல்லது சான்று அளிக்கப்பட்டதாக பின்னால் கண்டுபிடிக்கப்பட்டால் அதற்கு நாங்கள் மட்டுமே பொறுப்பு ஆவோம் எனவும் அதற்கான சட்டபூர்வ நடவடிக்கைக்கு கட்டுப்படுகிறோம் எனவும், இதற்கு சார்பதிவாளர் எவ்விதத்திலும் பொறுப்பாக மாட்டார் எனவும் உறுதிமொழி அளிக்கின்றோம்.

மேற்படி சொத்தானது நீர்நிலை பகுதியில் அமையப் பெறவில்லை என்பதற்கான சான்று/உறுதிமொழி (உயர்நீதி மன்ற நீதிபேராணை எண்.22163/2018 வழங்கப்பட்ட தீர்ப்புரையின்படி)

இந்த ஆவணத்தில் கண்ட சொத்தானது நீர்நிலைகள், நீர்வழிப்பாதைகள், நீர்பிடிப்பு பகுதிகளில் கட்டுப்படவில்லை என சான்றளிக்கிறேன். மேலும் இதனில் தங்களுக்கு தவறான தகவல் அல்லது சான்று அளிக்கப்பட்டதாக பின்னாளில் கண்டுபிடிக்கப்பட்டால் அதனால் நான் சட்ட பூர்வ நடவடிக்கைகளுக்கு உட்படுத்தப்படுவேன் என்பதையும் அறிவேன்.

1.
2.
3.
4.
5.

1 புத்தகம் 2025 ம் வருடத்திய 2273 ம்
ஆவணம் 15 நாள்களாகக் கொண்டது
5 வது நாள்
பதிவு அலுவலர்

THE SEAL OF THE JOINT SUBREGISTRAR OF PALNI


Government of India
P Manikandan
DOB: 18/07/1973
MALE
3801 9799 1056
VID : 9147 1672 6635 7558


Unique Identification Authority of India
S/O: Perumalsamy, 7/68, KARACHERY,
KINATHUKADAVU(TK, Chettipalayam,
Coimbatore,
Tamil Nadu - 641201
Address:
S/O: Perumalsamy, 7/68, KARACHERY,
KINATHUKADAVU(TK, Chettipalayam,
Coimbatore,
Tamil Nadu - 641201
3801 9799 1056
VID : 9147 1672 6635 7558


Deputy Director
Geology and Mining
Collectorate
624 004

ANNEXURE 17

CHETTINAD CEMENT CORPORATION LTD.

(Regd. Office: RANI SEETHAI HALL BUILDING IV & V FLOORS, 603, ANNA SALAI, MADRAS 600006.)
WORKS OFFICE: PULIYUR.

TELE: PHONE 21144 / 22744 / 21745 KARUR
GRAM "CEMENT" Puliyur C.F.
Telex: 0456-215.
STD Code: 04324

All Correspondences to
Kumararajah Muthiah Nagar,
PULIYUR CEMENT FACTORY POST 639114.
(Karur Taluk, Trichy Dt.)

Collectorate Dindigul - 624 004
O/o Assistant Director Geology & Mining

T.RAJU.,B.E.,
MINES MANAGER & DY.GENERAL MANAGER.

22nd September,1987.

CERTIFICATE.

This is to certify that Mr.C.Natarajan has been working as a Geologist from 14-12-1979 to till date. He has been incharge of supervision of day to day functions in respect of Exploration, Preparation of Geological Plans & Sections, Preparation of Mines Plans, and Quality control and other allied mining activities in the following Pits of our Seethainagar Limestone Mines in Anna District.

Name of the Pit.		Average Raising/day.
1. Alambadi Pit.	-	1,700 T.
2. Mallapuram Pit.	-	900 T.
3. Karikkali Pit.	-	150 T.
Total.	-	2,750 T.

He has got nearly Eight years of total experience in our Mines in the above supervisory capacity.

for CHETTINAD CEMENT CORPORATION LTD.,

(T.RAJU).
Mines Manager & Dy. General Manager.

3209.



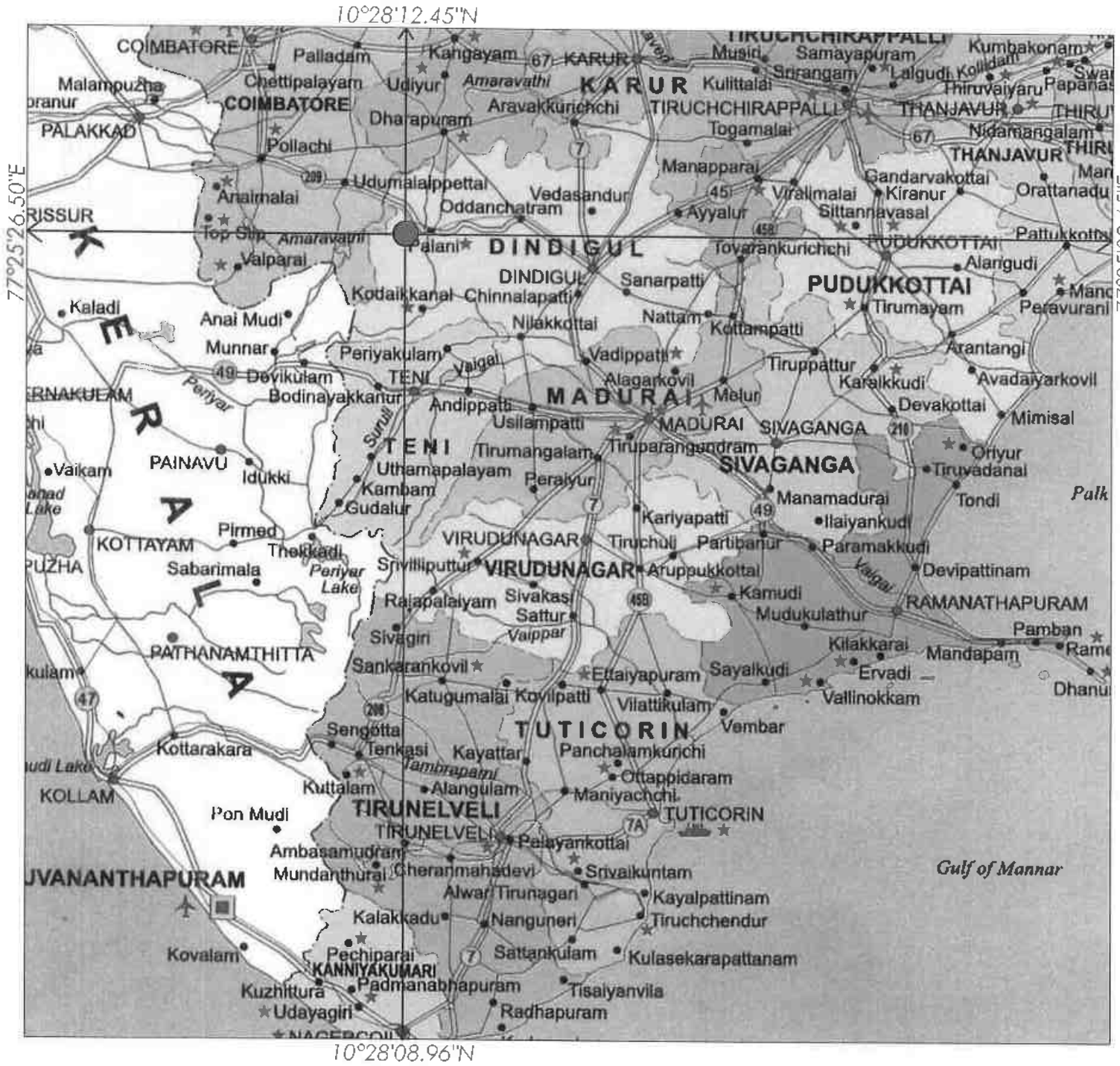
Faculty of Science

The Senate of the Annamalai University hereby makes known that E. Natarajan has been admitted to the Degree of Master of Science (by Examination) in Geology, he having been certified by duly appointed Examiners at the examination held in April 1976, to be qualified to receive the same and that he was placed in the First Class.

Given under the seal of the University.

Annamalainagar
8th December 1976.

A. Chandrasekhara
Vice-Chancellor.



N

PLATE NO-I

DATE OF SURVEY: 02.03.2026

APPLICANT:

THIRU.P.MANIKANDAN,
S/o.PERUMALSAMY,
DOOR NO.7/68, KINATHUKADAVU,
KARACHERY,
COIMBATORE DISTRICT.

QUARRY LEASE APPLIED AREA:

S.F.NO : 157/2,
EXTENT : 1.48.0Ha,
VILLAGE : THATHANAICKENPATTI NORTH,
TALUK : PALANI,
DISTRICT : DINDIGUL.

INDEX

Q.L.APPLIED AREA :

TOPO SHEET NO : 58 F / 07

LATITUDE :10°28'08.96"N to 10°28'12.45"N

LONGITUDE :77°25'26.50"E to 77°25'32.65"E

LOCATION PLAN

NOT TO SCALE

PREPARED BY :

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT.

Asst. Director Dept.of Geology and Mining Collectorate Dindigul - 624 004

C.NATARAJAN,M.Sc.,MBA.,
QUALIFIED PERSON

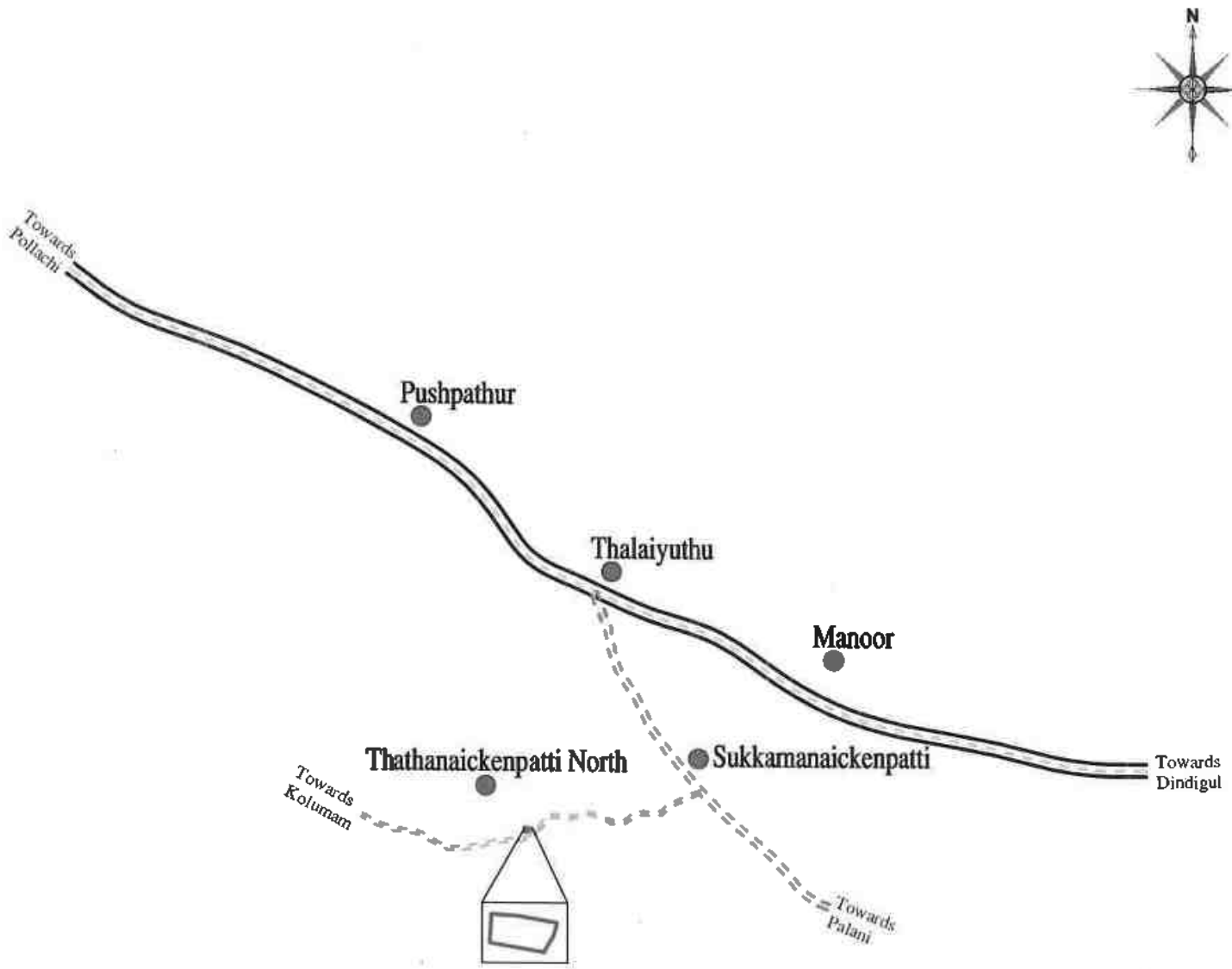


PLATE NO-ID

DATE OF SURVEY: 02.03.2026

APPLICANT:

THIRU.P.MANIKANDAN,
S/o.PERUMALSAMY,
DOOR NO.7/68, KINATHUKADAVU,
KARACHERY,
COIMBATORE DISTRICT.

QUARRY LEASE APPLIED AREA:

S.F.NO : 157/2,
EXTENT : 1.48.0Ha,
VILLAGE : THATHANAICKENPATTI NORTH,
TALUK : PALANI,
DISTRICT : DINDIGUL.

INDEX

Q.LEASE APPLIED AREA	
NATIONAL HIGHWAY	
VILLAGE ROAD	
CART TRACK	
APPROACH ROAD	
HABITATIONS	

KEY PLAN

Not To Scale

PREPARED BY :

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT

Mines and Mining Collectorate Dindigul - 624 004

C.NATARAJAN, M.Sc.,M.Phil.,
QUALIFIED PERSON

ANNEXURE-4

From

S.Krishna Mohan,
Assistant Director,
Geology and Mining,
Dindigul

To

Thiru.P.Manikandan,
S/o.Perumalsamy,
Door No.7/68, Kinathukadavu,
Karachery,
Coimbatore

Rc.No. 1206/2025 (Mines), dated: 12.03.2026.

Sir,

Sub: Mines and Minerals - Minor Mineral - Rough stone – Dindigul District - Palani Taluk - North Thathanaickenpatti Village - Patta Land in S.F.No.157/2 over an extent of 1.48.0 Hectare – preferred by Thiru.P.Manikandan - requesting Rough Stone quarry lease - Details of quarries located in 500m radius - requested - furnished - reg.

Ref: Mining Plan submitted by Thiru.P.Manikandan, S/o.Perumalsamy, Karachery, Coimbatore dated.02.03.2026

❖❖❖❖❖❖

In the reference cited, Thiru.P.Manikandan the applicant of proposed Rough Stone quarry lease in S.F.No.157/2 over an extent of 1.48.0 Hectare., of North Thathanaickenpatti Village, Palani Taluk has requested to furnish the details of quarries located within 500 meters radius from his proposed quarry.

In this regard, the followings are furnished.

i). Existing quarries

Sl. No.	Name of the Owner (Tvl.)	Village & S.F. Nos.	Extent in Hect.	Lease Period
1.	P.Devaraj, S/o.Palanisamy Gounder, D.No.30, Thirukumaran Nagar, Singanallur, Coimbatore	Thathanaicken patti 160/1(P)	2.00.0	13.09.2021 to 12.09.2026
2.	S.Manikandan, S/o.Sooriyamoorthi No.2/227, Kallar Street, Karambaviduthy, Karambakkudi Taluk, Pudukottai District	Thathanaicken patti 49(P)	1.20.0	23.11.2021 to 22.11.2026

ii). Expired/Abandoned quarries

Sl. No.	Name of the Owner (Tvl.)	Village & S.F. Nos.	Extent in Hect.	Lease Period
--NIL--				

iii). Present Proposed quarries

Sl. No	Name of the Owner (Tvl)	Village & S.F. Nos.	Extent in Hect.	Lease Period
1.	Tmt.S.Thamayanthi, W/o.Shanmugam. No.1/132, Kannamma Agam,R.G.Nagar, Chenniyampalayam, Tirupur	47/1(P), 47/2(P) & 47/3(P)	1.75.0	applied area
2.	Thiru.P.Manikandan, S/o.Perumalsamy, Door No.7/68, Kinathukadavu, Karachery, Coimbatore	157/2	1.48.0	applied area

Assistant Director,
Geology and Mining,
Dindigul

ANNEXURE-5

சான்று

திண்டுக்கல் மாவட்டம், பழனி வட்டம், வடக்கு தாதநாயக்கன்பட்டி கிராமம், சர்வே எண். 157/2 ல், ஹெக்டேர் 1.48.0. புன்செய் நிலப்பரப்பில் திரு. பெருமாள்சாமி மகன் P.மணிகண்டன் என்பவர் சாதாரண கருங்கல் மற்றும் சரள்வெட்டி எடுக்க விண்ணப்பித்துள்ளார். மேற்படி புல எண்ணில் ஓடைகள் ஏதுமில்லை. மேற்படி புல எண்ணில் உயர் அழுத்த மின் கம்பிகள் ஏதுமில்லை. மேற்படி புல எண்ணில் 300 மீட்டர் சுற்றளவில் எவ்விதமான குடியிருப்புகள், வரலாற்று சிறப்புமிக்க புராதான சின்னங்கள், கோவில்கள் ஏதுமில்லை. மேற்படி இடத்தில் கருங்கல் மற்றும் சரள்வெட்டி எடுக்க கிராமத்தில் நாளது தேதியில் ஆட்சேபனை ஏதுமில்லை என சான்றளிக்கப்படுகிறது.

இடம் : தாதநாயக்கன்பட்டி

தேதி : 06.04.2026

கிராம நிர்வாக அலுவலர்
தாதநாயக்கன்பட்டி (வடக்கு/தெற்கு)
பழனி வட்டம்.
திண்டுக்கல் மாவட்டம்.

