DRAFT EIA & EMP FOR
PROPOSED ROUGH STONE AND GRAVEL QUARRY
CATEGORY – B1

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

ToR Identification No. TO25B0108TN5780122N (F.No. 13236), dated 02.04.2026

PROPOSED QUARRY LEASE DETAILS	
SURVEY NOS	**106/2A, 106/2B, 106/3, 106/4A and 106/4B**
VILLAGE	**THOLLAMUR**
TALUK	**VANUR**
DISTRICT	**VILUPPURAM**
EXTENT	**4.34.0 Ha**
CLUSTER EXTENT	**11.14.0 Ha**
PROPOSED PRODUCTION QUANTITY	**ROUGH STONE - 3,18,080 m^3**
LAND	**PATTA LAND**

(Sector No. 1(a) Sector No.1 as per NABET)
Category of the Project: B1 Cluster Mining, Total Cluster Area – 11.14.0 Ha
Baseline Monitoring Period – December 2025 to February 2026

APPLICANT

THIRU.M.MOORTHI,

S/o.Muniyan,

No.413, Mannarsamy Kovil Street, Tiruvakkarai Village,

Vanur Taluk, Viluppuram District – 604 304.

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 - 03.01.2029** **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 Until -29.09.2029** **#416/15, Dhargas Road, Perungalathur,** **West Tambaram, Chennai,** **Tamil Nadu, India.**

JUNE- 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						
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10						

ACKNOWLEDGEMENT

M/s. Global Mining Solutions, Salem is very much Thankful to Thiru.M.Moorthi, 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 4.34.0 Ha., & Cluster extent of 11.14.0 Ha., located at Thollamur Village, Vanur Taluk, Villupuram 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 Thollamur 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 MoEF 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 4.34.0 Ha., & Cluster extent of 11.14.0 Ha., located at Thollamur Village, Vanur Taluk, Villupuram District, Tamil Nadu State.

For: M/s. Global Mining Solutions

M. MANIKANDAN
EIA CO-ORDINATOR
GLOBAL MINING SOLUTIONS
SALEM

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. TO25B0108TN5780122N (File No – 13236), dated 02.04.2026 of Draft EIA/EMP report for the proposed Stone and Gravel Quarry over a lease extent of* 4.34.0 Ha., & Cluster extent of 11.14.0 Ha., located at Thollamur Village, Vanur Taluk, Villupuram District, Tamil Nadu State for the production of 3,18,080 m^3 of Rough Stone formation 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 only) 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

भारतीय गुणवत्ता परिषद
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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 chemicals 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 Expert

Declaration by Experts contributing to the proposed Rough Stone and Gravel Quarry over a lease extent of over a lease extent of 4.34.0 Ha, & Cluster extent of 11.14.0 Ha., located at Thollamur Village, Vanur Taluk, Villupuram District, Tamil Nadu State.

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

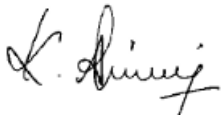
EIA Coordinator Name: M. Manikandan

M. MANIKANDAN
EIA CO-ORDINATOR
GLOBAL MINING SOLUTIONS
SALEM

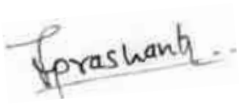
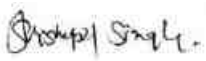
Period of involvement: December 2025 to February 2026.

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: December 2025 to February 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: December 2025 to February 2026*	
3	*SHW*	*Ramadoss N*	*Assessment of waste generated from the project, suggested waste management practices.* *Period: December 2025 to February 2026*	
4	*SE*	*Sarasvathy K*	*Baseline SE study. Data compilation and assessment. Impact of the project on SE status of the area. Formulation of CER plan.* *Period: December 2025 to February 2026*	
5	*EB*	*Saravanan S*	*Baseline data collection of related to ecology of the area.* *Period: December 2025 to February 2026*	

6	*HG*	*Ravinthiran N*	*Hydrogeological feature of the area. Ground water depth and impact of project on ground water of the area.* *Period: December 2025 to February 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: December 2025 to February 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: December 2025 to February 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: December 2025 to February 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: December 2025 to February 2026*	
11	*SC*	*Shisupal Sing*	*Soil monitoring, secondary data collection on soil type, soil management practices, utilization of topsoil.* *Period: December 2025 to February 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: December 2025 to February 2026*	

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COMPLIANCE TO TERMS OF REFERENCE

S.No	ToR Points	Reply	Pg. No
1.	**Seac Conditions - Site Specific**		
1.1	1. The PP shall obtain Certified Compliance Report (CCR) from Integrated Regional Office, MoEF&CC, Chennai for the earlier Environmental Clearance obtained from DEIAA as per MoEF&CC -office memorandum vide F.No. lA3-22/10/2O22-lA.III (E177258). dated: 08.006.2022 by MOEF &CC. 2. The Project Proponent shall earmark all the safety distances prescribed in the Precise Area Communication Letter dated 30.09.2025 in the KML file and Mining Plan, and the same shall be submitted along with the EIA Report. 3. A Cluster Management Committee (CMC) shall be constituted including all the mines in the cluster as Committee Members for the effective management of the mining operation in the cluster through systematic & scientific approach with appointment of required statutory personnel, appropriate environmental management, system of maintaining the haul roads and village/panchayat roads, authorized blasting operation, Monitoring system of the environmental & other statutory compliances & its reporting status, etc. The PP shall submit the following details in the form of an Affidavit during the EIA appraisal: (i) Copy of the agreement forming CMC. (ii) The Organisation chart of the Committee with defining the role of the members (iii) The 'Standard Operating Procedures' (SoP) executing the planned activities. 4. The PP shall ensure the installation of CCTV at the proposed quarry site	The Certified Compliance Report (CCR) from the Integrated Regional Office, MoEF&CC, Chennai, for the earlier DEIAA Environmental Clearance will be submitted along with the Final EIA/EMP Report. The safety distances prescribed in the Precise Area Communication Letter dated 30.09.2025 have been duly earmarked in the KML file and Mining Plan, and the same are enclosed with the EIA Report. 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. CCTV cameras for continuous surveillance of mining activities will be installed, and	

	and ensure its inclusion during the EIA presentation	photographic/videographic evidence of the same will be submitted along with the Final EIA/EMP report.	
2.	**Seiaa Specific Conditions**		
2.1	1. The PP shall submit a consent document obtained from the land owner with validity beyond 14.05.2028, as the existing land consent document was executed on 15.05.2018 for a period of 10 years from the date of the document	Agreed, will be submitted along with final EIA / EMP Report.	
3.	**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 three quarries (2 - Existing + 1 Proposed) 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 as well as the other 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.,	Agreed. Will be complied.	
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.	Agreed. The list of members of the committee formed will be submitted to 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 quarries 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 and the same will be submitted to the EIA.	
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.	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 MoEF&CC/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 & Agro-Biodiversity			
9	Impact 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 land 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 l E0..vel 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	Impact on soil flora & vegetation around the project site.	The chemical and physical characteristics of the soil is given in Table 3.9.1 of Chapter 3. The anticipated impact and its mitigation measures for soil environment and biological environment are detailed in Chapter 4 respectively.	
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.	There is no standing trees or vegetation within the mine lease area.	
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.	The ecological details have been provided in Section 3.10 under Chapter 3 and measures have been provided in Chapter 4.	
13	Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.	The detailed action plan has been described in the EMP (Chapter 10) for the sustainable management for the project area and its surroundings.	
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 4.2.1 under Chapter 4.	
Forests			
15	The project proponent shall detailed study on impact of mining on Reserve Forests free ranging wildlife.	The proposed project site does not have any Reserved Forests within a 10 km radius; hence, impacts on Reserved Forests and free-ranging wildlife are not anticipated.	

16	The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.	As there are no forest areas within the 10 km study area, no significant impact on forest ecosystems, endemic, vulnerable, endangered indigenous flora and fauna is anticipated; however, the baseline status and potential impacts have been assessed in the EIA study.	
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. This is a dry barren land.	
18	The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.	There are no Protected Areas, Reserved Forests, National Parks, wildlife corridors, or wildlife movement pathways within the 10 km study area of the proposed project site; hence, no significant impact on such ecologically sensitive areas is anticipated.	
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.	The hydrogeological study from a reputed institute is in progress and it will incorporated in the Final EIA report.	
20	Erosion Control measures.	There is no waste generation (OB) in this quarry has been envisaged. However, there may be erosion due to rainy season and that is limited within quarry area. 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 details are incorporated in Chapter 4.	
22	The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.	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 environment may be due to drilling and blasting. The anticipated impacts and mitigation measures are discussed in Chapter 4.	
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.	The Flora and Fauna study covering 10 km radius are detailed in section 3.7.7 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. 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 under Chapter 4.	
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.	
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.	The proposed quarry operation is Opencast Mechanized operation with drilling, blasting, excavation, loading and transportation. So, the effect of Hydrothermal/Geothermal is not envisaged.	

	c) Sediment geochemistry in the surface streams.	This is a simple mining operation, so bio-geochemical processes are not envisaged. There are no water bodies located within a 500 m radius of the project site; therefore, sedimentation will not occur in any nearby water bodies.	
Energy			
28	The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilize the Energy shall be furnished.	Complied. The details are described in Chapter 4.	
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.	Only the best equipment will be used, and it will be properly and regularly maintained. Regular vehicular 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.	Complied. Mine Closure Plan has been incorporated in the approved Mining Plan and the same is incorporated in the Chapter 2.	
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 scope for achieving SDGs.	Complied. The details are described in Chapter 10.	
34	The Environmental Impact Assessment should hold detailed study on EMP with budget for Green	Complied. The details are described in Chapter 10.	

	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.	Complied. The details are described in Chapter 7.	
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.	Complied. The details are described in Chapter 7.	
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.N0.22-65/2017-1A.11I dated: 30.09.2020 and20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan.	Noted. It will be complied in the Final EIA/EMP report.	
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.	Nil	

Standard Terms of Reference for (Mining of minerals)			
1.1	Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994	It will be submitted along with Final EIA EMP report.	
1.2	A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given	Precise Area Communication letter received from the Assistant Director, Department of Geology and Mining,Villupuram. (Annexure-2)	
1.3	All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee	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.	
1.4	All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the areashould be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone)	Project coordinates superimposed in satellite imagery and given as Figure No – 3.3 in Chapter – 3. The geology and geomorphology map are provided in Figure No.3.24, 3.25 Chapter 3. The Soil map is provided under Figure No. 3.26, Chapter-3. The 10km Radius Index plan showing buffer zone is given in Figure No.3.1 & Figure 3.2 in Chapter – 3.	
1.5	Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining	The following map in 1:50,000 Scale: Geology map of the project area covering 10km radius – Figure No. 3.24. Geomorphology Map of the Study Area covering 10 km	

	history of the area, important water bodies, streams and rivers and soil characteristics	radius – Figure No. 3.25. Drainage map – 3.23	
1.6	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	Not Applicable. The proposed land is Patta Land.	
1.7	It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of noncompliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large,may also be detailed in the EIA Report.	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.	
1.8	Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided	Risks are identified and the management is given in Chapter 7.	

1.9	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.	The study area of 10km comprising core zone and buffer zone is used for the study. All details given in Chapter – 3.	
1.10	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	Satellite imagery has been used to study land use and the details of land use in the core and buffer zone is given in Chapter 3.	
1.11	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	The entire material quarried out will be sold. No waste generation from this quarrying operation.	
1.12	A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the State Expert Appraisal Committees	No forest in 10 km radius	

1.13	Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished	Not Applicable. The proposed project area does not involve any Forest Land.	
1.14	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.	
1.15	The vegetation in the RF / PF areas in the study area, with necessary details, should be given	No Forest in 10 km radius.	
1.16	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted	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.	
1.17	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlifeand copy furnished.	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.	

1.18	A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan 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	A detailed study of flora and fauna composition in the core and buffer zone of the project has been made. The details are furnished in section 3.10.	
1.19	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 Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered	Not Applicable	
1.20	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 w.r.t 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	

1.21	R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report	Not applicable. No habitation within 300 meter of the radius.	
1.22	One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Sitespecific 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 for meteorology, ambient air quality, Water quality, noise level, soil and flora & fauna are collected during Post-Monsoon season (December 2025 to February 2026) and detailed in Chapter-3.	

1.23	Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.	Modeling 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. Cumulative impact of mining is also studied and the same is found to be within norms. The details are given in Chapter 4.	
1.24	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated	The entire 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 shown in Chapter 2.	
1.25	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.	
1.26	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided	Details of water conservation plan are given chapter 4.	
1.27	Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided	The surface water condition and ground water condition in the study area is given in Chapter 3.	

<table>
<tr><td>1.28</td><td>Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from State Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished</td><td>The quarrying activity will not intersect ground water table as quarrying is proposed upto a depth of 52 m bgl and water table is found at a depth of 75 m BGL.</td><td></td></tr>
<tr><td>1.29</td><td>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</td><td>Not applicable.

There is no stream, seasonal or otherwise, passing through the lease area.</td><td></td></tr>
<tr><td>1.30</td><td>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</td><td><table><tr><td>Site Elevation above MSL</td><td>91 m from MSL</td></tr><tr><td>Ultimate Depth</td><td>52 m bgl</td></tr><tr><td>Ground water</td><td>72 - 75 m BGL.</td></tr></table></td><td></td></tr>
<tr><td>1.31</td><td>A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation 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</td><td>Greenbelt/Plantation will be carried out in and around the lease area to enhance the vegetative growth and aesthetic in the area. Details are given in chapter 4.</td><td></td></tr>
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	and native species and the species which are tolerant to pollution		
1.32	Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines	This is a small quarry and the production is very less. 3 Nos. of 10/20 Ts tippers will be used for transport. The trips will be minimum. Hence no major impact on transport is expected.	
1.33	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 2.11.4 of Chapter 2.	
1.34	Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report	The post mining land use/conceptual land use of the study area is given in Chapter 2.	
1.35	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed	Occupational health and safety study is given in Section 4.7.4 of Chapter-4.	
1.36	Public health implications of the Project and related activities for the population in the impact zone	No major impact on public health will be there since the villages are located more than 1km from the lease area.	

	should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations		
1.37	Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation	This project provides employment to 31 people directly & indirectly. Local people will be hired for unskilled labour. Through CSR, nearby schools, villages will be benefitted. For CER, INR 500000 is allocated. Based on the demand of the people during public hearing, further funds will be allocated, if necessary.	
1.38	Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project	Environmental Management plan details are given in Chapter 10.	
1.39	Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project	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.	
1.40	Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given	There is no litigation pending against the project.	
1.41	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out	Total Project cost – 141.14 Lakhs Total EMP Cost for 5 years is 24.60 lakhs i.e., Rs.10.3 Lakhs of Capital Cost + Rs. 14.30 Lakhs of Recurring Cost (For 5 Years)	

1.42	A Disaster management Plan shall be prepared and included in the EIA/EMP Report	The disaster and its management plan is given in Chapter-7.	
1.43	Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc	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. This project provides employment to 31 people directly. Local people will be hired for unskilled labour. Through CSR, nearby schools, hospitals will be benefitted. For CSR, INR 5.0 Lakhs has been allocated.	
1.44	Besides the above, the below mentioned general points are also to be followed:- All documents to be properly referenced with index and continuous page numbering. a) Executive Summary of the EIA/EMP Report b) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated. c) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project. d) Where the documents provided are in a language other than English, an	Yes, Complied.	

	English translation should be provided. e) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted. f) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&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. g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the ToR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation. h) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the Environment Clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of		

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

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CHAPTER 1

INTRODUCTION

1.1 PURPOSE OF THE REPORT

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

Thiru M. Moorthi, Lessee, has obtained a Precise Area Communication Letter from the Assistant Director, Department of Geology and Mining, Villupuram, for quarrying a total of 3,18,080 m³ of Rough Stone over an extent of 4.34.0 ha in S.F. Nos. 106/2A, 106/2B, 106/3, 106/4A and 106/4B of Thollamur Village, Vanur Taluk, Villupuram District, Tamil Nadu. The proposed production of 3,18,080 m³ of Rough Stone is planned over a five-year period. The project falls under a cluster situation due to the presence of proposed and abandoned quarries within a 500 m radius of the lease area, the details of which are provided below.

Table 1.1 500m Radius Cluster Mines Details

Sl. No	Name and address	Name of the Mineral	Village and Taluk	S.F.Nos.	Extent (in Ha)	Period of lease
Existing Quarries						
1.	Tvl.Sree Thiruchendhur Murugan Blue Metals represented by its partner Thiru.P.Subramani, No.3-3/3-3, Main Road, Thoravi Village, Vikravandi Taluk, Viluppram District.	Rough stone & Gravel	Vanur & Thollamur	20/1 20/2A 20/2B 20/3 21/4 21/6 99/2 99/3B 99/6	0.83.0 0.42.5 0.43.0 1.34.0 0.31.5 0.56.0 0.24.0 0.28.5 0.15.0 **4.57.5**	04.01.2022 to 03.01.2027

2.	D.Gnanaguru, S/o.Dhanapal, No.219/1C, Iyyanar Kovil Street, Tennamadevi Village, Vikravandi Taluk, Viluppram District.	Rough stone & Gravel	Vanur & Thollamur	99/1 99/3A 100/1 100/2 100/5A	0.27.0 0.54.0 0.75.5 0.27.0 0.39.0 **2.22.5**	23.04.2025 to 22.04.2035
		Proposed Quarry				
1.	M.Moorthi, S/o.Muniyan, No.413, Mannarsamy Kovil Street, Tiruvakkarai Village, Vanur Taluk, Viluppuram District – 604 304.	Rough stone & Gravel	Vanur & Thollamur	106/2A, 106/2B, 106/3, 106/4A 106/4B	0.31.0 0.40.5 0.58.5 1.16.5 1.87.5 **4.34.0**	-
		Abandoned Quarries				
1.	M.Moorthi, S/o.Muniyan, No.413, Mannarsamy Kovil Street, Tiruvakkarai Village, Vanur Taluk, Viluppuram District – 604 304.	Rough stone & Gravel	Vanur & Thollamur	106/2A, 106/3, 106/4A 106/4B	0.31.0 0.58.5 1.16.5 1.87.5 **3.93.5**	15.02.2019 to 14.02.2024

As per EIA notification, 2006 and its subsequent amendments the proposed Thiru.M.Moorthi Rough Stone & Gravel Quarry, cluster is falls under Schedule 1(a) Mining of Minerals. It is further classified under Category B1 due to the overall extent of cluster area is 11.14.0 Ha which is >5 Ha. Satellite image of Quarries in Cluster is shown in Fig 1.1.



Figure.1.1 Satellite Image showing cluster quarries

The ToR for preparation of EIA/EMP was approved vide ToR Identification No. TO25B0108TN5780122N (F.No. 13236), dated 02.04.2026. This report has been prepared in line with the approved TOR for production of maximum excavation of 3,18,080 m^3 of will be mined out in five years.

1.2 IDENTIFICATION OF PROJECT AND PROJECT PROPONENT

The proposed project is for mining of Rough Stone and gravel (under cluster) from the S.F.No. 106/2A, 106/2B, 106/3, 106/4A and 106/4B over an extent of 4.34.0 Ha., Thollamur Village, Vanur Taluk, Villupuram District, Tamil Nadu State. As per EIA notification, 2006 and its subsequent amendments the project comes under Schedule 1 (a) under Category B1 (Lease area >5 to 250 Ha). The proposed project details are given below.

(a) Proposed project details

Sl. No.	Description	Status/Remarks
1.	Sector	Non-coal mining
2.	Category of the project	B1
3.	Proposed mineral	Rough Stone and Gravel quarry
4.	Type of Lease	Existing project
5.	Extent of the lease	4.34.0 Ha
6.	Proposed depth of mining	52m BGL
7.	Method of mining	Opencast Mechanized Mining with drilling and blasting.
8.	Proposed lease period	5 Years
9.	Proposed Environmental Clearance	5 Years
10.	Proposed production quantity	Rough Stone - 3,18,080 m^3

(b) Profile of the project proponent

The proposed lessee Thiru.M.Moorthi is an individual with sound experience in the identification of quarry, operation and marketing in the field of Rough Stone and gravel quarry. The proposed land is consented patta land, please refer **Annexure no –6.**

(c) Project proponent details

Name of the proponent : Thiru.M.Moorthi
Status of the Proponent : Propertiership

Address	S/o.Muniyan, No.413, Mannarsamy Kovil Street, Tiruvakkarai Village, Vanur Taluk, Viluppuram – 604 304.

1.3 BRIEF DESCRIPTION OF NATURE OF THE PROJECT

The proposed quarrying operation Opencast Mechanized method with 5m bench height, 5m bench width and overall bench slope is less than 45°. The quarry operation involves shallow jackhammer drilling, slurry blasting, excavation, loading and transportation.

1.3.1 SIZE AND LOCATION OF THE PROJECT

(a) Size of the project

Table1.2 Proposed project details

Sl. No.	Feature	Description
1	Type of land	Patta land
2	Extent of lease area	4.34.0 Ha
3	Type of lease	Existing project
4	Geological Resource	Rough Stone – 15,27,920 m^3 Gravel - 144 m^3
5	Mineable Reserve	Rough Stone – 3,18,080 m^3
6	Proposed production quantity	Rough Stone - 3,18,080 m^3
7	Proposed depth of mining	52m BGL

(b) Location of the project

The proposed project site is located in Thollamur Village, Vanur Taluk, Villupuram District, Tamil Nadu and its Latitude : 12°02’42.92”N to 12°02’53.77”N and Longitude: 79°39’50.82”E to 79°39’58.81”E . with Survey of India Topo Sheet No. 57 P/ 12 .

1.3.2 IMPORTANCE OF THE PROJECT TO THE COUNTRY AND REGION

There is an increasing demand for rough stone in India and other countries. Since the construction industry is rapidly growing now, there is an increasing demand for

rough stone. Thus, this project will contribute not only to the demand of Rough Stone, but also provide employment opportunities to the nearby villages.

1.4 SCOPE OF THE STUDY WITH DETAILS OF REGULATORY SCOPING

Any mining project may cause environmental impacts near the project site during its operation. The type and intensity of impacts on various components of the environment may vary depending on the nature of the project, as well as its geographical location. The net impacts of the project can be quantified through Environment Impact Assessment (EIA) studies on Physical, Biological and Socio-economic environment. The EIA studies give a basis for preparing an Environmental Management Plan (EMP) to conserve the environment of the area.

For the purpose of preparing EIA/EMP the SEIAA, Tamil Nadu has issued a Terms of Reference ToR Identification No. TO25B0108TN5780122N (F.No. 13236), dated 02.04.2026 in accordance with the provisions of EIA Notification 2006 and its subsequent amendments. This EIA study includes both Core and Buffer zone i.e., the lease area and 10km radius of the project area respectively. This EIA report prepared based on the data generated from the summer season 2025 (December 2025 to February 2026) and all individual components of environment are described in detail. An in-depth analysis of available information has been made for working out an effective Environmental Management Plan.

1.4.1 PRESENT STUDY

The Project Proponent has assigned M/s. Global Mining Solutions, Salem for conducting Environment Impact Assessment / Environmental Management Plan (EIA/EMP) for this project. The Environmental Impact Assessment and Environmental Management Plan of this cluster quarry addressing all the environmental related impacts and mitigation measures. The EMP report is based on the data generated from December 2025 to February 2026 by M/s. Shrient Analytical & Research Labs Private Limited, Chennai and the data generated by the FAE of the M/s. Global Mining

Solutions, Salem. The study evaluates the prevailing baseline environmental conditions. The objectives of the present study are given below.

- To prepare the present baseline scenario through primary field monitoring and secondary data for different environmental descriptors such as air, water, noise, traffic, biodiversity, socio-economic etc.
- To identify the activities of mining that have bearing on the environment
- To Assess the impact of proposed project activity
- To suggest preventive mitigation measures
- To prepare an Environmental Management Plan (EMP) including environmental monitoring.
- To Prepare Disaster Management Plan.

1.4.2 STATUS OF LITIGATIONS

This is an Existing Rough Stone and Gravel Quarry project. There is no litigation/court case pending against this project.

a. Precise Area Communication:

The Project Proponent has obtained Precise Area Communication from the Assistant Director, Department of Geology and Mining, Viluppuram, vide Rc.No. A/G&M/219/2024 dated 30.09.2025. The letter copy enclosed as **Annexure – 2.**

b. Mining Plan Approval Letter:

The project proponent has prepared mining plan under rule 19(1) 41 & 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 and the same has been approved by the Assistant Director, Dept. of Geology & Mining, Viluppuram vide Rc.No. A/G&M/219/2024 dated 06.11.2025. The revised mining plan approval letter along with approved plan is enclosed as **Annexure – 3.**

c. 500m radius quarry features:

The project proponent has obtained an official letter from the Assistant Director (i/c), Dept. of Geology & Mining, Viluppuram vide Rc.No. A/G&M/219/2024, dated 06.11.2025. The letter copy enclosed as **Annexure – 4.**

d. Project Proponent undertaking affidavit:

The project proponent has issued an affidavit under in matter of Common Cause vs Union of India & Ors.

e. Land document of the proposed lease area:

The applied area is Existing project and it is a Patta land in the name of Thiru.Venugopal and Applicant vide patta nos. 1316 and 1315, the applicant has obtained consent from Pattadars and got it registered are enclosed as **Annexure - 6.**

*****

CHAPTER 2

PROJECT DESCRIPTION

2.1 TYPE OF PROJECT

The proposed project is an Opencast Mechanized Mining project for the excavation of Rough Stone and Gravel involving drilling, blasting, loading, and transportation operations within the lease area of 4.34.0 Ha in S.F. Nos. 106/2A, 106/2B, 106/3, 106/4A and 106/4B of Thollamur Village, Vanur Taluk, Villupuram District, Tamil Nadu. As per the EIA Notification, 2006 and its subsequent amendments, the project falls under Schedule 1(a), Category B1, considering the cluster situation, with a total cluster area of 11.14.0 Ha. The details of mines located within the cluster area have been certified by the Assistant Director, Department of Geology and Mining, Villupuram, vide Rc. No. A/G&M/219/2024 dated 30.09.2025.

Table 2.1 500m Radius Cluster Mines Details

Sl. No	Name and address	Name of the Mineral	Village and Taluk	S.F.Nos.	Extent (in Ha)	Period of lease
Existing Quarries						
1.	Tvl.Sree Thiruchendhur Murugan Blue Metals represented by its partner Thiru.P.Subramani, No.3-3/3-3, Main Road, Thoravi Village, Vikravandi Taluk, Viluppram District.	Rough stone & Gravel	Vanur & Thollamur	20/1 20/2A 20/2B 20/3 21/4 21/6 99/2 99/3B 99/6	0.83.0 0.42.5 0.43.0 1.34.0 0.31.5 0.56.0 0.24.0 0.28.5 0.15.0 **4.57.5**	04.01.2022 to 03.01.2027
2.	D.Gnanaguru, S/o.Dhanapal, No.219/1C, Iyyanar Kovil Street, Tennamadevi Village, Vikravandi Taluk, Viluppram District.	Rough stone & Gravel	Vanur & Thollamur	99/1 99/3A 100/1 100/2 100/5A	0.27.0 0.54.0 0.75.5 0.27.0 0.39.0 **2.22.5**	23.04.2025 to 22.04.2035
Proposed Quarry						

1.	M.Moorthi, S/o.Muniyan, No.413, Mannarsamy Kovil Street, Tiruvakkarai Village, Vanur Taluk, Viluppuram District – 604 304.	Rough stone & Gravel	Vanur & Thollamur	106/2A, 106/2B, 106/3, 106/4A 106/4B	0.31.0 0.40.5 0.58.5 1.16.5 1.87.5 **4.34.0**	-
			Abandoned Quarries			
1.	M.Moorthi, S/o.Muniyan, No.413, Mannarsamy Kovil Street, Tiruvakkarai Village, Vanur Taluk, Viluppuram District – 604 304.	Rough stone & Gravel	Vanur & Thollamur	106/2A, 106/3, 106/4A 106/4B	0.31.0 0.58.5 1.16.5 1.87.5 **3.93.5**	15.02.2019 to 14.02.2024

The proposed total production is 3,18,080 m^3 of Rough Stone will be mined out in five years by open cast mechanized mining method.

2.2 SALIENT FEATURES OF THE PROJECT

The salient features of the proposed Rough Stone quarry of Thiru.M.Moorthi .

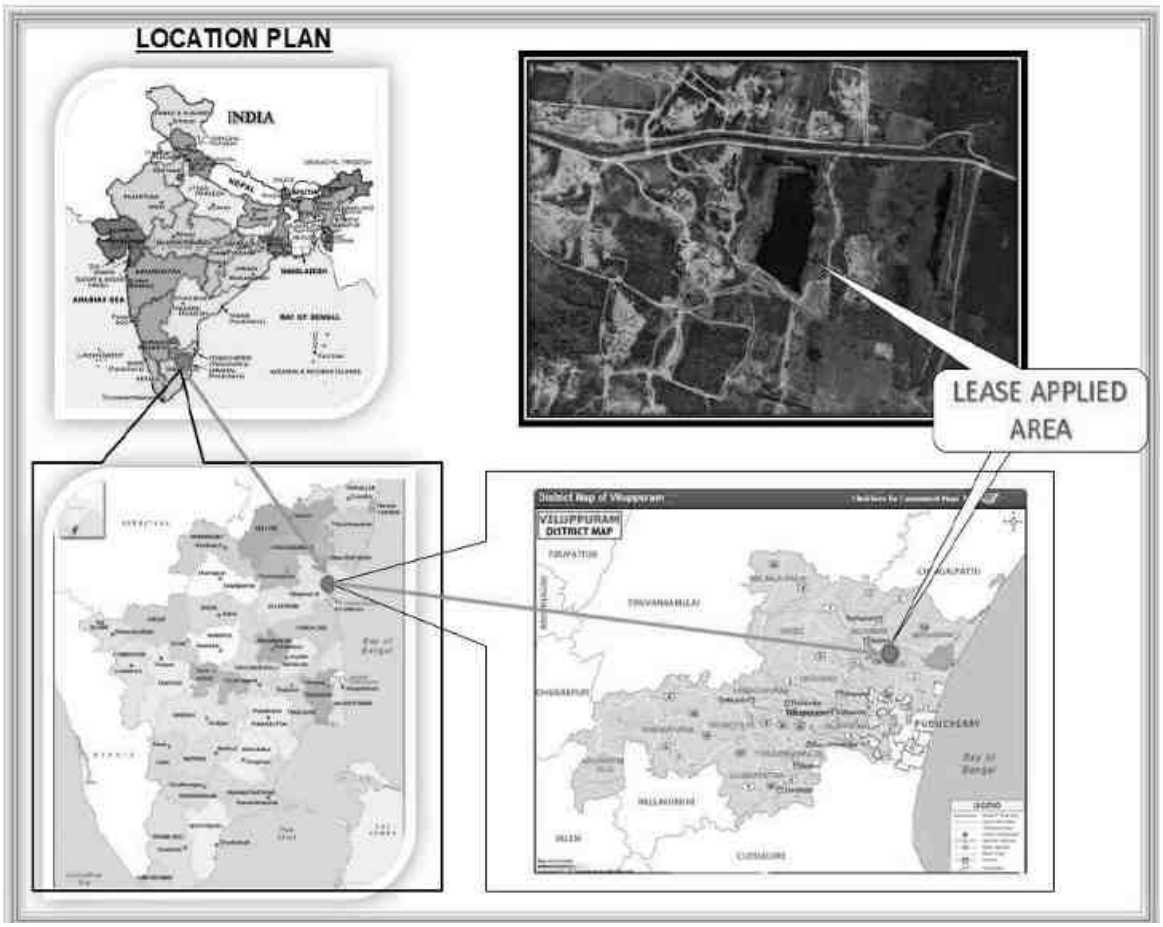
Table 2.1a Salient features of the project

S.No.	Type of Detail	Description
1	Sector	1(a) Non coal mining
2	Fresh/Existing project	Existing project
3	Category	B1
4	Nature of mineral	Minor Mineral
5	Life of the mine	5 Years
6	Production Quantity	Rough Stone - 3,18,080 m^3
7	Waste generation and management	Nil
8	Bench height and width	Proposed bench height & width is 5.0m respectively and number of proposed benches is 7 Nos.
9	Ultimate pit depth	52m BGL
10	End use	The excavated Rough Stone and Gravel is used for construction industries for Government & Public sector projects besides catering domestic housing and infrastructure projects in and around the district.

2.3 LOCATION (MAPS SHOWING GENERAL LOCATION, SPECIFIC LOCATION, PROJECT BOUNDARY & PROJECT SITE LAYOUT):

This project site is located in Thollamur Village, Vanur Taluk, Villupuram District, Tamil Nadu State. The Nearest Railway line is Viluppuram to Chennai line which is about 13 km on northwestern side of the area. The National Highway (NH-32) Tindivanam – Thoothukudi is about 9.2 km on northeastern side of the area. The State Highway (SH-136) Vellemedupettai – Vanur is about 2.2 Km on northern side of the area. The general location is given in Figure 2.7. The specific location is given in Figure 2.8.

FIGURE 2.1 LOCATION MAP



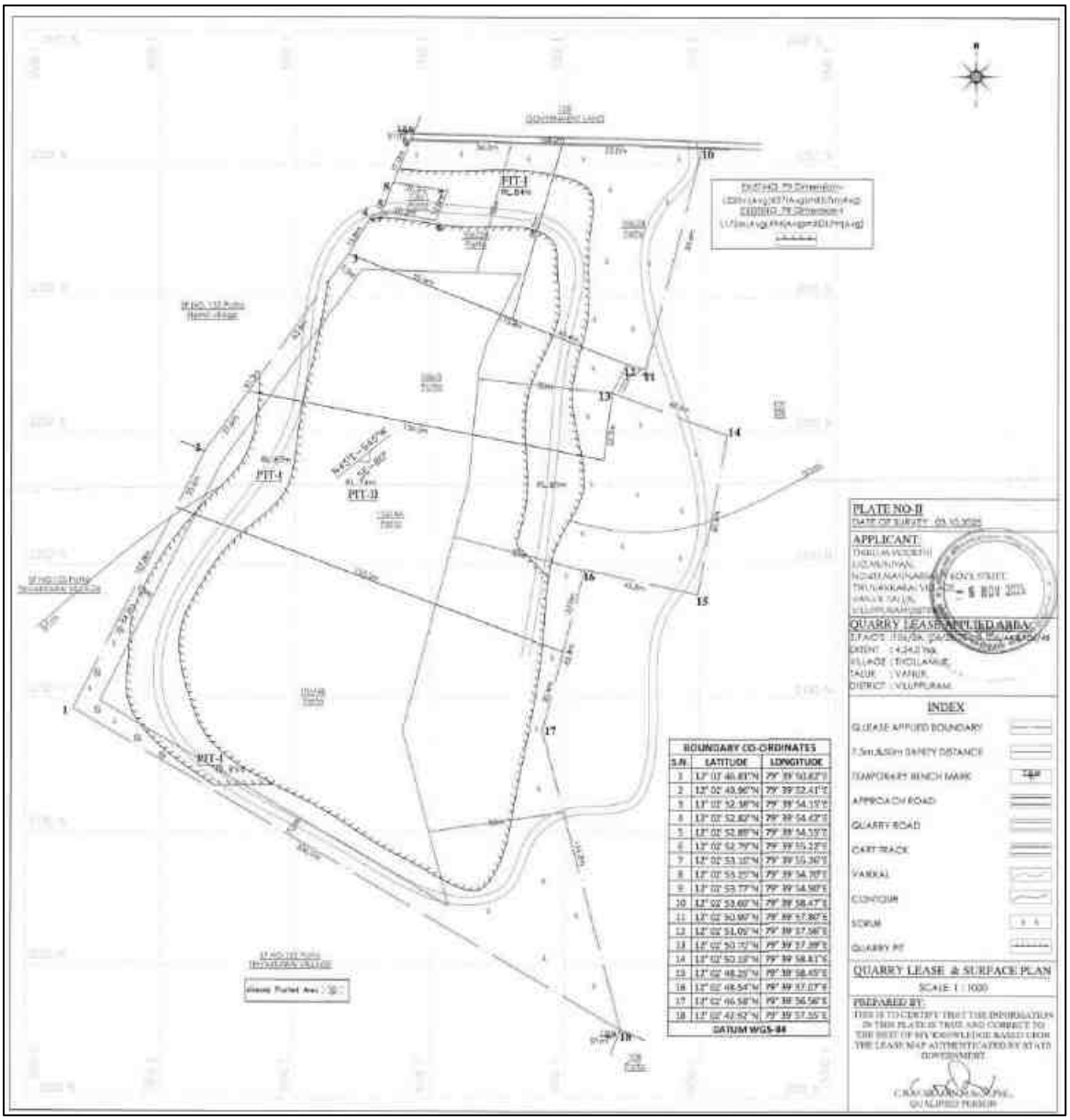
2.2 CO-ORDINATES OF THE PROJECT SITE

Corners	Co- ordinates		Distance between the corners
	Latitude	Longitude	
1	12° 02' 46.81''N	79° 39' 50.82''E	1-2 = 107.8m
2	12° 02' 49.96''N	79° 39' 52.41''E	2-3 = 91.2m
3	12° 02' 52.38''N	79° 39' 54.15''E	3-4 = 15.8m
4	12° 02' 52.82''N	79° 39' 54.42''E	4-5 = 4.6m
5	12° 02' 52.89''N	79° 39' 54.55''E	5-6 = 20.2m
6	12° 02' 52.79''N	79° 39' 55.22''E	6-7 = 12.0m
7	12° 02' 53.16''N	79° 39' 55.36''E	7-8 = 20.2m
8	12° 02' 53.25''N	79° 39' 54.70''E	8-9 = 17.0m
9	12° 02' 53.77''N	79° 39' 54.90''E	9-10 = 108.0m
10	12° 02' 53.69''N	79° 39' 58.47''E	10-11 = 85.6m
11	12° 02' 50.99''N	79° 39' 57.80''E	11-12 = 7.4m
12	12° 02' 51.05''N	79° 39' 57.56''E	12-13 = 12.0m
13	12° 02' 50.70''N	79° 39' 57.39''E	13-14 = 45.6m
14	12° 02' 50.19''N	79° 39' 58.81''E	14-15 = 60.6m
15	12° 02' 48.25''N	79° 39' 58.45''E	15-16 = 42.8m
16	12° 02' 48.54''N	79° 39' 57.07''E	16-17 = 62.4m
17	12° 02' 46.58''N	79° 39' 56.56''E	17-18 = 116.2m
18	12° 02' 42.92''N	79° 39' 57.55''E	18-1 = 236.0m

FIGURE 2.2 GOOGLE IMAGE SHOWING PROJECT SITE



FIGURE 2.3 SURFACE PLAN OF THE PROJECT AREA



2.3.1 PROJECT SITE LAYOUT

The proposed Mine Lease area is patta land and the Land use pattern of the project site is given below Table 2.3.