ANNEXURE-6

ANNEXURE II

Office of the Assistant Director, Geology and Mining, Collectorate Dindigul

மாவட்டம் : திண்டுக்கல்

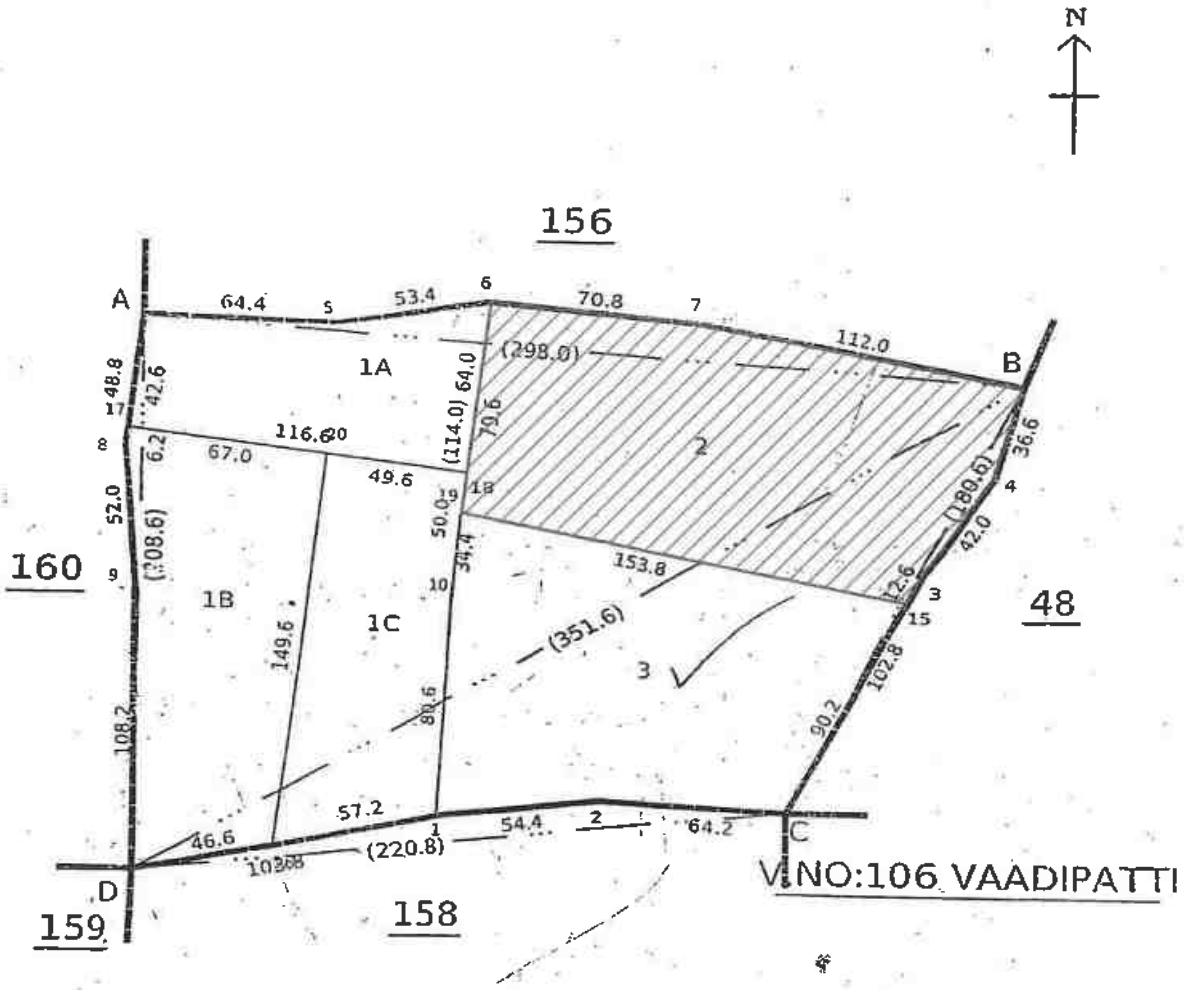
வட்டம் : பழனி

கிராமம் : தாதநாயக்கன்பட்டி வடக்கு [104]

புல எண் : 157

பரப்பளவு : எக்டர் 04 ஏர் 97.00

அளவு : 1 : 2398



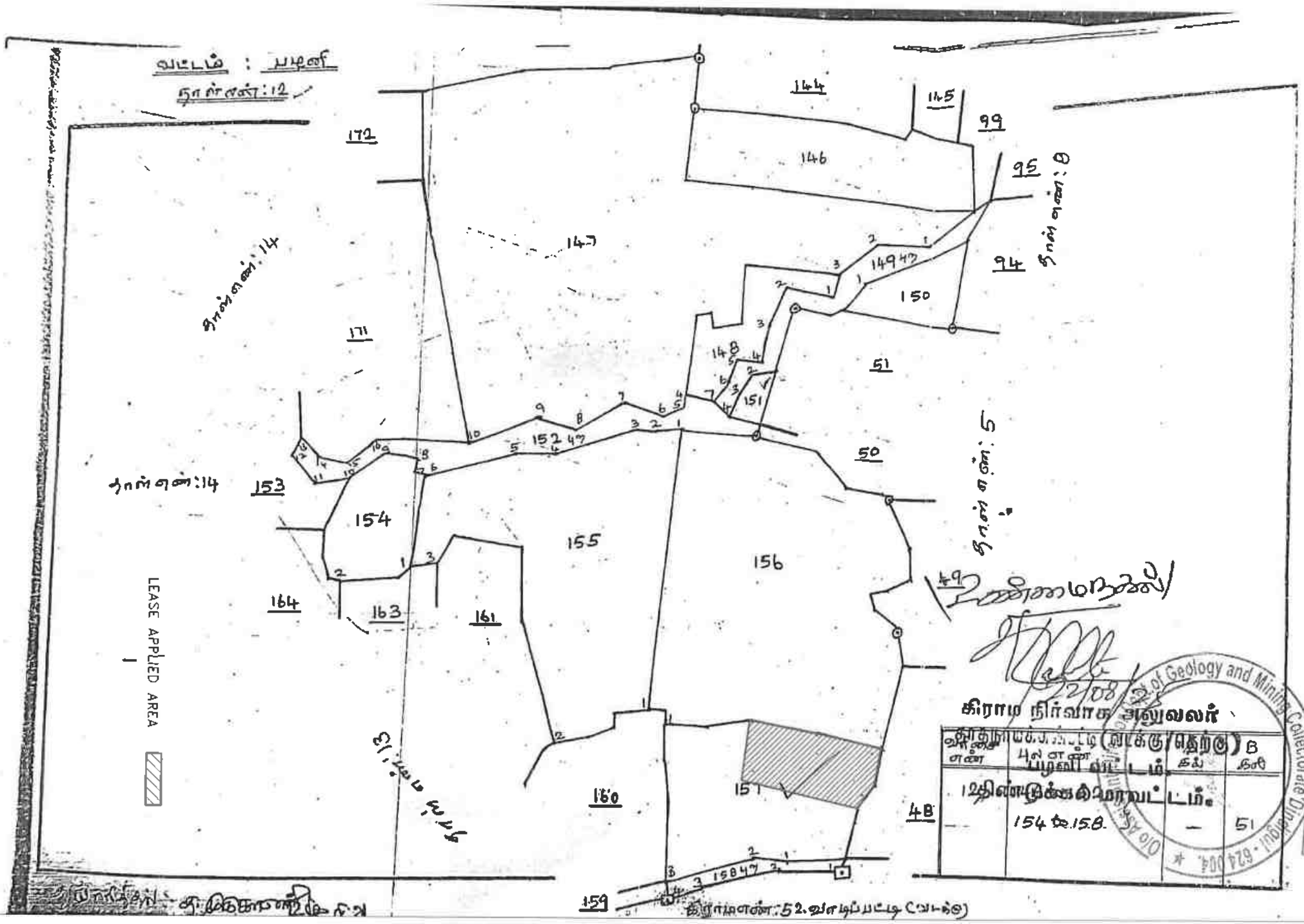
LEASE APPLIED AREA

Signed By Tahsildar
Name of approver : thpln
Date of Approval : 12-03-2018

Date of Issue: 09-05-2025 09:30:21

Survey and Settlement Department, Government of TamilNadu

240 fv.2


வட்டம் : பழனி
நாள்எண்:12
172
144
145
99
146
95
147
94
149
150
148
51
151
50
153
154
155
156
164
163
161
160
159
LEASE APPLIED AREA
கிராம நிர்வாக அலுவலர்
(வடக்கு/தெற்கு) B
புல எண்
பழனி வட்டம்
ஏக்
நிலை
12.தின்டுக்கல் மாவட்டம்
154 to 158
51
48
Dir. of Geology and Mining, Collectorate Office, Trichy - 620 004
ANNEXURE III

ANNEXURE IV



தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

மாவட்டம் : திண்டுக்கல் வட்டம் : பழனி

வருவாய் கிராமம் : தாதநாயக்கன்பட்டி வடக்கு பட்டா எண் : 1178

உரிமையாளர்கள் பெயர்

1. ராயன் மகன் நடராஜ்
2. பெருமாள்சாமி மகன் மணிகண்டன்
3. மயில்சாமி மகன் சுந்தர்ராஜ்
4. பழனிச்சாமி மகன் கோபாலகிருஷ்ணன்

புல எண்	உட்பிரிவு	புன்செய்		நன்செய்		மற்றவை		குறிப்புரைகள்
		பரப்பு	தீர்வை	பரப்பு	தீர்வை	பரப்பு	தீர்வை	
		ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	
157	2	1 - 48.00	3.18	--	--	--	--	2025/0103/13/374396 -- ------- Digitally signed:PRabhu Sivasankar Zonal Deputy Tahsildar 08/05/2025 07:54:21:PM
		1 - 48.00	3.18					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **P/13/21/104/01178/140497** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 09-10-2025 அன்று 11:07:05 AM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

1435 மாவட்டம் பாட்டம் (பகுதி)

எண் 2

கிராமத்தில் வருடவாரி புலவாரி கைப்பற்று சாகுபடி அடங்கல் கணக்கு

நிலவரித் திட்டத்தின்படி நன்செய்/புன்செய் விபரம்					நிலத்தின் எண்	முதல் போகம்					இரண்டாம் போகம்							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(18அ)	(19)
157	2	1.31.5	253	1178			—	—	—	1							—		
57	2	1.19.0	3.18	1178			—	—	—	—	—						—		

(1) வட்டம், (2) பஞ்சாயத்து யூனியன் அல்லது நகரம், (3) கிராமம் மற்றும் இதர பல்வேறு நிலவரித் திட்ட விவரங்களுக்கு பயன் படுத்தும் எண், (4) பயிரிடத்தக்க தரிசு நிலம், (5) நிலவரம் மற்றும் இதர பல்வேறு நிலவரம் (6) விவசாயத்திற்கு பயன்படுத்தப்படாத மற்றவை பயிரிடத்தக்க தரிசு, (7) நடப்புத் தரிசுகள் (8) இதர தரிசு நிலங்கள்.

கிராம நிர்வாக அலுவலர்
தாலுகா(அல்லது)மாவட்டம்
பழனி வட்டம்.
திண்டுக்கல் மாவட்டம்.

Director of Geology and Mining Collectorate Dindigul - 624 004.

ANNEXURE 2

ANNEXURE VI

அ-பதிவேடு விவரங்கள் - ஊரகம்

Office of the Assistant Director Geology and Mining Collectorate Dindigul - 624 004

மாவட்டம் : திண்டுக்கல்

வட்டம் : பழனி

கிராமம் : தாதநாயக்கன்பட்டி வடக்கு

1. புல எண்	**157**	9. மண் வயனமும் ரகமும்	**7 - 3**
2. உட்பிரிவு எண்	**2**	10. மண் தரம்	**5**
3. பழைய புல உட்பிரிவு எண்	**157-2**	11. தீர்வை (ரூ - ஹெ)	**2.15**
4. பகுதி	-	12. பரப்பு (ஹெக்டேர் - ஏர்)	**1 - 48.00**
5. அரசு / ரயத்துவாரி	**ரயத்துவாரி**	13. மொத்த தீர்வை (ரூ - பை)	**3.18**
6. நிலத்தின் வகை	**புஞ்சை**	14. பட்டா எண்	**1178**
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இரு போகமா	**0**	16. பெயர்	**மணிகண்டன் மற்றும் 2பேர்**

குறிப்பு:

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **13/21/104/157/2/140497** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

Back | Home

ANNEXURE VII

Mining Collectorate, Dindigul - 624 002

2273/2025

भारतीय गैर न्यायिक

एक सौ रुपये

Rs. 100

ONE HUNDRED RUPEES

₹. 100

सत्यमेव जयते

भारत INDIA

INDIA NON JUDICIAL

தமிழ்நாடு தமிலநாடு TAMILNADU

Rs100/-

EX 977836

S. சதீஸ் B.Sc.,
முத்திரைத்தாள் விற்பனையாளர்
உரிமம் எண்: 03/2021
C1, ஸ்ரீ விஷ்ணு காம்ப்ளக்ஸ்
புது தாராபுரம் ரோடு
பழனி - 624 601
நாள்: 23.06.2025

மணிகண்டன்
கார்த்தி.

குத்தகைப் பத்திரம்

முன் பணம் இல்லை

ஆண்டு ஒன்றுக்கு ரூ.1,000/- வீதம் 15 (பதினைந்து) ஆண்டுகளுக்கு

இரண்டாயிரத்து இருபத்திஐந்தாம் ஆண்டு ஜூன் மாதம் இருபத்திமூன்றாம் தேதி (23.06.2025)

கோயம்புத்தூர் மாவட்டம், கிணத்துக்கடவு வட்டம், பெரியகுயிலை, காரச்சேரி, கதவு எண். 3/252-5-ல் வசித்து வரும் திரு.ராயன் அவர்கள் குமாரர் (Aadhaar No: 7685 3631 0567, PAN: BDJPN5206Q) (Cell No: 99766 80909) திரு.R.நடராஜ்-1, ஷை வட்டம், காரச்சேரி, கதவு எண்.7/68-ல் வசித்து வரும்

1.
2. P. Muniyappan
3. M. Sudhakar
4.
5. P. Muniyappan

புத்தகம் 2025 ன் வருடத்திய 2273 ம்
ஆவணம் 15 நான்களைக் கொண்டது
1 வது நகல்

பதிவு எழுத்தர்

THE SEAL OF THE JOINT SUB REGISTRAR OF PALNI

திரு.பெருமாள்சாமி அவர்கள் குமாரர் (Aadhaar No: 3801 9799 1056, PAN: BMEPM6055N) (Cell No: 98428 96223) திரு.P.மணிகண்டன்-2, ஷை வட்டம், காரச்சேரி, கதவு எண். 3/252-ல் வசித்து வரும் திரு.மயில்சாமி அவர்கள் குமாரர் (Aadhaar No: 2855 3850 1633, PAN: DJDPS8639Q) (Cell No: 99521 50130) திரு.M.சுந்தர்ராஜ்-3, ஷை மாவட்டம், கப்பளாங்கரை, மாரியம்மன் கோவில் வீதி, கதவு எண்.2/16-ல் வசித்து வரும் திரு.பழனிச்சாமி அவர்கள் குமாரர் (Aadhaar No: 9674 6636 0238, PAN: APRPG6731N) (Cell No: 98425 94510) திரு.P.கோபாலகிருஷ்ணன்-4 சொத்து சுவான்தார்கள்.

கோயம்புத்தூர் மாவட்டம், கிணத்துக்கடவு வட்டம், காரச்சேரி, கதவு எண்.7/68-ல் வசித்து வரும் திரு.பெருமாள்சாமி அவர்கள் குமாரர் (Aadhaar No: 3801 9799 1056, PAN: BMEPM6055N) (Cell No: 98428 96223) திரு.P.மணிகண்டன்-5 குத்தகைதாரர் ஆக நாம் ஐந்து பேர்களும் சேர்ந்து எழுதிக்கொண்ட குத்தகைப்பத்திரம் என்னவென்றால்..

நம்மளில் 1,2,3,4 லக்க நபர்களுக்கு சென்ற 25.03.2025-ந் தேதிய பழனி 2 நிர் சார்பதிவகம் 1 புத்தகம் 1097/2025-ம் எண் பதிவு கிரையப் பத்திரம் மூலமும், சென்ற 08.04.2025-ந் தேதிய பழனி 2 நிர் சார்பதிவகம் 1 புத்தகம் 1314/2025-ம் எண் பதிவு கிரையப் பத்திரம் மூலமும் சுயார்ஜித வகையில் சர்வ சுதந்திர பாத்தியப்பட்டு பிறர் சுவாதீனமின்றி அனுபவித்து வருகின்ற சொத்துக்களில் இதில் கண்ட சொத்தை மட்டும் ஆண்டு ஒன்றுக்கு ரூ.1,000/- வீதம் 15 (பதினைந்து) ஆண்டுகளுக்கு முன் பணம் இல்லாமல் குத்தகைக்கு பேசி முடித்து ஐந்து பேர்களும் ஒப்புக்கொண்டு நாளது தேதியில் 5 லக்க நபரிடம் 1,2,3,4 லக்க நபர்கள்

1.
2. P.
3. M.
4.
5. P.

1 புத்தகம் 2025 ம் வருடத்திய 2273 ம்
ஆவணம் 15 நான்காவைக் கொண்டது
2 வது தாள்
பதிவு அலுவலர்

மொத்த குத்தகை தொகை ரூ.15,000/-(ரூபாய் பதினைந்தாயிரம்) மட்டும் ரொக்கமாக பெற்றுக்கொண்டு இதில்கண்ட சொத்தை இன்றே 1,2,3,4 லக்க நபர்கள் ஒப்படைத்து 5 லக்க நபர் சுவாதீனம் அடைந்து கொண்டபடியால் நாளது தேதியிலிருந்து 15 (பதினைந்து) ஆண்டுகளுக்கு அதாவது 23.06.2025ம் தேதி முதல் 22.06.2040ம் தேதி வரை எந்தவித ஆட்சேபணையும் இல்லாமல் வேண்டும் தொழில் செய்து 5 லக்க நபர் அனுபவித்துக் கொள்ளவேண்டியது.

நாளது தேதியிலிருந்து 15 (பதினைந்து) ஆண்டுகள் முடிந்தவுடன் (22.06.2040) எந்தவிதமான ஆட்சேபணையும் இல்லாமல் இதன் 1,2,3,4 லக்க நபர்கள் இதில் கண்ட சொத்துக்களை சுவாதீனம் பெற்றக்கொள்ளவேண்டியது.

குத்தகை காலத்தில் நிலவரியை இதன் 1,2,3,4 லக்க நபர்களே செலுத்தி கொள்ளவேண்டியது. இந்தப்படி நம் ஐந்து பேர்களின் முழுமனச்சம்மதத்துடன் எழுதிக்கொண்ட குத்தகை பத்திரம்.

சொத்து விபரம்

பழனி ரீடி. பழனி சப்டி 2, பழனி வட்டம், வடக்கு தாதநாயக்கன்பட்டி கிராமம், பட்டா எண்கள்.1178 மற்றும் 1193-ல் கண்ட

சர்வே 157/2 நிர் முழுப்புலம் ஹெக்.1.48.00-க்கு ஏக் 3 செ 66-ம்

சர்வே 157/3 நிர் முழுப்புலம் ஹெக்.1.31.50-க்கு

ஏக் 3 செ 25-ல் வடபுறம் கிழமேலாக ஹெக்.0.28.34-க்கு ஏக் 0 செ 70-ம்

ஆக மொத்தம் ஹெக்.1.76.34-க்கு ஏக் 4 செ 36 உள்ள புஞ்சை நிலத்திற்கு நான்கு மால் விபரம்.

1.

2.

3.

4.

5.

1 புத்தகம் 2025 ம் வருடத்திய 2273 ம்
ஆவணம் 15 நான்கலகக் கொண்டது
3 வது ஷால்
பதிவு அலுவலர்

வடக்கு	-	சர்வே 156/1 நீர் தே.உ.சா நிலம்
கிழக்கு	-	சர்வே 413 நீர் வண்டிப்பாதை
தெற்கு	-	சர்வே 157/3 நீர் எங்கள் கைவசம் உள்ள மீதி நிலம்
மேற்கு	-	சர்வே 157/1A, 157/1C நீர் தங்கவேல் நிலங்கள்

இதற்குள் மேற்படி ஹெக்.1.76.34-க்கு ஏக் 4 செ 36 உள்ள புஞ்சை நிலங்களும், மேற்படி நிலங்களுக்கு ஏற்பட்ட சகல மாமூல் அனுபவ பாத்தியமும் மாமூல் வழிநடை பாதை பாத்தியமும் சேர்ந்து.

1.
2.
3.
4.
5.

சாட்சிகள் :

1. M.பொன்னுச்சாமி (Aadhaar No: 5627 6106 2636) த/பெ.மயில்சாமி, 2/368, ஆலமரத்தோட்டம், அரசம்பாளையம், கோயம்புத்தூர். (Cell No: 98946 80758)

2. P.ராஜமாணிக்கம் (Aadhaar No: 3185 9254 8517) த/பெ.பொன்னுச்சாமி, 13/5, பன்னர் மேற்கு தெரு, பெரியகலையம்புத்தூர், நெய்க்காரபட்டி, பழனி Tk. (Cell No: 94429 93277)

ஆவணம் தயாரித்தவர்:



R.பவுல் டாமினிக், பழனி.
L.No.B99/PLN/1991
pauldominic61@gmail.com
Cell.98941 38510
88252 50850.

1 புத்தகம் 2025 ம் வருடத்திய 2273 ம் ஆவணம் 15 தாய்மனைக் கொண்டது 4 பக்கம்

பதிவு அலுவலர்

THE SEAL OF THE JOINT SUB REGISTRAR OF PALNI

உறுதிமொழி

இந்த ஆவணத்தை எழுதிக் கொடுப்பவர்களும், எழுதிப்பெறுபவர்களும் கீழ்க்கண்ட உறுதி மொழியை அளிக்கின்றோம்.

வழக்கிடை ஆவணை சொத்து பதிவுச்சட்டம் 1908 பிரிவு 22 (A) மற்றும் பிரிவு 22(B)-க்கு உட்பட்டதல்ல எனவும், ஆவணத்துடன் இணைக்கப்பட்ட அனைத்து ஆவணங்களும் இந்திய தண்டனை சட்டம் 1860 பிரிவு 470-ன்படி Forged Document அல்ல எனவும், ஆவணத்தை எழுதிப்பெறுவர் அனைத்து ஆவணங்களையும் பரிசீலித்து விலைங்கம் சரிபார்த்து எழுதிப் பெறுகிறோர் எனவும், சொத்து மாற்றுச் சட்டம் 1882-ன்படி சொத்து பரிமாற்றம் தொடர்பான அனைத்து பிரிவுகளுக்கும் உட்பட்டு செயல்பட்டுள்ளோம் எனவும் உறுதிமொழி அளிக்கின்றோம்.

மேலும் இதனில் தங்களுக்கு தவறான தகவல்கள் அல்லது சான்று அளிக்கப்பட்டதாக பின்னால் கண்டுபிடிக்கப்பட்டால் அதற்கு நாங்கள் மட்டுமே பொறுப்பு ஆவோம் எனவும் அதற்கான சட்டபூர்வ நடவடிக்கைக்கு கட்டுப்படுகிறோம் எனவும், இதற்கு சார்பதிவாளர் எவ்விதத்திலும் பொறுப்பாக மாட்டார் எனவும் உறுதிமொழி அளிக்கின்றோம்.

மேற்படி சொத்தானது நீர்நிலை பகுதியில் அமையப் பெறவில்லை என்பதற்கான சான்று/உறுதிமொழி (உயர்நீதி மன்ற நீதிபேராணை எண்.22163/2018 வழங்கப்பட்ட தீர்ப்புரையின்படி)

இந்த ஆவணத்தில் கண்ட சொத்தானது நீர்நிலைகள், நீர்வழிப்பாதைகள், நீர்பிடிப்பு பகுதிகளில் கட்டுப்படவில்லை என சான்றளிக்கிறேன். மேலும் இதனில் தங்களுக்கு தவறான தகவல் அல்லது சான்று அளிக்கப்பட்டதாக பின்னாளில் கண்டுபிடிக்கப்பட்டால் அதனால் நான் சட்ட பூர்வ நடவடிக்கைகளுக்கு உட்படுத்தப்படுவேன் என்பதையும் அறிவேன்.

1.
2.
3.
4.
5.

1 புத்தகம் 2025 ம் வருடத்திய 2273 ம்
ஆவணம் 15 நாள்களாகக் கொண்டது
5 வது நாள்
பதிவு அலுவலர்

THE SEAL OF THE JOINT SUBREGISTRAR OF PALNI

4200/2025



Rs.5000/-

தமிழ்நாடு தமிலநாடு TAMILNADU

AG 829264

முத்துராத்தாள் விற்பனையாளர்
உரிமம் எண் : 1/2015
170, திருநகர், சிவஸ்ரிப்பட்டி கிராமம்
பழநி, திண்டுக்கல் Dt.
வ. எண்: —— நாள்: 06.11.2025

நடராஜ்
காரச்சேரி.

4200/2025
2.11.25

ரூபாய்.8,50,000/-க்கு சுத்த கிரையம்

இரண்டாயிரத்து இருபத்திஜந்தாம் ஆண்டு நவம்பர் மாதம் ஆறாம் தேதி.(06.11.2025)

கோயம்புத்தூர் மாவட்டம், கிணத்துக்கடவு வட்டம், பெரியகுயிலை, காரச்சேரி, கதவு எண்.3/252-5-ல் வசித்து வரும் திரு.ராயன் அவர்கள் குமாரர் (Aadhaar No: 7685 3631 0567, PAN: BDJPN5206Q) (Cell No: 99766 80909) **திரு.R.நடராஜ்-1**, ஷை வட்டம், காரச்சேரி.

எழுதிக் கொடுப்பவர்

எழுதி வாங்குபவர்கள்

1. [illegible]
2. P. [illegible]
3. M. Sudarraj

1 புத்தகம் 2025 ம் வருடத்திய 4200 ம் ஆவணம் 25 தாள்களாக் கொண்டது 1 வது தாள்

பதிவு அலுவலர்

THE SEAL OF THE JOINT SUB REGISTRAR
PALANI

கதவு எண்.7/68-ல் வசித்து வரும் திரு.பெருமாள்சாமி அவர்கள் குமாரர் (Aadhaar No: 3801 9799 1056, PAN: BMEPM6055N) (Cell No: 98428 96223) **திரு.P.மணிகண்டன்-2,** ஷை வட்டம், காரச்சேரி, கதவு எண்.3/252-1-ல் வசித்து வரும் திரு.மயில்சாமி அவர்கள் குமாரர் (Aadhaar No: 2855 3850 1633, PAN: DJDPS8639Q) (Cell No: 99521 50130) **திரு.M.சுந்தர்ராஜ்-3** பேர்களுக்கும்,

கோயம்புத்தூர் மாவட்டம், பொள்ளாச்சி வட்டம், கப்பளாங்கரை, மாரியம்மன்கோவில் வீதி, கதவு எண்.2/16-ல் வசித்து வரும் திரு.பழனிச்சாமி அவர்கள் குமாரர் (Aadhaar No: 9674 6636 0238, PAN: APRPG6731N) (Cell No: 98425 94510) **திரு.P.கோபாலகிருஷ்ணன்** எழுதிக்கொடுத்த சுத்தக் கிரையப் பத்திரம்.

இதில்கண்ட சொத்துக்களானது எனக்கும், தங்களுக்கும் சென்ற 25.03.2025-ந் தேதிய பழனி 2 நிர் சார்பதிவகம் 1 புத்தகம் 1097/2025-ம் எண் பதிவு கிரைய பத்திரம் மூலமும், சென்ற 08.04.2025-ந் தேதிய பழனி 2 நிர் சார்பதிவகம் 1 புத்தகம் 1314/2025-ம் என்ன பதிவு கிரைய பத்திரம் மூலமும் சுயார்ஜித வகையில் நம் நான்கு பேர்களுக்கும் சர்வ சுதந்திர பாத்தியப்பட்டு, பிறர் சுவாதீனமின்றி அனுபவித்து வருகின்ற சொத்துக்களில் தங்களுக்கு பாத்தியப்பட்ட பொதுவில் 4-ல் 3 பாக பாத்தியம் இருக்க எனக்கு பாத்தியப்பட்ட பொதுவில் 4-ல் 1 பாக பாத்தியத்தை மட்டும் நாளது தேதி நான் தங்களுக்கு ரூ.8,50,000/-க்கு சுத்த கிரையம் செய்து கொடுத்து கிரையத் தொகை ரூபாய் எட்டு இலட்சத்து ஐம்பதாயிரமும் தங்களிடம்

எழுதிக் கொடுப்பவர்

எழுதி வாங்குபவர்கள்

1.
2.
3.

புத்தகம் 1/2025 ம் வருடத்திய 1200 ம்
நூல்எண் 23 தாள்வரையம் கொண்டது
2 வது தாள்
பதிவு அலுவலர்

கீழ்க்கண்ட பணப்பற்று விபரப்படி பெற்றுக்கொண்டு கிரையத் தொகை முழுவதும் எனக்குச் செல்லாகிவிட்டதால் இன்றே இதில் கண்ட சொத்தை உங்கள் முழு அனுபவ சுவாதீனத்தில் விட்டு விட்டேன்.

கிரைய சொத்தை இது முதல் தாங்கள் சர்வ சுதந்திர பாத்தியமாகவும் தானாதி வினிமய விற்கிரையங்களுக்கு யோக்கியமாகவும், முழு உரிமையுடனும் ஆண்டு அனுபவித்துக் கொண்டும், பட்டாவும் பெற்றுக் கொண்டு சுகத்தில் இருப்பீர்களாகவும்.

கிரையச் சொத்தை பொறுத்து இனிமேல் எனக்கும், என் வாரிசுகளுக்கும் எவ்வித பாத்தியமும், பின் தொடர்ச்சியும் இல்லை.

கிரையச் சொத்தில் எவ்வித வில்லங்கமும் இல்லை. ஏதேனும் வில்லாங்கம் இருந்தாலும், ஏற்பட்டாலும் அதை நான் என் சொந்தப் பொறுப்பிலிருந்து தீர்த்துக் கொடுப்பேன் என்று உறுதி கூறுகிறேன்.

பணப்பற்று விபரம்

1. தங்களில் 1 லக்க நபரின் பெயரில் உள்ள கோயம்புத்தூர் செட்டிபாளையம் கிளை, SBI Bank A/c No: 39854852682 Cheque No: 569617 Dated 04.11.2025-ன் மூலம் எனக்கு செல்லானது ரூ.1,50,000/- ரூபாய் ஒரு இலட்சத்து ஐம்பதாயிரம்.

2. தங்களில் 2 லக்க நபரின் பெயரில் உள்ள கிணத்துக்கடவு கிளை, HDFC Bank A/c No: 50200097369147 Cheque No: 000001 Dated 04.11.2025-ன் மூலம் எனக்கு செல்லானது ரூ.1,50,000/- ரூபாய் ஒரு இலட்சத்து ஐம்பதாயிரம்.

எழுதிக் கொடுப்பவர்

எழுதி வாங்குபவர்கள்

1.
2.
3. M. Sudharaj

1 புரட்டாசி 2025 ம் வருடத்திய A200 ம்
ஆவணம் 23 நாள்களைக் கொண்டது
3 வது நாள்

3. தங்களில் 3 லக்க நபரின் பெயரில் உள்ள கோயம்புத்தூர் செட்டிபாளையம் கிளை, SBI Bank A/c No: 37556757420 Cheque No: 667756 Dated 04.11.2025-ன் மூலம் எனக்கு செல்லானது ரூ.1,50,000/- ரூபாய் ஒரு இலட்சத்து ஐம்பதாயிரம்.

4. நாளது தேதியில் செட்டிபாளையம் கிளை, SBI Bank A/c No: 37556757420 Cheque No: 667760 Dated 06.11.2025-ன் மூலம் எனக்கு செல்லானது ரூ.4,00,000/- ரூபாய் நான்கு இலட்சம்.

ஆக மேற்கண்ட 4 (நான்கு) வகைகளில் எனக்கு செல்லானது ரூ.8,50,000/- ரூபாய் எட்டு இலட்சத்து ஐம்பதாயிரம். பணப்பற்று விபரம் சரி.

சொத்து விபரம்

பழனி ரிடி. பழனி சப்டி 2, பழனி வட்டம், **வடக்கு தாதநாயக்கன்பட்டி கிராமம்,** பட்டா எண்.1178-ல் கண்ட சர்வே 157/2 நிர் முழுப்புலம் ஹெக்.1.48.00-க்கு ஏக் 3 செ 66 உள்ள புஞ்சை நிலத்திற்கு நான்கு மால் விபரம்.

வடக்கு	-	சர்வே 156/1 நிர் தே.உஷா நிலம்
கிழக்கு	-	சர்வே 48 நிர் வண்டிப்பாதை
தெற்கு	-	சர்வே 157/3 இதன் 2 லக்க சொத்து
மேற்கு	-	சர்வே 157/1A சுந்தர்ராஜ் வகையறா நிலம்

இதற்குள் மேற்படி ஹெக்.1.48.00-க்கு ஏக் 3 செ 66 உள்ள புஞ்சை நிலமும், மேற்படி நிலத்திற்கு ஏற்பட்ட சகல மாமூல் அனுபவ பாத்தியமும் மாமூல் வழிநடை பாதை பாத்தியமும் சேர்ந்து.

எழுதிக் கொடுப்பவர்

எழுதி வாங்குபவர்கள்

1.
2.
3.

1 புத்தகம் 2025 வருடத்திய 4200 ம்
அலணம் 23 தாள்களைக் கொண்டது
4 பக்கங்கள்

2. பழனி ரிடி. பழனி சப்டி 2. பழனி வட்டம், **வடக்கு தாதநாயக்கன்பட்டி கிராமம்.** பழைய பட்டா எண்.340-க்கு புதிய பட்டா எண்.1193-ல் கண்ட சர்வே 157/3 நிர் முழுப்புலம் ஹெக்.1.31.50-க்கு ஏக் 3 செ 25 உள்ள புஞ்சை நிலத்திற்கு நான்கு மால் விபரம்.

வடக்கு	-	சர்வே 157/2 நிர் இதன் 1 லக்க சொத்து
கிழக்கு	-	சர்வே 48 நிர் வண்டிப்பாதை
தெற்கு	-	சர்வே 158 நிர் வண்டிப்பாதை
மேற்கு	-	சர்வே 157/1C சுந்தர்ராஜ் வகையறா நிலம்

இதற்குள் மேற்படி ஹெக்.1.31.50-க்கு ஏக் 3 செ 25 உள்ள புஞ்சை நிலமும், மேற்படி நிலத்தில் விவசாய காரியங்களுக்காக சதுரடி 160 அளவில் கட்டப்பட்டுள்ள A.C.C. சீட் போட்ட சாளையும், சதுரடி 300 அளவில் கட்டப்பட்டுள்ள தென்னங்கீற்று போட்ட விவசாய சாளையும் அதில் உள்ள மின் இணைப்பும் அதன் சாதனங்களும் மற்றும் மேற்படி நிலத்திற்கு ஏற்பட்ட சகல மாமூல் அனுபவ பாத்தியமும் மாமூல் வழிநடை பாதை பாத்தியமும் சேர்ந்து. மின்இணைப்பு எண்.933.

எழுதிக் கொடுப்பவர்

எழுதி வாங்குபவர்கள்

1.
2.
3.

1 புத்தகம் 20 25ம் ஷரத்தின் 4200 ல்
ஆயுளில் 23 நாள் உபயம் கொண்டது
5 வது நகல்

மதிப்பு அலுவலர்

மனை சொத்துகளுக்கு மதிப்பு ரூ.34,00,000/-

இதில் பொதுவில் 4-ல் 1 பாக மதிப்பு ரூ.8,50,000/-

எழுதிக் கொடுப்பவர்

எழுதி வாங்குபவர்கள்

1.
2.
3.

சாட்சிகள் :

1. **M.பொன்னுச்சாமி** (Aadhaar No: 5627 6106 2636)
த/பெ.மயில்சாமி, 2/368, ஆலமரத்தோட்டம், அரசம்பாளையம், கோயம்புத்தூர். (Cell No: 98946 80758)

2. **P.ராஜமாணிக்கம்** (Aadhaar No: 3185 9254 8517)
த/பெ.பொன்னுச்சாமி, 13/5, பன்னர் மேற்கு தெரு, பெரியகலையம்புத்தூர், நெய்க்காரபட்டி, பழனி Tk. (Cell No: 94429 93277)

ஆவணம் தயாரித்தவர்:



R.பவுல் டாமினிக், பழனி.
L.No.B99/PLN/1991
pauldominic61@gmail.com
Cell.98941 38510
88252 50850.

1 புத்தகம் 2025 ம் ஆண்டு பதிவு செய்யப்பட்ட 4200 ம் ஆவணம் 23 தாள்களைக் கொண்டது
6 வது தாள்
பதிவு அலுவலர்

அனுபந்தம் -1 A (2 லக்க சொத்து)

1.கட்டிடத்தின் விபரம் : பழனி வட்டம், வடக்கு தாதநாயக்கன்பட்டி கிராமம், சர்வே 157/3

அ)	கட்டுமானம் எதனால் கட்டப்பட்டிருக்கிறது	: செங்கல் சுவர், சிமிண்ட் பூச்சு
ஆ)	அஸ்திவாரத்தின் ஆழம்	: 3 அடி
இ)	அடி தளத்தின் கணம்	: 2 அடி
ஈ)	தேக்கு மரம் உபயோகப்பட்டிருக்கிறதா?	: இல்லை
உ)	தரை	: சாதா தரை
2.	கட்டிடத்தின் வயது	: 1 ஆண்டு
3.	இடத்தின் விஸ்தீரணம்	: ஹெக்.1.31.50
3.	A.அடிநிலம் மதிப்பு ஹெக்.1-க்கு	: ரூ.9,88,500/-
4.	ஒவ்வொரு தரையிலும் கட்டிடம் கட்டப்பட்ட விஸ்தீரணம்	: தரைதளம் ஏசிசி சீட் ச.மீ.14.86 தரைதளம் தென்னங்கீற்று ச.மீ.27.87
5.	தனியாக கேரேஜ் இருந்தால் வீஸ்தீரணமும் கட்டப்பட்ட மாதிரியும்	: இல்லை
6.	அ) மதில் சுவர் இருந்தால் அதன் நீளம்	: இல்லை
	ஆ) முள் கம்பி சங்கிலி இருந்தால் அதன் நீளம்	: இல்லை
7.	கிணர் இருந்தால் அதன் குறுக்களவு ஆழம்	: இல்லை
8.	தனியாக கக்கூஸ் அல்லது செப்டிக் டேங் இருக்கிறதா?	: இல்லை
8A.	குடிநீர் குழாய் இணைப்பு உண்டா?	: இல்லை
9.	மின் சாதனங்கள்	
	அ) பாயிண்டுகளின் எண்ணிக்கை	: 2 பாயிண்டுகள்
	ஆ) மின் விசிறிகளின் எண்ணிக்கை	: இல்லை
	இ) மின்சார மோட்டார் பம்பு செட்டுகள் எண்ணிக்கை	: இல்லை

10. எழுதிக்கொடுப்பவர் நிர்ணயிக்கும் கட்டிட மதிப்பு ரூ.6.36.000/- அடிநில மதிப்பு ரூ.13.00.000/- ஆக மொத்தம் மதிப்பு ரூ.19.36.000/- இதில் பொதுவில் 4-ல் 1 பாக மதிப்பு ரூ.4.84.000/-

எழுதிக் கொடுப்பவர்

எழுதி வாங்குபவர்கள்

1.

2.

3. M. Sudaraj

நாள் : 06.11.2025

1 புத்தகம் 2025 ம் வரு. த்தில் 4200 ம்
பிரிவில் 23 எண்ணுள்ளதாக கொண்டது
1 வது ஆண்டு

1968ம் ஆண்டின் முத்திரைச் சட்டம் பிரிவு 3 (1)ன் படி அறிக்கை

வரிசை எண் கிராமம்	சர்வே எண்	தன்மை	பரப்பு	மதிப்பு ரூ. பை.
வடக்கு தாதநாயக்கன்பட்டி கிராமம்				
1.	சர்வே 157/2 புஞ்சை ஹெக்.1.48.00-க்கு மதிப்பு		ரூ.	14,64,000
2.	சர்வே 157/3 புஞ்சை ஹெக்.1.31.50-க்கு மதிப்பு		ரூ.	13,00,000
	அனுபந்தம் 1ஏ-ல் கண்டபடி மதிப்பு		ரூ.	6,36,000
	ஆக மதிப்பு		ரூ.	34,00,000
	இதில் 4-ல் 1 பாக மதிப்பு		ரூ.	8,50,000

மேலே கண்ட விபரங்கள் யாவும் உண்மை என்று உறுதி கூறுகிறோம்.

எழுதிக் கொடுப்பவர்

எழுதி வாங்குபவர்கள்

1.
2.
3.

நாள் : 06.11.2025

[illegible] 4200
ஆவணம் 23 நாள்களைக் கொண்டது
2 ஷீட்டுகள்
பதிவு அலுவலர்

உறுதிமொழி

இந்த ஆவணத்தை எழுதிக் கொடுப்பவர்களும், எழுதிப்பெறுபவர்களும் கீழ்க்கண்ட உறுதி மொழியை அளிக்கின்றோம்.

வழக்கிடை ஆவண சொத்து பதிவுச்சட்டம் 1908 பிரிவு 22 (A) மற்றும் பிரிவு 22(B)-க்கு உட்பட்டதல்ல எனவும், ஆவணத்துடன் இணைக்கப்பட்ட அனைத்து ஆவணங்களும் இந்திய தண்டனை சட்டம் 1860 பிரிவு 470-ன்படி Forged Document அல்ல எனவும், ஆவணத்தை எழுதிப்பெறுவர் அனைத்து ஆவணங்களையும் பரிசீலித்து வில்லங்கம் சரிபார்த்து எழுதிப் பெறுகிறார் எனவும், சொத்து மாற்றுச் சட்டம் 1882-ன்படி சொத்து பரிமாற்றம் தொடர்பான அனைத்து பிரிவுகளுக்கும் உட்பட்டு செயல்பட்டுள்ளோம் எனவும் உறுதிமொழி அளிக்கின்றோம்.