Table 2.3 Current Land Use Pattern			
S. No.	**Land Use**	**Present Area (Ha)**	**Area in use during the quarrying period (Ha)**
1	Quarrying Pit	2.24.0	3.22.0
2	Infrastructure	Nil	0.01.0
3	Roads	0.01.0	0.02.0
4	Green Belt	0.02.0	1.09.0
5	Unutilized	2.07.0	Nil
	Total	**4.34.0**	**4.34.0**

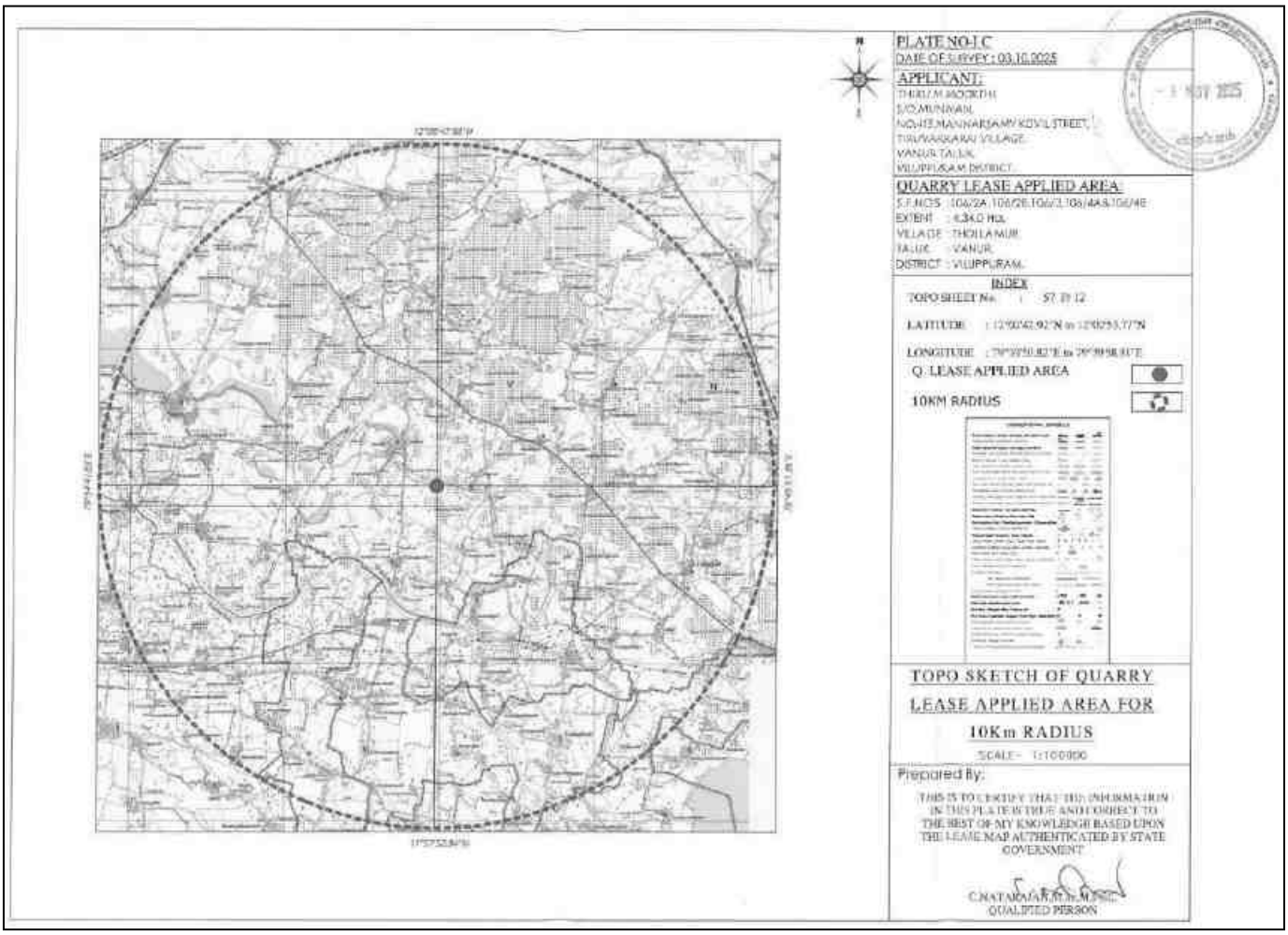
2.3.2 LAND USE AT MINE CLOSURE STAGE

Table 2.4 Land Use at Mine Closure Stage		
S. No.	**Land Use**	**Area in use during the quarrying period (Ha)**
1	Area left for water body	3.22.0
2	Green Belt	1.09.0
3	Remaining area	0.03.0
Total		**4.34.0**

2.3.3 SALIENT FEATURES OF THE LEASE AREA

Sr.No	**Salient Features**	**Description**
1	Nearest Roadway	Thollamur - Nemili village road(N). National Highway (NH-32) Tindivanam – Thoothukudi - 9.2km (NE). State Highway (SH-136) Vellemedupettai – Vanur - 2.2km (N).
2	Nearest Village	Thollamur Village –835m (NE)
3	Nearest Railway station	Vikavandi - 13.22 km – W
4	Nearest Airport	Puducherry Airport (17.5km SE)

Figure 2.4 Topo Map showing existing site features



2.4 SIZE OR MAGNITUDE OF OPERATION(INCL.ASSOCIATED ACTIVITIES REQUIRED BY OR FOR THE PROJECT):

The proposed production is rough stone – 3,18,080 m^3 by Opencast Mechanized mining method.

2.4.1 STATUS OF STATUTORY CLEARANCES, PERMISSIONS, NO OBJECTION CERTIFICATES, CONSENTS:

The mining project will be implemented after getting all the Statutory Clearances, Permissions, No Objection Certificates, consents etc. which are required/necessary for this project under various Acts, Rules and Regulations is as given in table below:

Table - 2.5 Status of Statutory Clearances, Permissions, NOC, Consents

S.No	Particular	Status
1	Mining Plan Approval Status	The project proponent has prepared mining plan under rule 19(1) 41 & 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 and the same has been approved by the Assistant Director, Dept. of Geology & Mining, Viluppuram vide Rc.No A/G&M/219/2024 dated 06.11.2025.
2	Environment Clearance Status	ToR Letter Received vide file no TO25B0108TN5780122N , dated 02.04.2026.
3	Grant of Consent to Establish (CTE)	After 30 days from grant of EC (Duration as per TNPCB)
4	Grant of Consent to Operate (CTO)	After 30 days from grant of EC (Duration as per TNPCB)

2.5 PROPOSED SCHEDULE FOR APPROVAL & IMPLEMENTATION

Proposed schedule for approval of the proposed mining project is given as under:

Table - 2.6 Proposed Schedule for Approval

S.N	Activity Description	Sep 2026	Oct 2026	Nov 2026	Dec 2026
1	Submission of Final EIA/EMP Report to SEIAA-TN				
2	Consideration for EC by SEAC				
3	Recommendation of SEAC to SEIAA				
4	Grant of EC by SEIAA				

Proposed schedule has been prepared as per EIA Notification, 2006

Note: Application was submitted to Parivesh Portal on 23.11.2025 , ToR was granted on 02.04.2026. Baseline data Collection during Summer Season (December 2025 to

February 2026). After obtaining EC from SEIAA-TN, CTE and CTO under section 21 of the Air (Prevention and Control Act) 1981 and section 25/26 Water (Prevention and Control of Pollution Act) 1974 will be obtained from Tamil Nadu State Pollution Control Board (TNPCB).

2.5.1 IMPLEMENTATION

Implementation of the proposed mining project will be done in accordance with the existing Acts and Rules applicable on mining operations as well as in accordance with any Act/Rule/Guidelines issued by Central or State Government from time to time and as per Mining Plan and Progressive Mine Closure Plan approved by Assistant Director, Dept. of Geology & Mining, Viluppuram vide Rc.No. A/G&M/219/2024 dated 06.11.2025.

2.6 TECHNOLOGY & PROCESS DESCRIPTION

2.6.1 BASIC REQUIREMENTS FOR THE PROJECT

The project requirements such as water, power, man-power, fuel, machinery with source of supply is described in the sections below.

2.6.2 WATER REQUIREMENTS

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 1.0 KLD will be generated, for which a septic tank with soak pit will be set up. The water balance diagram is given below.

FIG 2.5 WATER BALANCE DIAGRAM

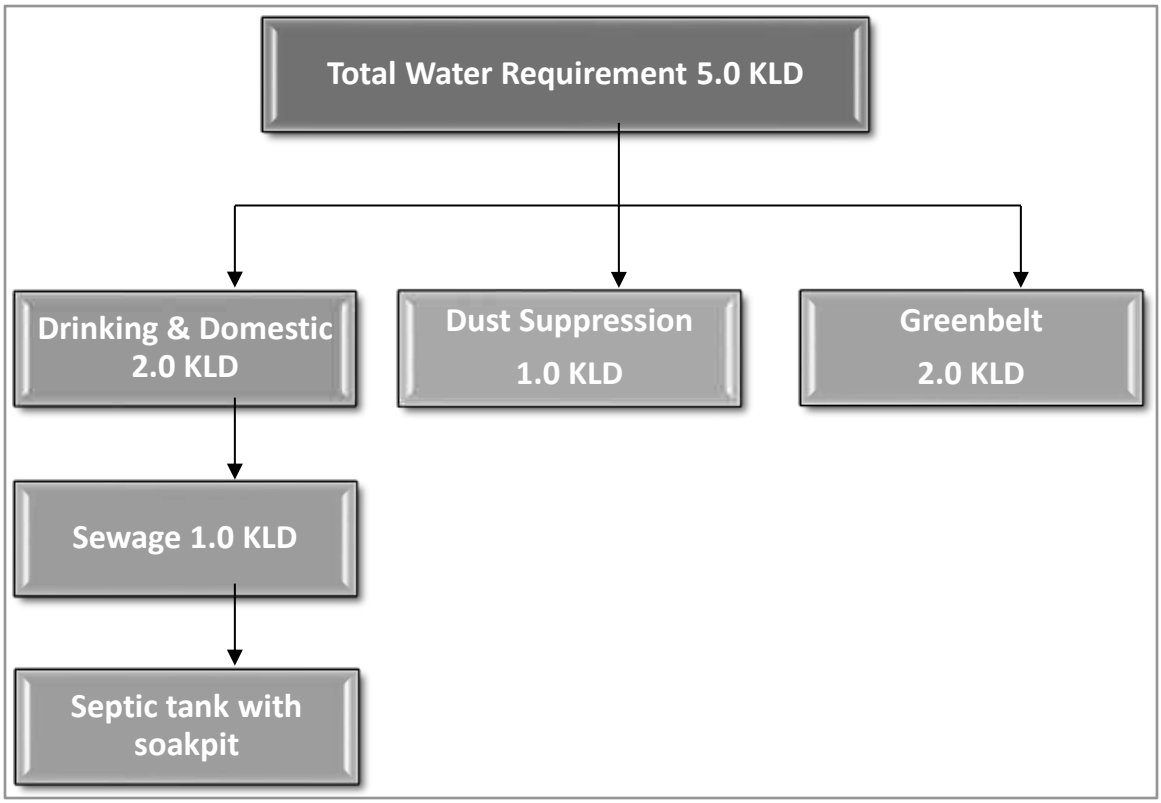


Table - 2.7 Water Requirement

S. No	Particular	Water Requirement (KLD)
1	Dust suppression	1.0
2	Drinking/Domestic	2.0
3	Greenbelt/Plantation	2.0
Total		5.0

2.6.3 POWER REQUIREMENT

No electricity is needed for mining operations.

2.6.4 MAN POWER REQUIREMENT

Total Manpower requirement will be 31 persons which out of 12 persons (Mines manager, Foreman, Mining Mate, etc.,) and other are drivers and workman's categories. Beside this, 19 workmen will be drivers and workmen. Preference will be given to the locals as per their eligibility.

S.No	Description		Employment potential
1	Skilled	Mines Manager	1 No.
2		Foreman / Mate	2 Nos.
3		Operator	8 Nos.
4		Mechanic	1 No.
5	Semi–skilled	Driver	4 Nos.
6	Unskilled	Labours	15 Nos
Total			**31 Nos**

2.6.5 EXTENT OF MECHANIZATION

Table 2.8 Machineries involved in the project

S.No.	Particulars	capacity	Motive Power	Nos
1.	Jack hammer	32mm dia	Compressed air	4
2.	Compressor	1 psi	Diesel drive	1
3.	Excavator with Bucket and Rock Breaker	0.90 m3	Diesel drive	2
4.	Tippers	10/20 Ts	Diesel drive	4

Source: Approved Mining Plan

Note: The mining equipment's of the above capacities are adequate for total material handling requirements for the proposed production of Rough stone in the ML area.

2.6.6 GEOLOGY AND TOPOGRAPHY

Topography

The mine lease area of 4.34.0 Ha is covered in the Survey of India Toposheet 57 P/16 and is bounded by Latitude: 12°02'42.92"N to 12°02'53.77"N and Longitude: 79°39'50.82"E to 79°39'58.81"E . No major river is found nearby the lease applied area. Water table is found at a depth of 72 m. Temperature of the area is reported to be 18^0 C to a maximum of 42^0 C during summer. Rainfall of this area is about 800 mm to 900 mm during the both NE & SW monsoons.

The topo map showing the lease area of the proposed quarry is given in Figure 2.1 and Satellite map showing proposed lease area is given in Figure 2.2.

The elevation of the proposed quarry is 91 m (maximum) from MSL. There is no forest land in the mine lease area. The project site is dry land which is not fit for any cropping.

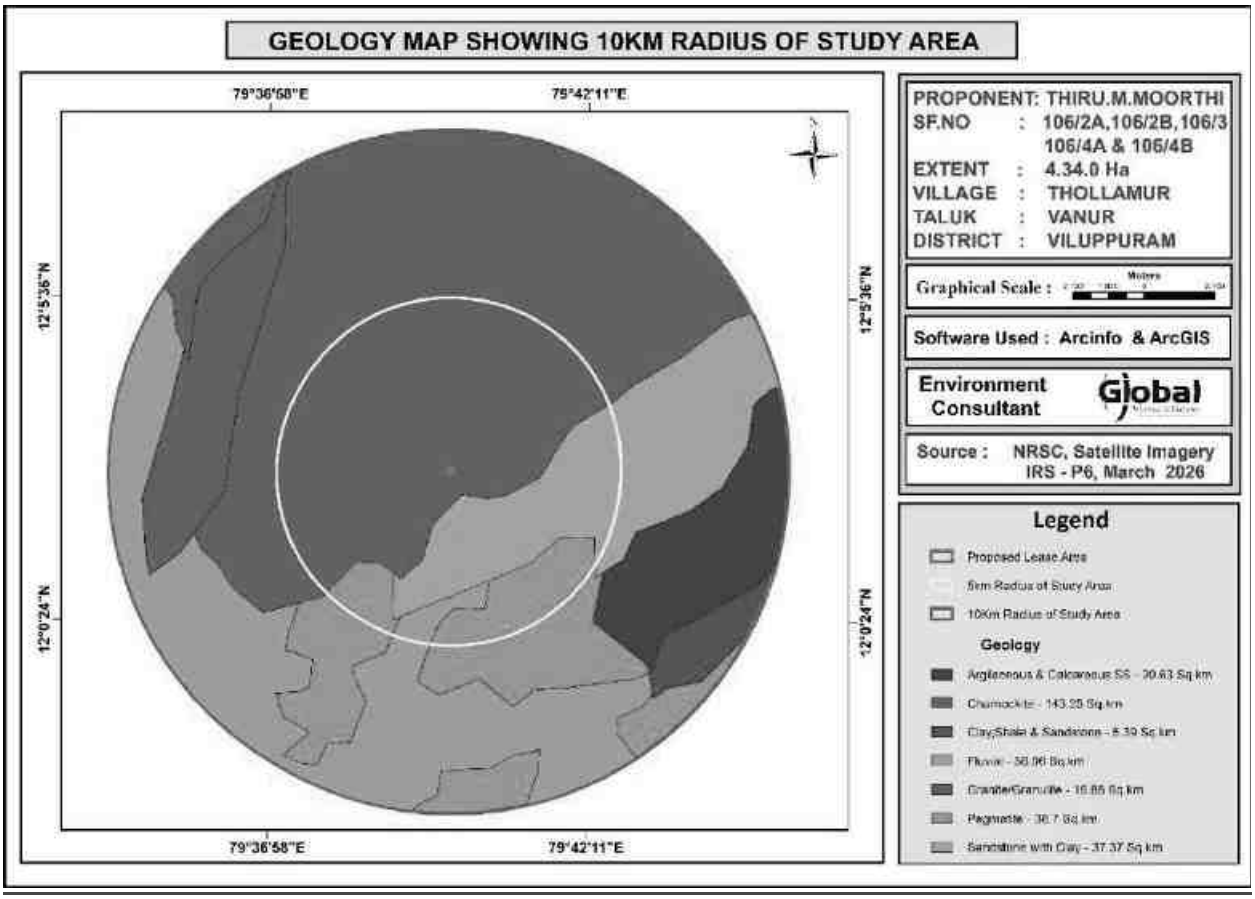
2.6.7 Regional Geology

The Core and 10 Km buffered zone geological features (Figure 2.28) shows that the Villupuram District is mostly underlain by the lithologies of southern granulite Terrain Super Group (SGT) with age ranging from Neoarchaean to Mesoproterozoic except coastal belt in the eastern part of the district. The calc granulite with limestone of Khondalite Group is occurs at north of Mugaiyur. The Charnockite Group contain 3 lithologies such as Charnockite, banded magnetite quartzite and pyrixene granulite. The Charnockite occur at north of Valatti and covers large area from Vikravandi to Ollakur. The linear bands of pyroxene granulite are occurring mostly in the NW parts of the district near valatti and few patches occur at west of Odiyattur. The Migmatite Group contains biotite gneiss which cover large area in the central and NW parts of the district such as west of Muttatur and Mugaiyur and in and around valatti. The grey hornblende biotite gneiss occurs as linear band at east of Vikravandi. The hornblende biotite gneiss occurs in the larger area of the district from Mugaiyur to north of Gingee. The Migmatite gneiss occur at south of Olakkur and NW of Odiyattur.

The bands of pink migmatite are occurs at NE of Gingee and NW of Valatti. The Archaean to Paleoproterozoic in age Closepet Granite within the biotite gneiss of Migmatite Group at west of Valatti. The Proterozoic epidote hornblende gneiss is occurring in and around Gingee with shearing activity. The Mesoproterozoic in age basic intrusive like dolerite dykes are intruded into rocks of Southern Granulite Terrain and these dykes are tendering into NW-SE to E-W direction.

The late carboniferous-early premian in age,boulder conglomerate bad of Talchir Formation is occurs in linear belt at northern part of the district near Olakkur and Ongur.The Late Cretaceous period contains Pondicherry Group which contain sandstone-shale sequence and divided into Vanur and Nesal Formations and occurs in the eastern part of the district. The Cenozoic laterites occurs at west of Vanur .The early palaeocene age contains Pondicherry Group and it is divided into Karasur and Manaveli Formations which contains lithologies such as limestone and clay and occurs at east of vanur. The Miocene-Pliocene period are marked by deposites of thick sediments sequence and classified into Panamparai Formation and Cuddalore Formation and contains lithologies such as sandstone, conglomerate and mottled sandstone.

FIGURE 2.6 REGIONAL GEOLOGY MAP - 10 Km RADIUS



2.6.8 Local Geology

Geological Resources

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 $N45^0E$ – $S45^0W$ with dipping towards $SE80^0$.

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

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

The Geological resources are calculated in area method.

2.7 PROJECT DESCRIPTION INCLUDING DRAWING SHOWING PROJECT LAY OUT COMPONENTS OF PROJECT ETC., SCHEMATIC REPRESENTATION OF THE FEASIBILITY DRAWING WHICH GIVE INFORMATION IMPORTANT For EIA PURPOSE.

2.7.1 PROCESS DESCRIPTION

METHOD OFMINING

Opencast mechanized method with 5.0 m height 5.0m width and overall, 45^0 slope of the bench. It is proposed to excavate 3,18,080 m^3 of Rough Stone. No wastage is envisaged as the entire material available is Rough Stone and Gravel only.

TIMING

Mining will be done on single shift basis. Timing will be 8 hours from 8 AM to 1 Noon and 2 PM to 5 PM. Lunch time will be provided between 1 Noon and 2 PM. Timing may be variable from season to season depending upon the sunrise and sunset. Weekly one day will be declared as holiday.

BENCH GEOMETRY

Height (max) and Width (max) of the benches will be maintained as 5m each and overall slope angle will be at around 90^0 with the horizontal.

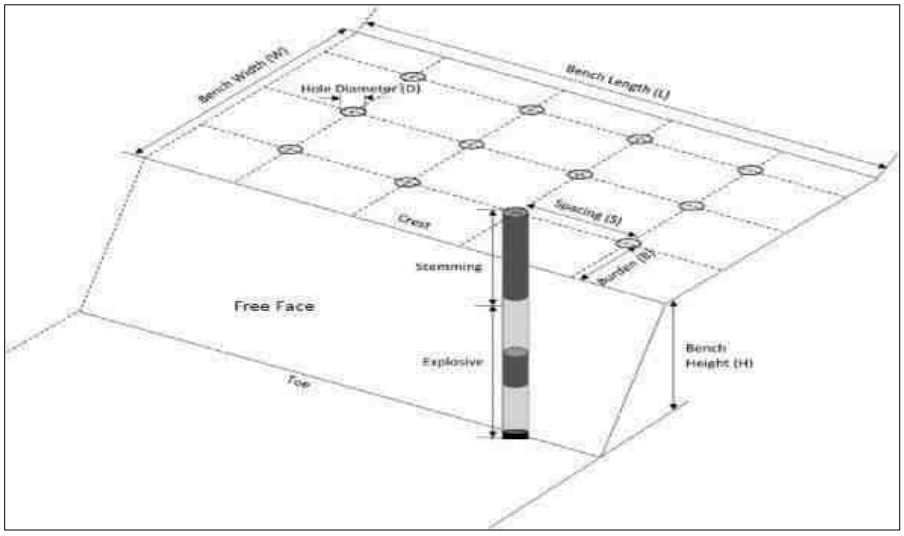
DEVELOPMENT OF MINING FACES

The proposed mining method is Opencast Mechanized mining. Site preparation as such bush cleaning, approach road, office and sanitary facilities will be done after obtaining all the statutory clearances as such Environmental Clearance, Consent to Operate, Lease Deed, etc., Once site is ready will start the quarrying operation and it is anticipated in the month of October 2025.

DRILLING & BLASTING

Drilling will be done up to maximum depth of 52m BGL (Drilling diameter will be 32 mm). Jackhammer will be used for drilling with water spray. Powder factor of explosives for breaking such hard rock shall be in the order of 6 Tonnes per Kg of explosives. Small dia 25 mm slurry explosive is proposed to be used for shattering and heaving effect for removal of Rough Stone & Gravel. The proposed blasting pattern is given as Figure 2.8.

FIGURE 2.7 BLASTING PATTERN



LOADING& TRANSPORTATION OF ROUGH STONE AND GRAVEL

Hydraulic excavator will be used for lifting and loading of the rough stone and Gravel. This excavator in combination with Tippers (20MT) capacity of 4 nos will be used.

FIGURE 2.8 FLOW CHART OF THE QUARRY OPERATION

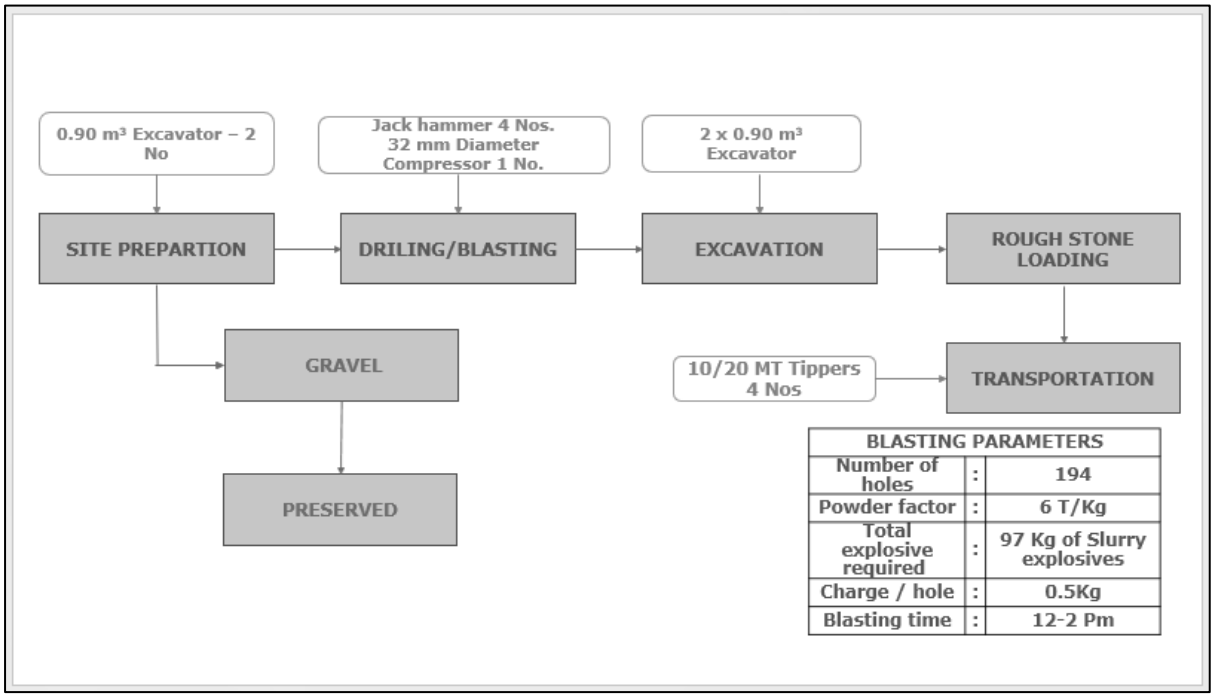


TABLE - 2.9 MINING DETAILS

S.No	Description	Details	Remarks
1.	Method of Mining	Opencast method of mechanized mining with 5.0 m height 5.0 m width and overall 45^0 slope of the bench. Hydraulic excavator will be used for the excavation and 10/20T tippers will be used for the Hauling.	Excavator – 2 No Tippers - 4 Nos.
2.	Mineral Use	The excavated Rough Stone and Gravel, will be used for construction industries for Government & Public sector projects besides catering	-

<table>
<tr><td></td><td></td><td colspan="2">domestic housing and infrastructure projects in and around the district</td><td></td></tr>
<tr><td>3.</td><td>Proposed Depth</td><td colspan="2">52m BGL</td><td>Water table in the area is around 72 m BGL</td></tr>
<tr><td>4.</td><td>Proposed Production quantity</td><td colspan="2">3,18,080 m3 of Rough Stone</td><td>Five years</td></tr>
<tr><td>5.</td><td>Ultimate pit dimension</td><td colspan="3"><table><tr><td colspan="4">Ultimate Pit dimension (M) end of Mining plan Period</td></tr><tr><td>Pit No</td><td>Length (max) in (m)</td><td>Width (Avg) in (m)</td><td>Depth(max) in(m)</td></tr><tr><td>I</td><td>261</td><td>123</td><td>52</td></tr></table></td></tr>
<tr><td>5.</td><td>Safety Zone</td><td colspan="2">Out of 4.34.0 Ha, 1.09.0 Ha will be maintained as safety zone during mining operation as well as at the conceptual stage of the project.</td><td>Around 1308 nos. of saplings will be planted in this safety</td></tr>
<tr><td>6.</td><td>Water requirement</td><td colspan="2">5.0 KLD</td><td>Procured from the outside watervendors</td></tr>
<tr><td>7.</td><td>Energy requirement</td><td colspan="2">-</td><td>All the equipment will be diesel operated. No electricity is needed for mining operation</td></tr>
<tr><td>8.</td><td>Manpower</td><td colspan="3">31 Nos</td></tr>
<tr><td>9.</td><td>Shift</td><td colspan="2">General Shift</td><td>8.00 AM – 5.00 PM</td></tr>
<tr><td>10.</td><td>Project Cost</td><td colspan="2">141.14 Lakhs</td><td>(Including Fixed Asset + Operational & EMP cost)</td></tr>
<tr><td>11.</td><td>EMP Cost</td><td colspan="2">24.60 Lakhs</td><td>-</td></tr>
<tr><td>12.</td><td>CER Cost</td><td colspan="2">As per MOEF & CC Notification CER cost is arrived for an amount of 2,37,480 /- Lakhs @ 2% of the project cost. However, the project proponent has revised CER cost as 5.0 Lakhs.</td><td>The amount will be utilized for the development ofnearby Government Schools.</td></tr>
</table>

2.7.2 YEAR WISE PRODUCTION & EXCAVATION DETAILS

Year wise Production of Rough stone and Gravel from the area will be upto maximum capacity. The recovery factor is up to 100% hence no waste expected to be generated. All excavated quantity is saleable. The summary of proposed development and production during the mine plan period is given in Table 2.10.

Table 2.10 Summary of production for 5 Years

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
I	XY-AB	V	163	78	5	63570	2.75	174817.50
Total						**63570**	-	**174817.50**
II	XY-AB	V	48	78	5	18720	2.75	51480.00
		VI	133	68	5	45220	2.75	124355.00
Total						**63940**	-	**175835.00**
III	XY-AB	VI	68	68	5	23120	2.75	63580.00
		VII	140	58	5	40600	2.75	111650.00
Total						**63720**	-	**175230.00**
VI	XY-AB	VII	51	58	5	14790	2.75	40672.50
		VIII	181	48	5	43440	2.75	119460.00
		IX	30	38	5	5700	2.75	15675.00
Total						**63930**	-	**175807.50**
V	XY-AB	IX	141	38	5	26790	2.75	73672.50
		X	161	28	5	22540	2.75	61985.00
		XI	151	18	5	13590	2.75	37372.50
Total						**62920**	-	**173030.00**
Grand Total						**318080**	-	**874720.00**

2.7.3 CONCEPTUAL PERIOD

During conceptual stage the mined-out area will be converted into water reservoir and safety zone as well as upper benches will be used for plantation at the conceptual period. It will also serve the purpose as socio economic and corporate social responsibility of the lessee by way of supplying water for irrigation purpose or at will of the local people. This will help in ground water recharging as well. The conceptual plan and section of mine lease area is given in Figure 2.11. Ultimate extent and size of the quarry at the conceptual stage is given below as Table 2.11 and Land Use pattern is given as Table 2.12. The conceptual plan is given as Figure 2.11.

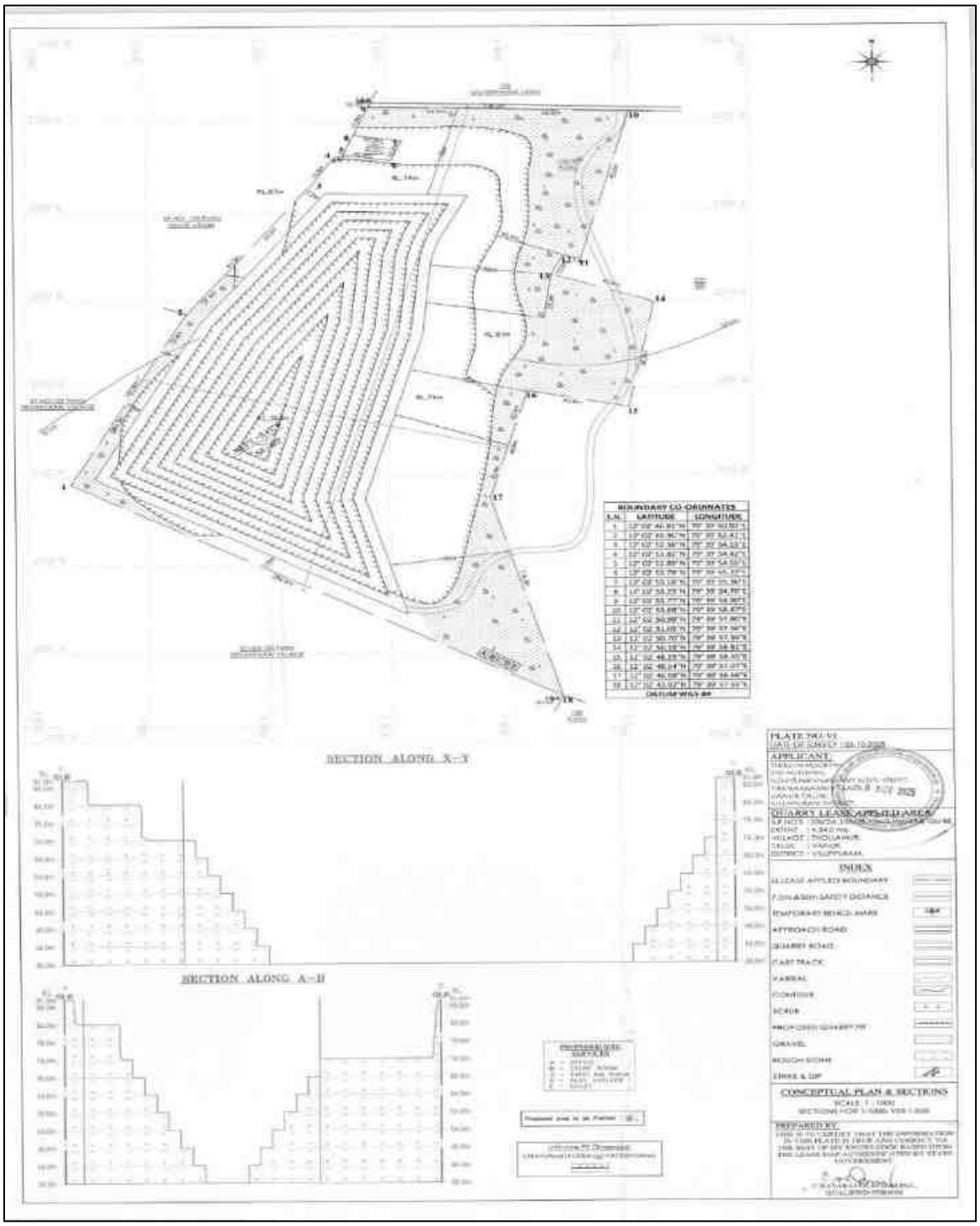
TABLE 2.11 Ultimate Pit Dimension

Pit No.	Length (max) (m)	Width (Avg) (m)	Depth (max) (m)
Ultimate Pit dimension at the end of Mining Plan Period as per approved Mining Plan			
I	261	123	52
Ultimate Pit dimension at the end of the lease period			
I	261	123	52

TABLE 2.12 Land Use at Mine Closure Stage

S. No.	Land Use	Area in use during the quarrying period (Ha)
1	Area left for water body	3.22.0
2	Green Belt	1.09.0
3	Remaining area	0.03.0
Total		**4.34.0**

FIGURE 2.9 CONCEPTUAL PLAN



2.8 DESCRIPTION OF MITIGATION MEASURES INCORPORATED INTO THE PROJECT TO MEET ENVIRONMENTAL STANDARDS ENVIRONMENTAL OPERATING CONDITIONS, OR OTHER EIA REQUIREMENTS (AS REQUIRED BY THE SCOPE)

The mitigation measures given in this section are for management of the emissions (particulate or gaseous), Noise pollution, wastewater & surface run-off generated from the mining operations to meet the environmental standards and environmental operating conditions are as follows:

2.8.1 AIR QUALITY MANAGEMENT

Drilling

Drilling machines are proposed to be equipped with wet drilling arrangements and cyclone dust collectors.

Blasting

- Controlled blasting is proposed to be adopted and optimum use of explosive energy will help in reducing the air pollution.
- Secondary blasting will be avoided.
- Rock breakers are proposed to be used for breaking over sized boulders in order to reduce the dust generation.
- Use of good quality of explosives having proper oxygen balance with regular monitoring.
- Ensuring proper stemming after charging of explosives. Proper stemming material will help in minimizing dust throw thereby lowering the spread of dust particles in ambient air pollution.
- Water spray on blasted muck pile before dozing/loading to control dust generation.

Loading & Transportation

- Water spray on haulage roads, access roads, operating benches and proper maintenance of haul roads.
- Development of green belt/plantation around mine boundary, roads and other places will be carried out to control the air pollution.

- Proper maintenance of the HEMMs & transportation vehicles will be done.
- Vehicular emissions will be kept under norms.
- Personal Protective Equipment like dust masks will be provided to all employees. ➢ Regular air quality monitoring will be carried out.
- Compliance of conditions laid by MoEF&CC and TNPCB to minimize environmental impacts

2.8.2 NOISE MANAGEMENT

Drilling

- Drilling with sharp drill bits to achieve optimum drilling performance and to reduce noise generation at source will be adopted.
- Personal protective equipments i.e. earplug in drilling & in high noise area shall be used.

Blasting

- As blasting will be done in accordance with standards prescribed by DGMS for controlled blasting; therefore, ground vibrations will not affect the structures in the vicinity of mine area.
- Explosives charge per hole and per delay will be maintained as per DGMS guidelines.
- Blasting will be carried out by use of non-electric detonators (NONEL) system and the impacts of noise generated due to blasting are momentary.
- Vibrations and noise generated by blasting will be monitored regularly

Transportation

- Adequate silencers in HEMMs will be provided to reduce generation of noise.
- Proper and regular maintenance, oiling and greasing of machines at regular intervals will be done to reduce generation of noise.
- All HEMMs will be equipped with acoustic a/c closed cabins for operators.
- The workers employed at HEMMs will be provided with protective equipment, earmuffs and earplugs as protective measures from the high noise level generated at the mine site and wherever required.

- Development of green belt & plantation around the mining activity and other areas, will be carried out.
- Regular monitoring of noise will be carried out.

2.8.3 WATER MANAGEMENT

Waste Water

Septic Tanks and soak pits will be provided for the disposal of effluent generated from mine office.

Surface Run-off

- Garland drains are proposed to be constructed around the temporary overburden soil dump to channelize the runoff water from dumps and also around the active pit to restrict rainy water from entering in to the working pit.
- Rain water falling directly into the mine pits will be stored and used for plantation & dust suppression.
- Regular monitoring of water quality will be carried out

GREENBELT/ PLANTATION

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 1.09.0 Ha. Trees like Pungai, Vagai, Vembu, Manjal konrai, Naval, Puvarasu, etc., will be planted around the mine lease area. A total of 1308 trees are planned to be planted. Spacing will be 3m x 3m.

2.9 ASSESSMENT OF NEW & TESTED TECHNOLOGY FOR THE RISK OF TECHNOLOGICAL FAILURE:

From the nature and extent of the deposit, the reserves and the quality have been proved with adequate degree of reliability. Considering the type of mineralization, opencast mechanized method is the most feasible method for mining in the proposed mine lease. It is also a matter of fact that the mining machineries are upgrading with time and therefore the project proponent would act fast to adopt more advanced equipment and automation for safe and environment friendly mining technology in the years to come.

*****

CHAPTER 3
DESCRIPTION OF THE ENVIRONMENT

3.1. DESCRIPTION OF THE STUDY AREA

The project area is located in Thollamur Village, Vanur Taluk, Villupuram District, Tamil Nadu State over an extent of 4.34.0 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 MOEF recognized laboratory for various components of environment, viz. Air, Noise, Water, Land was carried out during Summer Season i.e. December 2025 to February 2026 in the study area covering 10 km radial distance from the rough stone and Gravel 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.

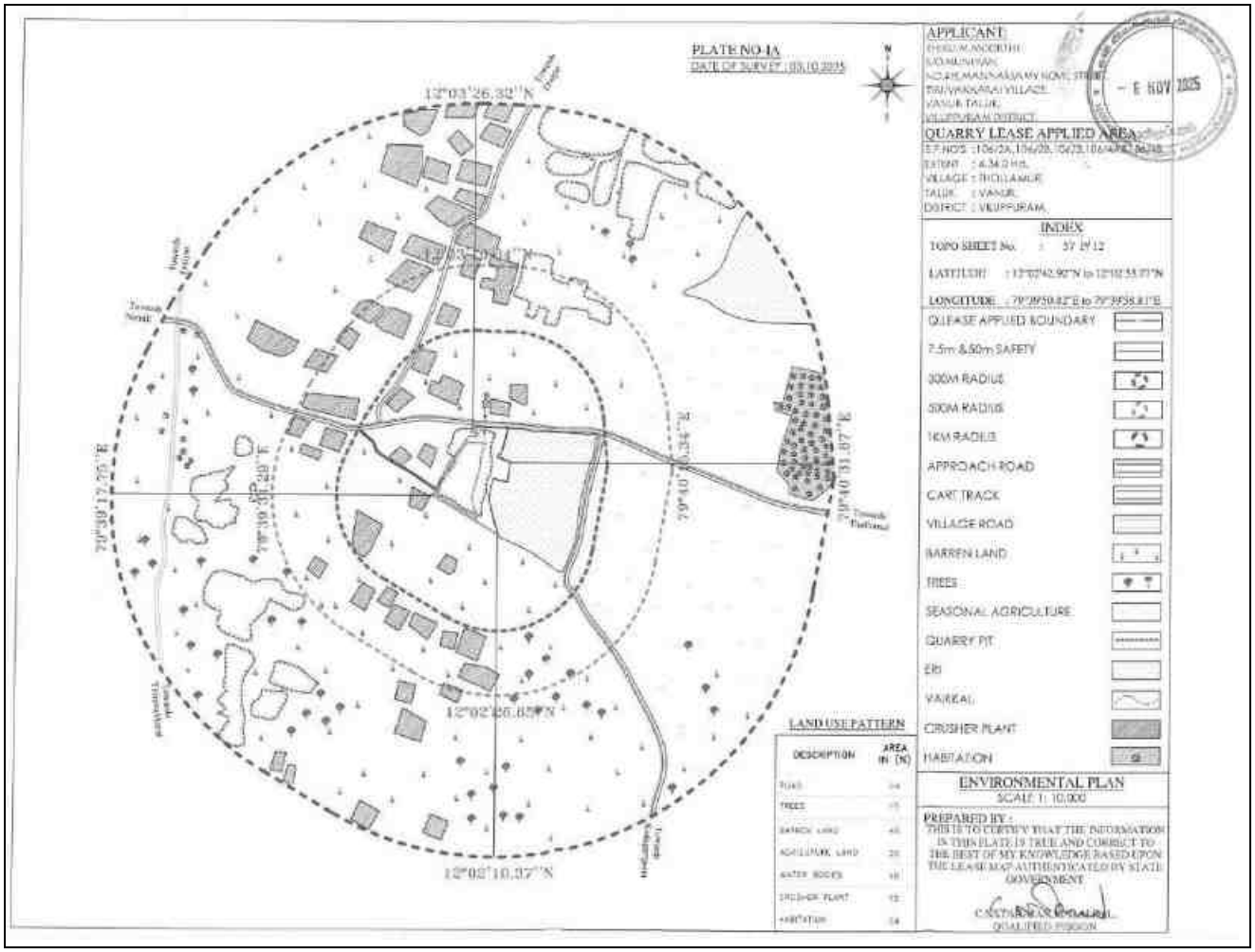
3.1.1 DESCRIPTION OF ENVIRONMENT IN THE STUDY AREA

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	

<table>
<tr><td>A</td><td>Wetlands, water courses or other water bodies,</td><td><table><tr><th>Water bodies</th><th>Distance</th><th>Direction</th></tr><tr><td>Odai</td><td>10.5m</td><td>N</td></tr><tr><td>Odai</td><td>252m</td><td>E</td></tr><tr><td>Tank</td><td>1.1Km</td><td>W</td></tr><tr><td>Tank</td><td>810m</td><td>NE</td></tr><tr><td>Sangarabarani river</td><td>2.94km</td><td>SW</td></tr></table></td></tr>
<tr><td>B</td><td>Coastal zone, biospheres,</td><td>Nil within 10km radius</td></tr>
<tr><td>C</td><td>Mountains, forests</td><td>Kongarampoondi R.F – 12.84 km(W)</td></tr>
<tr><td>3</td><td>Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration</td><td>Nil within 15km radius</td></tr>
<tr><td>4</td><td>Inland, coastal, marine or underground waters</td><td>Nil within 15km radius</td></tr>
<tr><td>5</td><td>State, National boundaries</td><td>Nil within 15km radius</td></tr>
<tr><td>6</td><td>Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas</td><td>Nil within 15km radius</td></tr>
<tr><td>7</td><td>Defense installations</td><td>Nil within 15km radius</td></tr>
<tr><td>8</td><td>Densely populated or built-up area</td><td>Nemili – 1.4km (NW)</td></tr>
<tr><td>9</td><td>Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)</td><td>Thollamur – 950m - E</td></tr>
<tr><td>10</td><td>Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)</td><td>Nil</td></tr>
<tr><td>11</td><td>Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)</td><td>Nil</td></tr>
<tr><td>12</td><td>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</td><td>No. The area is not prone to earthquakes, floods, etc.</td></tr>
</table>

FIG 3.1 ENVIRONMENTAL SETTING OF THE STUDY AREA



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 Summer Season (December 2025 to February 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.

3.2 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
- Socio economic environment
- Hydrogeology

BASELINE DATA COLLECTION

Baseline environment data on various components of the environment in the study area were collected during Summer Season (December 2025 to February 2026) to assess the present scenario of the area. Details are given in the table given below.

Baseline data collection During Post Monsoon Season (December 2025 to February 2026)

Sr.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)	6

4	Noise	Equivalent noise levels in Leq in dB (A)	Once in a season (day & night time)	6
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	6
6	Soil	Parameters As per IS 2720/USDA	Once in a season	6
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

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.

3.3. BASE MAP OF ALL ENVIRONMENTAL COMPONENTS

ENUMERATION OF THE STRUCTURES LOCATED WITHIN 500 M RADIUS FROM THE PROPOSED QUARRY SITE

A site survey has been conducted to identify and list structures located within a 300m radius from the proposed Quarry and are detailed below. There are no permanent structures within a 300m radius from the project site. The PP has obtained a letter from Village Administrative Office (VAO), Thollamur stating that there are no structures situated within 300 Km radius.

FIG 3.2 GOOGLE MAP SHOWING ENVIRONMENTAL FEATURES LOCATED WITHIN 500m RADIUS FROM THE PROPOSED QUARRY SITE



3.3.1 METEOROLOGICAL ENVIRONMENT

Meteorological conditions prevailing in the buffer zone is given below

Climate

The climate of Viluppuram District is tropical. The period from the weather is pleasant during the period from November to January. The normal temperature varies between 18^0C to a maximum of 42^0C during summer, whereas the hottest climate experiences from March to May with mercury reaching 38.5°C at the highest.

Rainfall

Viluppuram district generally experiences hot and humid climate conditions. The district receives rain under the influence of both southwest and northeast monsoons. Most of the precipitation occurs in the form of cyclonic storm caused due to depressions in Bay of Bengal chiefly during NE monsoon period. The SW monsoon is highly erratic and summer rains are negligible. Rainfall of this area is about 800 mm to 900 mm during the both NE & SW monsoons. The excess rainfall is 192% (Source: Mausam.imd.gov.in)

Rainfall received from 2017 to 2021 is given below.

Table 3.2 Rainfall data

Actual Rainfall in mm					Normal rainfall in mm
2022	2023	2024	2025	2026	
200	200	319.3	72.1	18.4	1060

Relative Humidity

The relative humidity, in general around the year is between 55 and 65% in most parts of the district, except during the north-east monsoon season when it is over 65%. However, the coastal areas will be comparatively more humid.

Seismic information

The study area falls in Zone II, which comes under the least active zone. The seismic map of India is given as Fig 3.2.

FIG 3.3 SEISMIC MAP OF INDIA

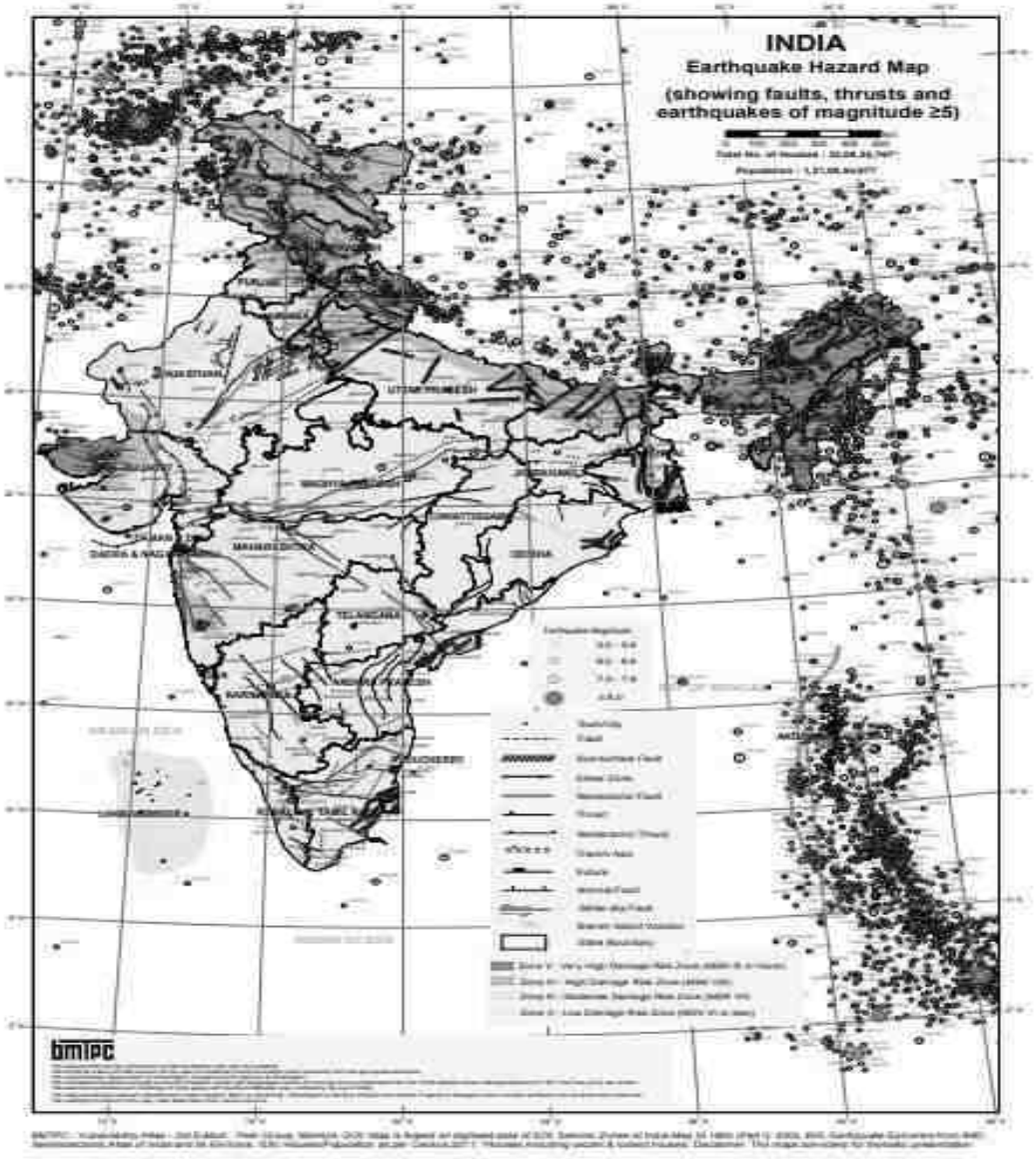
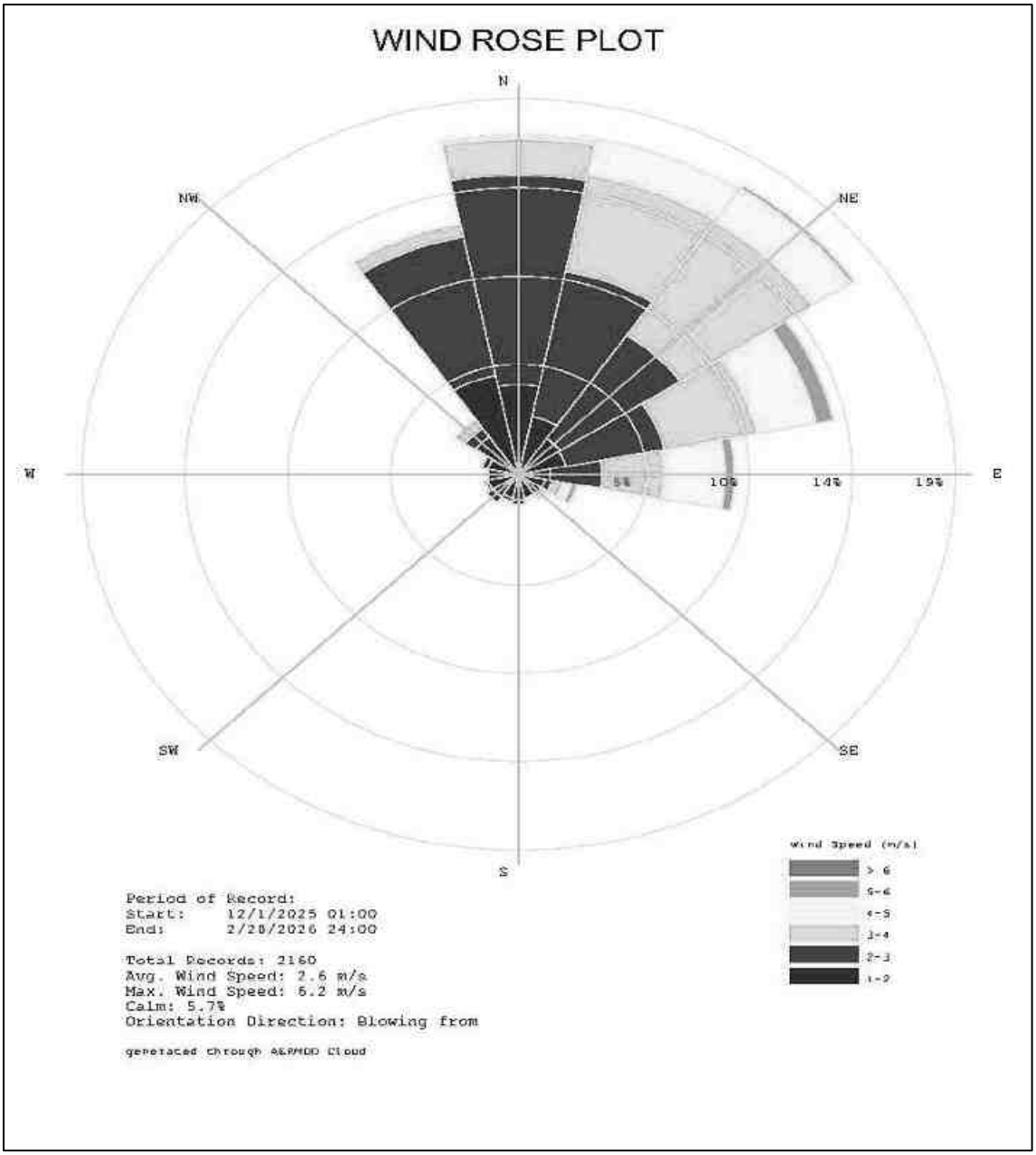


FIG 3.4 WIND ROSE PLOT DURING DECEMBER 2025 TO FEBRUARY 2026



Meteorological data of the project area

The meteorological data collected in the study area from December 2025 to February 2026 which includes Temperature, Wind speed, Wind direction and Relative humidity.

The predominant wind blows from West. The temperature of the area is reported to be 24.4°C and 27.1°C during summer.

AMBIENT AIR MONITORING DATA

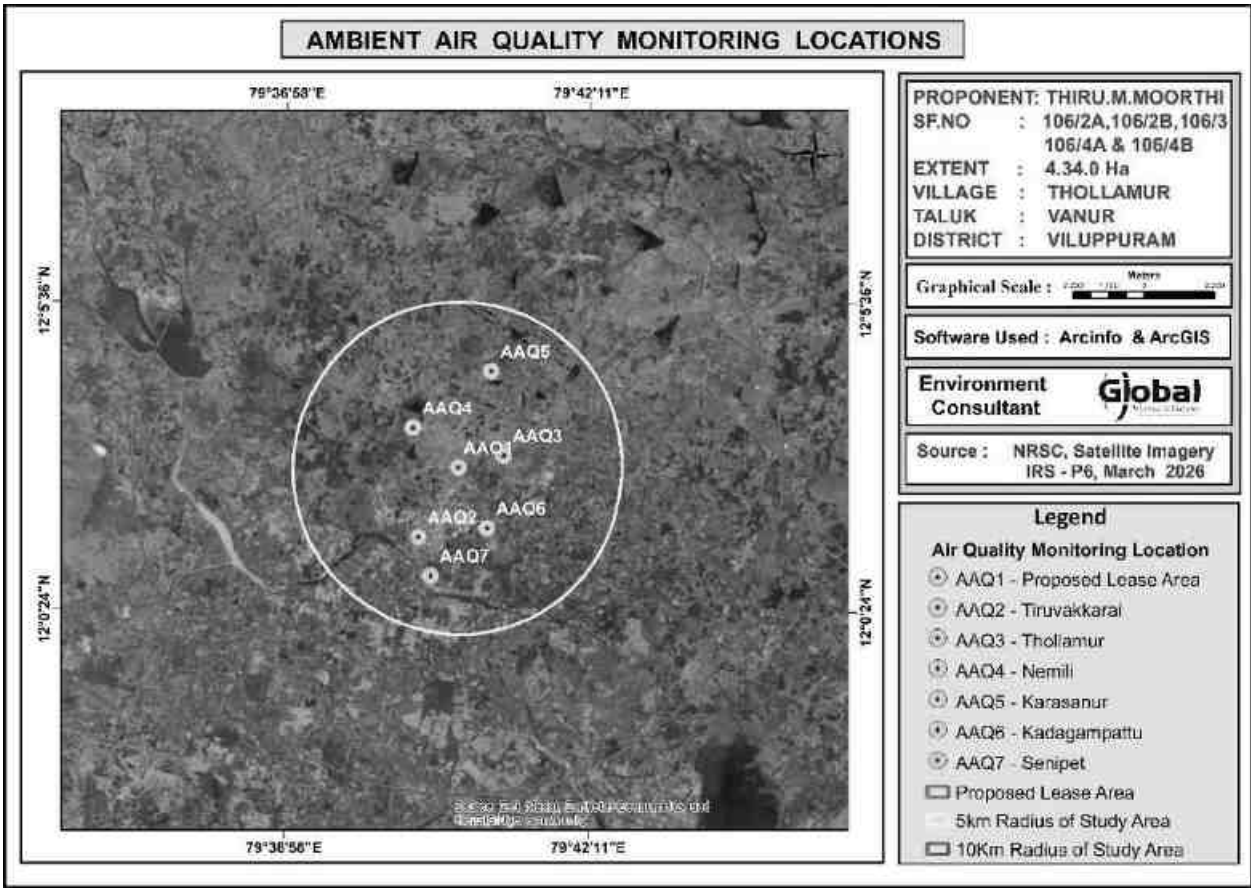
Ambient air quality monitoring has been carried out in 7 locations. One in the core zone and remaining six locations in the buffer zone areas. Monitoring locations have been chosen such that the measurement represents the overall air condition prevailing in the area. The study area represents mostly 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 3.3: Details Of Ambient Air Quality Monitoring Locations				
S. No.	**Station Code**	**Locations**	**Distance & Direction**	**Coordinates**
1	AAQ 1	Proposed Lease Area	Core Zone	12° 2'49.10"N & 79°39'55.31"E
2	AAQ 2	Tiruvakkarai	2.32 km (SW)	12° 1'37.88"N & 79°39'18.41"E
3	AAQ 3	Thollamur	930 m (E)	12° 2'54.07"N & 79°40'28.91"E
4	AAQ 4	Nemili	1.47 km (NW)	12° 3'25.32"N & 79°39'18.65"E
5	AAQ 5	Karasanur	2.52 km (N)	12° 4'12.65"N & 79°40'19.01"E
6	AAQ 6	Kadagampattu	1.78 km (SE)	12° 1'49.25"N & 79°40'21.16"E
7.	AAQ 7	Senipet	3.34 km (S)	12° 0'57.79"N & 79°39'25.94"E

FIG 3.5 AMBIENT AIR MONITORING LOCATIONS



The concentrations of various air pollutants at the 6 locations are given below. For all the components in the table, the unit are in $\mu g/m^3$.

Table.3.4 Results of Air sampling Analysis in 6 locations

Station ID	Min	Max	Avg.
Particulate matter PM-$_{2.5}$ ($\mu g/m^3$)			
AAQ-1	30.6	37.3	33.6
AAQ-2	22.2	26.8	24.4
AAQ-3	19.7	29.7	23.4
AAQ-4	21.9	30.8	25.3
AAQ-5	22.0	32.4	27.5
AAQ-6	23.9	33.5	28.4
AAQ-7	25.5	37.6	28.6
CPCB NAAQS 2009 for PM $_{2.5}$ - 60 $\mu g/m^3$			
Particulate matter PM-$_{10}$ ($\mu g/m^3$)			
AAQ-1	63.7	77.6	70.1
AAQ-2	49.1	59.2	54.0
AAQ-3	43.0	54.8	50.0
AAQ-4	47.4	58.7	21.7
AAQ-5	50.4	64.5	55.6
AAQ-6	52.7	67.5	59.5
AAQ-7	54.5	68.6	59.6
CPCB NAAQS 2009 for PM $_{10}$ - 100 $\mu g/m^3$			
Sulphur Di-oxide as SO_2 ($\mu g/m^3$)			
AAQ-1	5.8	7.2	6.6
AAQ-2	4.3	6.6	5.4
AAQ-3	3.9	6.4	4.9
AAQ-4	4.8	7.1	5.7
AAQ-5	5.1	7.5	5.9
AAQ-6	4.9	9.5	6.9
AAQ-7	5.3	7.7	6.4
CPCB NAAQS 2009 for SO_2 – 80 $\mu g/m^3$			
Oxide of Nitrogen as NO_2 ($\mu g/m^3$)			
AAQ-1	12.5	17.1	14.5
AAQ-2	11.1	13.4	12.3
AAQ-3	8.2	10.7	9.2
AAQ-4	9.2	11.2	10.1
AAQ-5	9.8	12.8	10.9
AAQ-6	10.2	14.9	12.0
AAQ-7	10.4	14.3	11.8
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 A1 - PROPOSED LEASE AREA

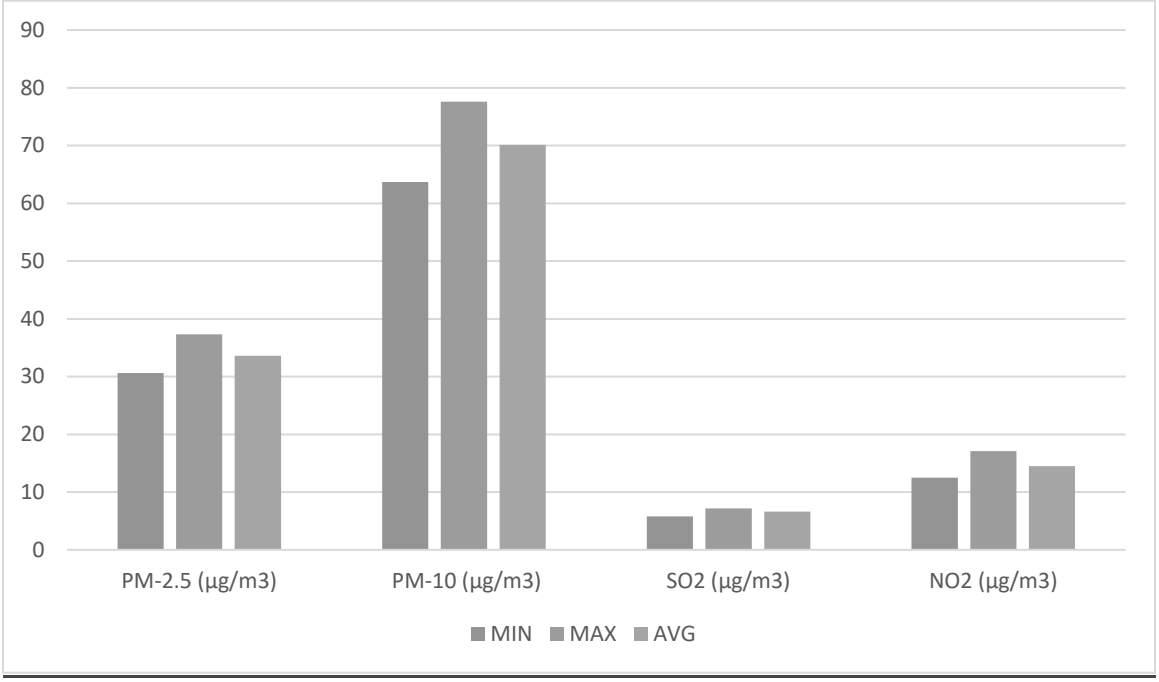


FIG 3.7 AMBIENT AIR QUALITY DATA A2 - THIRUVAKKARAI VILLAGE

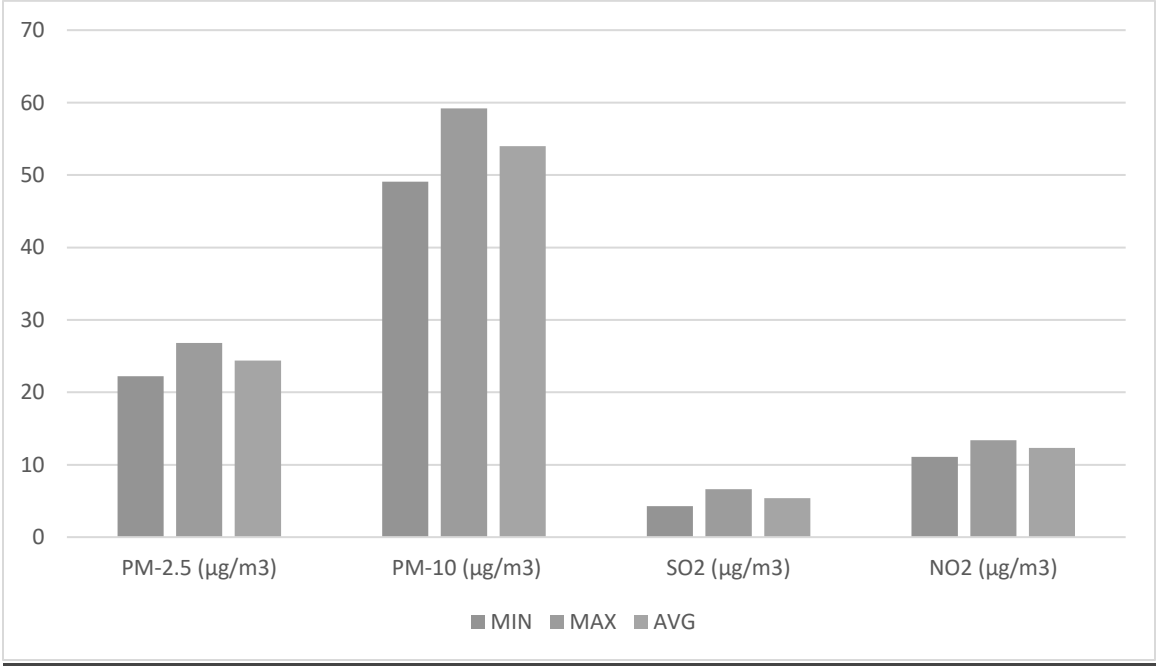


FIG 3.8 AMBIENT AIR QUALITY DATA A3 - THOLLAMUR VILLAGE

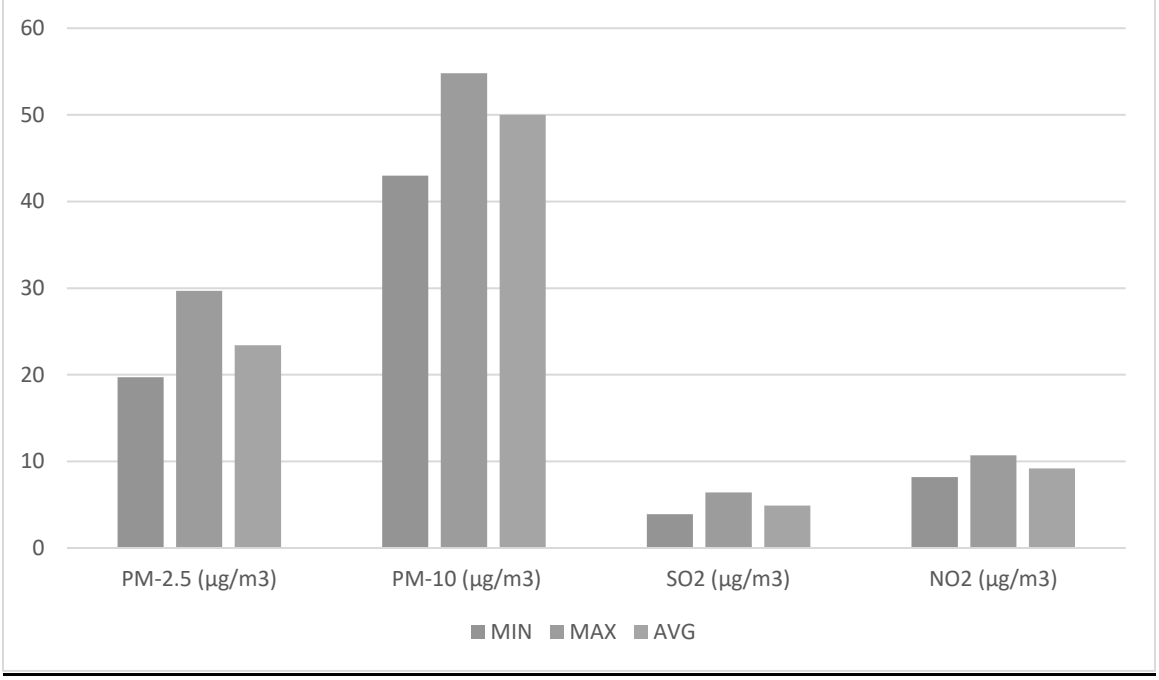


FIG 3.9 AAQ DATA A4 – NEMILI VILLAGE

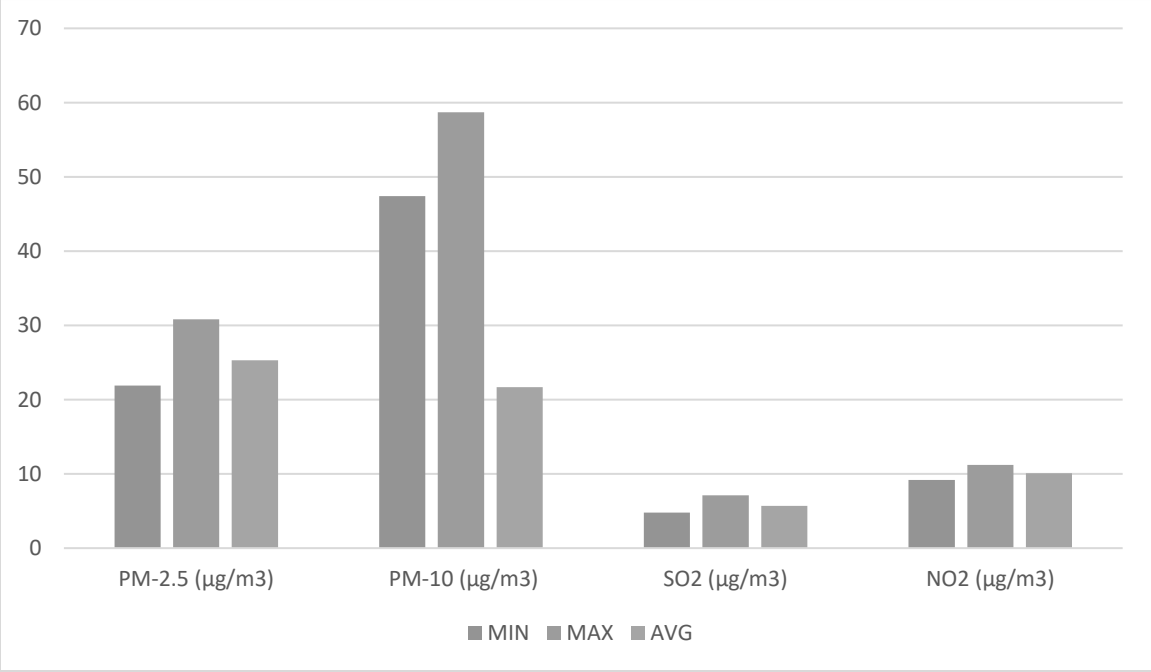


FIG 3.10 AMBIENT AIR QUALITY DATA A5 - KARASANUR VILLAGE

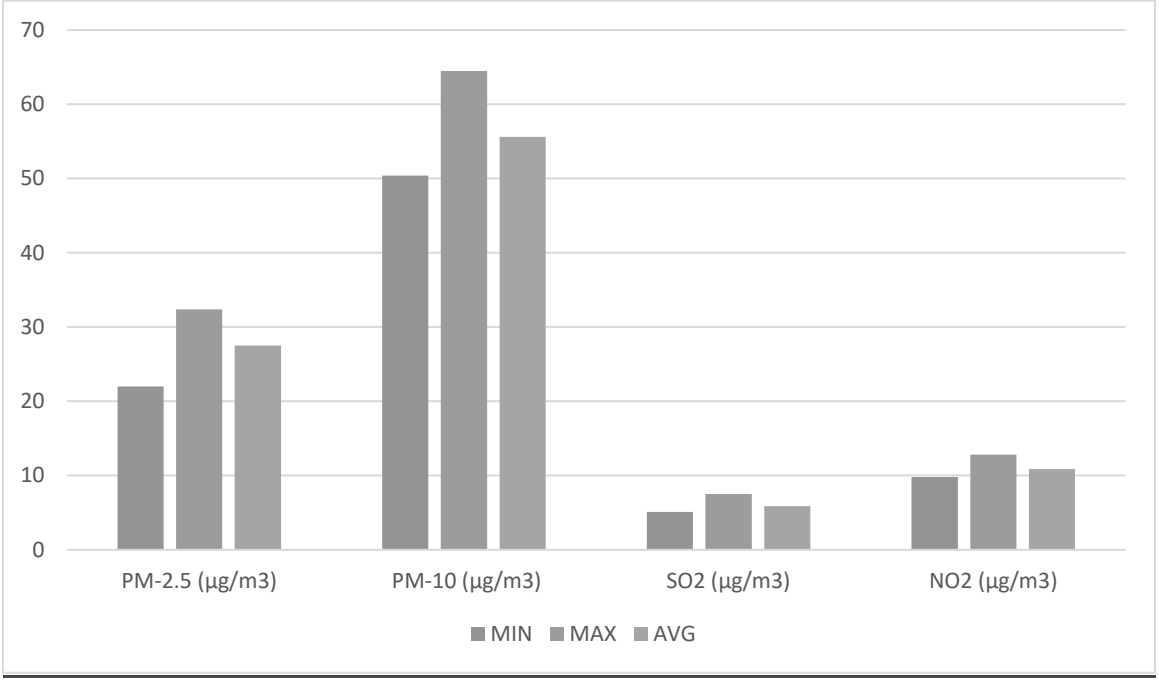


FIG 3.11 AMBIENT AIR QUALITY DATA A6 - KADAGAMPATTU VILLAGE

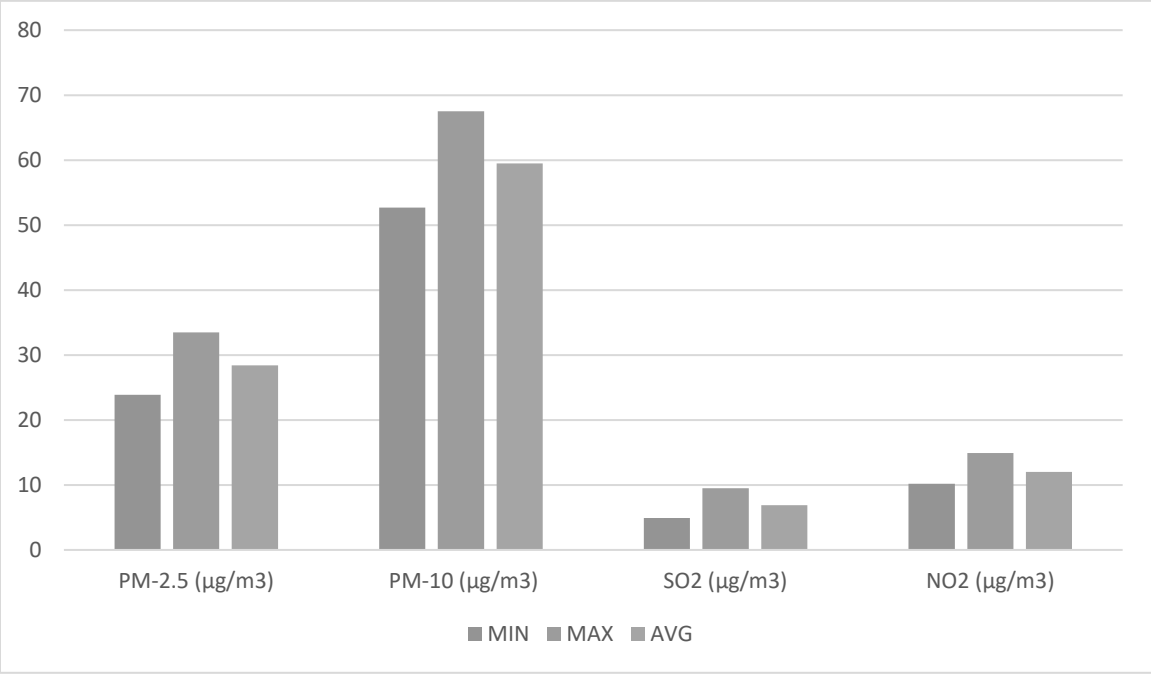
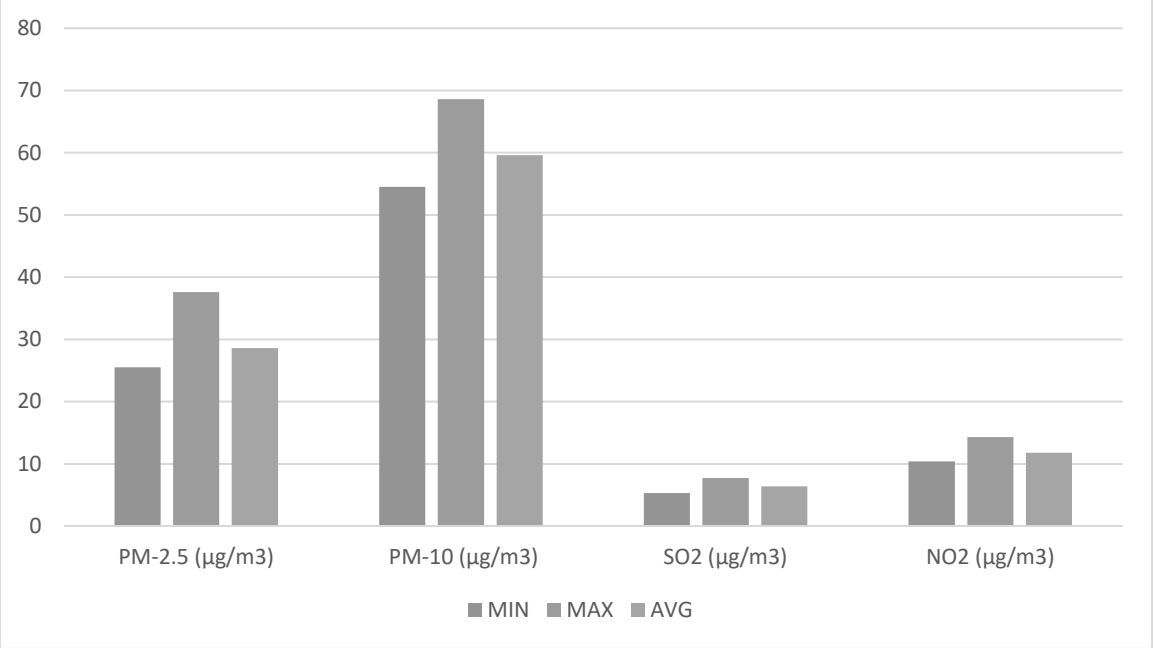


FIG 3.12 AMBIENT AIR QUALITY DATA A7 - SENIPET VILLAGE



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.