மேலும் இதனில் தங்களுக்கு தவறான தகவல்கள் அல்லது சான்று அளிக்கப்பட்டதாக பின்னால் கண்டுபிடிக்கப்பட்டால் அதற்கு நாங்கள் மட்டுமே பொறுப்பு ஆவோம் எனவும் அதற்கான சட்டபூர்வ நடவடிக்கைக்கு கட்டுப்படுகிறோம் எனவும், இதற்கு சார்பதிவாளர் எவ்விதத்திலும் பொறுப்பாக மாட்டார் எனவும் உறுதிமொழி அளிக்கின்றோம்.

மேற்படி சொத்தானது நீர்நிலை பகுதியில் அமையப் பெறவில்லை என்பதற்கான சான்று/உறுதிமொழி (உயர்நீதி மன்ற நீதிபேராணை எண்.22163/ 2018 வழங்கப்பட்ட தீர்ப்புரையின்படி)

இந்த ஆவணத்தில் கண்ட சொத்தானது நீர்நிலைகள், நீர்வழிப்பாதைகள், நீர்பிடிப்பு பகுதிகளில் கட்டுப்படவில்லை என சான்றளிக்கிறேன். மேலும் இதனில் தங்களுக்கு தவறான தகவல் அல்லது சான்று அளிக்கப்பட்டதாக பின்னாளில் கண்டுபிடிக்கப்பட்டால் அதனால் நான் சட்ட பூர்வ நடவடிக்கைகளுக்கு உட்படுத்தப்படுவேன் என்பதையும் அறிவேன்.

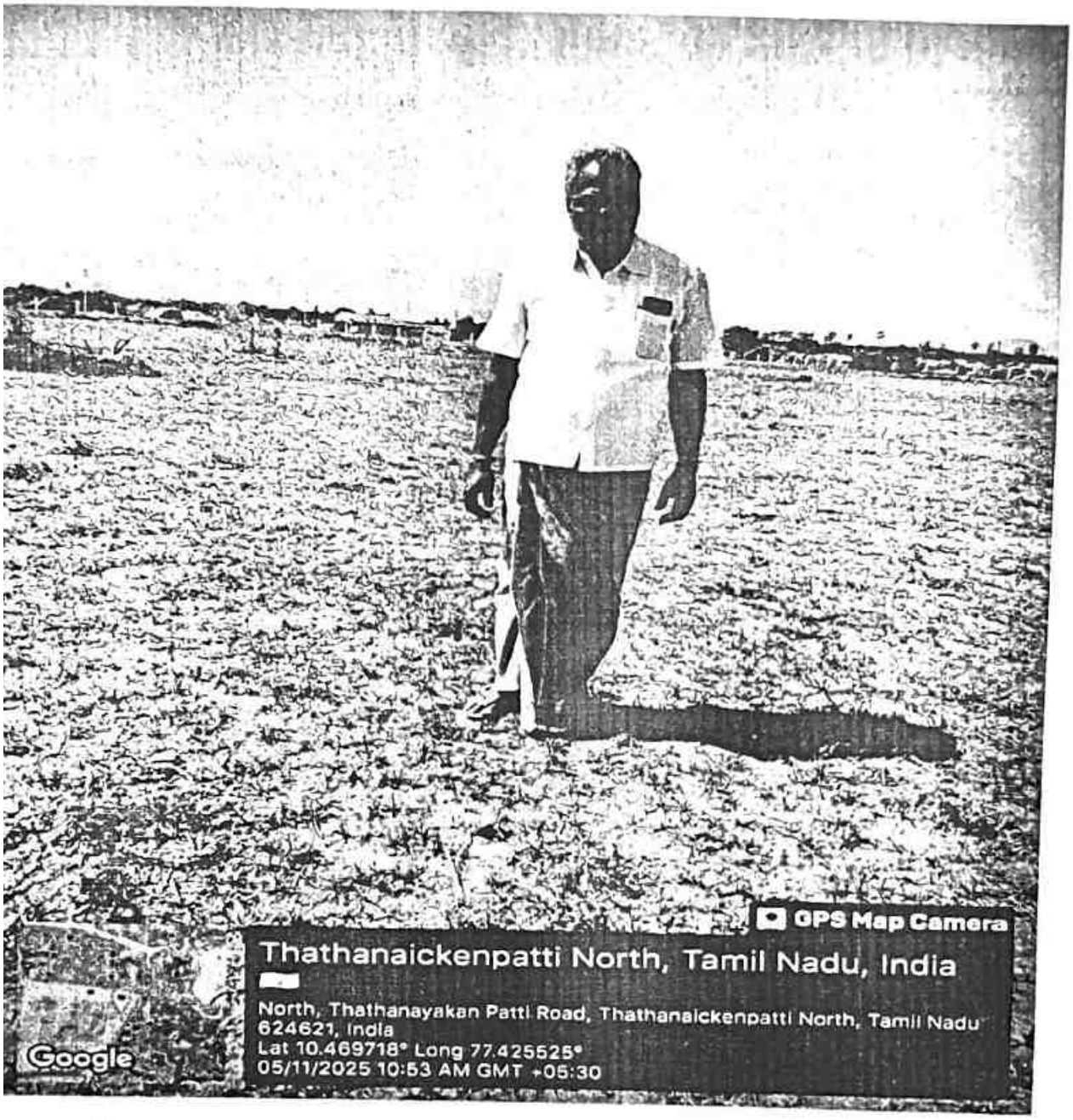
எழுதிக் கொடுப்பவர்

எழுதி வாங்குபவர்கள்

1.
2.
3.

புத்தகம் 4 ல் பக்கம் எண் 4200 ல்
ஆவணம் 23 எண்ணாக இங்கனம் பதிவு
செய்யப்பட்டது.

சார்பதிவாளர்


GPS Map Camera
Thathanaickenpatti North, Tamil Nadu, India
North, Thathanayakan Patti Road, Thathanaickenpatti North, Tamil Nadu 624621, India
Lat 10.469718° Long 77.425525°
05/11/2025 10:53 AM GMT +05:30
Google

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

மாவட்டம் : திண்டுக்கல்

வட்டம் : பழனி

வருவாய் கிராமம் : தாதநாயக்கன்பட்டி வடக்கு

பட்டா எண் : 1178

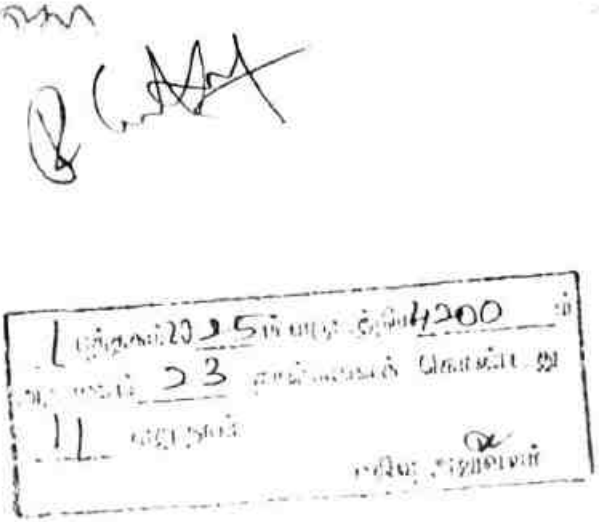
உரிமையாளர்கள் பெயர்

1.	ராயன்	மகன்	நடராஜ்	
2.	பெருமாள்சாமி	மகன்	மணிகண்டன்	
3.	மயில்சாமி	மகன்	சுந்தர்ராஜ்	
4.	பழனிச்சாமி	மகன்	கோபாலகிருஷ்ணன்	

புல எண்	உட்பிரிவு	புன்செய்		நன்செய்		மற்றவை		குறிப்புரைகள்
		பரப்பு	தீர்வை	பரப்பு	தீர்வை	பரப்பு	தீர்வை	
		ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	
157	2	1 - 48.00	3.18	--	--	--	--	2025/0103/13/374396- -- ------ Digitally signed:PRabhu Sivasankar Zonal Deputy Tahsildar 08/05/2025 07:54:21:PM
		1 - 48.00	3.18					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **P/13/21/104/01178/140497** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 06-11-2025 அன்று 11:17:17 AM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்



வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

மாவட்டம் : திண்டுக்கல் வட்டம் : பழனி

வருவாய் கிராமம் : தாதநாயக்கன்பட்டி வடக்கு பட்டா எண் : 1193

உரிமையாளர்கள் பெயர்

1.	பெருமாள்சாமி	மகன்	மணிகண்டன்
2.	மயில்சாமி	மகன்	சுந்தர்ராஜ்
3.	பழனிச்சாமி	மகன்	கோபாலகிருஷ்ணன்
4.	ராயன்	மகன்	ரா.நடராஜ்

புல எண்	உட்பிரிவு	புன்செய்		நன்செய்		மற்றவை		குறிப்புரைகள்
		பரப்பு	தீர்வை	பரப்பு	தீர்வை	பரப்பு	தீர்வை	
		ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	
157	3	1 - 31.50	2.83	--	--	--	--	2025/0103/13/376058- -- ------ Digitally signed:PRabhu Sivasankar Zonal Deputy Tahsildar 18/05/2025 12:48:13:PM
		1 - 31.50	2.83					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **S/13/21/104/01193/140444** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 06-11-2025 அன்று 11:18:37 AM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

1 புத்தகம் 2025ம் வருடத்திய 1200
ஆவணம் 23 ஆம் பக்கம் பெயர்ப்பு
12 வது நகல்

1425-ஆம் பசலியில் திண்டுக்கல் மாவட்டம் பழனி வட்டம் ஸ்ரீராமபுரம் கிராமத்தில் வருடவாரி புலவாரி கைப்பற்று சாகுபடி

கிராமக் கணக்கு எண் 2

நில அளவை எண். (1)	உட்பிரிவு எண். (2)	நில வரித் திட்டத்தின்படி புலன்களின் விபரம். பரப்பு. (3)	தீர்வை. (4)	ஒரு போகம் அல்லது இரு போகம். (5)	கைப்பற்று தாரருடைய பெயரும் எண்ணும் அல்லது அனுபோக தாரருடைய பெயர். (6)	சாகுபடி பரப்பின் தொகை. நிலத்தின் எந்த பகுதி யாவது சாகுபடியாகாமல் பயிரிடப்படுள்ளதா. (7)	முதல் போகம். எந்த மாதத்தில் பயிர் செய்யப்பட்டது அல்லது அறுவடை செய்யப்பட்டது. (8)	பயிரின் பெயர். (9)	பரிசாரனை / அறுவடை மாள பரப்பு. (10)	உண்மையான மகசூல். (11)	விளைச்சல் அளவு மிருக்கூறு. (12)
157	2	1.80	3.18	11.78	வி.மணிகண்டன் (2)		—	—	—	—	
157	3	1.80	2.83	11.93	வி.மணிகண்டன் (2)		—	—	—	—	

எந்த மாதத்தில் பயிர் செய்யப்பட்டது அல்லது அறுவடை செய்யப்பட்டது. (13)	இரண்டாம் போகம். பயிரின் பெயர். (14)	பரிசாரனை / அறுவடை மாள பரப்பு. (15)	உண்மையான மகசூல் ஆதாரம். (16)	விளைச்சல் அளவு மிருக்கூறு. (17)	சிறப்பு அறிவுரைகள் முரண்பாடு - (1) புலன்களின் பரப்பிலோ அ) பயிரிடப்பட்ட விவரங்கள் அனைவில் (2) வகைப்பாடில் நிலவரத் தவிர வேறு வகைப்பாடு (3) முந்தைய பசலித்தில் உள்ளபடி (18)	கிராமம்
					—	
					—	
					—	

(M. Sudarsan)

கிராம நிர்வாக அலுவலர்
தாதநாயக்கன்பட்டி (வடக்கு/தெற்கு)
பழனி வட்டம்.
திண்டுக்கல் மாவட்டம்

7 பிப்ரவரி 2025 வருடாந்திர ₹200

1B

...00,000 Cps.-GBP.-Mdu.-7-2023.

சான்று

திண்டுக்கல் மாவட்டம், பழனி வட்டம், பாப்பம்பட்டி உள் வட்டம், 50 வடக்கு தாதநாயக்கன்பட்டி கிராமம், **பட்டா எண். 1178-ல்** சர்வே எண். 157/2 ஹெக். 1.48.00, **பட்டா எண். 1193** சர்வே எண். 157/3 ஹெக். 1.31.50 உள்ள புஞ்சை நிலம் கிராமகணக்குகளின்படி ராயன் மகன் நடராஜ்-(1), பெருமாள்சாமி மகன் மணிகண்டன்-(2), மயில்சாமி மகன் சுந்தர்ராஜ்-(3), பழனிச்சாமி மகன் கோபாலகிருஷ்ணன்-(4) என்பவர்களுக்குச் சொந்தமானது என்பதற்குச் சான்று.

சர்வே எண். 157/2 -க்கு நான்கு மால் விவரம் :

வடக்கு	--	சர்வே எண். 156/ தே. உஷா நிலம்
கிழக்கு	-	சர்வே எண் : 48 வண்டிப்பாதை
தெற்கு	-	சர்வே எண் : 157/3, ரா.நடராஜ் (வ) நிலம்
மேற்கு	-	சர்வே எண். 157/1A தங்கவேல் நிலம்

சர்வே எண். 157/3 -க்கு நான்கு மால் விவரம் :

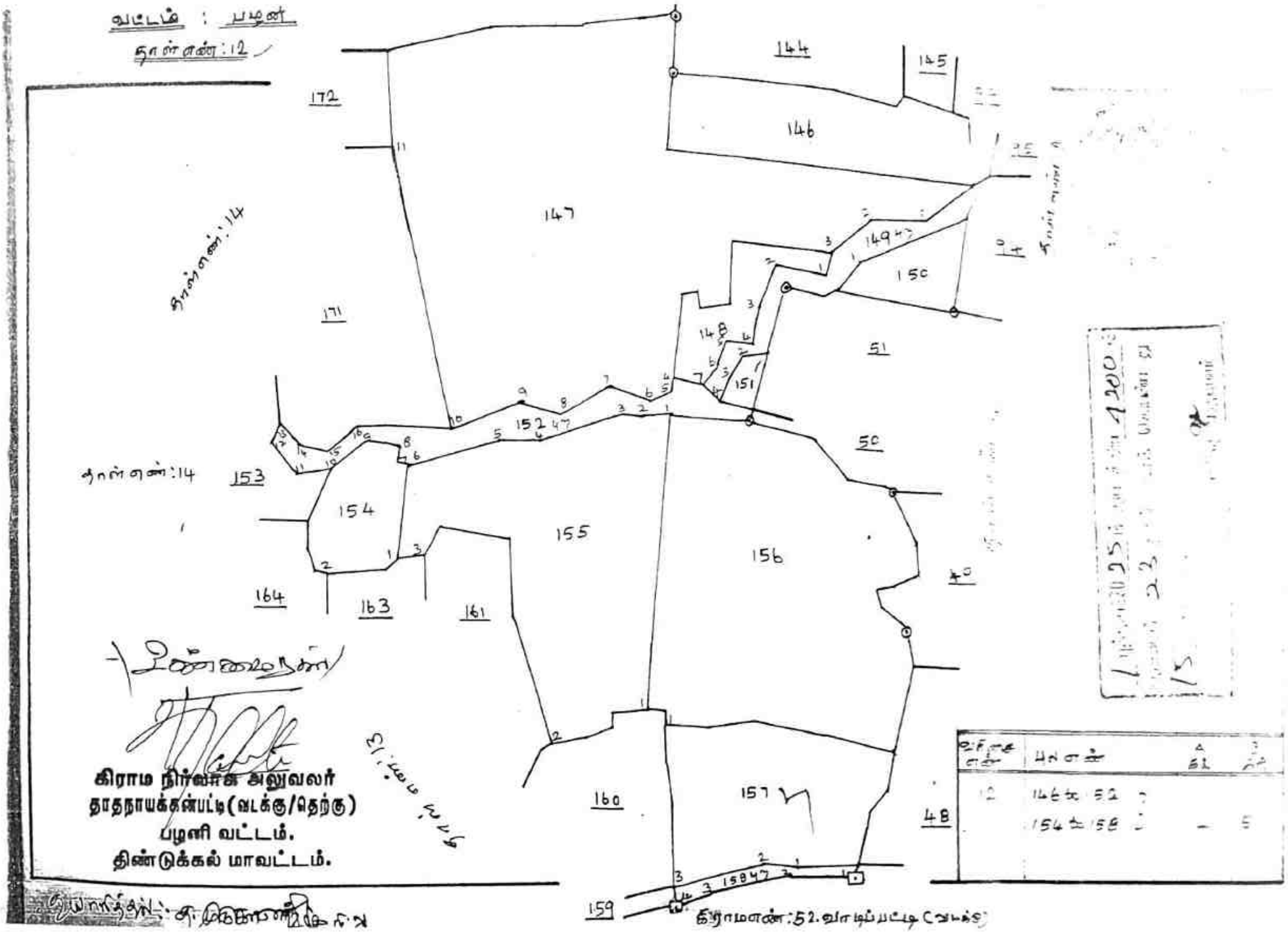
வடக்கு	-	சர்வே எண். 157/2 நா. நடராஜ் (வ) நிலம்
கிழக்கு	-	சர்வே எண் : 48 வண்டிப்பாதை
தெற்கு	-	சர்வே எண் : 158 வண்டிப்பாதை
மேற்கு	-	சர்வே எண். 157/1C தங்கவேல் நிலம்

கிராம நிர்வாக அலுவலர்
தாதநாயக்கன்பட்டி (வடக்கு/தெற்கு)
பழனி வட்டம்.
திண்டுக்கல் மாவட்டம்.