3.3.2 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.

Surface Water

There is tank located is located at a distance of 700 m in Northeast direction of lease area. 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.

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 seaven (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.

Sampling Locations

Two (2) 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 3.11.

The monitoring locations were selected based on:

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

Water bodies nearby

Table 3.5 Water Sampling Locations

S.NO	Location Code	Monitoring Locations	Latitude and longitude
Surface Water			
1	SW1	Sangrabarani River - upstream	12° 1'37.25"N & 79°38'41.08"E
2	SW2	Sangrabarani River – downstream	12° 0'43.96"N & 79°39'36.42"E
1	GW1	Proposed Lease Area	12° 2'49.10"N & 79°39'55.31"E
2	GW2	Tiruvakkarai	12° 1'37.88"N & 79°39'18.41"E
3	GW3	Thollamur	12° 2'54.07"N & 79°40'28.91"E
4	GW4	Nemili	12° 3'25.32"N & 79°39'18.65"E
5	GW5	Karasanur	12° 4'12.65"N & 79°40'19.01"E
6	GW6	Kadagampattu	12° 1'49.25"N & 79°40'21.16"E
7	GW7	Senipet	12° 0'57.79"N & 79°39'25.94"E

FIG 3.13a BASE MAP OF GROUND WATER SAMPLING LOCATIONS

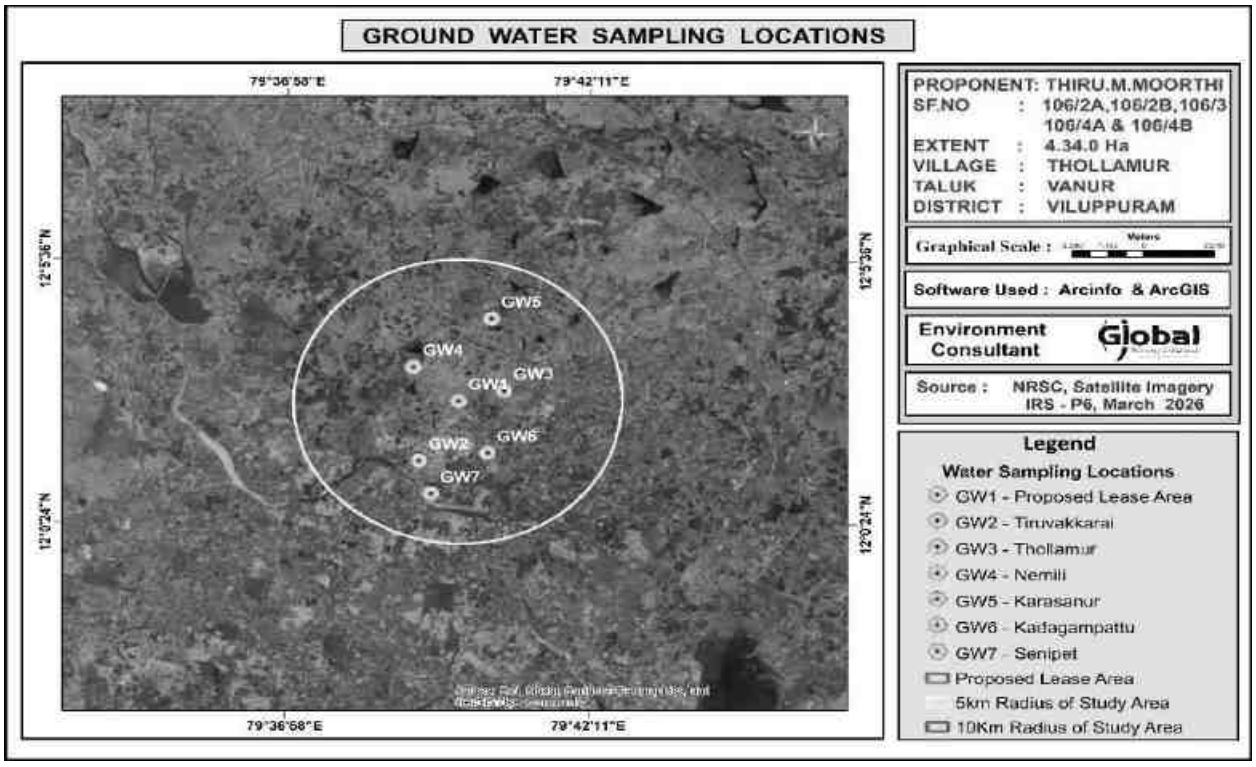


FIG 3.13b BASE MAP OF SURFACE WATER SAMPLING LOCATIONS

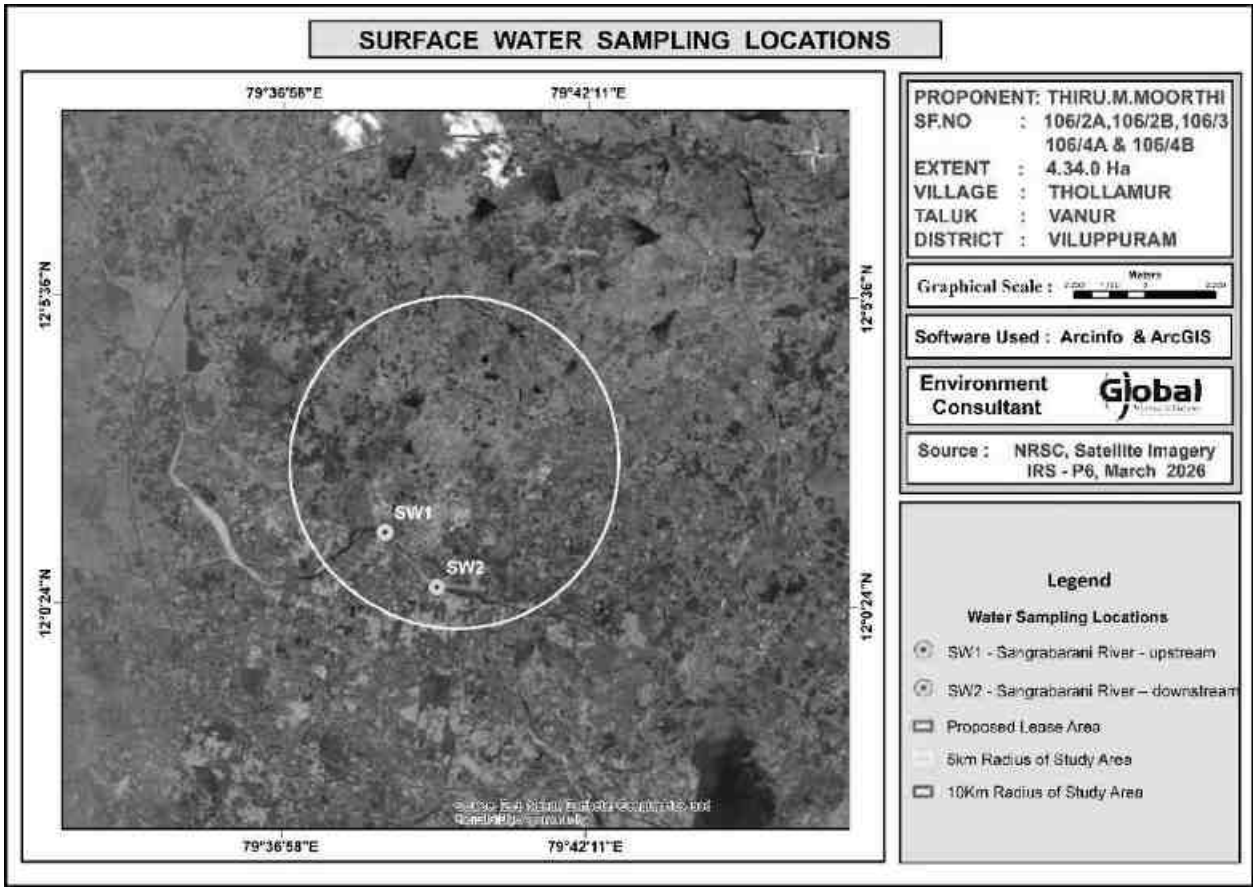


Table 3.6 Surface Water Analysis Results

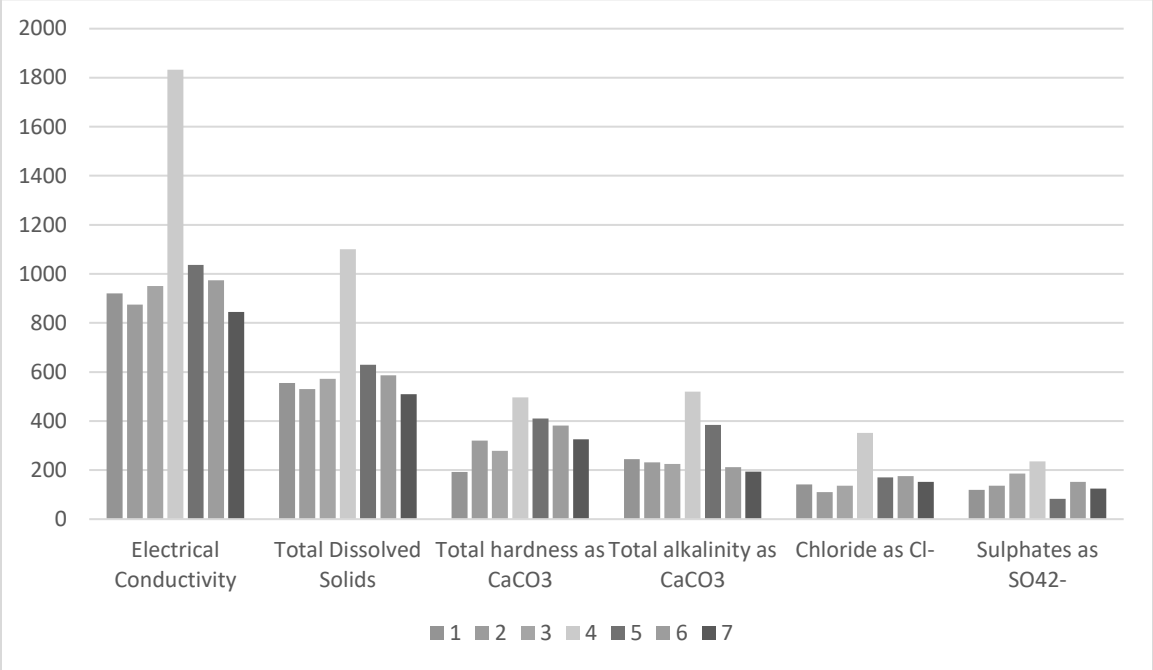
Sr.No	Parameter	Unit	SW1	SW2	Surface water standard s (IS 2296 Class-A)
1	Odour	-	AGREEABLE	AGREEABLE	-
2	Turbidity	NTU	<1	<1	1
3	pH at 25 ˚C	-	7.24	7.39	6.5-8.5
4	Electrical Conductivity	µs/cm	612	712	-
5	Total Dissolved Solids	mg/l	372	436	500
6	Total hardness as $CaCO_3$	mg/l	190	236	300
7	Calcium as Ca	mg/l	49.6	60.8	80.10
8	Magnesium as Mg	mg/l	15.8	20.2	24.28
9	Calcium as $CaCO_3$	mg/l	124	152	-
10	Magnesium as $CaCO_3$	mg/l	66.0	84.0	-
11	Total alkalinity as $CaCO_3$	mg/l	125	156.0	-
12	Chloride as Cl^-	mg/l	146	170.0	250
13	Free Residual chlorine as Cl^-	mg/l	BDL (D.L - 0.2)	BDL (D.L - 0.2)	0.2
14	Sulphates as SO_4^{2-}	mg/l	56.8	90.7	400
15	Iron as Fe	mg/l	0.07	0.12	0.3
16	Nitrate as NO_3	mg/l	4.26	5.98	20
17	Fluoride as F	mg/l	0.55	0.62	1.5
18	Manganese as Mn	mg/l	BDL (D.L - 0.05)	BDL (D.L - 0.05)	0.1
19	COD	mg/l	BDL (D.L - 4.0)	BDL (D.L - 4.0)	-
20	BOD	mg/l	BDL (D.L - 2.0)	BDL (D.L - 2.0)	2
21	TSS	mg/l	10	16	-
22	DO		6.3	6.1	6

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

Table 3.7 Results of Ground Water sampling Analysis in 6 locations								Specification/ Limit (As per IS:10500: 2012)	
	GW1	GW2	GW3	GW4	GW5	GW6	GW7	Desirable	Permissible
Odour	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	Agreeable	AGREEABLE	AGREEABLE	Agreeable	Agreeable
Turbidity	<1	<1	<1	<1	<1	<1	<1	Agreeable	Agreeable
pH at 25 ˚C	7.32	7.44	7.21	7.56	7.29	7.14	7.49	6.5 - 8.5	No Relaxation
Electrical Conductivity	920.5	874.6	950	1832	1036	974	845	1	5
Total Dissolved Solids	555	530	572	1100	630	586	510	500	2000
Total hardness as $CaCO_3$	192	320	279	496	410	382	326	1	15
Calcium as Ca	34.5	72.8	76.0	124	75.2	71.2	62.4	200	600
Magnesium as Mg	25.4	33.1	21.4	44.6	53.3	49.0	40.8	200	600
Calcium as $CaCO_3$	86.2	182	190	310	188	178	156	75	200
Magnesium as $CaCO_3$	106	138	89.0	186	222	204	170		
Total alkalinity as $CaCO_3$	245	232	225	520	384	212	194		
Chloride as Cl^-	142	110	136	352	170	176	152	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)	30	100
Sulphates as SO_4^{2-}	120	136	186	235	82.5	152	125	45	No Relaxation
Iron as Fe	0.12	0.07	0.09	0.05	0.04	0.11	0.09	200	400
Nitrate as NO_3	3.26	4.21	3.25	2.74	2.24	4.26	3.98	1	No Relaxation
Fluoride as F	0.54	0.49	0.52	0.56	0.37	0.58	0.48	0.1	0.3
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)	Not Specified	Not Specified

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 3.14 VALUES OF FEW COMMON PARAMETERS IN WATER ANALYSIS



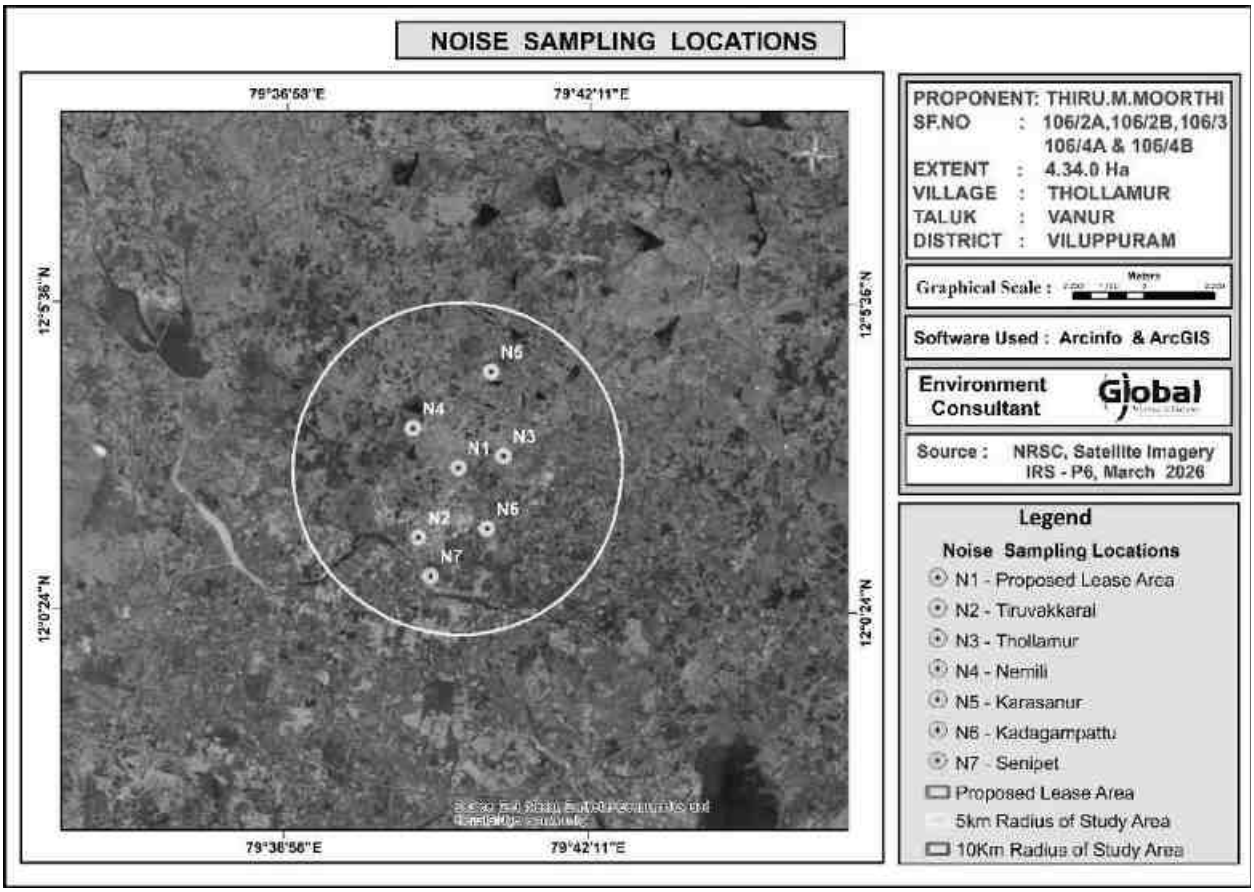
All the values were found to be within the permissible limits.

3.3.4 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

FIG 3.15 NOISE MONITORING LOCATIONS



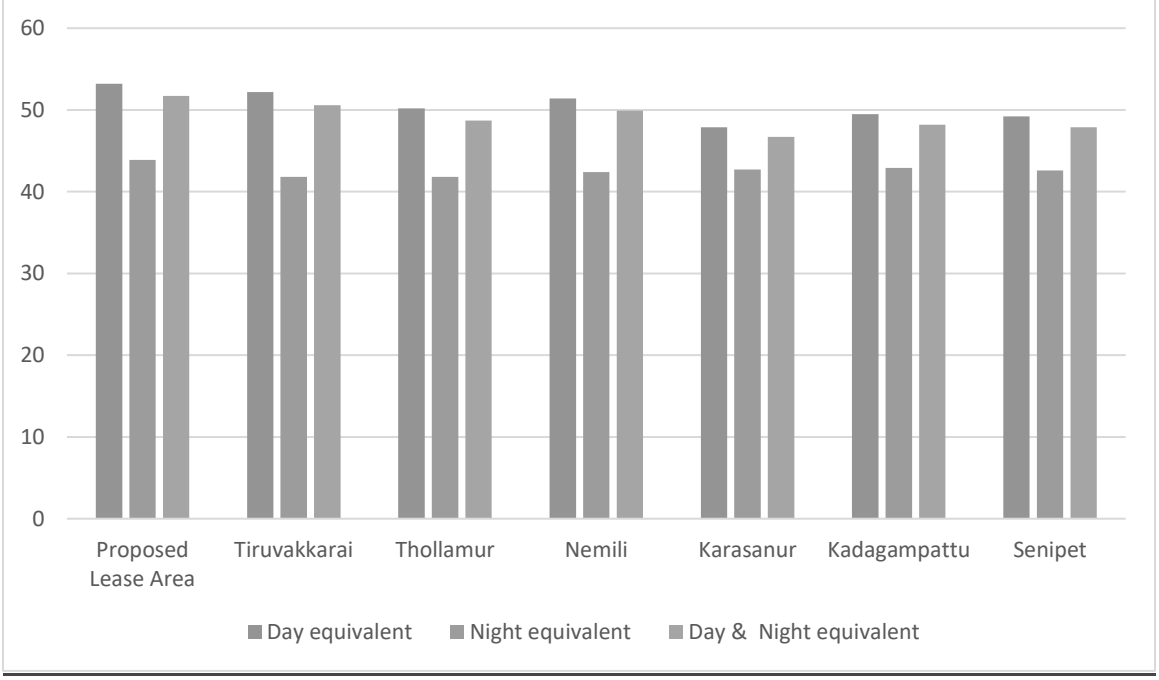
The results are given in Table below.

Table 3.8 Noise monitoring results

S. No	Location	Day equivalent	Night equivalent	Day & Night equivalent	Day equivalent limits by CPCB	Night equivalent limits by CPCB
1	Proposed Lease Area	53.2	43.9	51.7	55	45
2	Tiruvakkarai	52.2	41.8	50.6		
3	Thollamur	50.2	41.8	48.7		
4	Nemili	51.4	42.4	49.9		
5	Karasanur	47.9	42.7	46.7		
6	Kadagampattu	49.5	42.9	48.2		
7	Senipet	49.2	42.6	47.9		

The results are plotted as below.

FIG 3.16 DAY AND NIGHT EQUIVALENT VALUES IN 7 LOCATIONS



All the values are found to be within CPCB norms.

3.3.5 SOIL SAMPLING ANALYSIS

Soil samples have been collected from the mine lease area and 6 other locations from Thiruvakkarai , Thollamur, Nemili, Karasanur, Kadagampattu, Senipet Villages. The locations are shown in figure below.

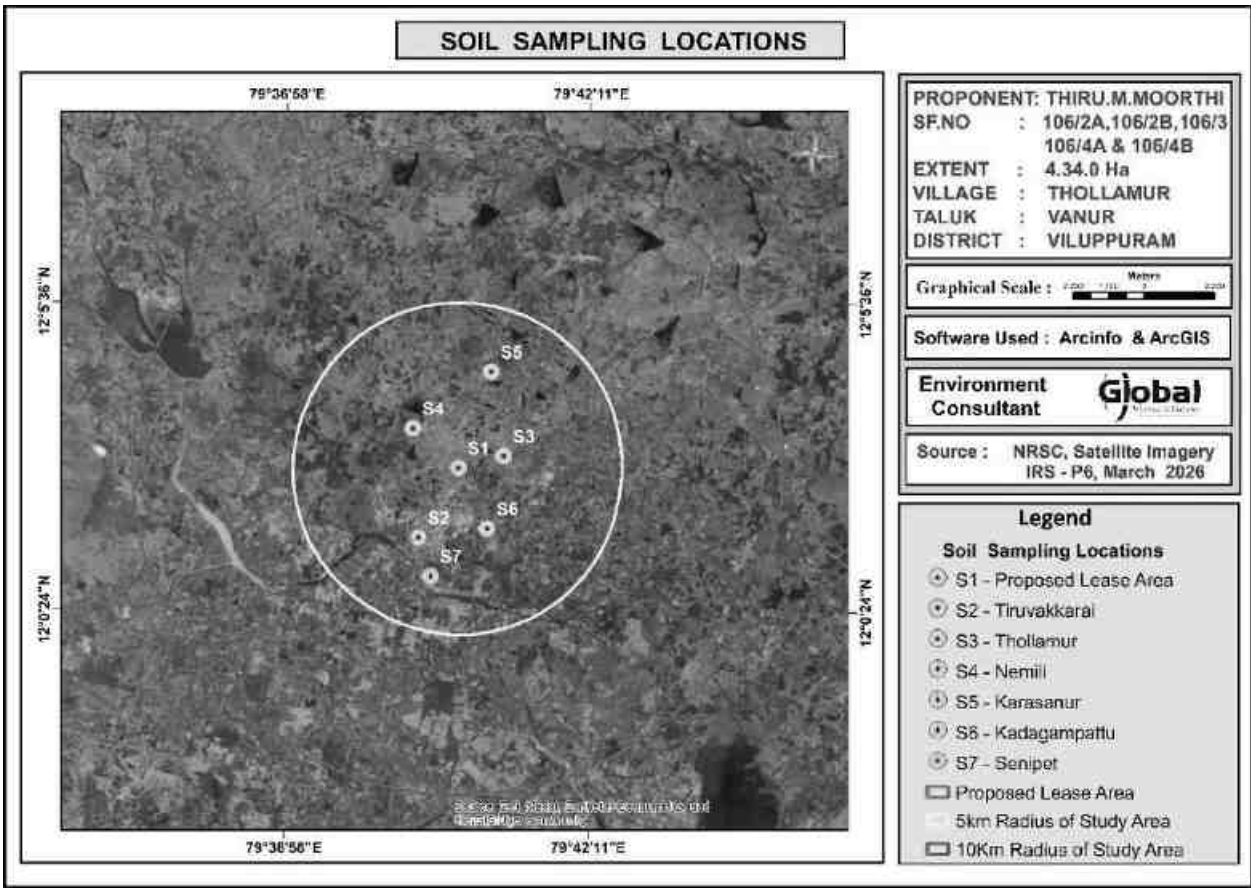


FIG 3.17 SOIL SAMPLING LOCATIONS

The results are summarized in the table below.

Table 3.9 Results of Soil Sample Analysis

S. No	Parameter	Unit	S1	S2	S3	S4	S5	S6	S7
1	pH at 25 °C	-	7.16	6.95	7.32	7.09	7.34	7.21	7.39
2	Electrical Conductivity	µmhos /cm	220	280	252	169	284	196	271
3	Dry matter content	%	93.46	90.41	96.58	97.39	94.44	97.69	94.36
4	Water Content	%	6.54	9.59	3.42	2.61	5.56	2.31	5.64
5	Organic Matter	%	0.72	0.69	0.52	0.85	0.72	0.39	0.44
6	Soil texture	-	Sandy Clay Loam	Sandy Loam	Clay Loam	Sandy Loam	Clay Loam	Loamy Sand	Sandy Clay Loam
7	Grain Size Distribution	%	55.62	65.9	35.24	68.97	30.62	75.48	52.25

	i. Sand								
8	ii. Silt	%	19.95	25.23	30.36	22.21	28.97	15.62	23.36
9	iii. Clay	%	24.43	8.87	34.40	8.82	40.41	8.90	24.39
10	Phosphorous as P	mg/kg	0.95	1.02	0.89	1.32	0.75	0.96	1.09
11	Sodium as Na	mg/kg	120	110.0	136	109.0	145	118	110
12	Potassium as K	mg/kg	105	95.6	112	92.8	115	106	98
13	Nitrogen and Nitregenous Compounds	mg/kg	142	128	152	125	159	138	132
14	Total Soluble Sulphate	%	BDL(D.L .0.02)	BDL(D.L .0.02)	BDL(D.L .0.02)	BDL(D.L .0.02)	BDL(D.L .0.02)	BDL(D.L .0.02)	BDL(D.L .0.02)
15	Porosity	%	42	40	45	39	46	41	40
16	Water Holding Cabacity	Inches /foot	38	36	40	35	42	37	36

3.3.6 BIOLOGICAL ENVIRONMENT

The biological study of the area has been conducted in order to understand the ecological status of the existing flora and fauna to generate baseline information and evaluate the probable impacts on the biological environment. The details are given below.

Flora in the study area

Field survey is done. 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. Also, data from the State Forest department is used.

Core Zone

During the field visit, it is observed that there are no national parks / Sanctuaries / forests in the 10km buffer area. The study area is devoid of any major plantations.

Table 3.10 Flora in Core Zone			
S.No.	**Scientific name**	**Vernacular/English name**	**Type of flora**
1	Calotropis gigantea	Erukku	Shrubs
2	Cassia auriculata	Aavarai	
3	Achyranthes aspera	Nayuruvi	

Buffer zone

Only common trees, shrubs, bushes, etc. are found. The list is given below.

Table 3.11 Flora in Buffer zone			
S.No.	**Scientific name**	**Vernacular/English name**	**Type of flora**
1	Azadirachta indica	Neem	Trees
2	Carica papaya	Papaya	
3	Mangifera indica	Mango	
4	Acacia leucophloea	Velamaram	
5	Acacia nilotica	Karu- velamaram	
6	Moringa oleifera	Murungai	
7	Tamarindus indica	Puli	
8	Tectona grandis	Theku	
9	Manilkara zapota	Sappota	
10	Musa paradisiaca	Valzhlai	
11	Borassus flabelliformis	Panna-maram	
12	Ficus benghalensis	Alamaram	
13	Ficus religiosa	Arasamaram	
14	Phyllanthus emblica	Nelli	
15	Calotropis gigantea	Yerukku	Shrubs
16	Cassia auriculata	Aavarai	
17	Ricinus communis	Aamanakku	
18	Tecoma stans	Arali	
19	Aloe vera	Kathalai	
20	Catharanthus roseus	Nithyakalyani	Herbs
21	Acalypha indica	Kuppaimeni	
22	Coccinia grandis	Kovai	Climbers
23	Cissus quadrangularis	Pirandai	
24	Jasminum angustifolium	malli	
25	Ziziphus oenoplia	Ilandai	
26	Cymbopogon	Kanam	Grasses
27	Cyperus rotundus	Kora grass	
28	Cynodon dactylon	Arugu	

Fauna in the study area

There is no specific Fauna found within ML area. The buffer zone Fauna in the area is studied by direct observation method. Secondary data collected from Forest department and the same is used in this report. People in the nearby locality were also consulted. The commonly found fauna in the area are given below.

Table 3.12 Fauna in buffer zone

S.No.	Scientific name	Common name	Type of fauna	Schedule to which the species belong
1	Canis familiaris	Common dog	Mammals	IV
2	Felis catus domesticus	Domestic cat		IV
3	Golunda ellioti	Indian bush rat		IV
4	Funambuus palmarum	Squirrel		IV
5	Lepus nigricollis	Indian hare		IV
6	Bos indicus	Domestic cow		IV
7	Common Crow	Corvus splendens	Birds	V
8	House Sparrow	Passer domesticus		IV
9	Common Myna	Acridotheres tristis		IV
10	Streptopelia chinensis	Pigeon		IV
11	Calotes versicolar	Lizard	Amphibia	IV
12	Ptyas mucosa	Snake		IV
13	Rana hexadactyla	Frog		IV

3.3.7 LAND USE

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 Latitude 12°02’42.92”N to 12°02’53.77”N and Longitude: 79°39’50.82”E to 79°39’58.81”E .

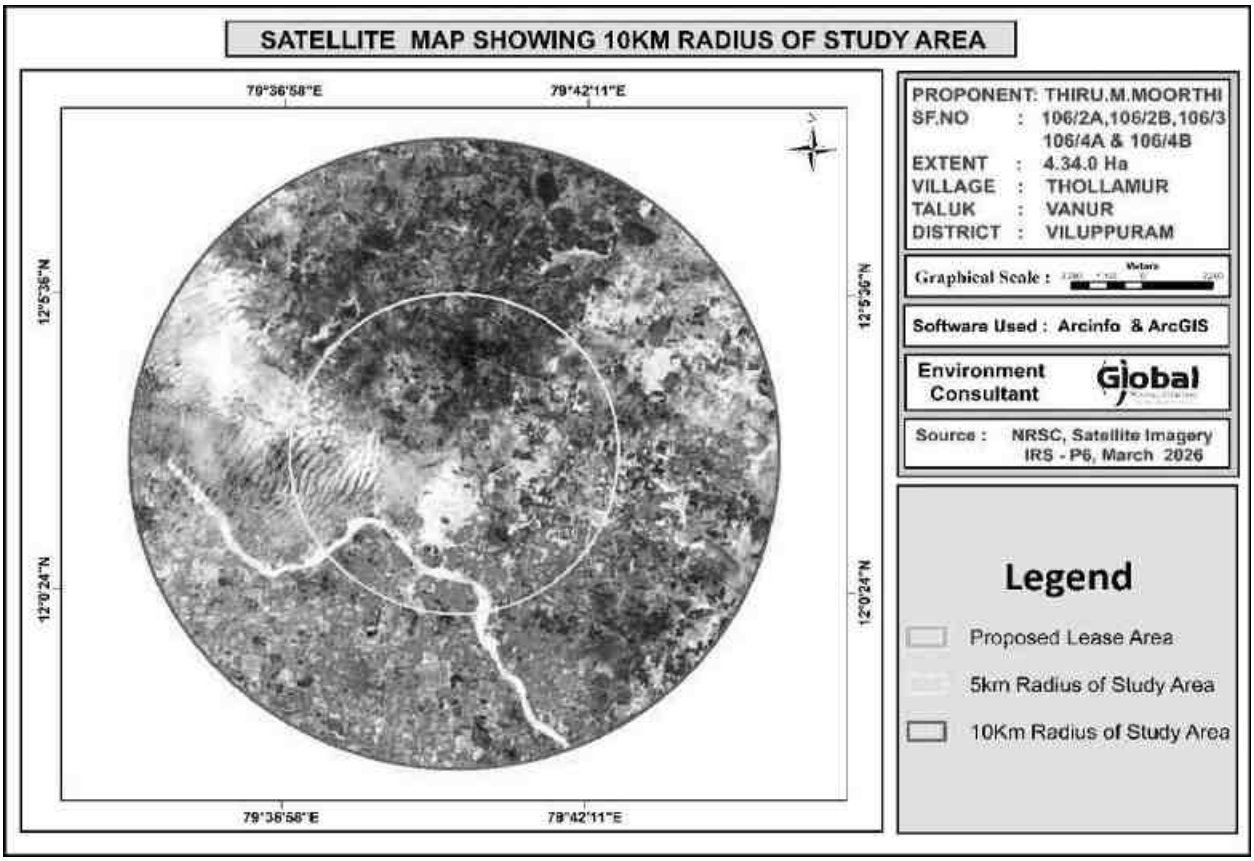


Figure No. 3.18: Remote Sensing Satellite Image

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.

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.

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.	classification
1	Plantations
2	Built-up Land
3	Crop Land
4	Existing Quarry
5	Land with Scrub
6	Land without Scrub Plantations
7	Salt Affected Land
8	Water Body

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

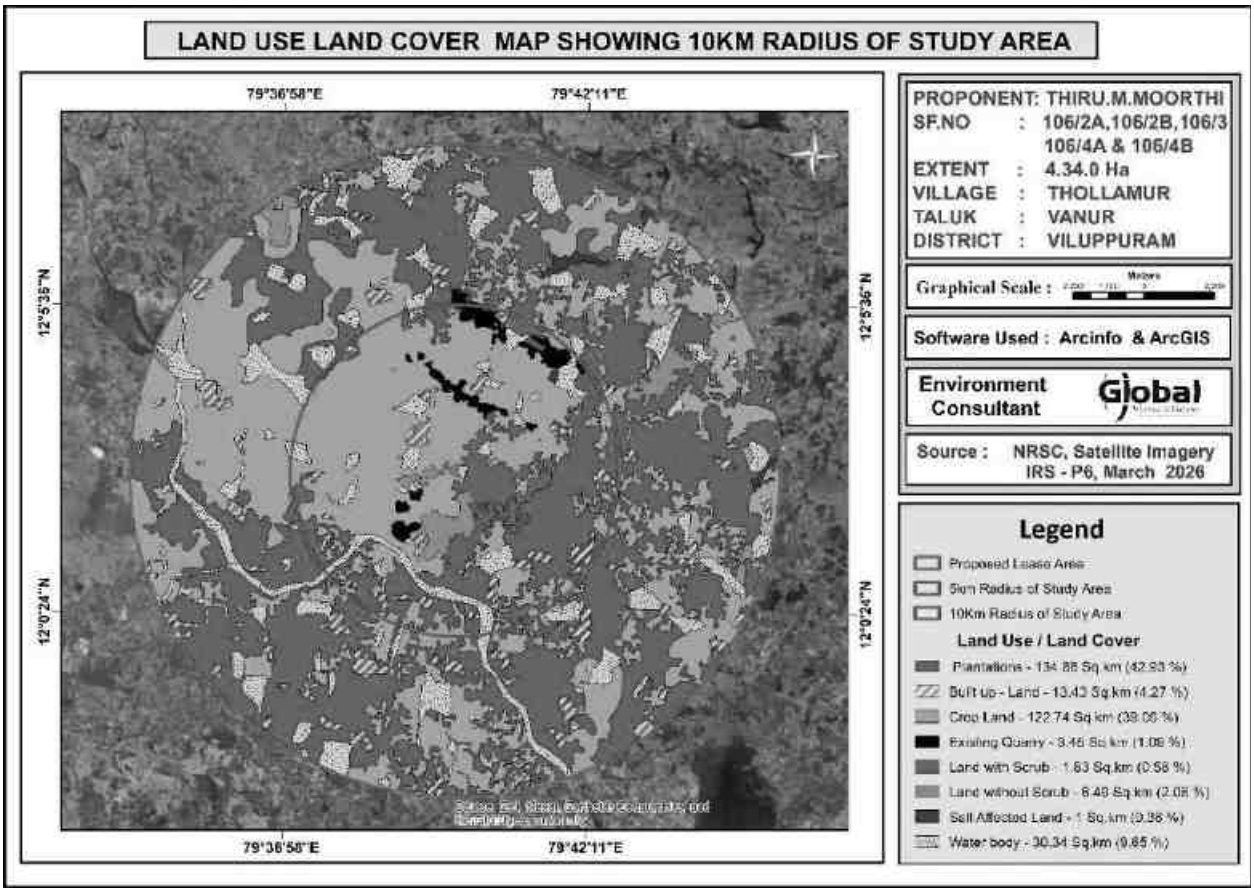
The existing land use pattern and land cover distribution of the whole acquired block, have been studied from the satellite imagery and subsequent ground checking during the field surveys.

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 Nalmukkal 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 landuse 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 322 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 3.19 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. Vanur 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 13.43 sq. km representing 4.27 % of the study 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.

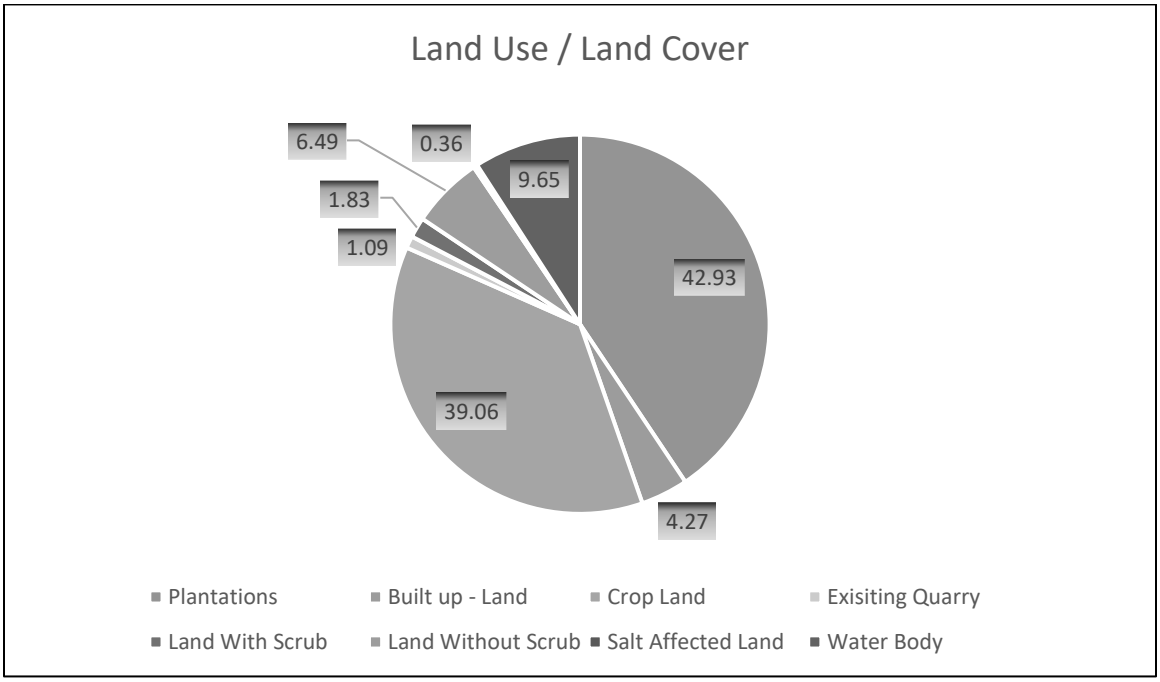
Most of the water bodies retain water for a shorter period after precipitation due to the soil constraint and hence go dry soon. Spatial extent of rivers, stream and water bodies is estimated at 30.34 sq.km and 9.65 %.

Existing Quarry

Existing Quarry 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 3.45 sq.km 1.09 %.

Table No. 3.14: Major Land Use Units of the Study Area in Percentage

S. No	Classification	Area in (sq.km)	Percentage (%)
1	Plantations	134.88	42.93
2	Built-up Land	13.43	4.27
3	Crop Land	122.74	39.06
4	Existing Quarry	3.45	1.09
5	Land with Scrub	1.83	0.58
6	Land without Scrub	6.49	2.06
7.	Salt Affected Land	1	0.36
8.	Water Body	30.34	9.65
Total		**314.16**	**100**



3.4 SOCIOECONOMIC ENVIRONMENT

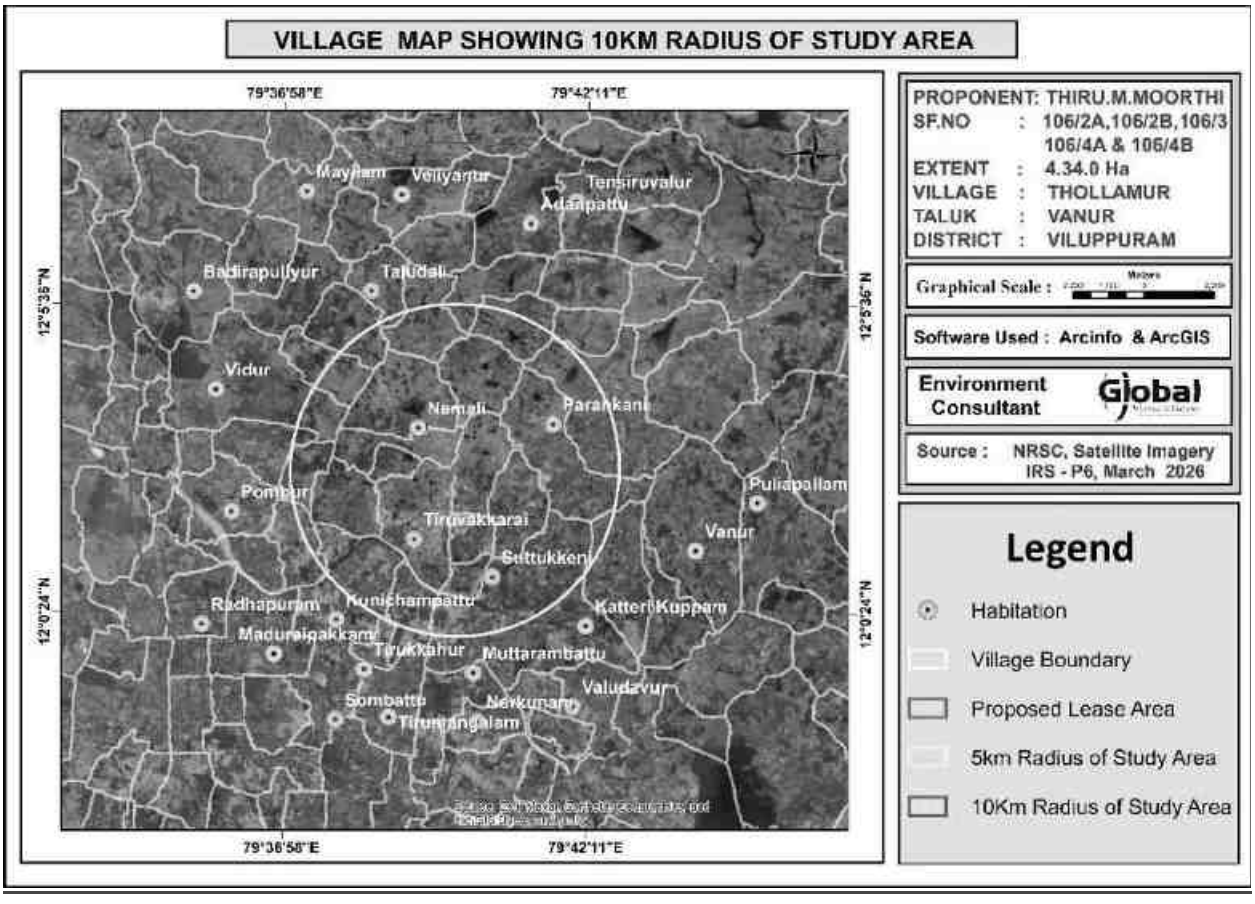
The socio-economic environment of the study area is studied by conducting primary sites through site visits and conducting sample surveys. The secondary data obtained from Census 2011 is also used. The following data area collected from secondary data:

- Demographic pattern.
- Health pattern
- Occupational structure.

3.4.1 DETAILS OF VILLAGES

The profile of the villages located in the study area is given in Fig 3.16 below.

FIG 3.20 VILLAGE MAP OF THE STUDY AREA



DETAILS OF VILLAGES

The project is located in Thollamur Village, Vanur Taluk, Villupuram District. The total population is 3,458,793 which comprise of 1,740,819 males and 1,718,054 females. There are 688 Village Panchayats and 928 Revenue Villages in the study area.

Table 3.15 Population profile of the study area-Thollamur Village

Particulars	No of Population	Percentage (%)
A. Population break-up by Gender		
Male Population	731	51.52
Female Population	688	48.48
Total	1419	100
B. Population break-up by Caste		
Scheduled Caste	916	64.56
Scheduled Tribes	31	2.18
Others	472	33.26
Total	1419	100
C. Literacy Level		
Male Literate Population	573	40.38
Female Literate Population	385	27.13
Male Illiterate	158	11.14
Female Illiterate	303	21.35
Total	1419	100
D. Occupational structure		
Main workers	595	41.93
Marginal workers	42	2.96
Total Workers	637	44.89
Total non-workers	782	55.11
Total	1419	100

The above table shows that the male and female population ratios are almost equal. Among the total population 2.18% belong to Scheduled Tribes, 64.56% are Scheduled Caste and the balance 33.26% people belong to other castes. Among the total population 67.51% of the people are literate. Among the total population 40.38% are literate males and 27.13% are literate females. This shows that the male literates are higher than the female literates. The results are plotted in figures below.

FIG 3.21 GENDER-WISE POPULATION DISTRIBUTION

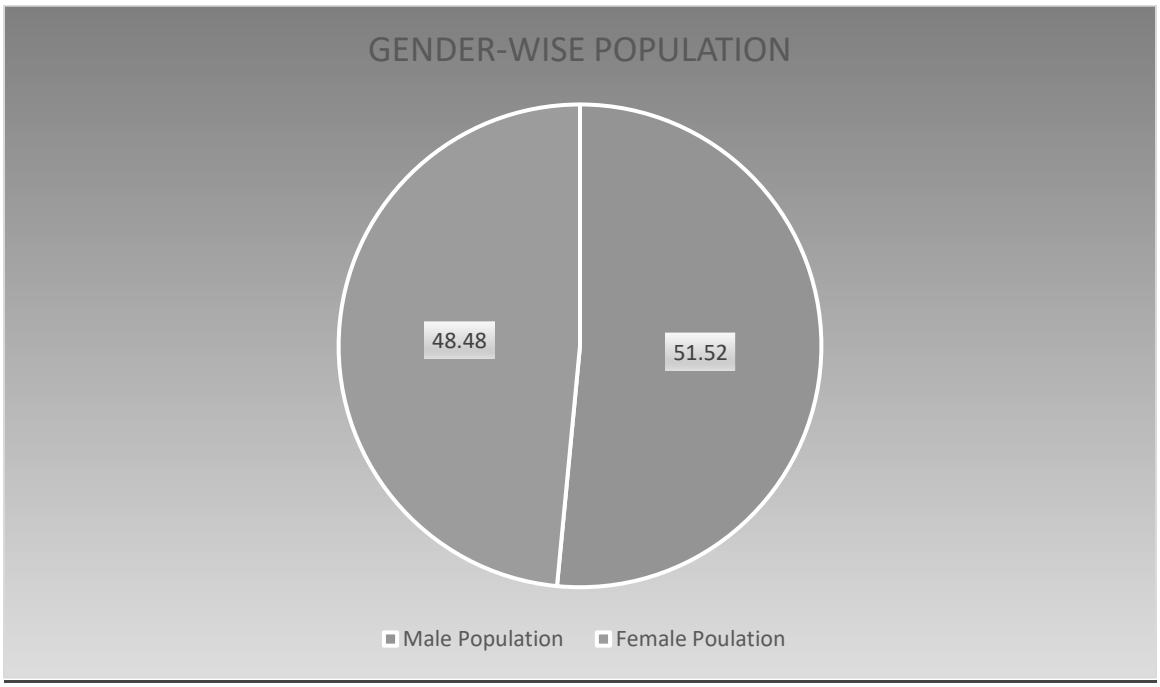


FIG 3.22 GENDER WISE LITERACY DISTRIBUTION

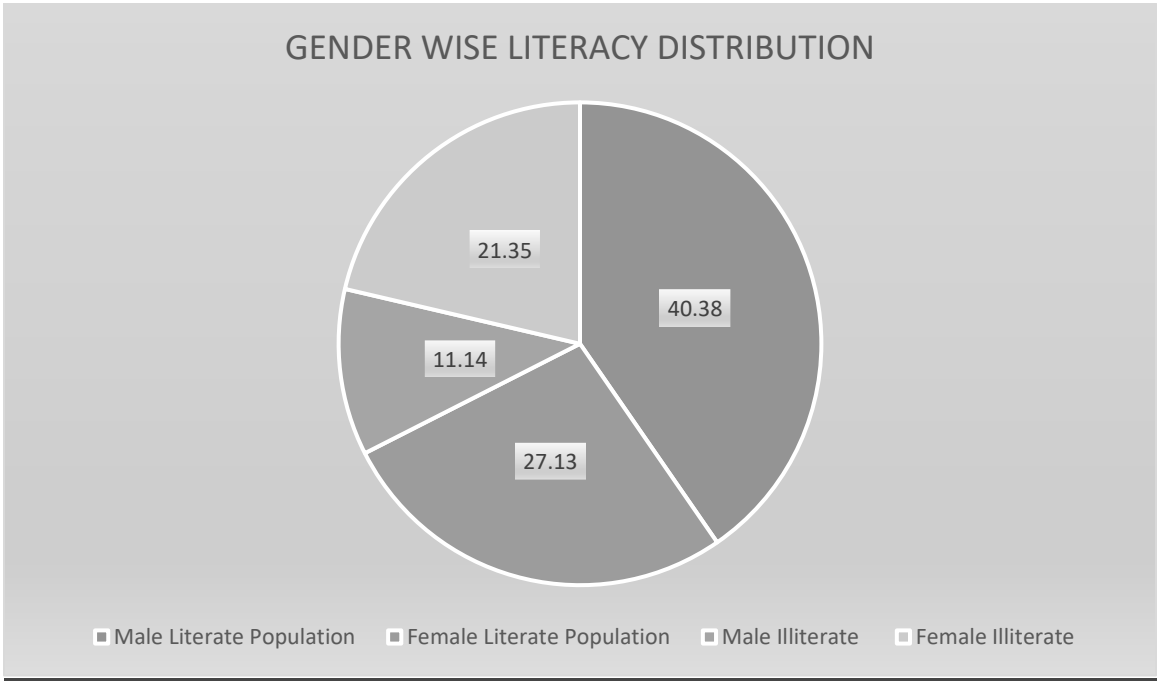
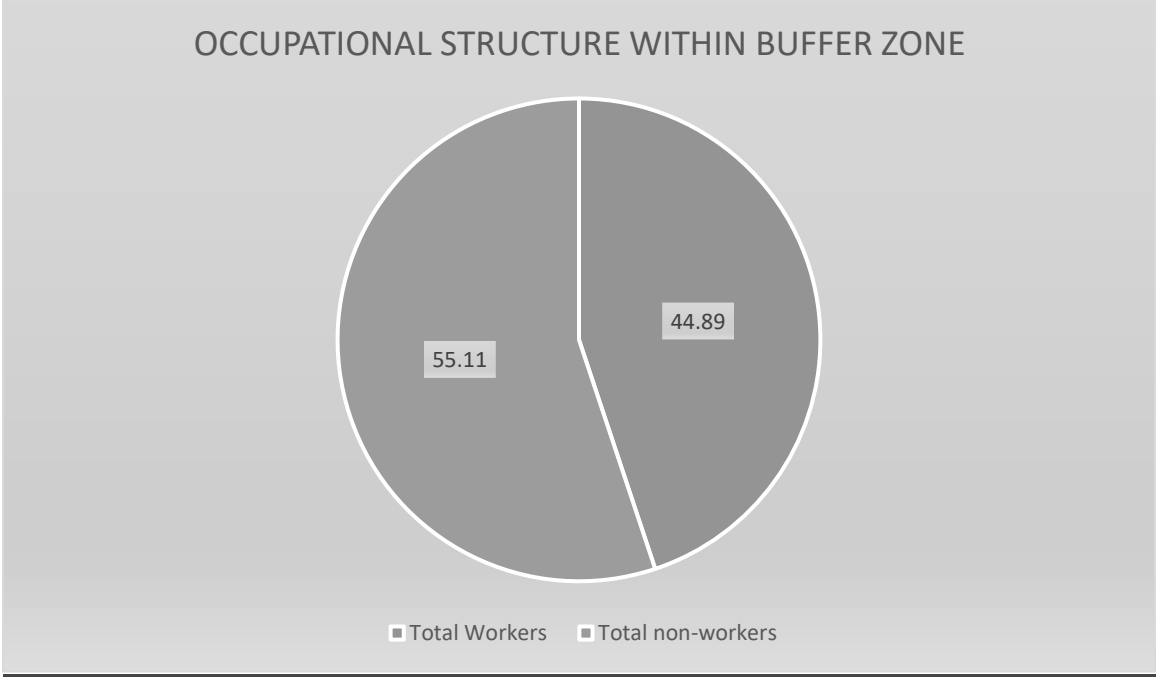


FIG 3.23 OCCUPATIONAL STRUCTURE WITHIN BUFFER ZONE



Infrastructure facilities in the study area

Education

Table 3.16 Educational infrastructure -10 km radius from proposed mine lease

S. No.	Particulars	Available in village (Nos)
1	Govt. Primary School	0
2	Govt. Middle School	1
3	Govt. Secondary School	0
4	Govt. Senior Secondary School	0
5	Govt. Arts and Science Degree College	0
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

Healthcare

In the study area, the following facilities are available.

Table 3.17 Medical Infrastructure-10 km radius from proposed mine lease		
S.No.	**Particulars**	**Available in village (Nos)**
1	Community Health Centre	1
2	Primary Health Centre	0
3	Primary Health Sub Centre	0
4	Maternity And Child Welfare Centre	0
5	TB Clinic	0
6	Hospital Allopathic	0

Other Infrastructure

The other infrastructure facilities available are given below.

Table 3.18 Other Infrastructure-10 km radius from proposed mine lease		
S.No.	**Particulars**	**Available in village**
1	Tap Water-Treated	45
2	Covered Well	15
3	Hand Pump	18
4	Tube Wells/Borehole	16
5	Post office	9
6	Public bus services	30
7	Commercial Bank	16
8	Cooperative bank	24

Sample Survey

The expert visited 6 villages in the study area namely Tiruvakkarai, Thollamur, Nemili, Karasanur, Kadagampattu, Senipet villages. 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, primary health centers and Ramanathapuram 4.94km (E). 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 Ramanathapuram Village which is about 4.94km (E) from the lease area. Major schools with higher secondary and senior secondary schools are located in Ramanathapuram. The major Vanur Union located in the area is Villupuram. Facilities like petrol pump stations, ATM facility are available in Thiruvakkarai Village.

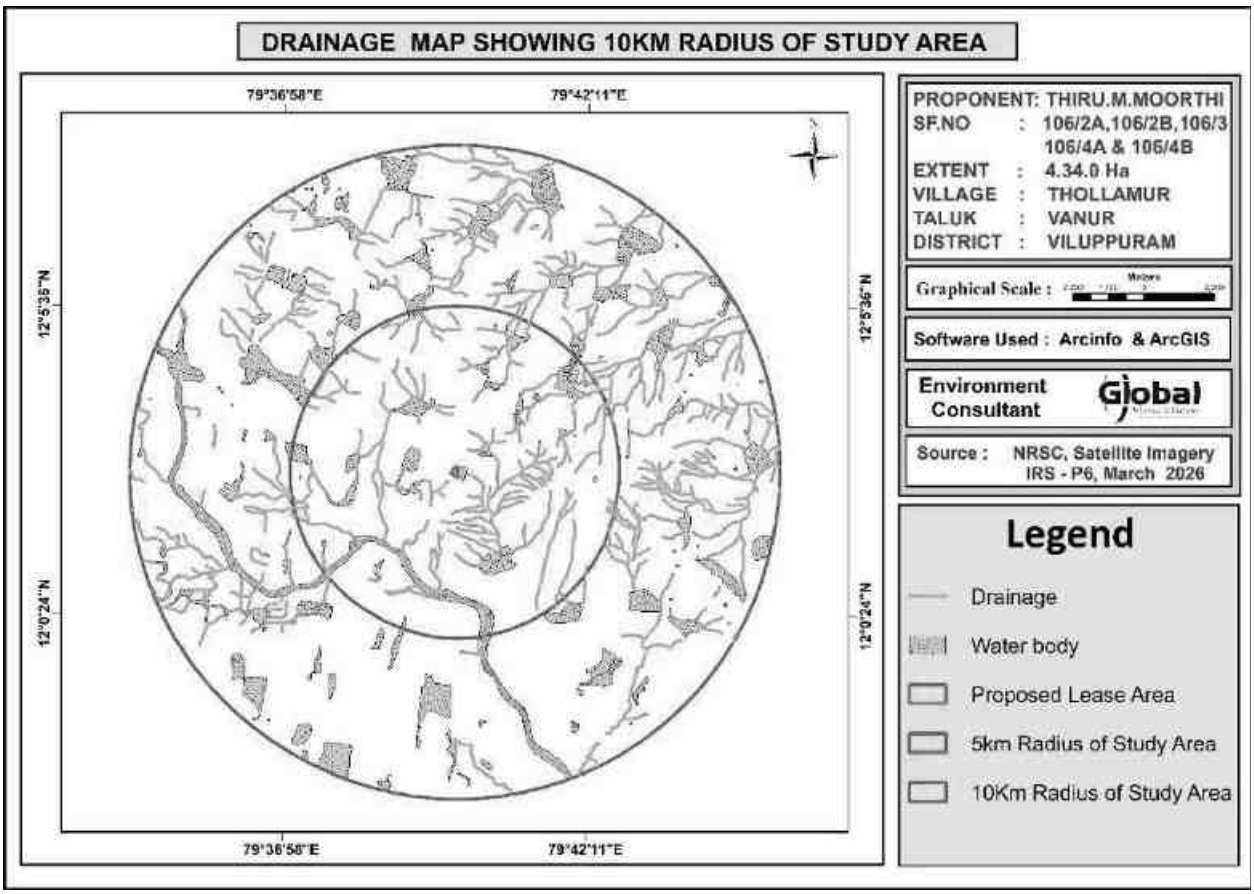
3.4.2 HYDROGEOLOGY OF THE STUDY AREA

There There is Eri poramboke Situated on Eastern side and is 50m safety distance maintained, There is Vaikkal passing on north side and is 50m safety distance maintained.

HYDROGEOLOGICAL STUDY

To assess the hydrogeological condition of the surrounding proposed mine lease area. The study area is located in Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State is considered to understand the nature of the general hydrogeological conditions of the surrounding proposed mine lease area.

FIGURE 3. 24 10 KILOMETER RADIUS OF THE DRAINAGE MAP



PHYSIOGRAPHY AND DRAINAGE

Physiography: The area applied for quarry lease is exhibits almost plain topography covered by rough stone and Gravel formation. The massive Charnockite formation is noticed below 2m ground level and gentle towards Southeastern side of the area, the altitude of the area is above 91m 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. There is Vada Penniyaru River is located at a distance of 10.9 km in Southeast direction of lease area of the proposed site.

GEOLOGY, GEOMORPHOLOGY AND SOIL

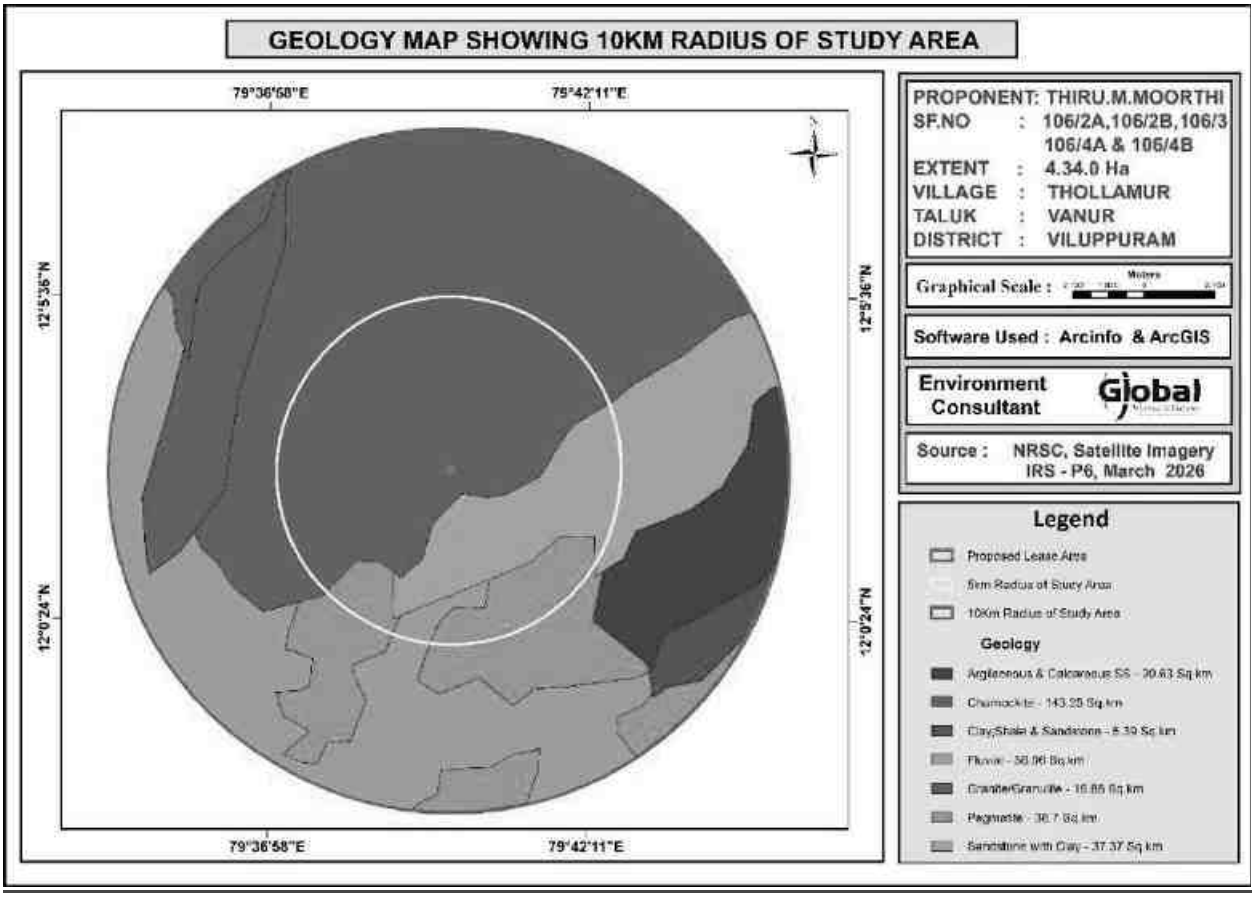
Geology:

The Core and 10 Km buffered zone geological features (Figure 3.21) shows that the Villupuram District is mostly underlain by the lithologies of southern granulite Terrain Super Group (SGT) with age ranging from Neoarchaean to Mesoproterozoic except coastal belt in the eastern part of the district. The calc granulite with limestone of Khondalite Group is occurs at north of Mugaiyur. The Charnockite Group contain 3 lithologies such as Charnockite, banded magnetite quartzite and pyrixene granulite. The Charnockite occur at north of Valatti and covers large area from Vikravandi to Ollakur. The linear bands of pyroxene granulite are occurring mostly in the NW parts of the district near valatti and few patches occur at west of Odiyattur. The Migmatite Group contains biotite gneiss which cover large area in the central and NW parts of the district such as west of Muttatur and Mugaiyur and in and around valatti. The grey hornblende biotite gneiss occurs as linear band at east of Vikravandi. The hornblende biotite gneiss occurs in the larger area of the district from Mugaiyur to north of Gingee. The Migmatite gneiss occur at south of Olakkur and NW of Odiyattur. The bands of pink migmatite are occurs at NE of Gingee and NW of Valatti. The Archaean to Paleoproterozoic in age Closepet Granite within the biotite gneiss of Migmatite Group at west of Valatti. The Proterozoic epidote hornblende gneiss is occurring in and around Gingee with shearing activity. The Mesoproterozoic in age

basic intrusive like dolerite dykes are intruded into rocks of Southern Granulite Terrain and these dykes are tendering into NW-SE to E-W direction.

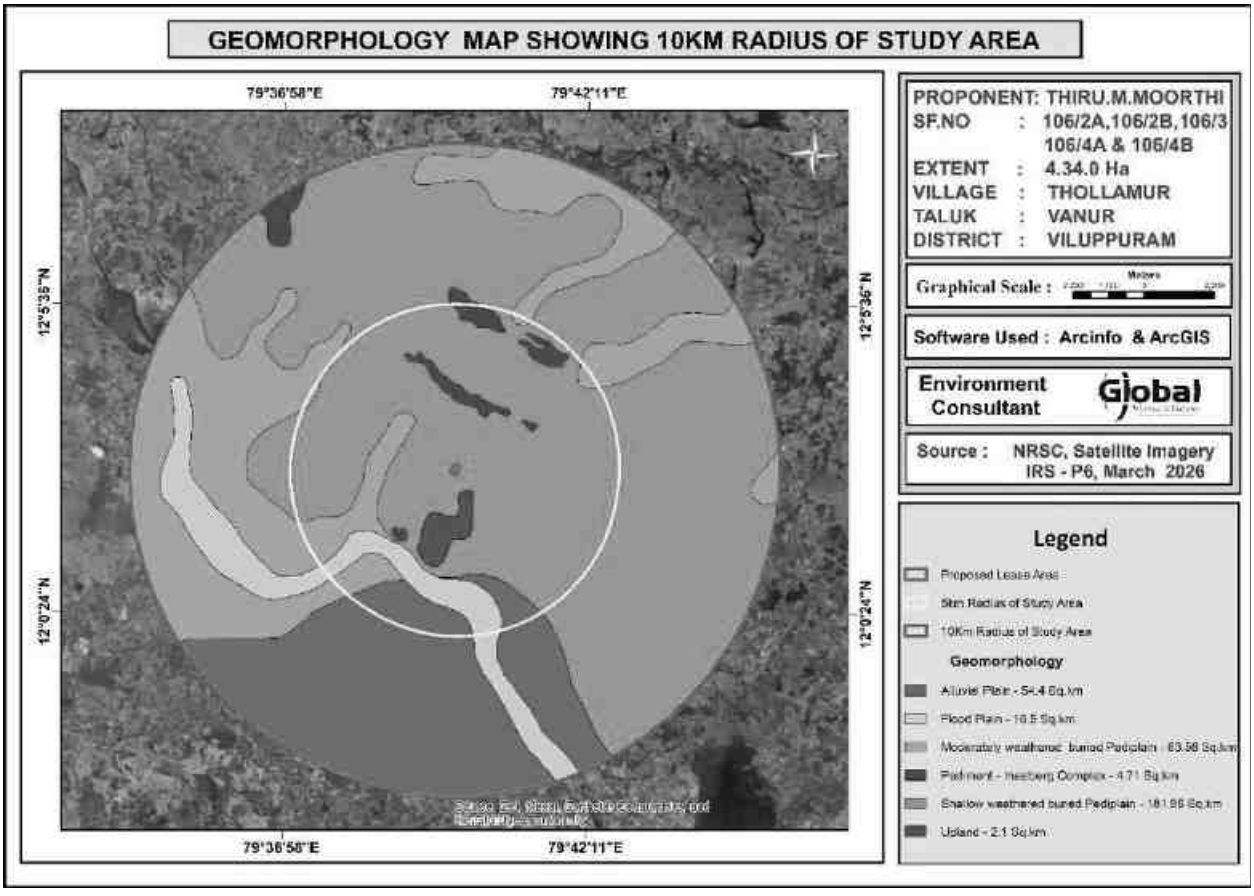
The late carboniferous-early premian in age,boulder conglomerate bad of Talchir Formation is occurs in linear belt at northern part of the district near Olakkur and Ongur.The Late Cretaceous period contains Pondicherry Group which contain sandstone-shale sequence and divided into Vanur and Nesal Formations and occurs in the eastern part of the district.The Cenozoic laterites occurs at west of Vanur .The early palaeocene age contains Pondicherry Group and it is divided into Karasur and Manaveli Formations which contains lithologies such as limestone and clay and occurs at east of vanur. The Miocene-Pliocene period are marked by deposites of thick sediments sequence and classified into Panamparai Formation and Cuddalore Formation and contains lithologies such as sandstone,conglomerate and mottled sandstone.

FIGURE 3. 25 10 KILOMETER RADIUS OF THE GEOLOGY MAP



Geomorphology: The Core and 10 Km buffered zone geomorphological features (Figure 3.22)shows that the viluppuram district forms part of the upland plateau region of Tamil Nadu with many hill ranges, hillocks and undulating terrain with a gentle slope towards east. The prominent geomorphic units identified in the district through interpretation of Satellite imagery are 1) Alluvial Plain(54.4 Sq.km), 2) Flood Plain(16.5 Sq.km), 3) Moderately Weathered buried Pediplain(63.58 Sq.km), 4) Pediments – Inselberg Complex(4.71 Sq.km), 5) Shallow Weathered buried Pediplain(181.96 Sq.km) (6) Upland(2.1 Sq.km).

FIGURE 3. 26 10 KM RADIUS OF THE STUDY AREA GEOMORPHOLOGY MAP



Soil: The soil types in the study area are mostly Clay soil(135.97 sq.km), Clay Loam Soli(88.39 sq.km), Sandy Loam soil(98.90 sq.km). Clayey soil is found in north-western part of the study area (135.97 sq.km).