1 ஜூன் 2025 ம் வருடத்தில் ரூ200 ம்
ஆவணம் 23 ன்படி வசூலிக்கப்பட்டது
14 வருவாய்
மறு அலுவலர்

வட்டம் : பழனி

தாள் எண் : 12



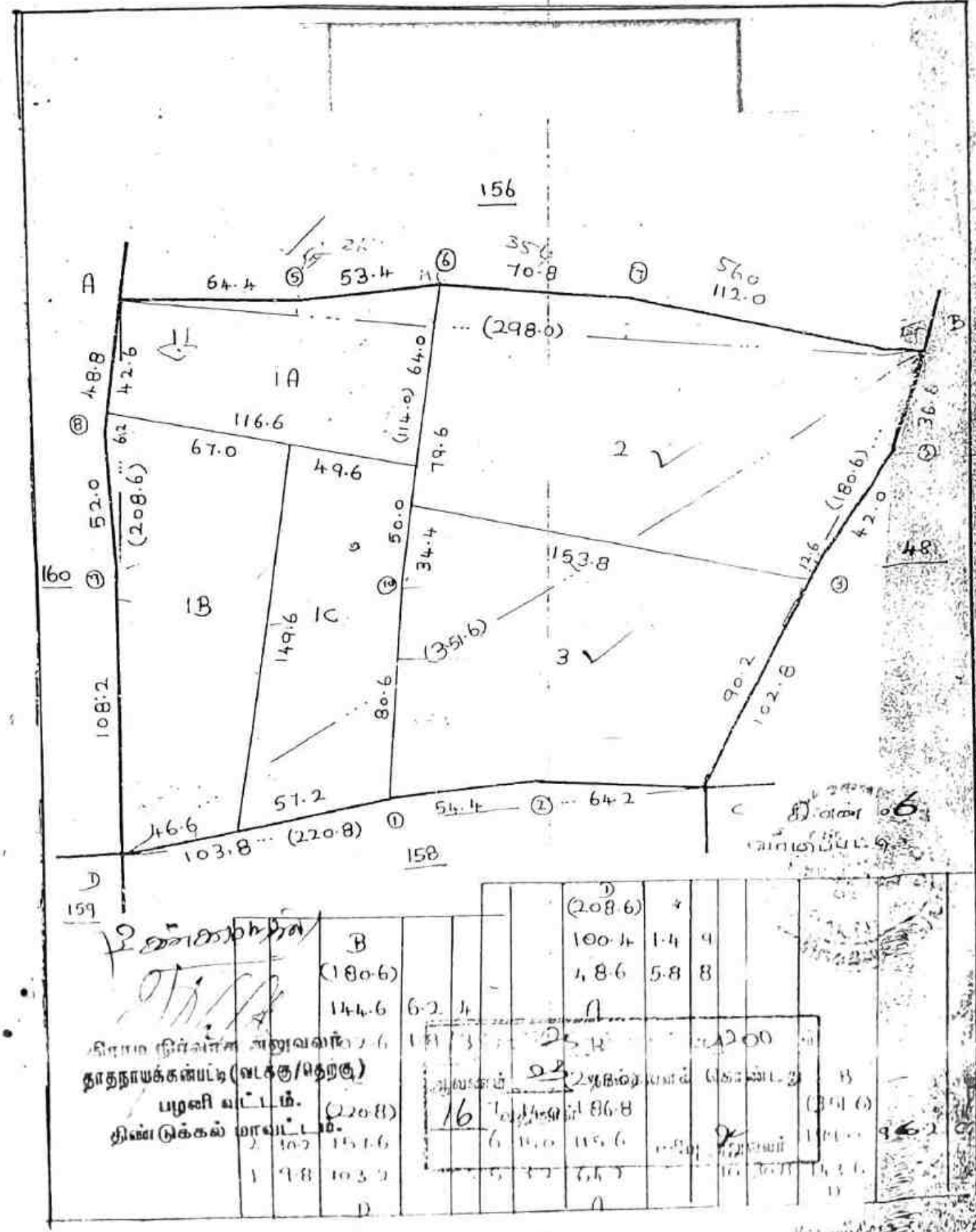
மாவட்டம் மதுரை

வட்டம் பழனி

புல எண். 157

கிராமம் { எண். 101
பெயர். தாதநாயக்கன்பட்டி

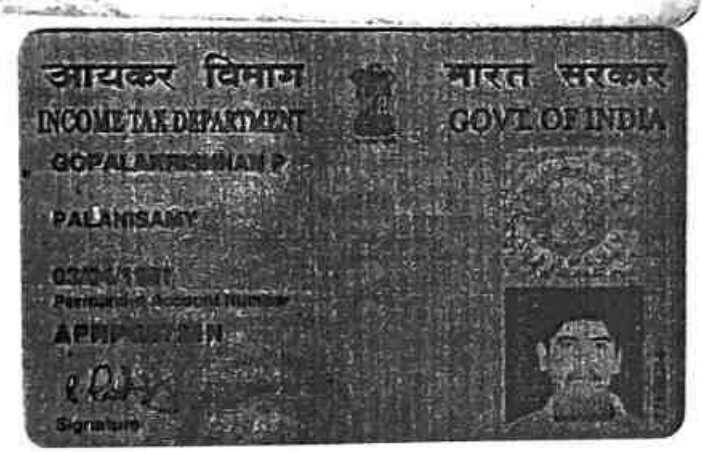
பரப்பு : ஹெக்டேர் 4 ஏர் 97.0 (வடக்கு

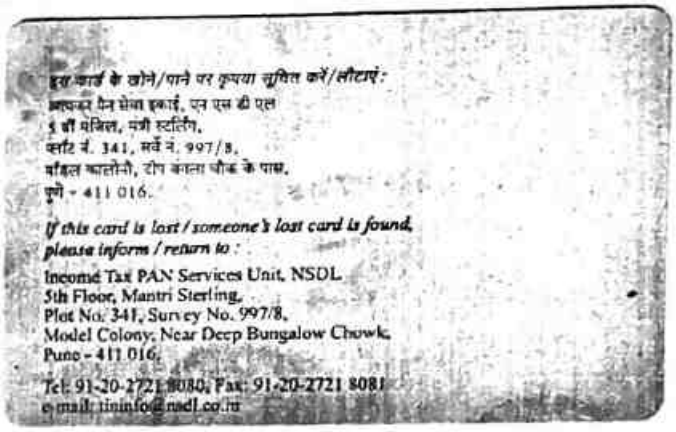


	B			(208.6)	4		
	(180.6)			100.4	1.4	9	
	144.6	6.2	4	1,86	5.8	8	









1. P. Gopal

2. P. Murugan

M. Sabaraj

1 பிப்ரவரி 2025 ம் ஆண்டு ரூ 200 ம்
ஆயிரம் 23 ஆம் ஆண்டுக்கு கொண்டது
17 ஆம் ஆண்டு

Government of India



நடராஜ் R
Nataraj R
பிறந்த நாள்/DOB: 08/11/1969
ஆண்/ MALE

Aadhaar is proof of identity, not of citizenship or date of birth. It should be used with verification (online authentication, or scanning of QR code / offline XML)

7685 3631 0567

Unique Identification Authority of India

முகவரி:
ரயன், 3/252-5, காரசேரி, காரசேரி, பெரியகுயிலை, கோவை, தமிழ் நாடு - 641201

Address:
RAYAN, 3/252-5, KARACHERI, Karacheri, PO: Periyakuyilai, DIST: Coimbatore, Tamil Nadu - 641201

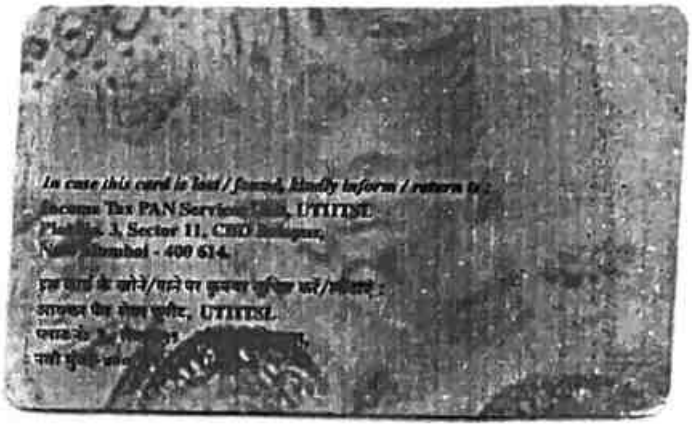
7685 3631 0567

VID : 9158 9239 9803 5762

1947 | help@uidai.gov.in | www.uidai.gov.in

आयकर विभाग
INCOME TAX DEPARTMENT
NATARAJ
RAYAN
08/11/1969
Permanent Account Number
BDJPN5206Q
Signature

भारत सरकार
GOVT. OF INDIA



P Nataraj

P Nataraj

M. Sudarraj

1 ஜூன் 2025 ல் வழங்கப்பட்டது 1200 ரூ
23 ஆகஸ்ட் 2025 வரை செல்லத்தக்கது
18



Government of India

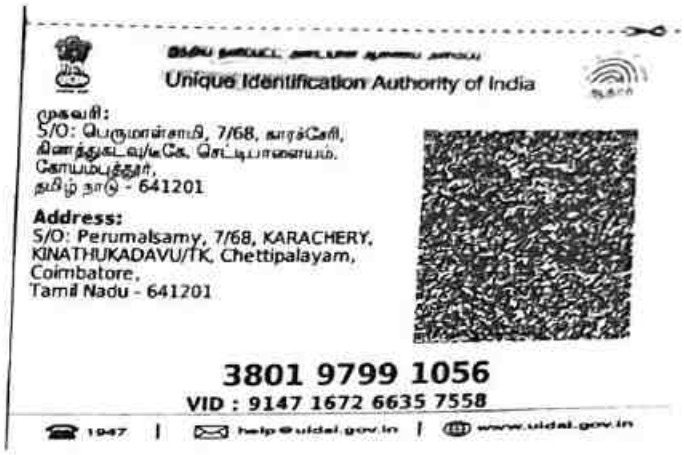
பெ மணிகண்டன்
P Manikandan
பிறந்த நாள்/DOB: 18/07/1973
ஆண்/ MALE

Download Date: 25/08/2020

Issue Date: 17/08/2020

3801 9799 1056
VID : 9147 1672 6635 7558

எனது ஆதார், எனது அடையாளம்



Unique Identification Authority of India

முகவரி:
S/O: பெருமாள்சாமி, 7/68, காரச்சேரி,
கினத்துகடவு/டகே, செட்டிபாளையம்,
கோயம்புத்தூர்,
தமிழ் நாடு - 641201

Address:
S/O: Perumalsamy, 7/68, KARACHERY,
KINATHUKADAVU/TK, Chettipalayam,
Coimbatore,
Tamil Nadu - 641201

3801 9799 1056
VID : 9147 1672 6635 7558

1947 | help@uidai.gov.in | www.uidai.gov.in



आयकर विभाग
INCOME TAX DEPARTMENT

भारत सरकार
GOVT. OF INDIA

MANIKANDAN P

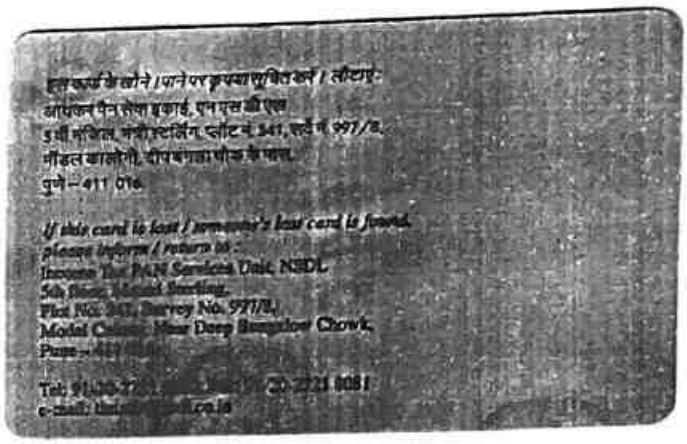
PERUMALSAMY

18/07/1973

Permanent Account Number

BMEPM6055N

Signature



If this card is lost / someone's lost card is found,
please inform / return to -

Tel: 91-20-2721 8081





M. Sudharaj



புத்தகம் 2025 ம் வருடம் தினம் 4200 ம்
23 நகல்களைக் கொண்டது




Government of India

பெ மணிகண்டன்
P Manikandan
பிறந்த நாள்/DOB: 18/07/1973
ஆண்/ MALE

Download Date: 23/08/2020

Issue Date: 17/08/2020

3801 9799 1056
VID : 9147 1672 6635 7558

எனது ஆதார், எனது அடையாளம்


Unique Identification Authority of India

முகவரி:
S/O: பெருமாள்சாமி, 7/68, காரச்சேரி, கினத்துகடவு/டகே, செட்டிபாளையம், கோயம்புத்தூர், தமிழ் நாடு - 641201

Address:
S/O: Perumalsamy, 7/68, KARACHERY, KINATHUKADAVU/TK, Chettipalayam, Coimbatore, Tamil Nadu - 641201

3801 9799 1056
VID : 9147 1672 6635 7558

1947 | help@uidai.gov.in | www.uidai.gov.in


आयकर विभाग
INCOME TAX DEPARTMENT

भारत सरकार
GOVT. OF INDIA

MANIKANDAN P

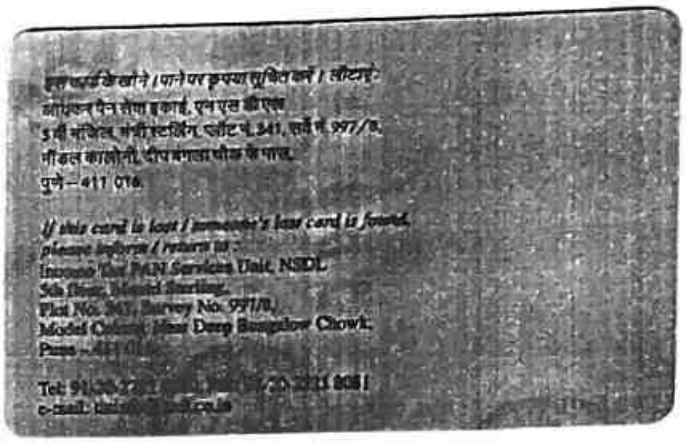
PERUMALSAMY

18/07/1973

Permanent Account Number

BMEPM6056N

Signature


If this card is lost / someone's lost card is found, please inform / return to :

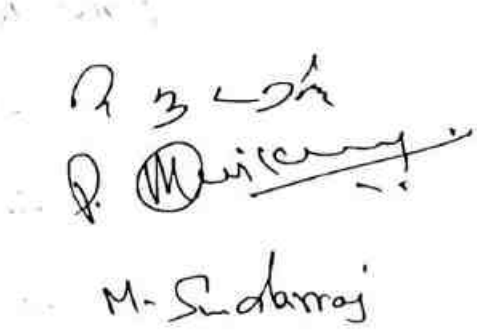
Income Tax PAN Services Unit, NSDL

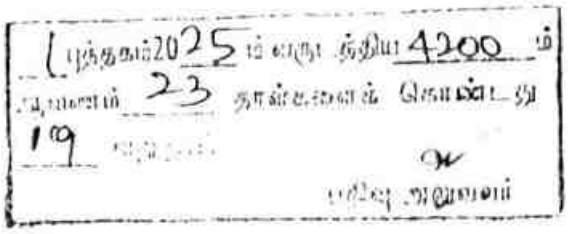
Pune – 411 016.

Tel: 91-20-27 20 2111 808 |

e-mail:




M. Subaraj


புத்தகம் 2025 ம் வரு தினம் 4200 ம்
23 தாசீல்தார் கையொப்பம்
19











R. Sundarraj

R. Mayilsamy

M. Sundarraj

1 புத்தகம் 2025 ம் தொடர்ச்சியாக 200 ம்
பக்கங்கள் 23 முன்னோடி பொருள்கள் 02
20



ராஜமாணிக்கம் பொன்னுச்சாமி
Rajamanickam Ponnusamy
பிறந்த நாள்/DOB: 08/10/1978
ஆண்/ MALE
Mob: 9442993277

Aadhaar is proof of identity, not of citizenship or date of birth. It should be used with verification (online authentication, or scanning of QR code / offline XML).

3185 9254 8517
VID: 9181 3874 0760 7893

எனது ஆதார், எனது அடையாளம்



முகவரி:
S/O: பொன்னுச்சாமி, எண்13/5, பன்னர் மேற்கு தெரு, பெரியகலையம்புத்தூர், நெய்க்காரப்பட்டி, கலையம்புத்தூர், திண்டுக்கல், தமிழ் நாடு - 624615

Address:
S/O: Ponnusamy, no13/5, PANNAR WEST STREET, PERIYAKALAIYAMPUTHUR, Neikarapatti, PO: Kalayamputhur, DIST: Dindigul, Tamil Nadu - 624615

Details as on: 03/12/2024

3185 9254 8517
VID: 9181 3874 0760 7893

1947 | help@uidai.gov.in | www.uidai.gov.in



Government of India

பொன்னுசாமி
Ponnusamy
பிறந்த நாள்/DOB: 25/05/1962
ஆண்/ MALE

Aadhaar is proof of identity, not of citizenship or date of birth. It should be used with verification (online authentication, or scanning of QR code / offline XML)

5627 6106 2636

எனது ஆதார், எனது அடையாளம்



Unique Identification Authority of India

முகவரி:
S/O மயிலசாமி, கதவு எண் 2/368, அரசம்பாளையம், ஆலாமரத்தோட்டம், அரசம்பாளையம், அரசம்பாளையம், கோயம்புத்தூர், அரசம்பாளையம், கோயம்புத்தூர், தமிழ் நாடு - 642109

Address:
S/O Mylsamy, DOOR NO - 2/368, ARASAMPALAYAM, ALAMARATHOTTAM, ARASAMPALAYAM, Arasampalayam PO, Arasampalayam, DIST: Coimbatore, Tamil Nadu - 642109

5627 6106 2636
VID : 9158 5783 9049 1430

1947 | help@uidai.gov.in | www.uidai.gov.in

M. Sudharaj

[illegible] 4200 [illegible]
[illegible] 23 [illegible]
21 [illegible]

R/2 எண் இணை சார்பதிவாளர் பழனி/புத்தகம்-1/4200/2025

1899ம் ஆண்டு இந்திய முத்திரைச் சட்டம் 42வது பிரிவின் கீழான சான்று

2025ம் ஆண்டு வரிசை எண் 3454

3/252-5, காரச்சேரி, கிணத்துக்கடவு, கோயம்புத்தூர்., கோயம்புத்தூர், தமிழ்நாடு, இந்தியா, 642103-ல் வசிக்கும் திரு நடராஜ் என்பவரிடமிருந்து ₹ 54,500/- (ரூபாய் ஐம்பத்து நான்காயிரத்து ஐந்நூறு மட்டும்) இந்த ஆவணத்திற்காக இந்திய முத்திரைச் சட்டம் 41வது பிரிவின் படி குறைவாயிருந்த முத்திரைக் கட்டணம் வசூலிக்கப்பட்டது என நான் இதன் மூலம் சான்றளிக்கிறேன்.

சார்பதிவாளர் : 2 எண் இணை சார்பதிவாளர் பழனி. சார்பதிவாளர் மற்றும் இந்திய முத்திரைச் சட்டம் பிரிவு 41ன் கீழ்அதிகாரியினை சார்பதிவாளர் பழனி.

நாள்: 06/11/2025

2025 ஆம் ஆண்டு நவம்பர் மாதம் 06ம் தேதி பி.ப. 02:55 மணியளவில் 2 எண் இணை சார்பதிவாளர் பழனி சார்பதிவாளர் அலுவலகத்தில் தாக்கல் செய்து கட்டணம் ₹ 19,310/- செலுத்தியவர்

இடது பெருவிரல்





கூடுதல் விவரங்கள் ஆவண வாசகத்தில் உள்ளபடி

எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர்
இடது பெருவிரல்





"சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பிட்டு எண் UKC:8905113e484064424ee4ce997cec00eee3f3828 (Details from UIDAI : GOPALAKRISHNAN P S/O: Palanisamy, 03-04-1991, xxxxxxxx0238)







R/2 எண் இணை சார்பதிவாளர் பழனி/புத்தகம்-1/4200/2025

	xxxxxxxx0567)	
எழுதி வாங்கியதாக ஒப்புக் கொண்டவர் இடது பெருவிரல்  	P - Manikandan "சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண் : UKC:7064665f4c82d00b4594c2d9ed9103e383ca481 (Details from UIDAI : P Manikandan S/O: Perumalsamy, 18-07-1973, xxxxxxxx1056)	
எழுதி வாங்கியதாக ஒப்புக் கொண்டவர் வலது பெருவிரல்  	M. Sudarraj "சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண் : UKC:89236749356a38277d44f8dae9e0a23107ed150 (Details from UIDAI : Sundarraj K MYILSAMY, 05-05-1977, xxxxxxxx1633)	

2025 ஆம் ஆண்டு நவம்பர் மாதம் 6ம் நாள்

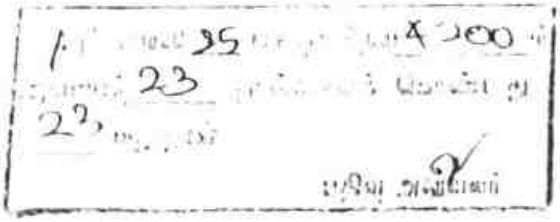
சார்பதிவாளர்
2 எண் இணை சார்பதிவாளர் பழனி.
2-ம் எண் இணை சார்பதிவாளர்
பழனி.

R/2 எண் இணை சார்பதிவாளர் பழனி/புத்தகம்-1/4200/2025 எண்ணாகப் பதிவு செய்யப்பட்டது

நாள் 06/11/2025

2 எண் இணை சார்பதிவாளர் பழனி

சார்பதிவாளர்
2-ம் எண் இணை சார்பதிவாளர்
பழனி.



3162/2026

भारतीय गैर न्यायिक

एक सौ रुपये Rs. 100

रु. 100 ONE HUNDRED RUPEES

सत्यमेव जयते

भारत INDIA

INDIA NON JUDICIAL

தமிழ்நாடு तमिलनाडु TAMILNADU

ரூ100/- GC 627954

மணிகண்டன்
காரச்சேரி.