FIGURE 3.27 10 KM RADIUS OF THE STUDY AREA SOIL EROSION

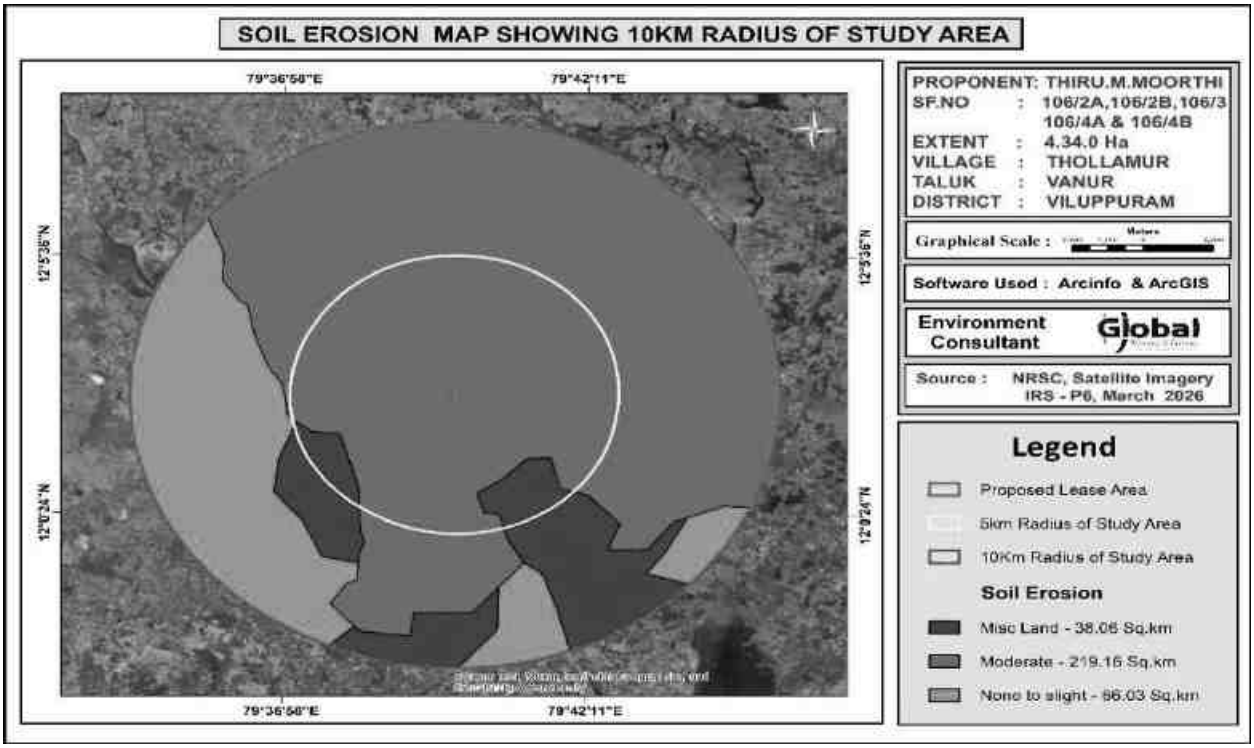


FIGURE 3.28 10 KM RADIUS OF THE STUDY AREA SOIL DEPTH

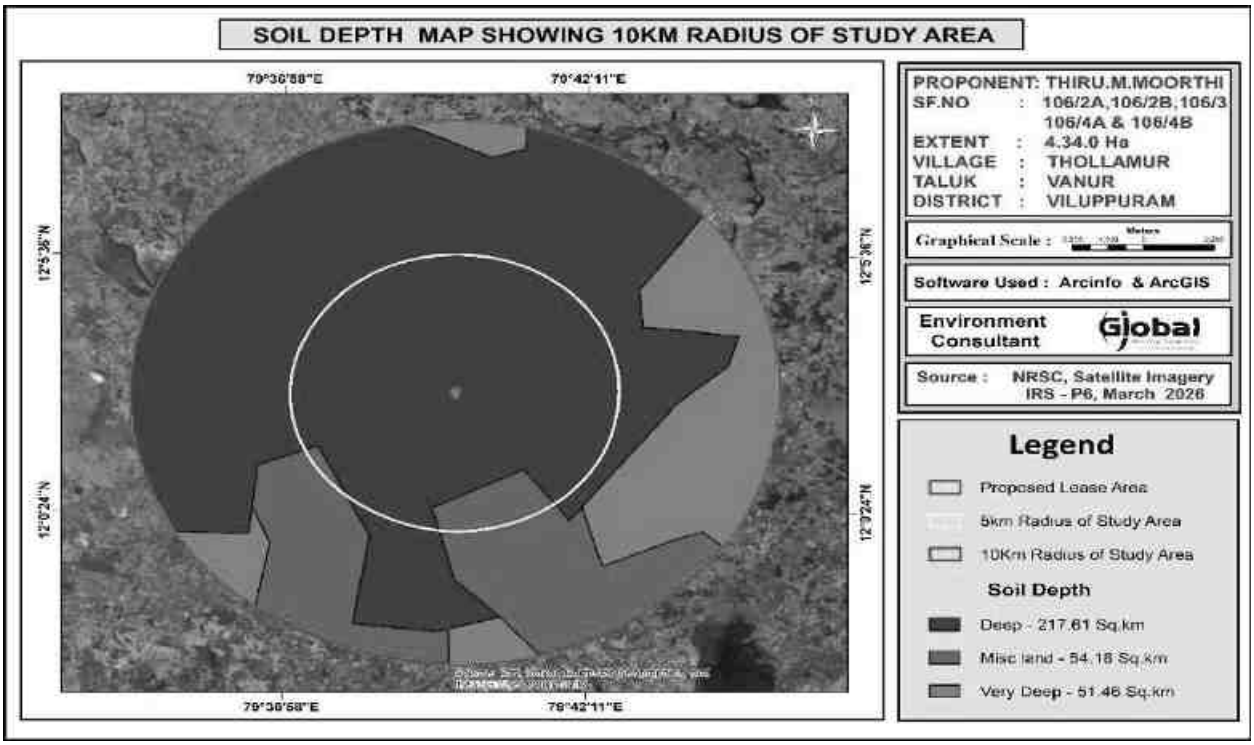
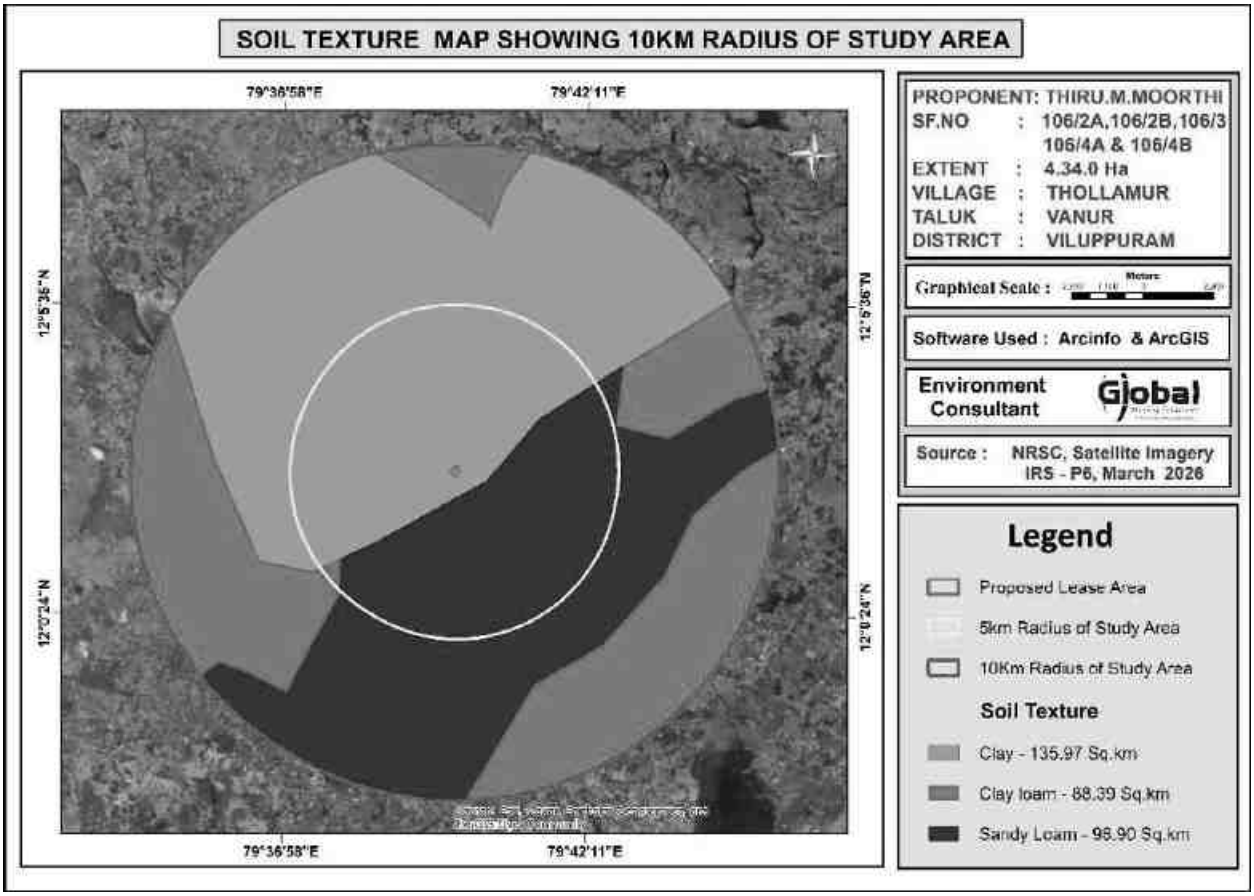


FIGURE 3.29 10 KM RADIUS OF THE STUDY AREA SOIL TEXTURE



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CHAPTER 4

ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

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

4.1 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 Quarry & Gravel Quarry of S.F.No. 106/2A, 106/2B, 106/3, 106/4A and 106/4B over an extent of 4.34.0 Ha in Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State. The method of mining is Opencast mechanized with a bench width and height of 5m. It is proposed to excavate to 3,18,080 m^3 of Rough Stone will be mined out in five years up to a depth of 52m (BGL) for the period of ten years. There is no stream/odai 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 Patta land. The project area of 4.34.0 Ha boundary barrier except in eastern direction. It is proposed to be altered by effective quarrying operation such as excavation (3.22.0 Ha), Infrastructure (0.01.0), Road (0.02.0 Ha) and green belt will be developed in the safety zone of 1.09.0 Ha. The ultimate depth of quarrying is proposed with maximum depth of 52m BGL and will not intersect the ground water table.

4.2 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 exhibits almost plain topography covered by rough stone and Gravel formation. 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>Land Use</th><th>Present Area (Hect)</th><th>Area in use during the quarrying period (Hect)</th></tr>
<tr><td>Quarrying Pit</td><td>2.24.0</td><td>3.22.0</td></tr>
<tr><td>Infrastructure</td><td>Nil</td><td>0.01.0</td></tr>
<tr><td>Roads</td><td>0.01.0</td><td>0.02.0</td></tr>
<tr><td>Green Belt</td><td>0.02.0</td><td>1.09.0</td></tr>
<tr><td>Unutilized</td><td>2.07.0</td><td>Nil</td></tr>
<tr><td>Total</td><td>4.34.0</td><td>4.34.0</td></tr>
</table></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 52m 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>3.22.0</td></tr>
<tr><td>Green Belt</td><td>1.09.0</td></tr>
<tr><td>Remaining area</td><td>0.03.0</td></tr>
<tr><td>Total</td><td>4.34.0</td></tr>
</table>
At the mine closure stage 3.22.0 Ha of lease area will be left as rain water harvesting pond 1.09.0 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></td><td>1308</td><td>3m x 3m</td><td>80%</td></tr>
</table></td></tr>
</table>

<table>
<tr>
<td></td>
<td>The ultimate pit dimension of the mine lease area is given below.
<table>
<tr><th colspan="4">Ultimate Pit dimension at the end of Mining plan Period</th></tr>
<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>261</td><td>123</td><td>52 m Below ground level</td></tr>
<tr><th colspan="4">Ultimate Pit dimension at the end of quarry lease Period</th></tr>
<tr><td>I</td><td>261</td><td>123</td><td>52 m Below ground level</td></tr>
</table>
If mining is not done systematically it will leads to the dumping failure in the mining area.</td>
<td>
<table>
<tr><td>II</td><td rowspan="4">Azadirachta indiaca</td><td>-</td><td rowspan="4"></td><td rowspan="4"></td></tr>
<tr><td>III</td><td>-</td></tr>
<tr><td>IV</td><td>-</td></tr>
<tr><td>V</td><td>-</td></tr>
<tr><td colspan="2">Total</td><td>1308</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 and Gravel 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 7.5m shall be provided. There is no overburden anticipated during the entire Rough Stone and Gravel quarrying operation. The excavated rough stone and Gravel will be directly loaded into tipper to the needy crusher/other buyers.</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 52m (BGL). The ground water table is reported as 72 m. In the proposed mining plan 52m 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.</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 52m below ground level and the nearby water table is 72 m . So, the mining activity will not affect the ground water. To</td>
</tr>
</table>

		prevent the soil erosion during monsoon season, garland drain will be constructed with silt traps.
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 52m. In the post mining stage, the quarried out pit will be used for rainwater harvesting.

4.2.1 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

4.2.2 WATER ENVIRONMENT

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. Water table is found at a depth of 72 m .

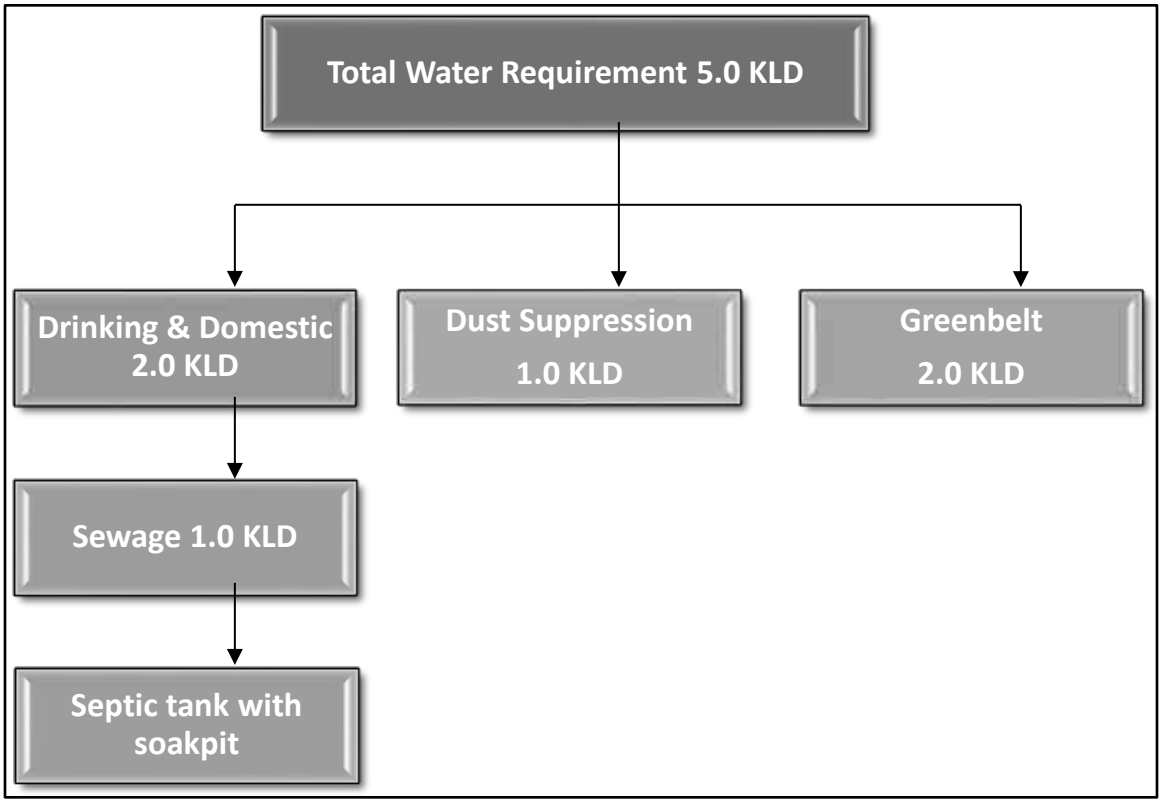
Since these water bodies are located outside the lease area and there is no discharge of effluent or any untreated water from the mines will be made into these water bodies, there is no major impact. The project proponent will restrict the mining operation only within the lease and no other work will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

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 1.0 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



4.2.3 Impact on Ground Water

The mining activity is not likely to intersect ground water as the ground water table occurs at a depth of 72 m. The mining will go up to the maximum depth of 52m BGL. 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.

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)

Ground water environment in buffer zone

The scenario of ground water in Villupuram District, Marakanam Taluk is given below.

TABLE 4.1 Ground Water Level Status in Villupuram 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	Vanur	9387.83	8981.67	275.59	9257.27	99 %	Critical

Source: nwm.gov.in

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

4.2.4 VEGETATION

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 1.09.0 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 1308 trees are 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 are 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.

4.3 AIR ENVIRONMENT

4.3.1 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.

4.3.2 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 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.

4.3.3 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.

4.3.4 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 is Thiru.M.Moorthi 318080m^3 of rough stone and cluster queries, Tvl.Sree Thiruchendhur Murugan Blue Metals 4014461.64 m^3 of rough stone, Thiru.D.Gnanaguru of rough stone 1608782.56 m^3 for a period of five 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.

4.3.5 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.

4.3.6 Emission Details

All the emissions discussed above are quantified for proposed maximum production of Thiru.M.Moorthi 318080m^3 of rough stone and cluster queries, Tvl.Sree Thiruchendhur Murugan Blue Metals 4014461.64 m^3 of rough stone, Thiru.D.Gnanaguru of rough stone 1608782.56 m^3 for a period of five 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.

4.3.7 Meteorological Data

The meteorological data recorded continuously during the month of December 2025 – February 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.

4.3.8 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 3.13 µg/m^3 of PM 2.5 & 5.52 µg/m^3 of PM_{10} within the mine area and cluster area is estimated to be

about 3.83 µg/m^3 of PM 2.5 & 6.64 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.

4.3.9 Emission sources & Quantification

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

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

Quantity, TPA	Rough Stone: 318080m^3 (Five Years)
Operational Hours Per Year	2400
Activity Rate, t/hr.	401.566
Emission of dust, g/t.	0.22
Emission of dust, g /hr.	59.6533
Area of influence, m^2	626
Uncontrolled emission rate g/s/m^2	0.00008014
Controlled emission rate, PM10 g/s/m^2	0.000080148
Controlled emission rate, PM2.5 g/s/m^2	0.000051067

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

Quantity, TPA	Rough Stone: 318080m^3 (Five Years))
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	6786
Lead length/trip, Km	2.5
Total VKT/Year	98146
Emission Kg/VKT	0.29
Total emission Kg/Year	61452
Uncontrolled emission rate g/s/m	7.8251
Controlled emission rate, PM10 g/s/m	0. 78251
Controlled emission rate, PM2.5 g/s/m	0.53785

Area Emissions – Total Material handling (Cluster Rough Stone)

Quantity, m3	**Proposed Quarries:** Rough Stone: 318080m^3 **Cluster queries:** • Tvl.Sree Thiruchendhur Murugan Blue Metals-4014461.64 m^3 - • Thiru.D.Gnanaguru - 1608782.56 m^3
Operational Hours Per Year	2400
Activity Rate, t/hr.	385.30
Emission of dust, g/t.	0.38
Emission of dust, g /hr.	80.456
Area of influence, m2	635
Uncontrolled emission rate g/s/m2	0.0009001
Controlled emission rate, PM10 g/s/m2	0.00090012
Controlled emission rate, PM2.5 g/s/m2	0.00066313

Line Source – Transport of Rough Stone (Cluster)

Quantity, m3	**Proposed Quarries:** Rough Stone: 318080m^3 **Cluster queries:** • Tvl.Sree Thiruchendhur Murugan Blue Metals-4014461.64 m^3 - • Thiru.D.Gnanaguru - 1608782.56 m^3
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	22192.26
Lead length/trip, Km	0.26
Total VKT/Year	904856
Emission Kg/VKT	0.36
Total emission Kg/Year	55456
Uncontrolled emission rate g/s/m	9.3565
Controlled emission rate, PM10 g/s/m	9.35654
Controlled emission rate, PM2.5 g/s/m	0.66586

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 $PM_{2.5}$

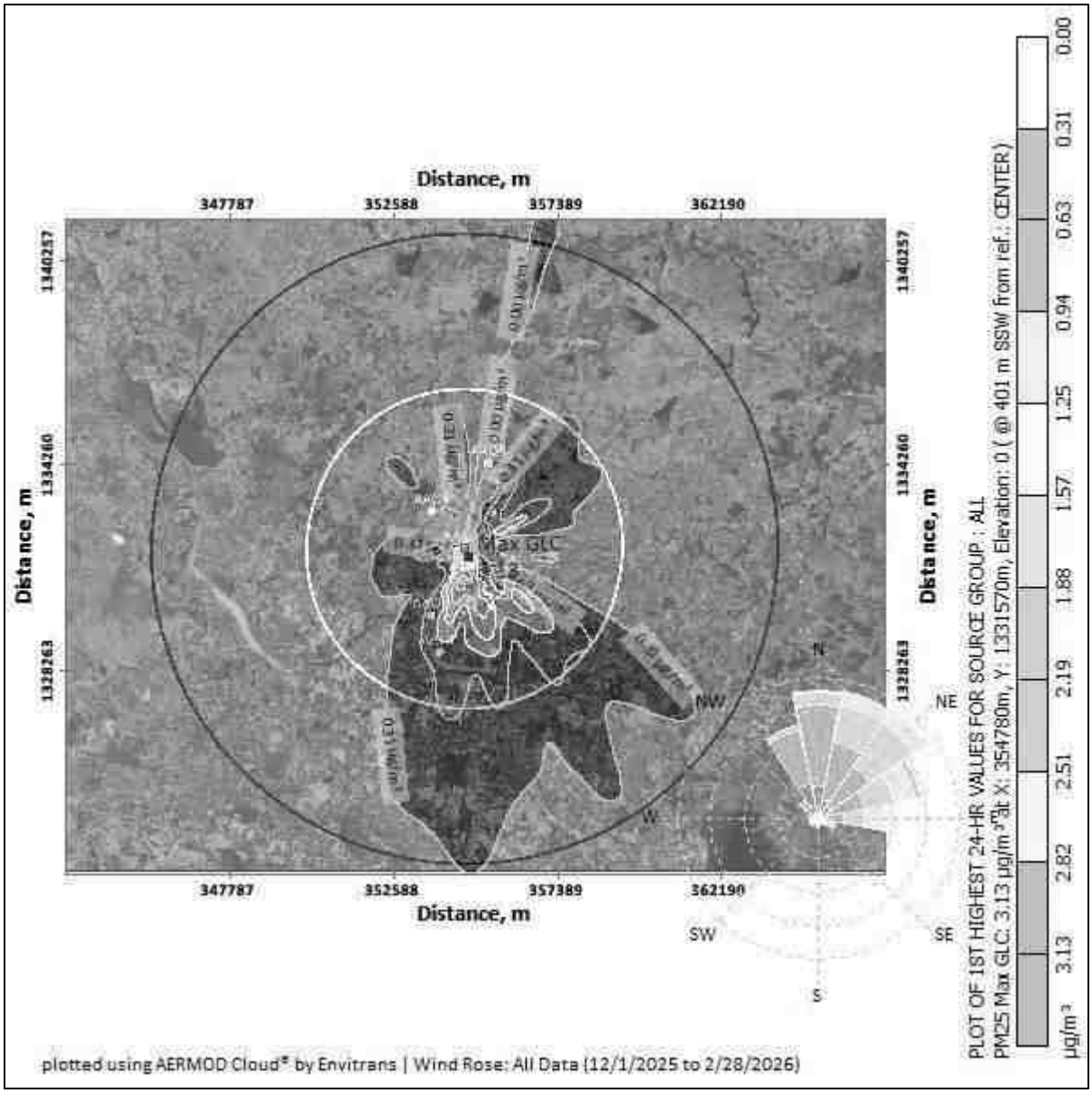


FIG 4.3 Isopleth of GLC Prediction for PM_{10}

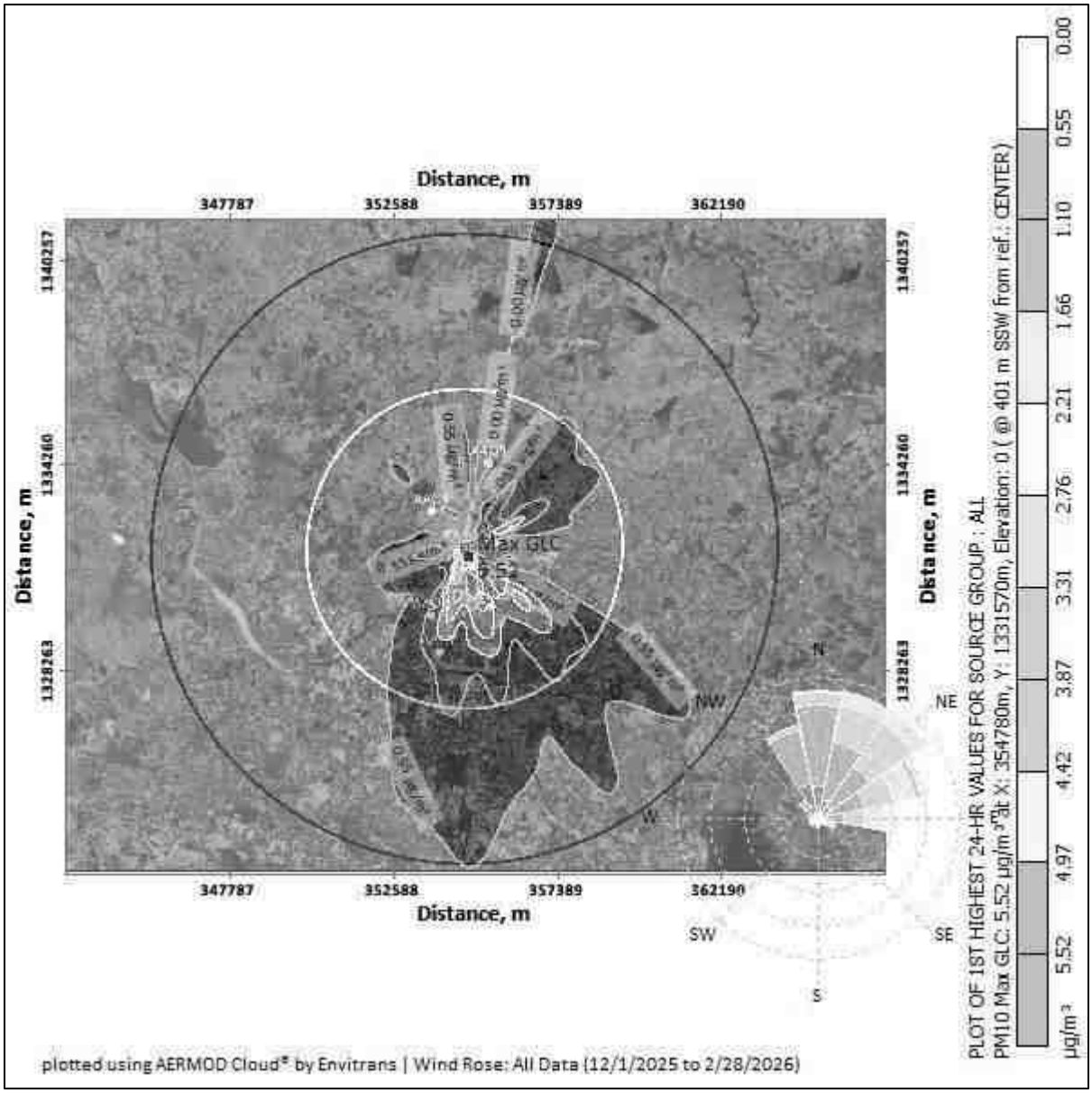


FIG 4.4 Isopleth of GLC Prediction –Cumulative for $PM_{2.5}$

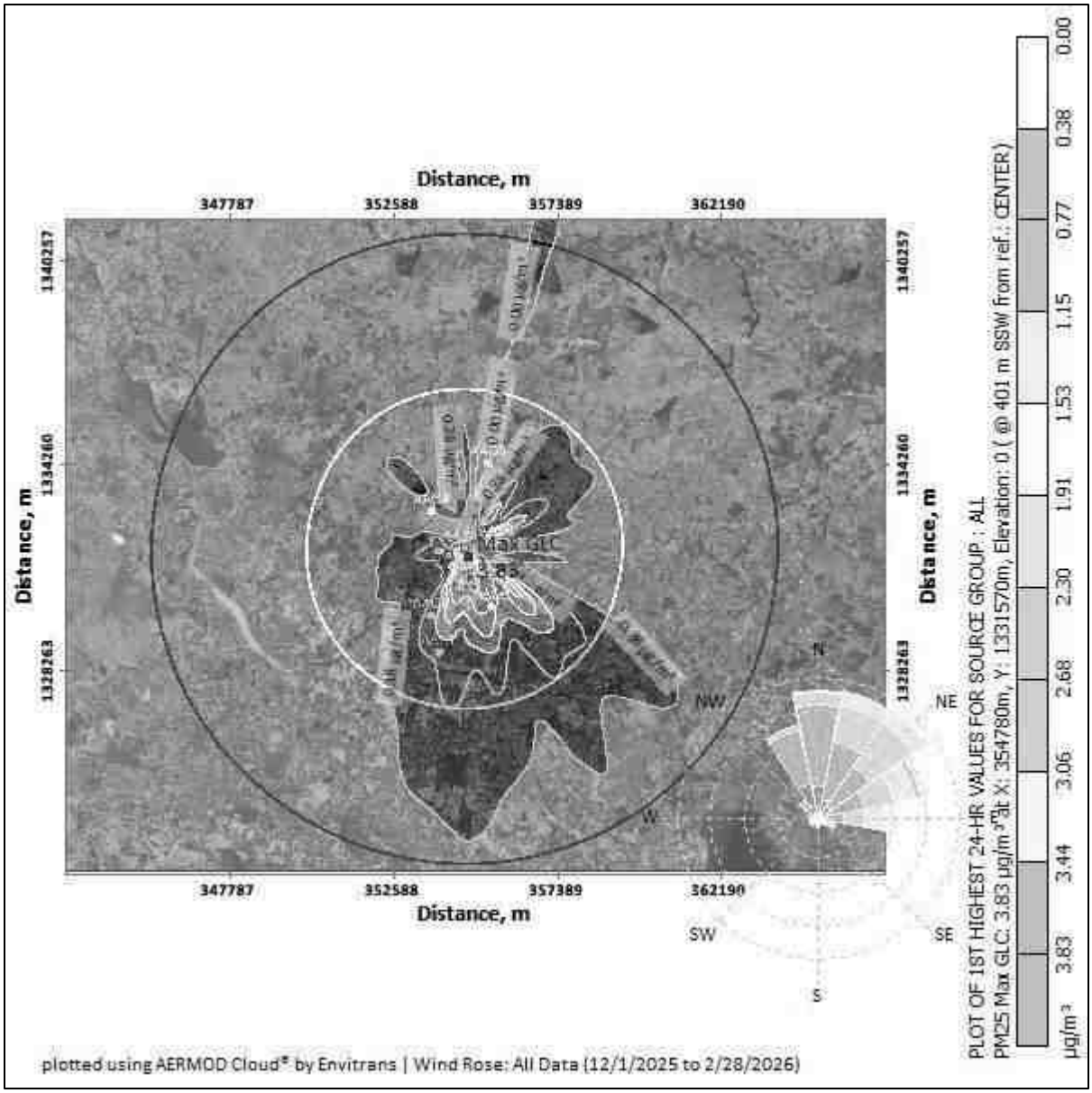
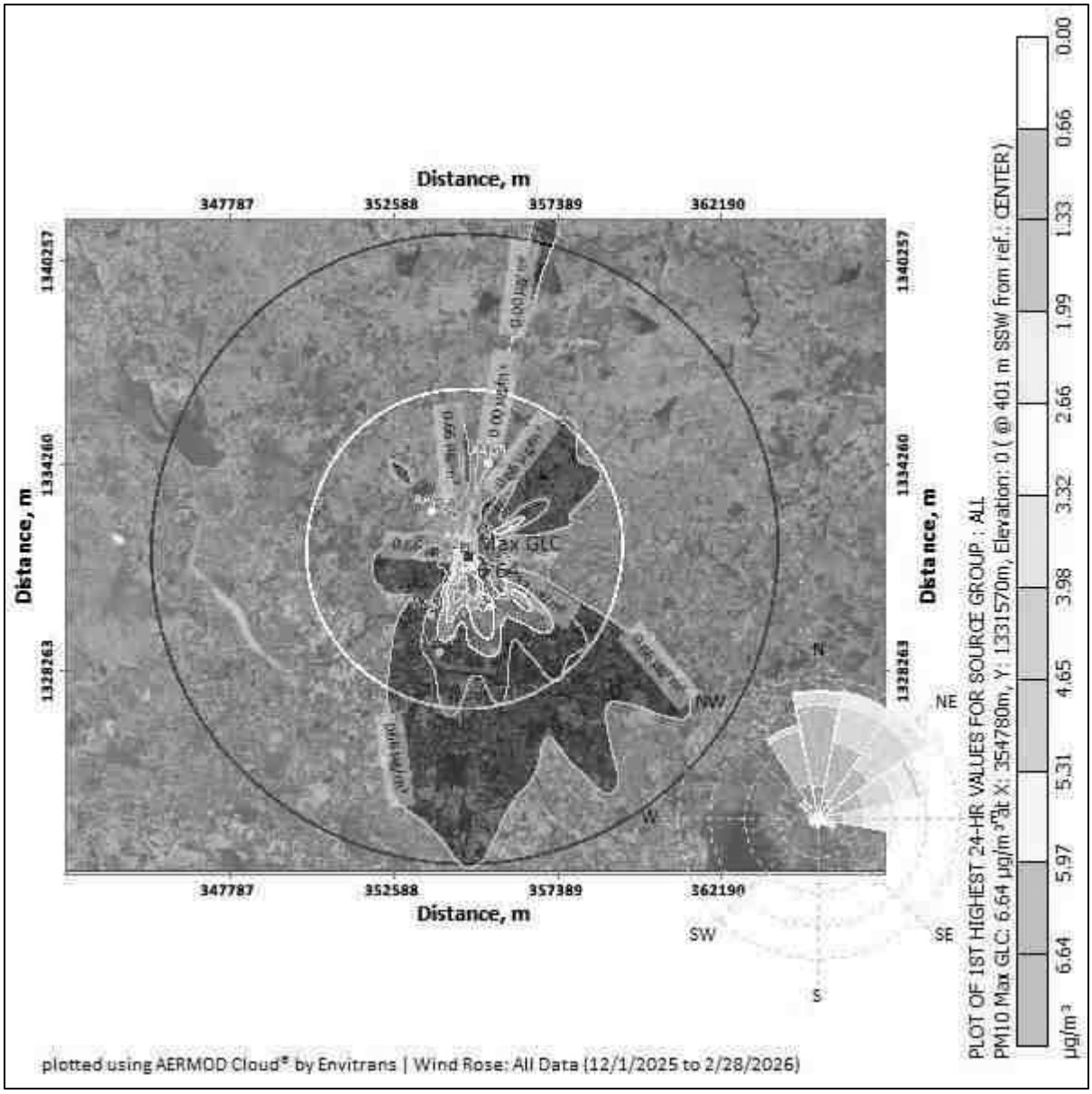


FIG 4.5 Isopleth of GLC Prediction –Cumulative for PM_{10}



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 - 4.7 to 4.8.

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	37.3	3.13	40.43	60
2	Thiruvakkarai	26.8	2.82	29.62	
3	Thollamur	29.7	2.51	32.21	
4	Nemili	30.8	2.19	32.99	
5	Karasanur	32.4	1.88	34.28	
6	Kadagampattu	33.5	1.57	35.07	
7	Senipet	37.6	1.25	38.85	

Table 4.3a 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	37.3	3.83	41.13	60
2	Thiruvakkarai	26.8	3.44	30.24	
3	Thollamur	29.7	3.06	32.76	
4	Nemili	30.8	2.68	33.48	
5	Karasanur	32.4	2.30	34.70	
6	Kadagampattu	33.5	1.91	35.41	
7	Senipet	37.6	1.53	39.13	

Table 4.3b 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	77.6	5.52	83.12	100
2	Thiruvakkarai	59.2	4.97	64.17	
3	Thollamur	54.8	4.42	59.22	
4	Nemili	58.7	3.87	62.57	
5	Karasanur	64.5	3.31	67.81	
6	Kadagampattu	67.5	2.76	70.26	
7	Senipet	68.6	2.21	70.81	

Table 4.3c Cluster 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	77.6	6.64	84.24	100
2	Thiruvakkarai	59.2	5.97	65.17	
3	Thollamur	54.8	5.31	60.11	
4	Nemili	58.7	4.65	63.35	
5	Karasanur	64.5	3.98	68.48	
6	Kadagampattu	67.5	3.32	70.82	
7	Senipet	68.6	2.66	71.26	

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 59.22 µg/m^3 to 83.12 µg/m^3 and for $PM_{2.5}$ are in the range of 29.62 µg/m^3 to 40.43 µg/m^3 and PM_{10} are surrounding area range of 60.11 µg/m^3 to 84.24 µg/m^3 and for $PM_{2.5}$ are in the range of 30.24 µg/m^3 to 41.13 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.

4.4 ASSESSMENT OF SIGNIFICANCE OF IMPACTS (CRITERIA FOR DETERMINING SIGNIFICANCE, ASSIGNING SIGNIFICANCE).

4.4.1 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.

4.4.2 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 Thiruvakkarai, Thollamur, Nemili, Karasanur, Kadagampattu, Senipet Village, the values are given below.

TABLE 4.4 Noise Levels in Monitoring Locations				
S. No.	**Location**	**Distance and direction from Mine lease area**	**Day Equivalent (in dBA)**	**Night Equivalent (dBA)**
1	Proposed Lease Area	Core Zone	53.2	43.9
2	Tiruvakkarai	2.32 km (SW)	52.2	41.8
3	Thollamur	930 m (E)	50.2	41.8
4	Nemili	1.47 km (NW)	51.4	42.4
5	Karasanur	2.52 km (N)	47.9	42.7
6	Kadagampattu	1.78 km (SE)	49.5	42.9
7.	Senipet	3.34 km (S)	49.2	42.6

The noise levels are within the MoEF & CC 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 five 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).

4.4.3 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.

4.5 MITIGATION MEASURES

4.5.1 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 MoEF & CC limits since the baseline value is low.

4.5.2 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 MOEF & CC.
- 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.

4.5.3 SOCIO ECONOMIC IMPACT

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

4.5.4 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 31 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 4.5 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.

4.5.5 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 1.0 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.

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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 19(1) 41 & 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 and the same has been approved by the Assistant Director, Dept. of Geology & Mining, Viluppuram vide Rc.No. A/G&M/219/2024 dated 06.11.2025.

- 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 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.

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.

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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 MoEF& CC and Tamil Nadu State Pollution Control Board. In case the SEIAA/TNPCB/MoEF&CC 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, MoEF & CC. The measurement methodologies will be as per CPCB/BIS/MoEF & CC/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 MoEF & CC/ 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

6.2 DETAILED BUDGET AND PROCUREMENT SCHEDULES

The budget planned for environmental monitoring is given below.

Table 6.3 - Environmental Management Plan Budget

Table 6.3 - Environmental Management Plan Budget (in Lakhs)		
Mitigation Measures	**Capital cost**	**Recurring Cost /Annum**
Air Environment	7.69	1.72
Noise Environment	0.30	0.02
Waste Management	0.25	0.12
Mine Closure	1.09	0.21
Implementation of EC, Mining Plan & DGMS Condition	0.99	0.77
Total	**10.3**	**2.86**
The total EMP Cost is 24.60 Lakhs (For 5 Years) i.e., **Rs. 10.3 Lakhs of Capital Cost** + **Rs. 2.86 Lakhs of Recurring cost** (For 5 Years)		

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CHAPTER 7

ADDITIONAL STUDIES

The additional studies covered for this EIA / EMP report are,

- Public consultation
- Risk Assessment
- Social Impact Assessment, R&R Action Plans
- Cumulative Environmental Impact Assessment Study
- A detailed Hydrogeological Study
- Slope Stability plan

7.1 PUBLIC CONSULTATION

After the preparation of the draft EIA/EMP report, it must be submitted to the State Pollution Control Board. A public consultation will be conducted on behalf of the Pollution Control Board through the District Collector and the officials from the PCB. A prior notice must be issued about the event, along with the time and date, in two leading newspapers. The opinions, suggestions, demands, and objections of people, NGO environmentalists, etc. are sought, and the proceedings are recorded. The replies of the proponent and corresponding officials will be recorded in the final EIA/EMP report.

7.2 RISK ASSESSMENT & MANAGEMENT

(a) Objectives

Risk assessment is a method in method in which possible threats/hazards which may arise during mining operations are identified so that adequate machinery/equipment are made available in precaution. The objectives of environmental risk assessment are governed by the following, which excludes natural calamities:

- To identify the potentially hazardous areas so that necessary design safety measures can be adopted to minimize the probability of accidental events.
- To identify the potential areas of environmental disaster which can be prevented by proper design of the installations and its controlled operation.
- To manage the emergency situation or a disastrous event, if any, from the mining operation.

The major hazards related to the mining activities are as follows

- Open cast bench slope failure
- Accident due to fall of quarry sides
- Accident due to machineries
- Accident due to explosives
- Accident due to large block cutting, separation and loading

Some of the common hazards are identified and the corresponding precautionary measures are drafted.

Table 7.1 Hazards and Precautionary measures

S.No.	Hazard	Precautionary measures
1	Fire	Fire suppressants will be made available at mines office and explosive storage room.
2	Explosion	Controlled blasting will be done. DGMS norms will be strictly followed during blasting. Blasting will be done only by trained professionals.
3	Combustion of chemicals or hazardous substances	Combustible Substances are stored with all precautionary measures. Fire suppressant is made available at storage site
4	Landslide	Width, height and slope will be maintained as suggested by DGMS
5	Accidents during handlings	All vehicles will be properly maintained. Overloading will not be done. Only trained/certified people will be employed.
6	Accidental fall of people or animals	The lease area will be fenced properly. Only people working in the mines will be permitted to enter.

7.3 REHABILITATION AND RESETTLEMENT (R & R) PLAN

No land is acquired from people dwelling in the area. The lease area is an uninhabited land. No R & R plan is proposed.

7.3.1 CUMULATIVE ENVIRONMENTAL IMPACT ASSESSMENT STUDY

The details of other quarries located within the 500m radius of this project are provided below:

Table 7.2 500m Radius Cluster Mines Details

Sl. No	Name and address	Name of the Mineral	Village and Taluk	S.F.Nos.	Extent (in Ha)	Period of lease
Existing Quarries						
1.	Tvl.Sree Thiruchendhur Murugan Blue Metals represented by its partner Thiru.P.Subramani, No.3-3/3-3, Main Road, Thoravi Village, Vikravandi Taluk, Viluppram District.	Rough stone & Gravel	Vanur & Thollamur	20/1 20/2A 20/2B 20/3 21/4 21/6 99/2 99/3B 99/6	0.83.0 0.42.5 0.43.0 1.34.0 0.31.5 0.56.0 0.24.0 0.28.5 0.15.0 **4.57.5**	04.01.2022 to 03.01.2027
2.	D.Gnanaguru, S/o.Dhanapal, No.219/1C, Iyyanar Kovil Street, Tennamadevi Village, Vikravandi Taluk, Viluppram District.	Rough stone & Gravel	Vanur & Thollamur	99/1 99/3A 100/1 100/2 100/5A	0.27.0 0.54.0 0.75.5 0.27.0 0.39.0 **2.22.5**	23.04.2025 to 22.04.2035
Proposed Quarry						
1.	M.Moorthi, S/o.Muniyan, No.413, Mannarsamy Kovil Street, Tiruvakkarai Village, Vanur Taluk, Viluppuram District – 604 304.	Rough stone & Gravel	Vanur & Thollamur	106/2A, 106/2B, 106/3, 106/4A 106/4B	0.31.0 0.40.5 0.58.5 1.16.5 1.87.5 **4.34.0**	-
Abandoned Quarries						

1.	M.Moorthi, S/o.Muniyan, No.413, Mannarsamy Kovil Street, Tiruvakkarai Village, Vanur Taluk, Viluppuram District – 604 304.	Rough stone & Gravel	Vanur & Thollamur	106/2A, 106/3, 106/4A 106/4B	0.31.0 0.58.5 1.16.5 1.87.5 **3.93.5**	15.02.2019 to 14.02.2024

A cumulative impact of these two proposed quarries has been studied and the details are given in Chapter IV.

7.3.2 Cumulative Impact on Traffic

The mined-out minerals will be transported by means of trucks to the consumers like crusher units for producing stone aggregates of different sizes or construction of roads, bridges, buildings and other buyers etc. The cumulative impact on traffic due to transportation of minerals from these four leases are provided below:

Table 7.3 – Impact on Traffic

Description	Rough Stone & Gravel Poduction Per day in tons	No. of Lorry Load per day
P1 M.Moorthi (Proposed quarry)	587	29
P2 Tvl.Sree Thiruchendhur Murugan Blue Metals (Cluster quarry)	972	49
P3 D.Gnanaguru (Cluster quarry)	382	19
	Total	**97**

The proposed projects will bring 29 trips per day including cluster quarries. 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.

7.3.4 SLOPE STABILITY STUDY

The proposed quarry is a very small quarry and the production is also less. Opencast mechanized mining with a bench height of 5m and bench width of 5m and 45° Slope is proposed. The depth of mining is proposed as 52m (BGL), which is the ultimate pit limit. Also, there is no overburden since the entire mined out material will be utilized.

As far as technical factors are concerned, the following precautionary measures will be adopted:

- Strict adherence to DGMS norms
- Frequent inspection by Mines-in-charge/Mines Manager
- Bench height, width, slope will be as per DGMS norms

7.3.5 DISASTER MANAGEMENT PLAN

Proper preventive mechanism exists already in the mines.

- Precautionary measures are well explained to all staff by the mines in-charge.
- PPE necessary for all staff are available in the quarry. No person is allowed to enter inside without PPE. Avoiding quarrying during unfavorable environmental conditions.
- Carrying out safe blasting by following DGMS norms
- Safety equipment like fire extinguisher, first aid kit, etc are present in the mine.
- Proper maintenance of machinery used for mining
- In case of any emergency, the contact numbers of mines in-charge, mines manager, Management contact are available in the mine's office.

7.3.6 MINE CLOSURE PLAN

The quarrying operation is proposed up to a depth of 52m (BGL) only, which will be achieved in 5 Years . The ultimate pit dimension will be length 261 m x Width 123 m x Depth 52 m. After completion of quarrying operation, the mined-out pit will be left as rain water harvesting pond. The quarry will be properly fenced with barbed wire.

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CHAPTER 8

PROJECT BENEFITS

INTRODUCTION

Thiru.M.Moorthi has proposed Rough stone and gravel quarry over an extent of 4.34.0 ha located at S.F.No. 106/2A, 106/2B, 106/3, 106/4A and 106/4B of Thollamur Village, Vanur Taluk, Viluppuram District, Tamilnadu state

PROJECT BENEFITS

Project benefits are attributed in various ways as under:

- Environment Benefits
- Employment Potential: Skilled, Semi-skilled & Un-skilled
- Economic Benefits
- Social Benefits

8.1 IMPROVEMENTS IN THE PHYSICAL INFRASTRUCTURE

The project area is located on Patta 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.

8.2 IMPROVEMENTS IN THE SOCIAL INFRASTRUCTURE

The proposed project will help in improving the socio-economic status of the near-by villages by generating direct or indirect employment opportunities. Substantial amount of indirect revenue will be generated by transportation activities along with employment e.g. labour, helper etc.

ECONOMIC BENEFITS:

The execution of proposed mine will boost the economy of the area by creating direct & indirect jobs for locals. There will be a positive cumulative impact of the project on the economy.

8.3 EMPLOYMENT POTENTIAL: SKILLED, SEMI-SKILLED & UN-SKILLED

The mining activity at proposed Rough Stone and Gravel of Thiru.M.Moorthi will create direct employment opportunity for 31 local people. As per MOEF & CC Notification CER cost is arrived for an amount of 5 Lakhs, it will be utilized as per the CER letter received from the competent authority.

8.4 OTHER TANGIBLE BENIFITS

The mine management will recruit semi-skilled & unskilled eligible workers from the nearby villages depending upon requirement in the mines and the eligibility, qualification and experience of local persons.

The overall effect will result in higher standard of living viz. better education, improved health and sanitation facilities, housing and acquisition of consumer durables. Housing, transport, medical, educational and other civic amenities will get improved in the future. This is envisaged as a major positive benefit.

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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. TO25B0108TN5780122N , dated 02.04.2026 for the proposed project, the 'Environmental Cost Benefit Analysis' is not prescribed.

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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.
	5.0 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	There is Sangrabarani River is located at a distance of 2.89km in SW direction. Adequate safety distance is left. No dumping of material or discharge will be done in or near the river or water body.
	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 52m BGL, Water table is found at a depth of 72 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 2.0 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 (7.5 m 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.

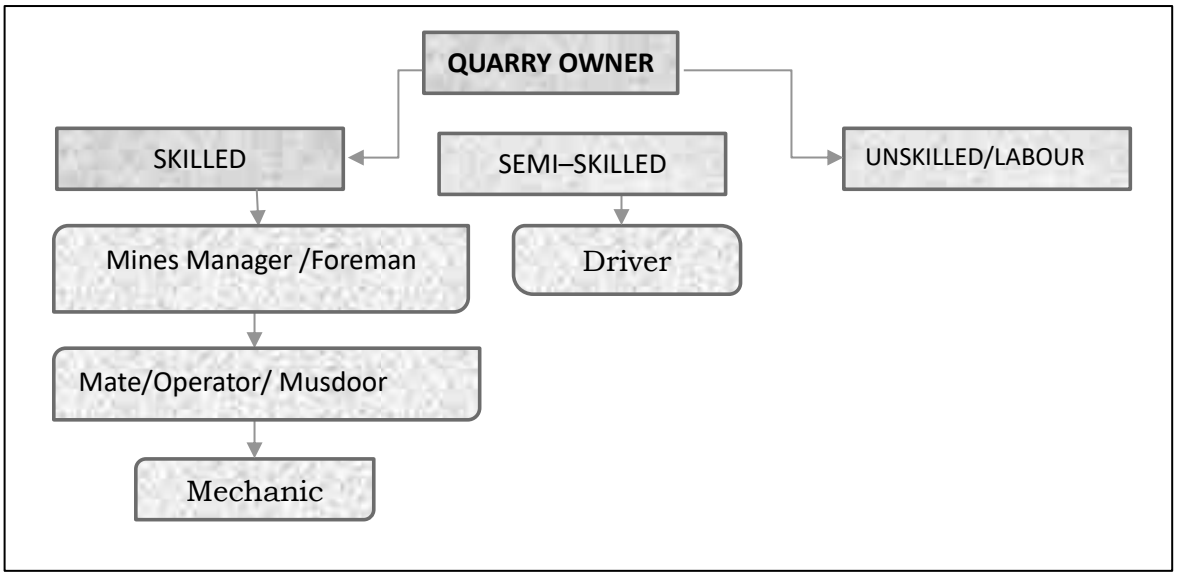
10.1.3 ADMINISTRATION AND TECHNICAL SETUP

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(II Class)	1
		Foreman/Mine Mate	2
		Operator	8
		Mechanic	1
2	Semi-Skilled	Diver	4
3	Un-skilled	Labours	15
Total			**31**

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 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

Table 10.2 – Environmental Management Plan Budget			
Activities	**Mitigation Measure**	**Capital cost (Lakhs)**	**Recurring Cost per Annum (Lakhs)**
Air Environment	Compaction, gradation and drainage on both sides for Haulage Road	0.21	0.21
	Fixed Water Sprinkling Arrangements + Water sprinkling by own water tankers	5.00	0.25
	Muffle blasting – To control fly rocks during blasting	0.00	0.05
	Wet drilling procedure / latest eco-friendly drill machine with separate dust extractor unit	0.40	0.08
	No overloading of trucks/tippers/tractors	0.00	0.05
	Stone carrying trucks will be covered by tarpaulin	0.00	0.10
	Enforcing speed limits of 20 km/hr within ML area	0.08	0.008
	Regular monitoring of exhaust fumes as per RTO norms	0.00	0.05
	Regular sweeping and maintenance of approach roads for at least about 200 m from ML Area	0.00	0.86

	Installing wheel wash system near gate of quarry	2.00	0.05
Sub-Total (A)		**7.69**	**1.72**
Noise Environment	Provision for Portable blaster shed	0.30	0.02
Sub-Total (B)		**0.30**	**0.02**
Waste Management	Provision for domestic waste collection and disposal through authorized agency	0.20	0.10
	Installation of dust bins	0.05	0.02
Sub-Total (C)		**0.25**	**0.12**
Mine Closure	Plantation inside ML area (1090 Nos.)	1.09	0.21
Sub-Total (D)		**1.09**	**0.21**
Implementation of EC, Mining Plan & DGMS Condition	Size 6' X 5' with blue background and white letters as mentioned in MoM Appendix II by the SEAC TN	0.05	0.01
	Air, Water, Noise and Soil Quality Sampling every 6 Months for Compliance Report of EC Conditions	0.00	0.50
	Workers will be provided with Personal Protective Equipment's	0.31	0.03
	Health check up for workers will be provisioned	0.00	0.15
	First Aid facility Provision	0.00	0.04
	Signage & boards for safety precautions	0.05	0.01

	No parking will be provided on the transport routes. Separate provision on the south side of the hill will be made for vehicles /HEMMs. Flaggers will be deployed for traffic management	0.43	0.01
	Installation of CCTV cameras in the mines and mine entrance	0.15	0.02
Sub-Total (E)		**0.99**	**0.77**
Sub – Total (A+B+C+D+E)		**10.3**	**2.86**
Total EMP Cost for 5 years is **24.60 lakhs** i.e., **10.3 Lakhs of Capital Cost + 14.30 Lakhs of Recurring cost (For 5 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 24.60 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.

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CHAPTER 11

SUMMARY& CONCLUSION

11.1 OVER ALL JUSTIFICATION FOR IMPLEMENTATION OF THE PROJECT

INTRODUCTION

Thiru M. Moorthi, Lessee, has obtained a Precise Area Communication Letter from the Assistant Director, Department of Geology and Mining, Villupuram, for quarrying a total of 3,18,080 m³ of Rough Stone over a lease area of 4.34.0 Ha in S.F. Nos. 106/2A, 106/2B, 106/3, 106/4A and 106/4B of Thollamur Village, Vanur Taluk, Villupuram District, Tamil Nadu. The proposed production of 3,18,080 m³ of Rough Stone is planned over a period of five years. As per the EIA Notification, 2006 and its subsequent amendments, the proposed Rough Stone and Gravel Quarry falls under Schedule 1(a), Category B1, considering the cluster situation. The Terms of Reference (ToR) for preparation of the EIA/EMP Report were approved vide ToR Identification No. TO25B0108TN5780122N (F.No. 13236) dated 02.04.2026. Accordingly, the present EIA/EMP Report has been prepared in line with the approved ToR for the maximum excavation of 3,18,080 m³ of Rough Stone.

S.No.	Description	Status/Remarks
1.	Sector	Non-coal mining
2.	Category of the project	B1
3.	Proposed mineral	Rough Stone and Gravel quarry
4.	Type of Lease	Existing project
5.	Extent of the lease	4.34.0 Ha
6.	Proposed depth of Mining	52m BGL
7.	Method of mining	Opencast Mechanized Mining with drilling and blasting.
8.	Proposed lease period	5 Years
9.	Proposed Environmental Clearance	5 Years
10.	Proposed production quantity	Rough Stone - 3,18,080 m^3

The proposed lessee Thiru.M.Moorthi is an individual with sound experience in the identification of quarry, operation and marketing in the field of Rough Stone and gravel quarry. The proposed land is consented patta land, please refer **Annexure no –6.**

11.1.1 LOCATION

The proposed project site is located in Thollamur Village, Vanur Taluk, Villupuram District, Tamil Nadu and its Latitude : 12°02'42.92"N to 12°02'53.77"N and Longitude: 79°39'50.82"E to 79°39'58.81"E . with Survey of India Topo Sheet No. 57 P/ 12 . 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. December 2025 to February 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 $SE80^0$.

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 52m below ground level. The geological reserves are estimated to be 15,27,920 m^3 of Rough Stone and 144 m^3 in Gravel. The mineable reserve calculated by deducting 7.5m , 10m safety distance and bench loss. The mineable reserves 3,18,080 m^3 of Rough Stone which will be recovered at the rate of 100% recovery upto a depth of 52 m Below ground level for the period of five 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 & Gravel quarrying operation.

S.No.	Type of Detail	Description
1	Sector	1(a) Non coal mining
2	Fresh/Existing project	Existing project
3	Category	B1
4	Nature of mineral	Minor mineral
5	Production	5 Years
6	Life	5 Years
7	Waste generation and management	Nil
8	Bench height and width	Proposed bench height & width is 5.0m
9	Ultimate pit depth	52m BGL
10	End use	The excavated Rough Stone and Gravel is used for construction industries for Government & Public sector projects besides catering domestic housing and infrastructure projects in and around the district.

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.
2	Power requirement	All the equipment will be diesel operated. No electricity is needed for mining operation
3	Manpower requirement	31 Nos
4	Financial requirement	The total project cost as per PFR will be INR 141.14 Lakhs including Operational cost, Fixed Asset cost and EMP cost
5	Funds for Socio economic development	INR 5 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,	Water bodies / Distance / Direction Odai / 10.5m / N Odai / 252m / E Tank / 1.1Km / W Tank / 810m / NE Sangarabarani river / 2.94km / SW
B	Coastal zone, biospheres,	Nil within 10km radius
C	Mountains, forests	Kongarampoondi R.F – 12.84 km(W)
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	Nemili - 1.4km - NW
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Thollamur – 950m - E

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 December 2025 to February 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 have been carried out in 6 locations and the results are given below.

Table 11.2: Details Of Ambient Air Quality Monitoring Locations

S. No.	Station Code	Locations	Distance & Direction	Coordinates
1	AAQ 1	Proposed Lease Area	Core Zone	12° 2'49.10"N & 79°39'55.31"E
2	AAQ 2	Tiruvakkarai	2.32 km (SW)	12° 1'37.88"N & 79°39'18.41"E
3	AAQ 3	Thollamur	930 m (E)	12° 2'54.07"N & 79°40'28.91"E
4	AAQ 4	Nemili	1.47 km (NW)	12° 3'25.32"N & 79°39'18.65"E
5	AAQ 5	Karasanur	2.52 km (N)	12° 4'12.65"N & 79°40'19.01"E
6	AAQ 6	Kadagampattu	1.78 km (SE)	12° 1'49.25"N & 79°40'21.16"E
7.	AAQ 7	Senipet	3.34 km (S)	12° 0'57.79"N & 79°39'25.94"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	30.6	37.3	33.6
AAQ-2	22.2	26.8	24.4
AAQ-3	19.7	29.7	23.4
AAQ-4	21.9	30.8	25.3
AAQ-5	22.0	32.4	27.5
AAQ-6	23.9	33.5	28.4
AAQ-7	25.5	37.6	28.6
CPCB NAAQS 2009 for PM $_{2.5}$ - 60 $\mu g/m^3$			
Particulate matter PM-$_{10}$ ($\mu g/m^3$)			
AAQ-1	63.7	77.6	70.1
AAQ-2	49.1	59.2	54.0
AAQ-3	43.0	54.8	50.0
AAQ-4	47.4	58.7	21.7
AAQ-5	50.4	64.5	55.6
AAQ-6	52.7	67.5	59.5
AAQ-7	54.5	68.6	59.6
CPCB NAAQS 2009 for PM $_{10}$ - 100 $\mu g/m^3$			
Sulphur Di-oxide as SO_2 ($\mu g/m^3$)			
AAQ-1	5.8	7.2	6.6
AAQ-2	4.3	6.6	5.4
AAQ-3	3.9	6.4	4.9
AAQ-4	4.8	7.1	5.7
AAQ-5	5.1	7.5	5.9
AAQ-6	4.9	9.5	6.9
AAQ-7	5.3	7.7	6.4
CPCB NAAQS 2009 for SO_2 – 80 $\mu g/m^3$			
Oxide of Nitrogen as NO_2 ($\mu g/m^3$)			
AAQ-1	12.5	17.1	14.5
AAQ-2	11.1	13.4	12.3
AAQ-3	8.2	10.7	9.2
AAQ-4	9.2	11.2	10.1
AAQ-5	9.8	12.8	10.9
AAQ-6	10.2	14.9	12.0
AAQ-7	10.4	14.3	11.8
CPCB NAAQS 2009 for NO_2 – 80 $\mu g/m^3$			

11.2.2 WATER ENVIRONMENT

Table 11.3 Results of Ground Water sampling Analysis in 6 locations								Specification/ Limit (As per IS:10500: 2012)	
	GW1	GW2	GW3	GW4	GW5	GW6	GW7	Desirable	Permissible
Odour	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	Agreeable	AGREEABLE	AGREEABLE	Agreeable	Agreeable
Turbidity	<1	<1	<1	<1	<1	<1	<1	Agreeable	Agreeable
pH at 25 ˚C	7.32	7.44	7.21	7.56	7.29	7.14	7.49	6.5 - 8.5	No Relaxation
Electrical Conductivity	920.5	874.6	950	1832	1036	974	845	1	5
Total Dissolved Solids	555	530	572	1100	630	586	510	500	2000
Total hardness as $CaCO_3$	192	320	279	496	410	382	326	1	15
Calcium as Ca	34.5	72.8	76.0	124	75.2	71.2	62.4	200	600
Magnesium as Mg	25.4	33.1	21.4	44.6	53.3	49.0	40.8	200	600
Calcium as $CaCO_3$	86.2	182	190	310	188	178	156	75	200
Magnesium as $CaCO_3$	106	138	89.0	186	222	204	170		
Total alkalinity as $CaCO_3$	245	232	225	520	384	212	194		
Chloride as Cl^-	142	110	136	352	170	176	152	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)	30	100
Sulphates as SO_4^{2-}	120	136	186	235	82.5	152	125	45	No Relaxation
Iron as Fe	0.12	0.07	0.09	0.05	0.04	0.11	0.09	200	400
Nitrate as NO_3	3.26	4.21	3.25	2.74	2.24	4.26	3.98	1	No Relaxation
Fluoride as F	0.54	0.49	0.52	0.56	0.37	0.58	0.48	0.1	0.3
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)	Not Specified	Not Specified

All the values were found to be within permissible limits

11.2.3 NOISE ENVIRONMENT

Noise levels were measured in 6 locations and the results are given below.

Table 11.4 Noise monitoring results

S. No	Location	Day equivalent	Night equivalent	Day & Night equivalent	Day equivalent limits by CPCB	Night equivalent limits by CPCB
1	Proposed Lease Area	53.2	43.9	51.7	55	45
2	Tiruvakkarai	52.2	41.8	50.6		
3	Thollamur	50.2	41.8	48.7		
4	Nemili	51.4	42.4	49.9		
5	Karasanur	47.9	42.7	46.7		
6	Kadagampattu	49.5	42.9	48.2		
7	Senipet	49.2	42.6	47.9		

11.2.4 SOIL ENVIRONMENT

Soil samples are collected from 6 locations and the results are given below.

Table 11.5 Results of Soil Sample Analysis

S. No	Parameter	Unit	S1	S2	S3	S4	S5	S6	S7
1	pH at 25 °C	-	7.16	6.95	7.32	7.09	7.34	7.21	7.39
2	Electrical Conductivity	µmhos /cm	220	280	252	169	284	196	271
3	Dry matter content	%	93.46	90.41	96.58	97.39	94.44	97.69	94.36
4	Water Content	%	6.54	9.59	3.42	2.61	5.56	2.31	5.64
5	Organic Matter	%	0.72	0.69	0.52	0.85	0.72	0.39	0.44
6	Soil texture	-	Sandy Clay Loam	Sandy Loam	Clay Loam	Sandy Loam	Clay Loam	Loamy Sand	Sandy Clay Loam
7	Grain Size Distribution i. Sand	%	55.62	65.9	35.24	68.97	30.62	75.48	52.25
8	ii. Silt	%	19.95	25.23	30.36	22.21	28.97	15.62	23.36
9	iii. Clay	%	24.43	8.87	34.40	8.82	40.41	8.90	24.39
10	Phosphorous as P	mg/kg	0.95	1.02	0.89	1.32	0.75	0.96	1.09
11	Sodium as Na	mg/kg	120	110.0	136	109.0	145	118	110
12	Potassium as K	mg/kg	105	95.6	112	92.8	115	106	98
13	Nitrogen and Nitregenous Compounds	mg/kg	142	128	152	125	159	138	132

14	Total Soluble Sulphate	%	BDL(D.L .0.02)	BDL(D.L .0.02)	BDL(D.L .0.02)	BDL(D.L .0.02)	BDL(D.L .0.02)	BDL(D.L .0.02)	BDL(D.L .0.02)
15	Porosity	%	42	40	45	39	46	41	40
16	Water Holding Cabacity	Inches /foot	38	36	40	35	42	37	36

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.

11.2.6LAND 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:

Table No. 11.6: Major Land Use Units of the Study Area in Percentage

S. No	Classification	Area in (sq.km)	Percentage (%)
1	Plantations	134.88	42.93
2	Built-up Land	1343	4.27
3	Crop Land	122.74	39.06
	Existing Quarry	3.45	1.09

4			
5	Land with Scrub	1.83	0.58
6	Land without Scrub	6.49	2.06
7.	Salt Affected Land	1	0.36
8.	Water Body	30.34	9.65
Total		**314.16**	**100**

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.

Thollamur Village, Vanur Taluk, Villupuram District. The total population is 3,458,793 which comprise of 1,740,819 males and 1,718,054 females. There are 688 Village Panchayats and 928 Revenue Villages in the study area.

11.2.8 HYDROGEOLOGY OF THE LEASE AREA

There is tank is located at a distance of 50 m in east direction of lease area. The hydrological and hydrogeological pattern of the study area is studied in detail using satellite imagery.

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 52m BGL. Hence, there will not be any major impact due to mining on water levels or ground water levels in the area.

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

11.2.10 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 52m BGL. Other than quarrying of minerals, no other change will be done since there is no dumping. 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 1.09.0 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 1308 trees are planned to be planted. Spacing will be 3m x 3m.

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 52m (BGL), there will not be any seepage. However, the rain water percolation and collection of water from seepage shall be less than 300lpm and it shall be pumped out periodically by a stand by diesel powered Centrifugal pump motivated with 7.5H.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

The major water bodies found in the buffer zone are.

Water bodies	Distance	Direction
Odai	10.5m	N
Odai	252m	E
Tank	1.1Km	W
Tank	810m	NE
Sangarabarani river	2.94km	SW

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

11.2.11 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.

11.2.12 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 of 10m and 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.

11.2.13 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 90 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 MoEF & CC limits since the baseline value is low.

11.2.14 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 MOEF & CC.
- 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

11.2.15 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.

11.2.16 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.

11.2.17 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 24.60 Lakhs is allocated.

11.2.18 PROJECT BENEFITS

Financial benefits

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

Social benefits

- This project provides employment to 31 people directly. 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 24.60 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/2629/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 4.34.0 Ha, while total cluster area of 11.14.0 Ha at Thollamur Village, Vanur Taluk, Viluppuram 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

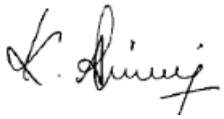
M. MANIKANDAN
EIA CO-ORDINATOR
GLOBAL MINING SOLUTIONS
SALEM

Signature & Date

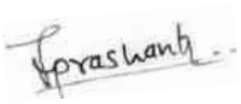
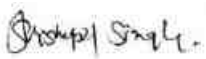
Period of involvement: December 2025 to February 2026.

Contact information:

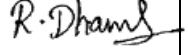
M/s Global Mining Solutions
Plot No.6, SF No. 13/2, A2, VS City, RC Chettypatty,
Kottamettupatty, Omalur,
Salem, Tamil Nadu – 636 455.

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: December 2025 to February 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: December 2025 to February 2026*	
3	*SHW*	*Ramadoss N*	*Assessment of waste generated from the project, suggested waste management practices.* *Period: December 2025 to February 2026*	
4	*SE*	*Sarasvathy K*	*Baseline SE study. Data compilation and assessment. Impact of the project on SE status of the area. Formulation of CER plan.* *Period: December 2025 to February 2026*	
5	*EB*	*Saravanan S*	*Baseline data collection of related to ecology of the area.* *Period: December 2025 to February 2026*	

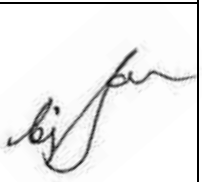
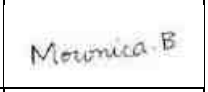
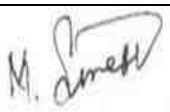
6	*HG*	*Ravinthiran N*	*Hydrogeological feature of the area. Ground water depth and impact of project on ground water of the area.* *<u>Period: December 2025 to February 2026</u>*	
7	*AQ*	*Srilatha Thiruveedhula*	*Air quality modeling utilizing the area source model. Predication of the ground level concentration of the dust. Suggesting suitable mitigation measures.* *<u>Period: December 2025 to February 2026</u>*	
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.* *<u>Period: December 2025 to February 2026</u>*	
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.* *<u>Period: December 2025 to February 2026.</u>*	

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: December 2025 to February 2026*	
11	*SC*	*Shisupal Sing*	*Soil monitoring, secondary data collection on soil type, soil management practices, utilization of topsoil.* *Period: December 2025 to February 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: December 2025 to February 2026*	

TM-EC:

S.No	Name of TM (EC)	Sector(s) proposed	Name of EC with whom to be attached	Period of involvement	Type of work	Signature
1	R. Dhanalakshmi	1	Manikandan Manickam	*December 2025 to February 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	HG	Ashok Kumar Rajagopal	*December 2025 to February 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	*December 2025 to February 2026*	Assisted by the Expert in preparation of socio-economic report.	
		SC	Shishupal Singh	*December 2025 to February 2026*	Assisted by the Expert in interpretation of soil sampling and their quality involved in the project.	
3	Mownica Balaji	AP	Dhanalakshmi Ramanathan		Associated with expert team in assessing existing air quality, impact of the project on ambient air and suggesting mitigation measures for air pollution	
4	Balasubramani G	GEO	Valliappan Meyyappan	*December 2025 to February 2026*	Overall site investigation and Mining Plan preparation. Associated with the expert in preparing Geological map.	
5	Suresh Mani	LU	Srilatha Thiruveedhula	*December 2025 to February 2026*	Associated with Experts in preparing Land use map based on satellite imagery, Land use classification and analysis, Impact prediction on surrounding land environment.	

6	Asan Ali S	NV	Srilatha Thiruveedhula	*December 2025 to February 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 practice in the mines.	
7	Prabu M	GEO	Valliappan Meyyappan	*December 2025 to February 2026*	Associated with Experts and involved in Field Investigations, Mapping /Geo-referencing	
8	Abirami Kaliyaperumal	RH	S V Prashant	*December 2025 to February 2026*	Involved with Expert team and involved in identification of Risk / Hazards and Safety Measures for various activity	
9	Dhanalakshmi Ramanathan	AQ	Srilatha Thiruveedhula	*December 2025 to February 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	WP	Abirami Kaliyaperumal	*December 2025 to February 2026*	Associated with Identification of the source of water, impact and suggesting suitable mitigation measures for water pollution	

ANNEXURE-1

File No: 13236
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA), TAMIL NADU)
***

Dated: **02/04/2026**

To,

MOORTHI
S/o.Muniyan, No.413, Mannarsamy Kovil Street, Tiruvakkarai Village, Vanur Taluk, Viluppuram District - 604304, TAMIL NADU.
moorthimuniyan1986@gmail.com

Subject: Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding.

Sir/Madam,

Sub: SEIAA, Tamil Nadu – Existing Rough Stone and Gravel Quarry over an area of 4.34.0ha of in Survey Nos. S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A and 106/4B of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu by Thiru.M.Moorthi- under project category – "B1" and Schedule S.No. 1(a) – ToR issued along with Public Hearing- preparation of EIA report – Regarding.

Ref:
1. Online proposal No. SIA/TN/MIN/559251/2026, Dated: 23/11/2025.
2. Minutes of the 691st SEAC -I Meeting held on 12.03.2026.
3. Minutes of the 986th Authority meeting held on 26.03.2026

2. The particulars of the proposal are as below:

(i) TOR Identification No.	TO25B0108TN5780122N
(ii) File No.	13236
(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.M.Moorthi
(vii) Name of Company/Organization	MOORTHI
(viii) Location of Project (District, State)	VILLUPURAM, 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 26.03.2026. 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.M.Moorthi** 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.

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 shall obtain Certified Compliance Report (CCR) from Integrated Regional Office, MoEF&CC, Chennai for the earlier Environmental Clearance obtained from DEIAA as per MoEF&CC -office memorandum vide F.No. lA3-22/10/2O22-lA.III (E177258). dated: 08.006.2022 by MOEF &CC. 2. The Project Proponent shall earmark all the safety distances prescribed in the Precise Area Communication Letter dated 30.09.2025 in the KML file and Mining Plan, and the same shall be submitted along with the EIA Report. 3. A Cluster Management Committee (CMC) shall be constituted including all the mines in the cluster as Committee Members for the effective management of the mining operation in the cluster through systematic & scientific approach with appointment of required statutory personnel, appropriate environmental management, system of maintaining the haul roads and village/panchayat roads, authorized blasting operation, Monitoring system of the environmental & other statutory compliances & its reporting status, etc. The PP shall submit the following details in the form of an Affidavit during the EIA appraisal: (i) Copy of the agreement forming CMC. (ii) The Organisation chart of the Committee with defining the role of the members (iii) The 'Standard Operating Procedures' (SoP) executing the planned activities. 4. The PP shall ensure the installation of CCTV at the proposed quarry site and ensure its inclusion during the EIA presentation.

2. Seiaa Specific Conditions :

S. No	Terms of Reference
2.1	• 1. The PP shall submit a consent document obtained from the land owner with validity beyond 14.05.2028, as the existing land consent document was executed on 15.05.2018 for a period of 10 years from the date of the document

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. 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. **<u>Forests</u>** 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

S. No	Terms of Reference
	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. 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.

S. No	Terms of Reference
	Disaster Management Plan 36. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities covering the entire mine lease period as per precise area communication order issued. **Others** 37. The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc. 38. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan. 39. The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the Environment. The ecological risks and impacts of plastic & microplastics on aquatic Environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.

Standard Terms of Reference for (Mining of minerals)

1.