P. செந்தில்குமரன்
முத்திரைத்தாள் விற்பனையாளர்
உரிமம் எண் : 1/2015
எண். 170, பிரதான், பொள்ளாச்சி பிராயம்
பொள்ளாச்சி 04.

தேதி: 28-08-2026

குத்தகைப் பத்திரம்

முன் பணம் இல்லை

ஆண்டு ஒன்றுக்கு ரூ.1,000/- வீதம் 15 (பதினைந்து) ஆண்டுகளுக்கு இரண்டாயிரத்து இருபத்திஆறாம் ஆண்டு ஆகஸ்ட் மாதம் இருபத்திஎட்டாம் தேதி (28.08.2026) கோயம்புத்தூர் மாவட்டம், கிணத்துக்கடவு வட்டம், பெரியகுயிலை, காரச்சேரி, கதவு எண். 3/252-5-ல் வசித்து வரும் திரு.ராயன் அவர்கள் குமாரர் (Aadhaar No: 7685 3631 0567, PAN: BDJPN5206Q) (Cell No: 99766 80909) திரு.R.நடராஜ்-1, ஷை வட்டம், காரச்சேரி, கதவு எண்.7/68-ல் வசித்து வரும்

1. R நடராஜ்
2. R Murugan
3. M. Sudalaiyandi
4. R Murugan

புத்தகம்20 26 ம் வரு எண்ணில் 3162 ம்
ஆவணம் 14 நாள்களால் கொண்டது
1 வது தாள்
பதிவு அலுவலர்

Scanned with OKEN Scanner

திரு.பெருமாள்சாமி அவர்கள் குமாரர் (Aadhaar No: 3801 9799 1056, PAN: BMEPM6055N) (Cell No: 98428 96223) **திரு.P.மணிகண்டன்-2**, ஷை வட்டம், காரச்சேரி, கதவு எண். 3/252-1-ல் வசித்து வரும் திரு.மயில்சாமி அவர்கள் குமாரர் (Aadhaar No: 2855 3850 1633, PAN: DJDPS8639Q) (Cell No: 99521 50130) **திரு.M.சுந்தர்ராஜ்-3** சொத்து சுவான்தார்கள்.

கோயம்புத்தூர் மாவட்டம், கிணத்துக்கடவு வட்டம், காரச்சேரி, கதவு எண்.7/68-ல் வசித்து வரும் திரு.பெருமாள்சாமி அவர்கள் குமாரர் (Aadhaar No: 3801 9799 1056, PAN: BMEPM6055N) (Cell No: 98428 96223) **திரு.P.மணிகண்டன்-4** குத்தகைதாரர் ஆக நாம் நான்கு பேர்களும் சேர்ந்து எழுதிக்கொண்ட குத்தகைப்பத்திரம் என்னவென்றால்..

நம்மளில் 1,2,3 லக்க நபர்களுக்கு சென்ற 25.03.2025-ந் தேதிய பழனி 2 நிர் சார்பதிவகம் 1 புத்தகம் 1097/2025-ம் எண் பதிவு கிரையப் பத்திரம் மூலமும், சென்ற 08.04.2025-ந் தேதிய பழனி 2 நிர் சார்பதிவகம் 1 புத்தகம் 1314/2025-ம் எண் பதிவு கிரையப் பத்திரம் மூலமும், சென்ற 06.11.2025-ந் தேதிய பழனி 2 நிர் இணை சார்பதிவகம் 1 புத்தகம் 4200/2025-ம் எண் பதிவு கிரையப் பத்திரம் மூலம் சுயார்ஜித வகையில் சர்வ சுதந்திர பாத்தியப்பட்டு பிறர் சுவாதீனமின்றி அனுபவித்து வருகின்ற சொத்துக்களில் இதில் கண்ட சொத்தை மட்டும் ஆண்டு ஒன்றுக்கு ரூ.1,000/- வீதம் 15 (பதினைந்து) ஆண்டுகளுக்கு முன் பணம் இல்லாமல் குத்தகைக்கு பேசி முடித்து நான்கு பேர்களும் ஒப்புக்கொண்டு நாளது தேதியில் 4 லக்க நபரிடம் 1,2,3 லக்க நபர்கள் மொத்த குத்தகை தொகை ரூ.15,000/-(ரூபாய் பதினைந்தாயிரம்) மட்டும் ரொக்கமாக பெற்றுக்கொண்டு இதில்கண்ட சொத்தை இன்றே 1,2,3 லக்க நபர்கள் ஒப்படைத்து 4 லக்க நபர் சுவாதீனம் அடைந்து கொண்டபடியால் நாளது

1. R பெருமாள்
2. P. Manikandan
3. M. Sundaraj
4. P. Manikandan

புத்தகம் 1 / 2025 ம் வருடத்திய 3462 ம்
ஆவணம் 14 தான்கனாக் கொண்டது
2 வது தாள்
பதிவு அலுவலர்



தேதியிலிருந்து 15 (பதினைந்து) ஆண்டுகளுக்கு அதாவது 28.08.2026ம் தேதி முதல் 27.08.2041ம் தேதி வரை எந்தவித ஆட்சேபணையும் இல்லாமல் கல் குவாரி அமைத்து தொழில் செய்து 4 லக்க நபர் அனுபவித்துக் கொள்ளவேண்டியது.

நாளது தேதியிலிருந்து 15 (பதினைந்து) ஆண்டுகள் முடிந்தவுடன் (27.08.2041) எந்தவிதமான ஆட்சேபணையும் இல்லாமல் இதன் 1.2.3 லக்க நபர்கள் இதில் கண்ட சொத்துக்களை சுவாதீனம் பெற்றக்கொள்ளவேண்டியது.

குத்தகை காலத்தில் நிலவரியை இதன் 1.2.3 லக்க நபர்களே செலுத்தி கொள்ளவேண்டியது. இந்தப்படி நம் நான்கு பேர்களின் முழுமனச்சம்மதத்துடன் எழுதிக்கொண்ட குத்தகை பத்திரம்.

சொத்து விபரம்

பழனி ரிடி. பழனி சப்டி 2. பழனி வட்டம். **வடக்கு தாதநாயக்கன்பட்டி கிராமம்.** பட்டா எண்கள்.1178-ல் கண்ட

சர்வே 157/2 நிர் முழுப்புலம் ஹெக்.1.48.00-க்கு ஏக் 3 செ 66-ம்

சர்வே 157/3 நிர் முழுப்புலம் ஹெக்.1.31.50-க்கு

ஏக் 3 செ 25-ல் வடபுறம் கிழமேலாக ஹெக்.0.28.34-க்கு ஏக் 0 செ 70-ம்

ஆக மொத்தம் ஹெக்.1.76.34-க்கு ஏக் 4 செ 36 உள்ள புஞ்சை நிலத்திற்கு நான்கு மால் விபரம்.

வடக்கு - சர்வே 156/1 நிர் தே.உஷா நிலம்

கிழக்கு - சர்வே 48 நிர் வண்டிப்பாதை

தெற்கு - சர்வே 157/3 நிர் எங்கள் கைவசம் உள்ள மீதி நிலம்

மேற்கு - சர்வே 157/1A, 157/1C நிர் சுந்தர்ராஜ் (வ) நிலங்கள்

1. [signature]
2. [signature]
3. [signature]
4. [signature]

1 புத்தகம் 2026 ம் வருடத்திய 3162 ம்
ஆவணம் 14 தான்காவலக் கொண்டது
3 வது தால்
பதிவுஅலுவலர்

Scanned with OKEN Scanner

இதற்குள் மேற்படி ஹெக்.1.76.34-க்கு ஏக் 4 செ 36 உள்ள புஞ்சை நிலங்களும், மேற்படி நிலங்களுக்கு ஏற்பட்ட சகல மாமூல் அனுபவ பாத்தியமும் மாமூல் வழிநடை பாதை பாத்தியமும் சேர்ந்து.

1.
2.
3.
4.

சாட்சிகள் :

1. K.N.சஸ்வத் சாம்ராஜ் (Aadhaar No: 9280 8800 0616)
த/பெ.நடராஜ், 3/252, காரச்சேரி, பெரியகுயிலை கிணத்துக்கடவு. (Cell No: 99528 18640)

2. V.செந்தில்குமார் (Aadhaar No: 2123 4476 6304)
த/பெ.வேலுச்சாமி, 2/155பி, எஸ்விடி காலனி, பெரியகுயிலை, கூலூர். (Cell No: 99429 22777)

ஆவணம் தயாரித்தவர்:



R.பவுல் டாமினிக்,பழனி.
L.No.B99/PLN/1991
pauldominic61@gmail.com
Cell.98941 38510
88252 50850.

புத்தகம்2026 ம் வருடத்திய 3162 ம்
ஆவணம் 14 தான்கலைக் கொண்டது
4 வது தாள்
பதிவு அலுவலர்

Scanned with OKEN Scanner

உறுதிமொழி

இந்த ஆவணத்தை எழுதிக் கொடுப்பவர்களும், எழுதிப்பெறுபவர்களும் கீழ்க்கண்ட உறுதி மொழியை அளிக்கின்றோம்.

வழக்கிடை ஆவண சொத்து பதிவுச்சட்டம் 1908 பிரிவு 22 (A) மற்றும் பிரிவு 22(B)-க்கு உட்பட்டதல்ல எனவும், ஆவணத்துடன் இணைக்கப்பட்ட அனைத்து ஆவணங்களும் இந்திய தண்டனை சட்டம் 1860 பிரிவு 470-ன்படி Forged Document அல்ல எனவும், ஆவணத்தை எழுதிப்பெறுவர் அனைத்து ஆவணங்களையும் பரிசீலித்து விவரங்கம் சரிபார்த்து எழுதிப் பெறுகிறார் எனவும், சொத்து மாற்றம் சட்டம் 1882-ன்படி சொத்து பரிமாற்றம் தொடர்பான அனைத்து பிரிவுகளுக்கும் உட்பட்டு செயல்பட்டுள்ளோம் எனவும் உறுதிமொழி அளிக்கின்றோம்.

மேலும் இதனில் நாங்களுக்கு தவறான தகவல்கள் அல்லது சான்று அளிக்கப்பட்டதாக பின்னால் கண்டுபிடிக்கப்பட்டால் அதற்கு நாங்கள் மட்டுமே பொறுப்பு ஆவோம் எனவும் அதற்கான சட்டபூர்வ நடவடிக்கைக்கு கட்டுப்படுகிறோம் எனவும். இதற்கு சார்பதிவாளர் எவ்விதத்திலும் பொறுப்பாக மாட்டார் எனவும் உறுதிமொழி அளிக்கின்றோம்.

<u>மேற்படி சொத்தானது நீர்நிலை பகுதியில் அமையப் பெறவில்லை என்பதற்கான சான்று/உறுதிமொழி (உயர்நீதி மன்ற நீதிபேராணை எண். 22163/2018 வழங்கப்பட்ட தீர்ப்புரையின்படி)</u>

இந்த ஆவணத்தில் கண்ட சொத்தானது நீர்நிலைகள், நீர்வழிப்பாதைகள், நீர்பிடிப்பு பகுதிகளில் கட்டுப்படவில்லை என சான்றளிக்கிறேன். மேலும் இதனில் தங்களுக்கு தவறான தகவல் அல்லது சான்று அளிக்கப்பட்டதாக பின்னாளில் கண்டுபிடிக்கப்பட்டால் அதனால் நான் சட்ட பூர்வ நடவடிக்கைகளுக்கு உட்படுத்தப்படுவேன் என்பதையும் அறிவேன்.

1.
2.
3. M. Sdamy
4.

புத்தகம் 1/2025 பக்கம் 315
ஆவண 14 தான்கொண்ட
5 வது தாள்
பதிவுத்துறை



6

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

மாவட்டம் : திண்டுக்கல் வட்டம் : பழனி

வருவாய் கிராமம் : தாதநாயக்கன்பட்டி வடக்கு பட்டா எண் : 1178

உரிமையாளர்கள் பெயர்

1.	பெருமாள்சாமி	மகன்	மணிகண்டன்	
2.	மயில்சாமி	மகன்	சுந்தர்ராஜ்	
3.	ராயன்	மகன்	நடராஜ்	

புல எண்	உட்பிரிவு	புன்செய்		நன்செய்		மற்றவை		குறிப்புரைகள்
		பரப்பு	தீர்வை	பரப்பு	தீர்வை	பரப்பு	தீர்வை	
		ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	
157	2	1 - 48.00	3.18	--	--	--	--	2026/0103/13/004264-- ------ Digitally signed:Karpagam D Head Quarters Deputy Tahsildar 18/02/2026 04:58:45:PM
157	3	1 - 31.50	2.83	1 புத்தகம் 2026 ம் வருடத்திய 3162 ம் ஆவணம் 14 தாள்களைக் கொண்டது 6 வது தாள்		--	--	2026/0103/13/004264-- ------ Digitally signed:Karpagam D Head Quarters Deputy Tahsildar 18/02/2026 04:58:45:PM
		2 - 79.50	6.01					

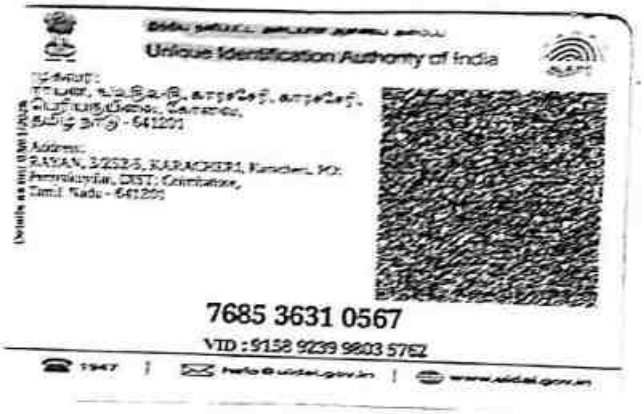
பதிவு அலுவலர்

குறிப்பு :

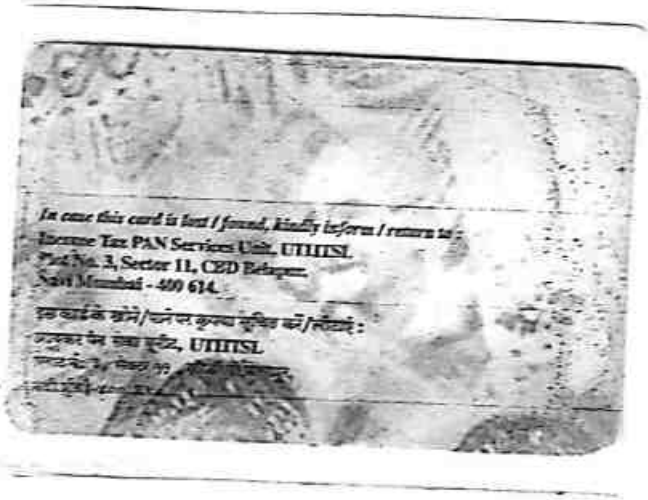
1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **P/13/21/104/01178/140497** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 28-08-2026 அன்று 11:22:28 AM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

Scanned with OKEN Scanner









R நடராஜ்

P. Murugan

M. Sundaraj

P. Murugan

1 புத்தகம் 2026 ம் வருடத்திய 3162 ஆவணம் 14 நாள்களைக் கொண்டது 7 வது நாள்

பதிவு அலுவலர்

Scanned with OKEN Scanner



இந்திய அரசாங்கம்
Government of India

இந்திய தனிப்பட்ட அடையாள ஆணைய அமைப்பு
Unique Identification Authority of India

பதிவேட்டு எண்/ Enrolment No.: 2193/10307/80898

To
பெ மணிகண்டன்
P Manikandan
S/O: Perumalsamy
7/68
KARACHERY
KINATHUKADAVU/TK
Chettipalayam
Chettipalayam
Coimbatore Tamil Nadu - 641201
9842896223

Download Date: 23/09/2020

Issue Date: 17/08/2020

Signature valid

உங்கள் ஆதார் எண் / Your Aadhaar No. :
3801 9799 1056
VID : 9147 1672 6635 7558

எனது ஆதார், எனது அடையாளம்

Government of India

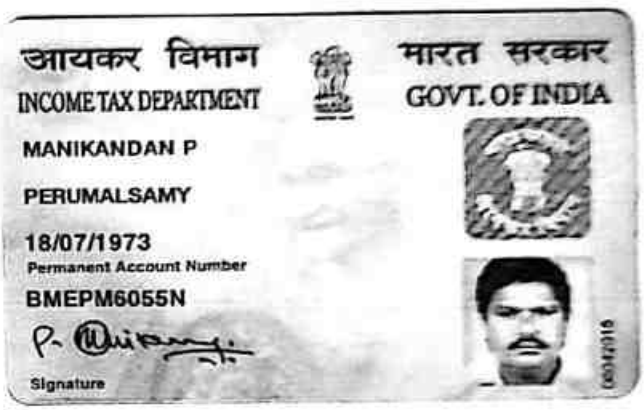
பெ மணிகண்டன்
P Manikandan
பிறந்த நாள்/DOB: 18/07/1973
ஆண்/ MALE

Download Date: 23/09/2020

Issue Date: 17/08/2020

3801 9799 1056
VID : 9147 1672 6635 7558

எனது ஆதார், எனது அடையாளம்



आयकर विभाग
INCOME TAX DEPARTMENT

भारत सरकार
GOVT. OF INDIA

MANIKANDAN P

PERUMALSAMY

18/07/1973
Permanent Account Number
BMEPM6055N

Signature

P. Manikandan

P. Manikandan

M. Sudaroj

P. Manikandan

புத்தகம் 2026 ம் வருடத்தில் 3162 ம்
ஆவணம் 14 தாள்களால் ஆனது
வது தாள்

பதிவு அலுவலர்

Scanned with OKEN Scanner

आयकर विभाग
INCOME TAX DEPARTMENT

भारत सरकार
GOVT. OF INDIA

स्थायी लेखा संख्या कार्ड
Permanent Account Number Card



DJDPS8639Q

नाम / Name
SUNDARRAJ

पिता का नाम / Father's Name
MYILSAMY GOUNDER

जन्म की तारीख / Date of Birth
05/05/1977

M-Sundarraj

हस्ताक्षर / Signature

Government of India



சுந்தர்ராஜ்
Sundarraj
பிறந்த நாள்/DOB: 05/05/1977
ஆண்/ MALE

Aadhaar is proof of identity, not of citizenship or date of birth. It should be used with verification (online authentication, or scanning of QR code / offline XML).

Aadhaar no. Issued: 17/03/2018

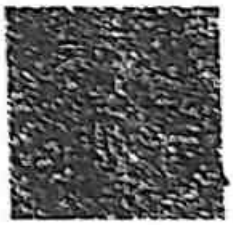
2855 3850 1633

எனது ஆதார், எனது அடையாளம்

Unique Identification Authority of India

முகவரி:
கே மயில்சாமி, 3/252-1, காரச்சேரி,
பெரியகுயிலை, வினைதுக்கடவு,
காரச்சேரி, பெரியகுயிலை,
கோயம்புத்தூர்,
தமிழ் நாடு - 641201

Address:
K MYILSAMY, 3/252-1, KARACHERI,
PERIYAKUILAI, KINATHUKKADAVU, Karacheri,
PO: Periyakuyilai, DIST: Coimbatore,
Tamil Nadu - 641201



Details as on: 01/02/2023

2855 3850 1633
VID : 9112 7671 8884 7752

1947 help@uidai.gov.in www.uidai.gov.in

R Sundarraj

M-Sundarraj

R. Mylsamy

R. Mylsamy

புத்தகம் 2026 ம் வருடத்திய 3162 ம்
ஆவணம் 14 தாள்களைக் கொண்டது
9 வது தாள்

பதிவு அலுவலர்

Scanned with OKEN Scanner

10

இந்திய அரசாங்கம்
Government of India

இந்திய தனிப்பட்ட அடையாள ஆணைய அமைப்பு
Unique Identification Authority of India

பதிவேட்டு என்/ Enrolment No.: 2193/10307/80898

To
பெ மணிகண்டன்
P Manikandan
S/O: Perumalsamy
7/68
KARACHERY
KINATHUKADAVU/TK
Chettipalayam
Chettipalayam
Coimbatore Tamil Nadu - 641201
9842896223

Download Date: 23/08/2020

Issue Date: 17/08/2020

Signature valid

உங்கள் ஆதார் எண் / Your Aadhaar No. :

3801 9799 1056

VID : 9147 1672 6635 7558

எனது ஆதார், எனது அடையாளம்

Government of India

பெ மணிகண்டன்
P Manikandan
பிறந்த நாள்/DOB: 18/07/1973
ஆண்/ MALE

Download Date: 23/08/2020

Issue Date: 17/08/2020

3801 9799 1056

VID : 9147 1672 6635 7558

எனது ஆதார், எனது அடையாளம்

आयकर विभाग
INCOME TAX DEPARTMENT

भारत सरकार
GOVT. OF INDIA

MANIKANDAN P

PERUMALSAMY

18/07/1973

Permanent Account Number

BMEPM6055N

Signature

0004/2018

P. Manikandan

M. Sundaraj

P. Manikandan

1 புத்தகம் 20 ஆம் வருடத்திய 3162 ம்
ஆவணம் 14 தாள்களைக் கொண்டது
10 வது தாள்

பதிவு அலுவலர்

Scanned with OKEN Scanner

Government of India



செந்தில்குமார் வேலுச்சாமி
Senthilkumar Velusamy
பிறந்த நாள்/DOB: 21/04/1975
ஆண்/ MALE

Download Date: 13/02/2021

Issue Date: 06/02/2021

2123 4476 6304

VID : 9155 3042 4015 9070

எனது ஆதார், எனது அடையாளம்

Unique Identification Authority of India

முகவரி:
S/O: வேலுச்சாமி, 2/155 பி, எஸ் வி டி,
கார்டன், பெரியகுயிலை, குனார் தாலுக்கா,
பச்சபாளையம், கோயம்புத்தூர்,
தமிழ் நாடு - 641201

Address:
S/O: Velusamy, 2/155 B, S V T GARDEN,
PEARIYAKUILI, SULUR TALUKA,
Pachapalayam, Coimbatore,
Tamil Nadu - 641201



2123 4476 6304

1947 | help@uidai.gov.in | www.uidai.gov.in

भारत सरकार
Government of India



सस्वत् सामराज् क न
Saswath Samraj K N
பிறந்த நாள் / DOB : 22/09/2003
ஆண் / Male



Aadhaar no. Issued: 10/11/2013

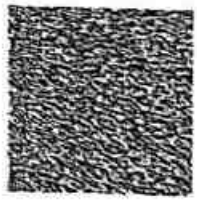
आधार

आधार एक पहचान का प्रमाण है, जन्मतिथि या नागरिकता का नहीं। इसे इस उद्देश्य के लिए उपयोग किया जाना चाहिए। अतिरिक्त सत्यापन के लिए, ऑनलाइन प्रमाणीकरण या क्यूआर कोड/ऑफलाइन एक्सएमएल का स्कैन करें।
Aadhaar is proof of identity, not of citizenship or date of birth. It should be used with verification (online authentication, or scanning of QR code / offline XML).

9280 8800 0616

मेरा आधार, मेरी पहचान

भारतीय विशिष्ट पहचान प्राधिकरण
Unique Identification Authority of India



முகவரி: அப்பா பெயர் நடராஜ், 3/252,
கினத்துக்கடவு, காரச்சேரி, கோவை,
தமிழ் நாடு, 641201
Address: S/O NATARAJ, 3/252,
KINATHUKADAVU, Karacheri,
PO:Periyakuyilai, DIST:Coimbatore, Tamil
Nadu, 641201

Details as on 21/04/2023

9280 8800 0616

1947 help@uidai.gov.in www.uidai.gov.in

புத்தகம் 2026 ம் வருடத்திய 3162 ம்
ஆவணம் 14 தாள்களைக் கொண்டது
11 வது தாள்
பதிவு அலுவலர்

Scanned with OKEN Scanner

R/2 எண் இணை சார்பதிவாளர் பழனி/புத்தகம்-1/3162/2026

1899ம் ஆண்டு இந்திய முத்திரைச் சட்டம் 42வது பிரிவின் கீழான சான்று

2026ம் ஆண்டு வரிசை எண் 2694

7/68, காரச்சேரி, கிணத்துக்கடவு, கோயம்புத்தூர், கோயம்புத்தூர், தமிழ்நாடு, இந்தியா, 642103-ல் வசிக்கும் திரு மணிகண்டன் என்பவரிடமிருந்து ₹ 100/- (ரூபாய் நூறு மட்டும்) இந்த ஆவணத்திற்காக இந்திய முத்திரைச் சட்டம் 41வது பிரிவின் படி குறைவாயிருந்த முத்திரைக் கட்டணம் வசூலிக்கப்பட்டது என நான் இதன் மூலம் சான்றளிக்கிறேன்.

சார்பதிவாளர் : 2 எண் இணை சார்பதிவாளர் பழனி
நாள்: 07/09/2026

சார்பதிவாளர், மற்றும் இந்திய முத்திரைச் சட்டம் பிரிவு
2-ன் படி ஆட்சியர்
2-ம் எண் இணை சார்பதிவாளர்
பழனி.

2026 ஆம் ஆண்டு செப்டம்பர் மாதம் 07ம் தேதி பி.ப 03:38 மணியளவில் 2 எண் இணை சார்பதிவாளர் பழனி சார்பதிவாளர் அலுவலகத்தில் தாக்கல் செய்து கட்டணம் ₹ 610/- செலுத்தியவர்.

இடது பெருவிரல்





கூடுதல் விவரங்கள் ஆவண வாசகத்தில் உள்ளபடி

எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர்
இடது பெருவிரல்





"சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண் : UKC:8564714f2b7347332174 89b8c5e7e730fca2f96
(Details from UIDAI : Nataraj R RAYAN, 08-11-1969, xxxxxxxx0567)



எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர்
இடது பெருவிரல்





"சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண்.
UKC:5732894b6864b2ec3584994a494a91260a [illegible]
(Details from UIDAI : P Manikandan [illegible])



ஆவணம் [illegible] கைத்தல் கொண்டது
வழு தான்
பதிவு அலுவலர்

Scanned with OKEN Scanner

	18-07-1973, xxxxxxxx1056)	
எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர் வலது பெருவிரல்  	M. Sundarraj "சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண் : UKC:136450260c385b9a18e420c856947e2715e10f7 (Details from UIDAI : Sundarraj K MYILSAMY, 05-05-1977, xxxxxxxx1633)	
எழுதி வாங்கியதாக ஒப்புக் கொண்டவர் இடது பெருவிரல்  	P. Murugan கூடுதல் விவரங்கள் ஆவண வாசகத்தில் உள்ளபடி	
இன்னாரென்று நிரூபித்தவர்கள் Witness 1 இடது பெருவிரல்  	Saswath Raj திரு சஸ்வத் சாம்ராஜ் த/பெ நடராஜ் 3/252, காரச்சேர, பெரியகுயிலை, கிணத்துக்கடவு, கோயம்புத்தூர், தமிழ்நாடு, இந்தியா, 642103 "சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண் : UKC:2485035e2aab8eaed194459ae3e2c5e16dd9834 (Details from UIDAI : Saswath Samraj K N S/O NATARAJ, 22-08-2003, xxxxxxxx0616)	
இன்னாரென்று நிரூபித்தவர்கள் Witness 2 இடது பெருவிரல்  	 திரு செந்தில்குமார் த/பெ வேலுச்சாமி 2/155பி, எஸ் வி டி கார்டன், பெரியகுயிலி, பச்சாபாளையம், தூலூர், கோயம்புத்தூர்., கோயம்புத்தூர், தமிழ்நாடு, இந்தியா, 642103 "சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண் UKC:56344949b02c66bed434a4cb5ee96ad853e94	

புத்தகம் 1 இதன் வருடத்திய 3162 ம்
ஆவணம் 14 தாள்களைக் கொண்டது
13 வது தாள்
பதிவு அலுவலர்

Scanned with OKEN Scanner

R/2 எண் இணை சார்பதிவாளர் பழனி/புத்தகம்-1/3162/2026

[redacted]	(Details from UIDAI : Senthilkumar Velusamy S/O: Velusamy, 21-04-1975, xxxxxxxx6304)	

2026 ஆம் ஆண்டு செப்டம்பர் மாதம் 7ம் நாள்

பழனிச்சார்பதிவாளர்
2-ம் எண் இணை சார்பதிவாளர் பழனி
2 எண் இணை சார்பதிவாளர் பழனி

R/2 எண் இணை சார்பதிவாளர் பழனி/புத்தகம்-1/3162/2026 என்னாகப் பதிவு செய்யப்பட்டது.

நாள்: 07/09/2026
2 எண் இணை சார்பதிவாளர் பழனி

பழனிச்சார்பதிவாளர்
-2-ம் எண் இணை சார்பதிவாளர்
பழனி.

புத்தகம்2026 ம் வருடத்திய3162ம்
ஆவணம் 14 தாள்களைக் கொண்டது
14 வது தாள்
பதிவு அலுவலர்

Scanned with OKEN Scanner

ANNEXURE-7

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1015	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1015	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	03.03.2026	Test Completed on	13.03.2026
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1016	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1016	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	03.03.2026	Test Completed on	13.03.2026
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1017	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1017	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	04.03.2026	Test Completed on	13.03.2026
Temperature	33°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1018	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1018	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	04.03.2026	Test Completed on	13.03.2026
Temperature	33°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1019	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1019	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	05.03.2026	Test Completed on	13.03.2026
Temperature	34°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	41.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1020	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1020	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	05.03.2026	Test Completed on	13.03.2026
Temperature	34°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1021	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1021	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	06.03.2026	Test Completed on	13.03.2026
Temperature	35°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

END OF THE REPORT

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1022	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1022	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	06.03.2026	Test Completed on	13.03.2026
Temperature	35°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

END OF THE REPORT

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1023	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1023	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	07.03.2026	Test Completed on	13.03.2026
Temperature	35°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1024	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1024	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	07.03.2026	Test Completed on	13.03.2026
Temperature	35°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1025	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1025	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	07.03.2026	Test Completed on	13.03.2026
Temperature	35°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1026	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1026	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	08.03.2026	Test Completed on	13.03.2026
Temperature	34°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1027	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1027	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	08.03.2026	Test Completed on	13.03.2026
Temperature	34°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd ★ Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1028	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1028	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	08.03.2026	Test Completed on	13.03.2026
Temperature	34°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1105	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1105	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	10.03.2026	Test Completed on	20.03.2026
Temperature	32°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	40.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	18.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1106	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1106	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	10.03.2026	Test Completed on	20.03.2026
Temperature	32°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1107	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1107	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	10.03.2026	Test Completed on	20.03.2026
Temperature	32°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1108	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1108	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	11.03.2026	Test Completed on	20.03.2026
Temperature	32°C	Relative Humidity	37%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1109	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1109	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	11.03.2026	Test Completed on	20.03.2026
Temperature	37°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1110	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1110	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	11.03.2026	Test Completed on	20.03.2026
Temperature	37°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1111	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1111	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	12.03.2026	Test Completed on	20.03.2026
Temperature	34°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1112	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1112	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	12.03.2026	Test Completed on	20.03.2026
Temperature	34°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1113	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1113	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	13.03.2026	Test Completed on	20.03.2026
Temperature	34°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1114	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1114	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	13.03.2026	Test Completed on	20.03.2026
Temperature	34°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1115	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1115	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	14.03.2026	Test Completed on	20.03.2026
Temperature	35°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	67.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1116	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1116	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	14.03.2026	Test Completed on	20.03.2026
Temperature	35°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1117	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1117	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	15.03.2026	Test Completed on	20.03.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	63.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1118	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1118	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	15.03.2026	Test Completed on	20.03.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1195	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guidelines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1195	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	17.03.2026	Test Completed on	27.03.2026
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	72.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	34.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1196	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1196	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	17.03.2026	Test Completed on	27.03.2026
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1197	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1197	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	18.03.2026	Test Completed on	27.03.2026
Temperature	34°C	Relative Humidity	35%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	68.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1198	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1198	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	18.03.2026	Test Completed on	27.03.2026
Temperature	34°C	Relative Humidity	35%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd Chennai - 45

END OF THE REPORT

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1199	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1199	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	19.03.2026	Test Completed on	27.03.2026
Temperature	34°C	Relative Humidity	35%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

END OF THE REPORT

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1200	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1200	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	19.03.2026	Test Completed on	27.03.2026
Temperature	34°C	Relative Humidity	35%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1201	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1201	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	20.03.2026	Test Completed on	27.03.2026
Temperature	33°C	Relative Humidity	36%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd ★ Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1202	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1202	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	20.03.2026	Test Completed on	27.03.2026
Temperature	33°C	Relative Humidity	36%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd * Chennai - 45

END OF THE REPORT

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1203	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1203	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	21.03.2026	Test Completed on	27.03.2026
Temperature	34°C	Relative Humidity	36%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1204	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1204	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	21.03.2026	Test Completed on	27.03.2026
Temperature	34°C	Relative Humidity	36%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1205	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1205	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	21.03.2026	Test Completed on	27.03.2026
Temperature	34°C	Relative Humidity	36%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd Chennai - 45

END OF THE REPORT

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1206	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1206	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	22.03.2026	Test Completed on	27.03.2026
Temperature	34°C	Relative Humidity	33%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1207	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1207	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	22.03.2026	Test Completed on	27.03.2026
Temperature	34°C	Relative Humidity	33%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1208	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1208	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	22.03.2026	Test Completed on	27.03.2026
Temperature	34°C	Relative Humidity	33%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1285	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1285	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	24.03.2026	Test Completed on	03.04.2026
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1286	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1286	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	24.03.2026	Test Completed on	03.04.2026
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1287	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1287	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	24.03.2026	Test Completed on	03.04.2026
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1288	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1288	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	25.03.2026	Test Completed on	03.04.2026
Temperature	35°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1289	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1289	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	25.03.2026	Test Completed on	03.04.2026
Temperature	35°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1290	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1290	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	25.03.2026	Test Completed on	03.04.2026
Temperature	35°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1291	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1291	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	26.03.2026	Test Completed on	03.04.2026
Temperature	35°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	40.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	18.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1292	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1292	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	26.03.2026	Test Completed on	03.04.2026
Temperature	35°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1293	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1293	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	27.03.2026	Test Completed on	03.04.2026
Temperature	36°C	Relative Humidity	20%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1294	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1294	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	27.03.2026	Test Completed on	03.04.2026
Temperature	36°C	Relative Humidity	20%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1295	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1295	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	28.03.2026	Test Completed on	03.04.2026
Temperature	37°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	62.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1296	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1296	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	28.03.2026	Test Completed on	03.04.2026
Temperature	37°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1297	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1297	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	29.03.2026	Test Completed on	03.04.2026
Temperature	37°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	71.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	34.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1298	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1298	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	29.03.2026	Test Completed on	03.04.2026
Temperature	37°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1375	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1375	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	31.03.2026	Test Completed on	10.04.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1376	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1376	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	31.03.2026	Test Completed on	10.04.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1377	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1377	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	01.04.2026	Test Completed on	10.04.2026
Temperature	35°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1378	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1378	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	01.04.2026	Test Completed on	10.04.2026
Temperature	35°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

END OF THE REPORT

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1379	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1379	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	02.04.2026	Test Completed on	10.04.2026
Temperature	36°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	41.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1380	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1380	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	02.04.2026	Test Completed on	10.04.2026
Temperature	36°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1381	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1381	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	03.04.2026	Test Completed on	10.04.2026
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1382	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1382	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	03.04.2026	Test Completed on	10.04.2026
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1383	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1383	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	04.04.2026	Test Completed on	10.04.2026
Temperature	37°C	Relative Humidity	31%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1384	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1384	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	04.04.2026	Test Completed on	10.04.2026
Temperature	37°C	Relative Humidity	31%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	41.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1385	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1385	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	04.04.2026	Test Completed on	10.04.2026
Temperature	37°C	Relative Humidity	31%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1386	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1386	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	05.04.2026	Test Completed on	10.04.2026
Temperature	37°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1387	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1387	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	05.04.2026	Test Completed on	10.04.2026
Temperature	37°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1388	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1388	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	05.04.2026	Test Completed on	10.04.2026
Temperature	37°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1465	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1465	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	07.04.2026	Test Completed on	17.04.2026
Temperature	37°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	18.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1466	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1466	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	07.04.2026	Test Completed on	17.04.2026
Temperature	37°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1467	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1467	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	07.04.2026	Test Completed on	17.04.2026
Temperature	37°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1468	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1468	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	08.04.2026	Test Completed on	17.04.2026
Temperature	37°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1469	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1469	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	08.04.2026	Test Completed on	17.04.2026
Temperature	37°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1470	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1470	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	08.04.2026	Test Completed on	17.04.2026
Temperature	37°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1471	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1471	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	09.04.2026	Test Completed on	17.04.2026
Temperature	36°C	Relative Humidity	34%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1472	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1472	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	09.04.2026	Test Completed on	17.04.2026
Temperature	36°C	Relative Humidity	34%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1473	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1473	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	10.04.2026	Test Completed on	17.04.2026
Temperature	37°C	Relative Humidity	33%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1474	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1474	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	10.04.2026	Test Completed on	17.04.2026
Temperature	37°C	Relative Humidity	33%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1475	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1475	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	11.04.2026	Test Completed on	17.04.2026
Temperature	36°C	Relative Humidity	33%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1476	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1476	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	11.04.2026	Test Completed on	17.04.2026
Temperature	36°C	Relative Humidity	33%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1477	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1477	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	12.04.2026	Test Completed on	17.04.2026
Temperature	36°C	Relative Humidity	29%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	65.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1478	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1478	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	12.04.2026	Test Completed on	17.04.2026
Temperature	36°C	Relative Humidity	29%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1555	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1555	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	14.04.2026	Test Completed on	24.04.2026
Temperature	38°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1556	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1556	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	14.04.2026	Test Completed on	24.04.2026
Temperature	38°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1557	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1557	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	15.04.2026	Test Completed on	24.04.2026
Temperature	38°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1558	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1558	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	15.04.2026	Test Completed on	24.04.2026
Temperature	38°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1559	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1559	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	16.04.2026	Test Completed on	24.04.2026
Temperature	38°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1560	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1560	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	16.04.2026	Test Completed on	24.04.2026
Temperature	38°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1561	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1561	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	17.04.2026	Test Completed on	24.04.2026
Temperature	38°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1562	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1562	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	17.04.2026	Test Completed on	24.04.2026
Temperature	38°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1563	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1563	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	18.04.2026	Test Completed on	24.04.2026
Temperature	38°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1564	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1564	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	18.04.2026	Test Completed on	24.04.2026
Temperature	38°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1565	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1565	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	18.04.2026	Test Completed on	24.04.2026
Temperature	38°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1566	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1566	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	19.04.2026	Test Completed on	24.04.2026
Temperature	38°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1567	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1567	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	19.04.2026	Test Completed on	24.04.2026
Temperature	38°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1568	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1568	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	19.04.2026	Test Completed on	24.04.2026
Temperature	38°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1645	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1645	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	21.04.2026	Test Completed on	01.05.2026
Temperature	38°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1646	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1646	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	21.04.2026	Test Completed on	01.05.2026
Temperature	38°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1647	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1647	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	21.04.2026	Test Completed on	01.05.2026
Temperature	38°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1648	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1648	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	22.04.2026	Test Completed on	01.05.2026
Temperature	38°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1649	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1649	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	22.04.2026	Test Completed on	01.05.2026
Temperature	38°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1650	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1650	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	22.04.2026	Test Completed on	01.05.2026
Temperature	38°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1651	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1651	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	23.04.2026	Test Completed on	01.05.2026
Temperature	38°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	41.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1652	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1652	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	23.04.2026	Test Completed on	01.05.2026
Temperature	38°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1653	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1653	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	24.04.2026	Test Completed on	01.05.2026
Temperature	38°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1654	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1654	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	24.04.2026	Test Completed on	01.05.2026
Temperature	38°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1655	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1655	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	25.04.2026	Test Completed on	01.05.2026
Temperature	37°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	73.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	35.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	14.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1656	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1656	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	25.04.2026	Test Completed on	01.05.2026
Temperature	37°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1657	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1657	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	26.04.2026	Test Completed on	01.05.2026
Temperature	38°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	70.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	33.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1658	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1658	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	26.04.2026	Test Completed on	01.05.2026
Temperature	38°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1735	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1735	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	28.04.2026	Test Completed on	08.05.2026
Temperature	38°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	61.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1736	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1736	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	28.04.2026	Test Completed on	08.05.2026
Temperature	38°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1737	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1737	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	29.04.2026	Test Completed on	08.05.2026
Temperature	38°C	Relative Humidity	31%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	69.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	33.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1738	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1738	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	29.04.2026	Test Completed on	08.05.2026
Temperature	38°C	Relative Humidity	31%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1739	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1739	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	30.04.2026	Test Completed on	08.05.2026
Temperature	38°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1740	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1740	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	30.04.2026	Test Completed on	08.05.2026
Temperature	38°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1741	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1741	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	01.05.2026	Test Completed on	08.05.2026
Temperature	37°C	Relative Humidity	34%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1742	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1742	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	01.05.2026	Test Completed on	08.05.2026
Temperature	37°C	Relative Humidity	34%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1743	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1743	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	02.05.2026	Test Completed on	08.05.2026
Temperature	38°C	Relative Humidity	34%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	41.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1744	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1744	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	02.05.2026	Test Completed on	08.05.2026
Temperature	38°C	Relative Humidity	34%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	61.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1745	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1745	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	02.05.2026	Test Completed on	08.05.2026
Temperature	38°C	Relative Humidity	34%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1746	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1746	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	03.05.2026	Test Completed on	08.05.2026
Temperature	38°C	Relative Humidity	38%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1747	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1747	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	03.05.2026	Test Completed on	08.05.2026
Temperature	38°C	Relative Humidity	38%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1748	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1748	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	03.05.2026	Test Completed on	08.05.2026
Temperature	38°C	Relative Humidity	38%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1825	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1825	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	05.05.2026	Test Completed on	15.05.2026
Temperature	36°C	Relative Humidity	36%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1826	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1826	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	05.05.2026	Test Completed on	15.05.2026
Temperature	36°C	Relative Humidity	36%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1827	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1827	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	05.05.2026	Test Completed on	15.05.2026
Temperature	36°C	Relative Humidity	36%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1828	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1828	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	06.05.2026	Test Completed on	15.05.2026
Temperature	34°C	Relative Humidity	41%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1829	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1829	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	06.05.2026	Test Completed on	15.05.2026
Temperature	34°C	Relative Humidity	41%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1830	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1830	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	06.05.2026	Test Completed on	15.05.2026
Temperature	34°C	Relative Humidity	41%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1831	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1831	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	07.05.2026	Test Completed on	15.05.2026
Temperature	34°C	Relative Humidity	49%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1832	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1832	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	07.05.2026	Test Completed on	15.05.2026
Temperature	34°C	Relative Humidity	49%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1833	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1833	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	08.05.2026	Test Completed on	15.05.2026
Temperature	34°C	Relative Humidity	43%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1834	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1834	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	08.05.2026	Test Completed on	15.05.2026
Temperature	34°C	Relative Humidity	43%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1835	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1835	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	09.05.2026	Test Completed on	15.05.2026
Temperature	27°C	Relative Humidity	70%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1836	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1836	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	09.05.2026	Test Completed on	15.05.2026
Temperature	27°C	Relative Humidity	70%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1837	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1837	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	10.05.2026	Test Completed on	15.05.2026
Temperature	29°C	Relative Humidity	59%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1838	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1838	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	10.05.2026	Test Completed on	15.05.2026
Temperature	29°C	Relative Humidity	59%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1915	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1915	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	12.05.2026	Test Completed on	22.05.2026
Temperature	35°C	Relative Humidity	36%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	73.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	34.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	14.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1916	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1916	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	12.05.2026	Test Completed on	22.05.2026
Temperature	35°C	Relative Humidity	36%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1917	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1917	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	13.05.2026	Test Completed on	22.05.2026
Temperature	36°C	Relative Humidity	35%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	66.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1918	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1918	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	13.05.2026	Test Completed on	22.05.2026
Temperature	36°C	Relative Humidity	35%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1919	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1919	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	14.05.2026	Test Completed on	22.05.2026
Temperature	34°C	Relative Humidity	39%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1920	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1920	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	14.05.2026	Test Completed on	22.05.2026
Temperature	34°C	Relative Humidity	39%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1921	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1921	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	15.05.2026	Test Completed on	22.05.2026
Temperature	34°C	Relative Humidity	38%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1922	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1922	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	15.05.2026	Test Completed on	22.05.2026
Temperature	34°C	Relative Humidity	38%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	62.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1923	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1923	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	16.05.2026	Test Completed on	22.05.2026
Temperature	33°C	Relative Humidity	44%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1924	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1924	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	16.05.2026	Test Completed on	22.05.2026
Temperature	33°C	Relative Humidity	44%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1925	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1925	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	16.05.2026	Test Completed on	22.05.2026
Temperature	33°C	Relative Humidity	44%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1926	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1926	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	17.05.2026	Test Completed on	22.05.2026
Temperature	36°C	Relative Humidity	36%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1927	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1927	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	17.05.2026	Test Completed on	22.05.2026
Temperature	36°C	Relative Humidity	36%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1928	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1928	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	17.05.2026	Test Completed on	22.05.2026
Temperature	36°C	Relative Humidity	36%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2005	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2005	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	19.05.2026	Test Completed on	29.05.2026
Temperature	34°C	Relative Humidity	46%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2006	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2006	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	19.05.2026	Test Completed on	29.05.2026
Temperature	34°C	Relative Humidity	46%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2007	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2007	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	19.05.2026	Test Completed on	29.05.2026
Temperature	34°C	Relative Humidity	46%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2008	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Chinnakalayamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2008	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	20.05.2026	Test Completed on	29.05.2026
Temperature	33°C	Relative Humidity	65%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2009	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pappampatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2009	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	20.05.2026	Test Completed on	29.05.2026
Temperature	33°C	Relative Humidity	65%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2010	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Neikarapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2010	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	20.05.2026	Test Completed on	29.05.2026
Temperature	33°C	Relative Humidity	65%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2011	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2011	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	21.05.2026	Test Completed on	29.05.2026
Temperature	38°C	Relative Humidity	39%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2012	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2012	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	21.05.2026	Test Completed on	29.05.2026
Temperature	38°C	Relative Humidity	39%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2013	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kasanayampatty
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2013	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	22.05.2026	Test Completed on	29.05.2026
Temperature	37°C	Relative Humidity	38%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2014	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Ayyampalayam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2014	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	22.05.2026	Test Completed on	29.05.2026
Temperature	37°C	Relative Humidity	38%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2015	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2015	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	23.05.2026	Test Completed on	29.05.2026
Temperature	36°C	Relative Humidity	41%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2016	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2016	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	23.05.2026	Test Completed on	29.05.2026
Temperature	36°C	Relative Humidity	41%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2017	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2017	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Temperature	36°C	Relative Humidity	38%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2018	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Velusamudram
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2018	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Temperature	36°C	Relative Humidity	38%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2099

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	WATER
Sample Mark	W1-Within Mine Lease area

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2099	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.99	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	256.8	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	154	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	66.5	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	18.9	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	4.67	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	47.3	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	19.2	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	86.5	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	48.9	1000

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2099

Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	13.20	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.06	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	1.58	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.22	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd * Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2100

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	WATER
Sample Mark	W2-Velusamudram

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2100	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.84	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1079.0	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	650	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	290	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	78.4	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	22.84	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	196	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	94.0	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	254	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	266	1000

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2100

Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	120	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.05	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.05	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.34	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd * Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2101

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	WATER
Sample Mark	W3-Kasanayampatty

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2101	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.56	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1336.7	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	802	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	292	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	45.7	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	43.25	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	114	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	178.0	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	294	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	243	1000

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2101

Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	230	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.06	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.83	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.59	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2102

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	WATER
Sample Mark	W4-Ayyampalayam

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2102	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.24	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1316.6	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	790	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	347	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	79.8	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	35.97	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	199	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	148	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	276	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	227	1000

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2102

Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	164	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.14	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.68	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.38	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd * Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2103

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	WATER
Sample Mark	W5- Chinnakalayamputhur

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2103	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.16	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1451.7	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	872	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	466	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	103.4	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	50.45	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	258	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	208	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	200	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	283	1000

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2103

Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	208	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.13	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	5.77	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.65	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2104

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	WATER
Sample Mark	W6-Pappampatti

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2104	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.71	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1072.9	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	644	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	289	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	78.9	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	22.30	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	197	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	91.8	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	260	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	264	1000

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2104

Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	117	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.05	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	1.39	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.38	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2105

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	WATER
Sample Mark	W7-Neikarapatti

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2105	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.32	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1322.6	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	794	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	352	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	78.4	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	37.91	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	196	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	156	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	280	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	226	1000

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2105

Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	166	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.15	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.76	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.42	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd * Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2106

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	SOIL
Sample Mark	S1-Within Mine Lease area

Customer Reference	By Mail	Sampling Procedure	EPA/600/R-92/128
Sample Reference No	SARL/SO/CHE-2106	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.12
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	95.8
3	Dry matter content	IS 15106: 2002	%	97.25
4	Water Content	IS 15106: 2002	%	2.56
5	Organic Matter	IS 2720: Part 22: 1972	%	1.54
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	342
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	2.69
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	53.65
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	43.66
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.45
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	690
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	432
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	30.6
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	44.0

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2107	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	SOIL
Sample Mark	S2-Velusamudram

Customer Reference	By Mail	Sampling Procedure	EPA/600/R-92/128
Sample Reference No	SARL/SO/CHE-2107	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.58
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	122
3	Dry matter content	IS 15106: 2002	%	98.24
4	Water Content	IS 15106: 2002	%	1.76
5	Organic Matter	IS 2720: Part 22: 1972	%	1.26
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	136
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	5.52
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	16.21
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	78.27
9	Phosphorus as P	IS 10158: 1982	mg/kg	0.86
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	512
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	245
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	46.2
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	41.3

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2108	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	SOIL
Sample Mark	S3-Kasanayampatty

Customer Reference	By Mail	Sampling Procedure	EPA/600/R-92/128
Sample Reference No	SARL/SO/CHE-2108	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.14
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	186
3	Dry matter content	IS 15106: 2002	%	96.97
4	Water Content	IS 15106: 2002	%	3.03
5	Organic Matter	IS 2720: Part 22: 1972	%	2.16
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	199
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	8.19
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	30.24
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	61.58
9	Phosphorus as P	IS 10158: 1982	mg/kg	2.06
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	590
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	361
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	35.1
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	41.1

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2109	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	SOIL
Sample Mark	S4-Ayyampalayam

Customer Reference	By Mail	Sampling Procedure	EPA/600/R-92/128
Sample Reference No	SARL/SO/CHE-2109	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.96
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	184
3	Dry matter content	IS 15106: 2002	%	97.36
4	Water Content	IS 15106: 2002	%	2.64
5	Organic Matter	IS 2720: Part 22: 1972	%	2.91
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	258
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	7.88
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	54.22
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	37.90
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.36
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	960
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	569
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	35.1
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	46.4

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2110

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	SOIL
Sample Mark	S5- Chinnakalayamputhur

Customer Reference	By Mail	Sampling Procedure	EPA/600/R-92/128
Sample Reference No	SARL/SO/CHE-2110	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.07
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	199
3	Dry matter content	IS 15106: 2002	%	97.44
4	Water Content	IS 15106: 2002	%	4.93
5	Organic Matter	IS 2720: Part 22: 1972	%	1.32
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	233
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	6.26
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	48.93
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	44.81
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.96
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	667
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	314
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	46.2
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	42.2

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2111

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	SOIL
Sample Mark	S6-Pappampatti

Customer Reference	By Mail	Sampling Procedure	EPA/600/R-92/128
Sample Reference No	SARL/SO/CHE-2111	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.48
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	146
3	Dry matter content	IS 15106: 2002	%	97.44
4	Water Content	IS 15106: 2002	%	2.54
5	Organic Matter	IS 2720: Part 22: 1972	%	1.22
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	131
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	5.46
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	15.90
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	78.64
9	Phosphorus as P	IS 10158: 1982	mg/kg	0.86
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	504
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	238
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	45.3
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	42.2

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2112	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	SOIL
Sample Mark	S7-Neikarapatti

Customer Reference	By Mail	Sampling Procedure	EPA/600/R-92/128
Sample Reference No	SARL/SO/CHE-2112	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.94
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	182
3	Dry matter content	IS 15106: 2002	%	96.24
4	Water Content	IS 15106: 2002	%	2.64
5	Organic Matter	IS 2720: Part 22: 1972	%	2.15
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	264
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	7.98
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	55.60
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	36.42
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.42
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	952
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	576
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	35.8
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	47.1

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2113	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	WATER
Sample Mark	SW1-Amaravathi River (upstream)

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/SW/CHE-2113	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result
A.	**Physical parameters**			
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	143.48
3	pH at 25 °C	APHA 24th Edition 4500 – H+ B: 2023	-	7.56
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	372.5
B.	**Chemical parameters**			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	224
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	73.2
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	15.4
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	8.41
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	38.6
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	34.6
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	104.0
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	71.5

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2113

Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	40.5
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.62
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	1.44
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.38
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L-0.05)
19	Chemical Oxygen Demand	APHA 24th Edition 5220 B: 2023	mg/L	38.9
20	Biochemical Oxygen Demand 3 Days at 27°c	IS 3025 (Part 44): 1993	mg/L	7.6
21	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	26
22	Dissolved Oxygen	IS 3025 (Part 38): 1989	mg/L	6.2

Remarks: BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2114	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	WATER
Sample Mark	SW2-Amaravathi River (Downstream)

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/SW/CHE-2114	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result
A.	**Physical parameters**			
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	80.18
3	pH at 25 °C	APHA 24th Edition 4500 – H+ B: 2023	-	7.69
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	280.6
B.	**Chemical parameters**			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	168
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	98.7
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	28.2
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	6.85
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	70.5
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	28.2
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	64.9
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	40.6

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2114	Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	43.2
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.44
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	1.58
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.33
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)
19	Chemical Oxygen Demand	APHA 24th Edition 5220 B: 2023	mg/L	41.5
20	Biochemical Oxygen Demand 3 Days at 27°c	IS 3025 (Part 44): 1993	mg/L	8.6
21	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	18
22	Dissolved Oxygen	IS 3025 (Part 38): 1989	mg/L	6.4

Remarks: BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2117

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Thiru.P.Manikandan, Extent of 1.48.0 Ha at S.F.No. 157/2, Thathanaickenpatti north, Palani Taluk, Dindigul District, Tamil Nadu.
Sample Description	NOISE LEVEL DATA

Customer Reference	By Mail	Sampling Method	SARL/IOP/023
Sample Reference No	SARL/N/CHE-2117	Date of Monitoring	24.05.2026
Sample Collected by	LABORATORY		

Time in hrs	N1	N2	N3	N4	N5	N6	N7
06.00	33.6	32.5	44.6	41.7	43.7	40.5	33.7
07.00	35.2	34.1	47.4	43.1	41.3	42.1	35.1
08.00	37.1	36.0	45.7	46.7	44.7	44.0	38.7
09.00	40.7	39.6	49.5	48.7	46.2	47.6	40.7
10.00	42.7	41.6	51.7	51.1	53.6	49.6	43.1
11.00	44.5	43.4	54.6	53.1	52.6	51.4	45.1
12.00	45.4	44.4	55.9	57.6	49.2	52.4	49.6
13.00	47.3	46.3	52.0	59.2	50.1	54.3	51.2
14.00	48.7	47.6	49.5	56.8	56.0	55.6	48.8
15.00	45.9	44.9	47.3	58.0	55.8	52.9	50.0
16.00	51.7	50.7	51.6	54.8	54.3	58.7	46.8
17.00	49.7	48.7	50.5	53.9	55.8	56.7	45.9
18.00	44.3	43.2	48.5	54.8	52.3	51.2	46.8
19.00	43.1	42.0	49.2	48.3	48.5	50.0	40.3
20.00	42.1	41.1	46.4	44.4	47.9	49.1	36.4
21.00	38.9	37.8	44.6	43.1	45.9	45.8	35.1
22.00	35.8	34.8	45.3	42.5	47.5	42.8	34.5
23.00	32.1	31.1	43.6	42.4	45.5	39.1	34.4
24.00	31.0	29.9	42.6	41.8	43.1	37.9	33.8
01.00	30.1	29.1	44.1	40.7	44.9	37.1	32.7
02.00	31.6	30.5	43.3	40.4	43.7	38.5	32.4
03.00	29.2	28.1	43.4	40.9	42.5	36.1	32.9
04.00	32.2	31.2	41.8	40.6	41.0	39.2	32.6
05.00	33.3	32.2	41.5	42.1	41.1	40.2	34.1

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/2117

Report Date.	29.05.2026

	N1	N2	N3	N4	N5	N6	N7
DAY EQUIVALENT	**45.5**	**44.5**	**50.5**	**53.8**	**51.8**	**52.5**	**45.8**
NIGHT EQUIVALENT	**32.3**	**31.3**	**43.3**	**41.5**	**44.2**	**39.3**	**33.5**
DAY & NIGHT EQUIVALENT	**43.8**	**42.7**	**49.1**	**52.1**	**50.4**	**50.7**	**44.1**

Remarks:

LOCATIONS:

N1-Within Mine Lease Area
N2-Velusamudram
N3-Kasanayampatty
N4-Ayyampalayam
N5- Chinnakalayamputhur
N6-Pappampatti
N7-Neikarapatti

For Shrient Analytical and Research Labs Pt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

ANNEXURE-8

National Accreditation Board for Testing and Calibration Laboratories

NABL

CERTIFICATE OF ACCREDITATION

SHRIENT ANALYTICAL & RESEARCH LABS PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

416/15, DHARGAS ROAD, PERUNGALATHUR, WEST TAMBARAM, CHENNAI, KANCHIPURAM, TAMIL NADU, INDIA

in the field of

TESTING

Certificate Number: TC-12339

Issue Date: 30/09/2025 **Valid Until:** 29/09/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: SHRIENT ANALYTICAL AND RESEARCH LABS PRIVATE LIMITED

Signed for and on behalf of NABL

Anuja Anand
Director

Chakravarthy T. Kannan
Chief Executive Officer

ANNEXURE-9

பள்ளி மேலாண்மைக் குழு

ஊராட்சி ஒன்றிய தொடக்கப்பள்ளி

வடக்குத் தாதநாயக்கன்பட்டி, பழனி-புறநகர்.

நம்பள்ளி நம்பெருமை

தலைவர்:
P. Sudha
8973343355

துணைத்தலைவர்:

கூட்ட அழைப்பாளர்:
(தலைமையாசிரியர்)
இரா. சுரேஷ்குமார்
9865859462

உறுப்பினர்கள்:
ஆசிரியர் பிரதிநிதி
[illegible]

பெற்றோர்கள்:
1. ராமத்தாள் மா.
2. சு. ராஜேஸ்வரி
3. மா. பிரபு
4. சு. சாந்தி
5. சி. மரியா
6.
7. கரு. திப்பாத்தாள்
8. ர. லோகநாயகி
9. வெ. தங்கராஜ்
10. கு. கண்ணகி
11.
12.

உள்ளாட்சிப் பிரதிநிதிகள்:
1. —
2. —

கல்வியாளர் /அரசு சாரா அமைப்பினர்/ ஓய்வு பெற்ற ஆசிரியர்:

மகளிர் சுய உதவிக் குழு உறுப்பினர்:
த. மதுமாஸ்வரி

நாள்: 10.04.2026

அனுப்புநர்:-
பள்ளி மேலாண்மைக் குழு,
ஊ. ஒ. தொ. பள்ளி,
வடக்கு தாதநாயக்கன்பட்டி,
பழனி வட்டாரம் - 624621.

பெறுநர்:
P. மணிகண்டன் அவர்கள்,
திருச்சிராப்பள்ளி முருகன் 4வது மெட்டல்ஸ்,
தாதநாயக்கன்பட்டி வடக்கு
பழனி தாலுகா

பொருள்: கி. எஸ். ஆர் பண்டில் பள்ளி சீரமைப்பு குறித்து கோருதல் தொடர்பாக

மதிப்புமிகு ஐயா,
எங்கள் ஊ. ஒ. தொ. பள்ளியின் முன்புறம், தென் பகுதியில் (43 x 11') அடி நீள x அகலத்தில், சுமார் 473 சதுர அடி பரப்பளவில் கூரையுடன் கூடிய அங்கன்வாடி மையம் (5) ஆண்டுகளாக செயல்பட்டு வருகிறது.

தாங்கள், எங்கள் பள்ளிக்கு இம்மையத்தை பார்வையிட்டு சீரமைத்து தருமாறு பணிவுடன் கேட்டுக் கொள்கிறோம்.

பள்ளி மேலாண்மைக் குழு
ஊ. ஒ. தொ. பள்ளி
தாதநாயக்கன்பட்டி வடக்கு

P. Sudha — இரா. சுரேஷ்குமார்

தலைவர் — நடத்துனர்