S. No	Terms of Reference
1.1	Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994
1.2	A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given
1.3	All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee
1.4	All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the areashould be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone)
1.5	Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics
1.6	Details about the land proposed for mining activities should be givenwith information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority
1.7	It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with

S. No	Terms of Reference
	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
1.8	Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided
1.9	The study rea 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
1.10	Land use of the study rea 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
1.11	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
1.12	A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees
1.13	Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished
1.14	Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated
1.15	The vegetation in the RF / PF areas in the study area, with necessary details, should be given
1.16	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted
1.17	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National

S. No	Terms of Reference
	Board of Wildlifeand copy furnished
1.18	A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost
1.19	Proximity to Areas declared as Critically Polluted or the Project areas likely to come under the Aravali Range, (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered
1.20	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 w.r.t 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)
1.21	R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report
1.22	One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given
1.23	Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map
1.24	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated

S. No	Terms of Reference
1.25	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided
1.26	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided
1.27	Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided
1.28	Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished
1.29	Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out
1.30	Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same
1.31	A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given.The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution
1.32	Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines
1.33	Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report
1.34	Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report
1.35	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed

S. No	Terms of Reference
1.36	Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations
1.37	Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation
1.38	Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project
1.39	Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project
1.40	Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given
1.41	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out
1.42	A Disaster management Plan shall be prepared and included in the EIA/EMP Report
1.43	Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc
1.44	Besides the above, the below mentioned general points are also to be followed:- a) All documents to be properly referenced with index and continuous page numbering. b) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated. c) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project. d) Where the documents provided are in a language other than English, an English translation should be provided. e) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted. f) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed. g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation. h) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. i) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area

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 will take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.
    - The final EIA report shall be submitted to the SEIAA, Tamil Nadu for obtaining Environmental Clearance.

- The TORs with public hearing prescribed shall be **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 1

ந.க.எண்.அ/புவி(ம)சுர/219/2024
நாள்: 30.09.2025.

உதவி இயக்குநர் அலுவலகம்,
புவியியல் மற்றும் சுரங்கத்துறை,
விழுப்புரம்.

- 6 NOV 2025

அறிவிப்பு

பொருள்: கனிமங்களும் குவாரிகளும் - சிறுகனிமம் - சாதாரண கற்கள் மற்றும் கிராவல் - விழுப்புரம் மாவட்டம் - வானூர் வட்டம் - தொள்ளமூர் கிராமம் - பட்டா புல எண்கள். 106/2A (0.31.0), 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5), 106/4B (1.87.5) ஆகியவற்றில் 4.34.0 ஹெக்டேர் பரப்பளவில் ஐந்தாண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க குவாரி குத்தகை அனுமதி கோரி திரு.மு.மூர்த்தி, த/பெ.முனியன் என்பவர் உரிமம் வழங்க பரிந்துரை செய்து அறிக்கை வரப்பெற்றது - புலத்தணிக்கை மேற்கொள்ளப்பட்டது - குவாரி குத்தகை உரிமம் வழங்க 4.34.0 ஹெக்டேர் பரப்பினை தகுதியான நிலப்பரப்பாக கருதி ஏற்பளிக்கப்பட்ட சுரங்கதிட்டம் மற்றும் சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணைய இசைவினை பெற்று சமர்பிக்கக் கோருதல் - தொடர்பாக.

பார்வை:

1. திரு.மு.மூர்த்தி, த/பெ.முனியன், மன்னார்சாமி கோவில் தெரு, திருவக்கரை கிராமம், வானூர் வட்டம், விழுப்புரம் மாவட்டம் என்பவரது விண்ணப்பம் நாள்.01.08.2024 (இவ்வலுவலகம் வரப்பெற்ற நாள்.02.08.2024)
2. இவ்வலுவலக கடிதம் ந.க.எண்.அ/பு&சு/219/2024 நாள்: 11.09.2024.
3. வருவாய் கோட்டாட்சியர், விழுப்புரம் கடித எண். ந.க.அ4/1077/2025, நாள்.08.05.2025.
4. விழுப்புரம் மாவட்ட புவியியல் மற்றும் சுரங்கத்துறை உதவி புவியியலாளர் புலத்தணிக்கை அறிக்கை நாள்: 24.09.2025.

விழுப்புரம் மாவட்டம், வானூர் வட்டம், திருவக்கரை கிராமத்தைச் சேர்ந்த திரு.மு.மூர்த்தி, த/பெ.முனியன் என்பவர் விழுப்புரம் மாவட்டம், வானூர் வட்டம், தொள்ளமூர் கிராமம், பட்டா புல எண்கள். 106/2A (0.31.0), 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5), 106/4B (1.87.5) ஆகியவற்றின் மொத்த பரப்பு 4.34.0 ஹெக்டேர் பரப்பளவில் ஐந்தாண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுப்பது தொடர்பாக 1959-ஆம் ஆண்டு தமிழ்நாடு சிறுவகை கனிமச்சலுகை விதிகள், விதி எண்.19-ன்கீழ் குவாரிப்பணி செய்ய உரிமம் வழங்கிட கோரி பார்வை 1-ல் காணும் விண்ணப்பம் செய்துள்ளார்.

2) மனுதாரர் உரிய படிவத்தில் மனு செய்திருப்பதுடன், விண்ணப்பக் கட்டணம் ரூ.1500/-ஐ இசலான் எண். 20240731014881, நாள்: 01.08.2024-ல் பாரத ஸ்டேட் வங்கியில் செலுத்தியுள்ளார். மேலும், மனுதாரர் செலுத்த வேண்டிய வருவான வரி மற்றும் கனிம வரி ஏதும் நிலுவையில் இல்லை என்பதற்கான சான்றுறுதி ஆவணம் மற்றும் கிராம கணக்கு நகல்களையும் சமர்ப்பித்துள்ளார்.

3) மனுதாரர் சாதாரண கற்கள் மற்றும் கிராவல் வெட்டி எடுக்க உரிமம் கோரிய புலன்களை விழுப்புரம் வருவாய் கோட்டாட்சியர் மற்றும் விழுப்புரம் மாவட்ட புவியியல் மற்றும் சுரங்கத்துறை, உதவி புவியியலாளர் ஆகியோர் இடப்பார்வை செய்து அறிக்கை சமர்ப்பித்துள்ளனர்.

4) பார்வை 3-ல் கண்ட விழுப்புரம் வருவாய் கோட்டாட்சியர் அவர்களிடமிருந்து வரப்பெற்ற விசாரணை அறிக்கை பரிசீலனை செய்யப்பட்டதில், விழுப்புரம் மாவட்டம் , வானூர் வட்டம், நெமிலி குறுவட்டம், தொள்ளமூர் கிராமம், பட்டா புல எண்கள் 106/2ஏ -0.31.0 ஏர்ஸ், 106/2பி -0.40.5 ஏர்ஸ், 106/3 -0.58.5 ஏர்ஸ், 106/4ஏ - 1.16.5 ஹெக்டேர் பரப்பில் 106/4பி -1.87.50 ஹெக்டேர் ஆகியவற்றின் மொத்தபரப்பு 4.34.0 ஹெக்டேர் பரப்பளவில் 5 ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க குவாரி குத்தகை அனுமதி கோரி திரு.மூர்த்தி த/பெ முனியன், தொள்ளமூர் என்பவர் விண்ணப்பம் அளித்தது தொடர்பாக விசாரணை அறிக்கை கோரியதின் பேரில், புலத்தின் புலப்படத்துடன் கீழ்கண்ட குறிப்புகளுடன் விசாரணை செய்து அறிக்கை சமர்ப்பித்துள்ளார்.

"அ பதிவேடு"

வ. எண்	புல எண்	வகைபாடு	விஸ்தீரணம்	"அ" பதிவேட்டின் விவரம்	தற்போதய உரிமை விவரம்/ பட்டா எண்
1	106/2ஏ	ர.புஞ்சை	0.31.0	திரு.மோகன்	திரு.வேணுகோபால் த/பெ பெருமாள், பட்டா எண் 1316
2	106/2பி	ர.புஞ்சை	0.40.5	திரு.மோகன்	திரு.மூர்த்தி த/பெ முனியன், பட்டா எண். 315
3	106/3	ர.புஞ்சை	0.58.5	திரு.மோகன்	திரு.மூர்த்தி த/பெ முனியன், பட்டா எண். 315
4	106/4ஏ	ர.புஞ்சை	1.16.5	திரு.மோகன்	திரு.மூர்த்தி த/பெ முனியன், பட்டா எண். 315
5	106/4பி	ர.புஞ்சை	1.87.50	திரு.மோகன்	திரு.வேணுகோபால் த/பெ பெருமாள், பட்டா எண் 1316

நான்கு எல்லை விவரம் பின்வருமாறு:-

வ.எண்	புல எண்/ பரப்பு	எல்லைகள்
1.	106/2ஏ 0.31.0	வடக்கில் புல எண் 105/-அ.புறம்போக்கு-வண்டிப்பாதை
		தெற்கில் புல எண் 106/3-பட்டா நிலம்
		கிழக்கில் புல எண்/106/2b - பட்டா நிலம்
		மேற்கில் புல எண் 133/3பி திருவக்கரை கிராமம்-பட்டா நிலம்
2.	106/2பி	வடக்கில் புல எண் 105/-அ.புறம்போக்கு-வண்டிப்பாதை

	0.40.5	தெற்கில் புல எண் 106/3-பட்டா நிலம்
		கிழக்கில் புல எண்/107-அ.புறம்போக்கு-ஏரி
		மேற்கில் புல எண் 106/2எ-பட்டா நிலம்
3.	106/3	வடக்கில் புல எண் 106/2எ,106/2பி,பட்டா நிலம்
	0.58.5	தெற்கில் புல எண் 106/4எ-பட்டா நிலம்
		கிழக்கில் புல எண்/107-அ.புறம்போக்கு-ஏரி,106/4எ பட்டா நிலம்
		மேற்கில் புல எண் 133/5-பட்டா நிலம்
4.	106/4எ	வடக்கில் புல எண் 106/3-பட்டா நிலம் ,107-அ.புறம்போக்கு-ஏரி
	1.16.5	தெற்கில் புல எண் 106/4எ-பட்டா நிலம்
		கிழக்கில் புல எண்/107-அ.புறம்போக்கு-ஏரி,
		மேற்கில் புல எண் திருவக்கரை 133/5,135/7-பட்டா நிலங்கள்
5.	106/4பி	வடக்கில் புல எண் 106/4எ-பட்டா நிலம்
	1.87.5	தெற்கில் திருவக்கரை கிராம புல எண் 125/10,12,13,14,15, 16,17-பட்டா நிலம்
		கிழக்கில் புல எண்/107-அ.புறம்போக்கு-ஏரி,
		மேற்கில் புல எண் திருவக்கரை 125/7,125/9 பட்டா நிலங்கள்

விழுப்புரம் மாவட்டம், வானூர் வட்டம், தொள்ளமூர் கிராமம், புல எண் 106/2பி -0.40.5 ஏர்ஸ்,106/3-58.5 ஏர்ஸ், 106/4எ-1.16.5 ஹெக்டேர் ஆகிய நிலங்கள் பட்டா எண் 1315-ன் படி, குவாரி உரிமை கோரும், திரு.மூர்த்தி த/பெ முனியன் என்பவர் பெயரில் தாக்கலாகியுள்ளது எனவும், சர்வே எண் 106/2எ-0.31.0,106/4பி-1.87.5, ஆகிய புலன்கள் திரு.வேணுகோபால் த/பெ பெருமாள் என்பவர் பெயரில் தாக்கலாகியுள்ளது எனவும், குவாரி உரிமை கோரும் புலன்களில் சர்வே எண் 106/2எ-0.31.0,106/4பி-1.87.5 ஆகியவை அனைத்தும், திரு.வேணுகோபால் த/பெ பெருமாள் என்பவர் வானூர் சார் பதிவாளர் ஆவண எண் : 2089 /2028 நாள்:10.05.2018 ன்படி வானூர் வட்டம், திருவக்கரை கிராமத்தை சேர்ந்த திரு.மூர்த்தி த/பெ முனியன் என்பவருக்கு 10 ஆண்டுகளுக்கு கல்குவாரி தொழில் செய்து கொள்ள, சம்மதித்து குத்தகை ஆவணம் பதிவுசெய்யப்பட்டுள்ளது எனவும், மேலும் குத்தகை உரிமம் கோரும் இடத்திலிருந்து வெட்டியெடுக்கப்படும் கற்கள் மற்றும் கிராவலை வெளியில் எடுத்துச்செல்ல ஏதுவாக உள்ள பாதை வசதி உள்ள புல எண்கள் 105,104,103,132,137,80,141 18,19 ஆகிய புல எண்கள் அனைத்தும் அரசு புறம்போக்கு(வண்டிப்பாதை)-ன் வழியாக தொள்ளமூர் to புதுகுப்பம் சாலையை அடைய அணுகு சாலை வசதி உள்ளது எனவும், குவாரி குத்தகை கோரியுள்ள புலங்களில் இருந்து குடியிருப்பு பகுதிகள் எனில் 300 மீ சுற்றுவட்டாரத்திற்குள் ஏதுமில்லை எனவும், மின்கம்பி பாதைகளுக்கும் / தொலைபேசி பாதைகளுக்கும் குத்தகை கோரும் புலங்களுக்கும் இடையே 50 மீ இடைவெளியில் ஏதுமில்லை எனவும், குவாரி குத்தகை வழங்க ஆட்சேபணை ஏதுமில்லை என்பது கிராம

நிர்வாக அலுவலர் விசாரணையில் தெரியவருவதாகவும், குத்தகைதாரர் குவாரி அனுமதி கோரும் புல எண்களில், குறிப்பிட்ட புலங்களில், புலத்தின் ஒரு பகுதியில் மட்டும் குவாரி செய்ய அனுமதி வேண்டும் பட்சத்தில் அந்த குறிப்பிட்ட பகுதியை புலவரைபடத்தில் அளவுகளுடன் வரையறுத்து காட்டப்பட்டுள்ளது எனவும், உரிமை கோரும் புல எண்களில் 106/2ஏ -0.31.0 ஏர்ஸ், 106/2பி -0.40.5 ஏர்ஸ், 106/3 -0.58.5 ஏர்ஸ், 106/4ஏ - 1.16.5 ஹெக்டேர் பரப்பில் 106/4பி -1.87.50 ஹெக்டேர் ஆகியவற்றின் மொத்தபரப்பு 4.34.0 ஹெக்டேர் பரப்பில் கடந்த காலங்களில் குவாரி பணிக்கு அனுமதி பெறப்பட்டது எனவும், அவ்விடத்தில் 3.70.50 ஹெக்டேர் இடத்தில் குவாரிப்பணி செய்து 18.4 மீட்டர் ஆழம் தோண்டப்பட்டுள்ளது எனவும், மேலும் புல எண் 106/4பி-1.87.5 குவாரி உரிமம் பெற்று குவாரிப்பணிகள் ஏதும் செய்யப்படாமல் உள்ளது எனவும், அதன் பரப்பு 0.63.5 ஹெக்டேர் எனவும், குவாரி உரிமம் கோரும் புலன்களுக்கு அருகே சர்வே எண் 107-ஏரி அமைந்துள்ளது எனவும், மேலும் மற்றொரு புல எண் 105/-அ.புறம்போக்கு-வண்டிப்பாதை என உள்ளது எனவும், சர்வே எண் 107-ல் உள்ள ஏரி அருகே உள்ளதால் குவாரி செய்யும் இடத்தில் இருந்து 50மீ பாதுகாப்பு இடைவெளி விடப்பட்டுள்ளது எனவும், அவ்வாறகவே புல வரைபடத்தில் குறிப்பிடப்பட்டுள்ளது எனவும், அரசாணை எண்.295, தொழில்துறை (MMC.1) நாள்:03.11.2021ன்படி குவாரி குத்தகை உரிமம் கோரும் பகுதியானது தொல்லியல்/புராதான/வரலாற்று சின்னங்கள் ஆகியவை ஏதுமில்லை எனவும், தேசிய பூங்காக்கள், வன விலங்கு சரணாலயம், புலிகள் காப்பகம், யானை வழித்தடங்கள், காப்புக்காடுகள் ஏதுமில்லை எனவும், இப்புல எண்களில் கோவில், மசூதி, கிருத்துவ ஆலையங்கள் போன்ற வழிபாட்டு தலங்கள் ஏதுமில்லை எனவும், கல்கட்டிடம், கிணறு, புராதனச்சின்னங்கள், இடுகாடு மற்றும் சுடுகாடு போன்றவை ஏதுமில்லை எனவும் தெரிவித்து, மனுதாரருக்கு வானூர் வட்டம், நெமிலி குறுவட்டம், தொள்ளமூர் கிராமம் 106/2ஏ -0.31.0 ஏர்ஸ், 106/2பி -0.40.5 ஏர்ஸ், 106/3 -0.58.5 ஏர்ஸ், 106/4ஏ - 1.16.5 ஹெக்டேர் பரப்பில் 106/4பி -1.87.50 ஹெக்டேர் ஆகிய இவற்றின் மொத்தபரப்பு 4.34.0 ஹெக்டேர் பரப்பளவில் 5 ஆண்டுகளுக்கு சாதாரண கற்கள் வெட்டியெடுக்க குவாரி குத்தகை அனுமதி வழங்கலாம் என பரிந்துரை செய்துள்ளார்.

5) பார்வை 4-ல் காணும் விழுப்புரம் மாவட்ட புவியியல் மற்றும் சுரங்கத்துறை அலுவலக உதவி புவியியலாளர் அவர்களின் புலத்தணிக்கை அறிக்கையில், விழுப்புரம் மாவட்டம், வானூர் வட்டம், திருவக்கரை கிராமத்தைச் சேர்ந்த திரு.மு.மூர்த்தி, த/பெ.முனியன் என்பவர் விழுப்புரம் மாவட்டம், வானூர் வட்டம், தொள்ளமூர் கிராமம், பட்டா புல எண்கள். 106/2A (0.31.0), 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5), 106/4B (1.87.5) ஆகியவற்றின் மொத்த பரப்பு 4.34.0 ஹெக்டேர் பரப்பளவில் ஐந்தாண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க குவாரி குத்தகை உரிமம் கோரியது தொடர்பாக, விழுப்புரம் வருவாய் கோட்டாட்சியர் அவர்களிடமிருந்து வரப்பெற்ற பரிந்துரை அறிக்கையை தொடர்ந்து 24.09.2025 அன்று புலத்தணிக்கை

செய்யப்பட்டது எனவும், இத்தணிக்கையின்போது தனி வருவாய் ஆய்வாளர் மற்றும் விண்ணப்பதாரர் உடனிருந்தனர் எனவும் தெரிவித்துள்ளார்.

குவாரி குத்தகை உரிமம் வழங்க கோரிய விழுப்புரம் மாவட்டம், வானூர் வட்டம், தொள்ளமூர் கிராமம், பட்டா புல எண்கள். 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5) ஆகியவை பட்டா எண்கள்.1315-ன்படி மனுதாரர் திரு.மு.மூர்த்தி, த/பெ.முனியன் என்பவர் பெயரிலும் மற்றும் புல எண்கள்.106/2A (0.31.0), 106/4B (1.87.5) ஆகியவை பட்டா எண்.1316-ன்படி திரு.வேணுகோபால், த/பெ.பெருமாள் என்பவர் பெயரிலும் தொள்ளமூர் கிராம கணக்குகளில் தாக்கலாகியுள்ளது எனவும், இப்புலன்களை பட்டாதாரர்களிடமிருந்து திரு.மு.மூர்த்தி, த/பெ.முனியன் என்பவர் வானூர் சார்பதிவாளர் அலுவலக ஆவண எண்.2089/2018 நாள்.15.05.2018-ன்படி சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க குவாரி அமைத்துக் கொள்வதற்கு 10 ஆண்டுகளுக்கு குத்தகை ஆவணம் பெற்று சமர்ப்பித்துள்ளார் எனத் தெரிவித்துள்ளார்.

குத்தகை உரிமம் வழங்க கோரியுள்ள புலங்களின் சக்குபந்தி விவரம் கீழ்கண்டவாறு அமைந்துள்ளது.

நான்கு எல்லைகள் விவரம்.

வ. எண்.	புல எண் / பரப்பு	எல்லைகள்	
1.	106/2A - 0.31.0 ஹெக்டேர்	வடக்கு	புல எண். 105/ - வாய்க்கால் & வண்டிபாதை
		தெற்கு	புல எண். 106/3 பட்டா நிலம்
		கிழக்கு	புல எண். 106/2b பட்டா நிலம்
		மேற்கு	புல எண். 133/3பி நெமிலி கிராம எல்லை பட்டா நிலம் மற்றும் 106/1 தொள்ளமூர் கிராம எல்லை பட்டா நிலம்.
2.	106/2B - 0.40.5 ஹெக்டேர்	வடக்கு	புல எண். 105/ - வாய்க்கால் & வண்டிபாதை
		தெற்கு	புல எண். 106/3 பட்டா நிலம்
		கிழக்கு	புல எண். 107/- அ.புறம்போக்கு ஏரி
		மேற்கு	புல எண். 106/2ஏ பட்டா நிலம்
3.	106/3 - 0.58.5 ஹெக்டேர்	வடக்கு	புல எண்கள். 106/2ஏ,106/2பி பட்டா நிலம்
		தெற்கு	புல எண். 106/4ஏ பட்டா நிலம்
		கிழக்கு	புல எண். 107/- அ.புறம்போக்கு-ஏரி, புல எண். 106/4ஏ பட்டா நிலம்
		மேற்கு	புல எண். 133/5 பட்டா நிலம்
4.	106/4A - 1.16.5 ஹெக்டேர்	வடக்கு	புல எண். 106/3 பட்டா நிலம் புல எண். 107/- அ.புறம்போக்கு ஏரி
		தெற்கு	புல எண். 106/4ஏ பட்டா நிலம்
		கிழக்கு	புல எண். 107/- அ.புறம்போக்கு ஏரி
		மேற்கு	புல எண். 133/5 நெமிலி கிராம பட்டா நிலம் 135/7 திருவக்கரை கிராம எல்லை
5.	106/4B - 1.87.5 ஹெக்டேர்	வடக்கு	புல எண். 106/4ஏ பட்டா நிலம்
		தெற்கு	புல எண். 125/10, 12, 13, 14, 15, 16, 17 பட்டா நிலம் திருவக்கரை எல்லை
		கிழக்கு	புல எண். 107/- அ.புறம்போக்கு ஏரி
		மேற்கு	புல எண். 125/7, 125/9 பட்டா நிலங்கள் திருவக்கரை கிராம எல்லை

அனுமதி கோரும் புலத்தில் ஏற்கனவே மாவட்ட ஆட்சியரின் செயல்முறை ஆணைகள் ந.க.களண்.அ/பு&சு/334/2010 நாள்.20.04.2010-ன்படி வானூர் வட்டம், தொள்ளமூர் கிராமம், பட்டா புலஎண்கள். 106/1 (0.02.0), 105/2A (0.31.0), 106/3 (0.58.5), 106/4A (0.16.5) மற்றும் 106/4B (0.87.5) ஆகியவற்றின் மொத்த பரப்பு 3.95.5 ஹெக்டேர் பரப்பளவில் திரு.மோகன், த/பெ.மதுரை, சென்னை என்பவருக்கு சாதாரண கற்கள் வெட்டியெடுக்க 26.04.2010 முதல் 25.04.2015 வரை ஐந்து ஆண்டுகளுக்கு குவாரி குத்தகை அனுமதி வழங்கப்பட்டு குத்தகை காலம் 25.04.2015 உடன் முடிவடைந்துள்ளது எனவும், அதனை தொடர்ந்து மாவட்ட ஆட்சியரின் செயல்முறை ஆணைகள் ந.க.எண்.அ/பு&சு/203/2018 நாள்.15.02.2019-ன்படி வானூர் வட்டம், தொள்ளமூர் கிராம பட்டா புல எண்கள். 106/2A (0.31.0), 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5), 106/4B (1.87.5) ஆகியவற்றின் மொத்த பரப்பு 3.93.5 ஹெக்டேர் பரப்பளவில் திரு.M.மூர்த்தி, த/பெமுனியன் என்பவருக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க 15.02.2019 முதல் 14.02.2024 வரை ஐந்து ஆண்டுகளுக்கு குவாரி குத்தகை அனுமதி வழங்கப்பட்டு குத்தகை காலம் 14.02.2024 உடன் முடிவடைந்துள்ளது எனவும், விண்ணப்பத்துள்ள புலன்களில் ஏற்கனவே குவாரிப்பணி மேற்கொண்டதில் குவாரிப்பள்ளங்கள் காணப்பட்டன எனவும், குவாரி குத்தகை உரிமம் வழங்க கோரும் புலங்களில் காணப்படும் கற்கள் சார்னகைட் வகையைச் சேர்ந்த கற்கள். இக்கற்கள் கட்டுமான பணிக்கு பயன்படும் சாதாரண கற்கள், எம். சாண்ட், ஜல்லி தயாரிக்க உகந்தது எனவும் தெரிவித்துள்ளார். மேலும், விழுப்புரம் வருவாய் கோட்டாட்சியரின் அறிக்கையில் அனுமதி கோரும் புலத்திற்கு வடக்கு பகுதியில் புல எண்.105/- அரசு புறம்போக்கு வண்டிப்பாதை செல்வதாக தெரிவிக்கப்பட்டுள்ளது. ஆனால் கிராம கணக்குகளில் வாய்க்கால் என பதிவாகியுள்ளது.

குவாரி குத்தகை கோரும் புலங்களுக்கு 60 மீட்டர் சுற்றளவில் பாதுகாக்கப்பட்ட வனப்பகுதிகள் ஏதுமில்லை எனவும், குவாரி குத்தகை கோரும் புலன்களுக்கு 300 மீட்டர் சுற்றளவில் குடியிருப்பு பகுதிகள் ஏதுமில்லை எனவும், குவாரி குத்தகை அனுமதி புலன்களுக்கு 50 மீட்டர் சுற்றளவில் இருப்புபாதை, கடுகாடு, இடுகாடு மற்றும் உயர்வழுத்த / தாழ்வழுத்த மின்கம்பிகள் ஏதும் இல்லை எனவும், மேலும், 1 கி.மீ இடைவெளியில் தேசிய பூங்காக்கள், வனவிலங்கு சரணாலயம், புலிகள் காப்பகம், யானை வழித்தடங்கள் ஏதுமில்லை எனவும், கனிமங்களை எடுத்துச் செல்வதற்கான பாதை வசதி உள்ளது எனவும், விண்ணப்ப புலன்களின் வடக்கு பகுதியில் புல எண்.105-ல் அரசு புறம்போக்கு வண்டிப்பாதை செல்கிறது எனவும், மேலும் கிழக்கு பகுதியில் புல எண்.107/-ல் தொள்ளமூர் ஏரி அமைந்துள்ளது எனவும் தெரிவித்துள்ளார்.

எனவே, விழுப்புரம் வருவாய் கோட்டாட்சியர் அவர்களின் பரிந்துரை அறிக்கை, விண்ணப்பதாரரின் கோரிக்கை மற்றும் கள ஆய்வின் அடிப்படையில், விழுப்புரம் மாவட்டம், வானூர் வட்டம், தொள்ளமூர் கிராமம், பட்டா புல எண்கள். 106/2A (0.31.0), 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5), 106/4B (1.87.5) ஆகியவற்றில்

4.34.0 ஹெக்டேர் பரப்பளவில் சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க ஐந்து (05) ஆண்டுகளுக்கு கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு 1959-ஆம் ஆண்டு தமிழ்நாடு சிறுவகை கனிமச்சலுகை விதிகளில் விதி எண்.19(1)ன்கீழ் உரிமம் வழங்க மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் தடையில்லா சான்று மற்றும் தமிழ்நாடு மாசுக்கட்டுப்பாடு வாரியம் அவர்களின் தடையின்மை சான்றினை பெற்று சமர்ப்பித்த பின்பு அதன் நிபந்தனைகளுக்கு உட்பட்டு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி பணி செய்து கொள்ள விண்ணப்பதாரர் திரு.மு.மூர்த்தி, த/பெ.முனியர் என்பவருக்கு அனுமதி வழங்கலாம் என பரிந்துரை செய்துள்ளார்.

நிபந்தனைகள்:-

1. விண்ணப்ப புலங்களின் அருகிலுள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டர் பாதுகாப்பு இடைவெளி விடப்பட வேண்டும்.
2. குவாரி குத்தகை வழங்கப்பட உள்ள புல எண்களுக்கு வடக்கு புறத்தில் சர்வே எண். 105/-ல் உள்ள வாய்க்கால் மற்றும் வண்டிபாதைக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு குவாரிப்பணி மேற்கொள்ள வேண்டும்.
3. குவாரி குத்தகை வழங்கப்பட உள்ள புல எண்களுக்கு கிழக்கு புறத்தில் சர்வே எண். 107/-ல் அமைந்துள்ள ஏரி புறம்போக்கிற்கு 50 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு குவாரிப்பணி மேற்கொள்ள வேண்டும்.
4. குவாரிப்பணி மேற்கொள்ளும் போது அருகிலுள்ள பட்டா மற்றும் அரசு புறம்போக்கு நிலங்களுக்கு எவ்வித இடையூறும் இல்லாமல் குவாரிப்பணி செய்ய வேண்டும்.
5. குவாரி குத்தகை வழங்கும் முன்பு விண்ணப்பித்துள்ள இடத்தினை DGPS சர்வே பணி மேற்கொண்டு அதன் அறிக்கையை சமர்பிக்க வேண்டும்.
6. முறைப்படியும், விஞ்ஞான பூர்வமாகவும் குவாரிப்பணி செய்ய வேண்டும்.
7. சான்றிதழ் பெறப்பட்ட போர்மேன், வெடிப்பாளர் மற்றும் சுரங்க மேலாளர் மூலம் குவாரிப்பணி செய்யப்பட வேண்டும்.
8. குவாரிப்பணி தொடங்குவதற்கு முன் சுரங்க பாதுகாப்பு இயக்குநர், சென்னை அவர்களுக்கு தகவல் தெரிவிக்கப்பட வேண்டும்.
9. பாறைகளை தகர்க்க கைத்துளைப்பான்களை கொண்டு பாறைகளை துளையிட்டு குறைவான வெடிப்பொருட்களை பயன்படுத்த வேண்டும்.
10. குவாரிப்பணி தொடங்குவதற்கு முன்பாக குவாரியை சுற்றி முள்கம்பி வேலி அமைத்து குவாரிப்பணி தொடங்க வேண்டும்.
11. குவாரித் தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்ய Mettaliferrous Mines விதிகளின்படி அகலமானதும், பாதுகாப்பானதுமான Benches அமைத்து பாதுகாப்பான முறையில் குவாரிக்குள் வாகனங்கள் சென்று வரவும் மற்றும் குவாரி தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்தும் குவாரிப்பணி செய்ய வேண்டும்.
12. குவாரிப்பணி செய்வதற்கு பரிந்துரை செய்யப்பட்ட கனிமங்களான சாதாரண கற்கள் மற்றும் கிராவல் ஆகியவற்றை தவிர வேறு கனிமங்கள் ஏதும் கண்டறியப்பட்டால் உடனடியாக குவாரிப்பணியினை நிறுத்துவதோடு, புவியியல் மற்றும் சுரங்கத்துறை, விழுப்புரம் அலுவலகத்திற்கு தகவல் தெரிவிக்க வேண்டும்.
13. ஏதிர்வரும் காலங்களில் Drone Survey மூலம் அளவீடு செய்து அபராத நடவடிக்கை ஏதேனும் விதிக்கப்படின் அதனை விண்ணப்பதாரர் செலுத்த வேண்டும்.

14. தமிழ்நாடு சிறுகனிம சலுகை விதிகள் 1959 விதி-41ன்படி தகுதிவாய்ந்த நபரால் சுரங்க திட்டம் தயார் செய்து உதவி இயக்குநர் அவர்களின் ஒப்புதல் பெறவேண்டும்.
15. தமிழ்நாடு சிறுகனிம சலுகை விதிகள் 1959 விதி-42ன்படி மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்திடமிருந்து சுற்றுச்சூழல் சான்று பெற்று சமர்பிக்கப்படவேண்டும்.

எனவே, விழுப்புரம் வருவாய் கோட்டாட்சியர் மற்றும் விழுப்புரம் மாவட்ட புவியியல் மற்றும் சுரங்கத்துறை உதவி புவியியலாளர் ஆகியோரின் பரிந்துரை அறிக்கையினை பரிசீலனை செய்யப்பட்டு, விழுப்புரம் மாவட்டம், வானூர் வட்டம், தொள்ளமூர் கிராமம், பட்டா புல எண்கள். 106/2A (0.31.0), 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5), 106/4B (1.87.5) ஆகியவற்றில் 4.34.0 ஹெக்டேர் பரப்பளவில் பரப்பளவில் அரசு நிபந்தனைகளுக்குட்பட்டு 05 (ஐந்து) வருட காலத்திற்கு விண்ணப்பத்தாரர் திரு.மு.மூர்த்தி, த/பெ.முனியன் என்பவருக்கு குவாரி குத்தகை உரிமம் வழங்குவதற்குரிய தகுதியான நிலப்பரப்பாக கருதப்படுகிறது. அதன் அடிப்படையில், தமிழ்நாடு சிறுகனிம சலுகை விதிகள் 1959 விதி எண்.41-ன்படி குவாரிப்பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்க திட்டத்தினை தகுதிவாய்ந்த நபர் (RQP) மூலமாக கீழ்கண்ட நிபந்தனைகளுக்குட்பட்டு தயாரித்து அதனை 90 தினங்களுக்குள் உதவி இயக்குநர் (புவியியல் மற்றம் சுரங்கத்துறை) அவர்களின் பரிசீலனைக்கு சமர்ப்பிக்குமாறு விண்ணப்பதாரருக்கு அறிவுறுத்தப்படுகிறது.

நிபந்தனைகள்:-

1. விண்ணப்ப புலங்களின் அருகிலுள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டர் பாதுகாப்பு இடைவெளி விடப்பட வேண்டும்.
2. குவாரி குத்தகை வழங்கப்பட உள்ள புல எண்களுக்கு வடக்கு புறத்தில் சர்வே எண். 105/-ல் உள்ள வாய்க்கால் மற்றும் வண்டிபாதைக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு குவாரிப்பணி மேற்கொள்ள வேண்டும்.
3. குவாரி குத்தகை வழங்கப்பட உள்ள புல எண்களுக்கு கிழக்கு புறத்தில் சர்வே எண். 107/-ல் அமைந்துள்ள ஏரி புறம்போக்கிற்கு 50 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு குவாரிப்பணி மேற்கொள்ள வேண்டும்.
4. குவாரிப்பணி மேற்கொள்ளும் போது அருகிலுள்ள பட்டா மற்றும் அரசு புறம்போக்கு நிலங்களுக்கு எவ்வித இடையூறும் இல்லாமல் குவாரிப்பணி செய்ய வேண்டும்.
5. குவாரி குத்தகை வழங்கும் முன்பு விண்ணப்பித்துள்ள இடத்தினை DGPS சர்வே பணி மேற்கொண்டு அதன் அறிக்கையை சமர்பிக்க வேண்டும்.
6. முறைப்படியும், விஞ்ஞான பூர்வமாகவும் குவாரிப்பணி செய்ய வேண்டும்.
7. சான்றிதழ் பெறப்பட்ட போர்மேன், வெடிப்பாளர் மற்றும் சுரங்க மேலாளர் மூலம் குவாரிப்பணி செய்யப்பட வேண்டும்.
8. குவாரிப்பணி தொடங்குவதற்கு முன் சுரங்க பாதுகாப்பு இயக்குநர், சென்னை அவர்களுக்கு தகவல் தெரிவிக்கப்பட வேண்டும்.
9. பாறைகளை தகர்க்க கைத்துளைப்பான்களை கொண்டு பாறைகளை துளையிட்டு குறைவான வெடிப்பொருட்களை பயன்படுத்த வேண்டும்.
10. குவாரிப்பணி தொடங்குவதற்கு முன்பாக குவாரியை சுற்றி முள்கம்பி வேலி அமைத்து குவாரிப்பணி தொடங்க வேண்டும்.

11. குவாரித் தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்ய Metalliferous Mines விதிகளின்படி அகலமானதும், பாதுகாப்பானதுமான Benches அமைத்து பாதுகாப்பான முறையில் குவாரிக்குள் வாகனங்கள் சென்று வரவும் மற்றும் குவாரி தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்தும் குவாரிப்பணி செய்ய வேண்டும்.
12. குவாரிப்பணி செய்வதற்கு பரிந்துரை செய்யப்பட்ட கனிமங்களான சாதாரண கற்கள் மற்றும் கிராவல் ஆகியவற்றை தவிர வேறு கனிமங்கள் ஏதும் கண்டறியப்பட்டால் உடனடியாக குவாரிப்பணியினை நிறுத்துவதோடு, புவியியல் மற்றும் சுரங்கத்துறை, விழுப்புரம் அலுவலகத்திற்கு தகவல் தெரிவிக்க வேண்டும்.
13. தமிழ்நாடு சிறுகனிம சலுகை விதிகள் 1959 விதி-41ன்படி தகுதிவாய்ந்த நபரால் சுரங்க திட்டம் தயார் செய்து உதவி இயக்குநர் அவர்களின் ஒப்புதல் பெறவேண்டும்.
14. தமிழ்நாடு சிறுகனிம சலுகை விதிகள் 1959 விதி-42ன்படி மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்திடமிருந்து சுற்றுச்சூழல் சான்று பெற்று சமர்பிக்கப்படவேண்டும்.

உதவி இயக்குநர்,
புவியியல் மற்றும் சுரங்கத்துறை,
விழுப்புரம்.

பெறுநர்:-

திரு.மு.மூர்த்தி த/பெ.முனியன்,
எண்.413, மன்னார்சாமி கோவில் தெரு,
திருவக்கரை கிராமம்,
வானூர் வட்டம்,
விழுப்புரம் மாவட்டம்.

நகல்: இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை, சென்னை.
நகல்: மாநில சுற்றுசூழல் தாக்க தடையாக்க மதிப்பீட்டு ஆணையம், சென்னை.

ANNEXURE-3

From
Thiru.S.Rameshkumar, M.Sc.,
Assistant Director,
Dept. of Geology and Mining,
Viluppuram District,
Viluppuram.

To
Thiru.M.Moorthi,
S/o.Muniyan,
Mannarsamy Kovil Street,
Thiruvakkarai Village,
Vanur Taluk,
Viluppuram District.

Rc.No.B/G&M/219/2024, Dated 06.11.2025.

Sir,

Sub: Mines and Minerals – Minor Mineral – Rough stone and Gravel - Viluppuram District – Vanur Taluk – Thollamur Village – Patta lands in S.F.Nos.106/2A (0.31.0), 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5), 106/4B (1.87.5) - over an extent of 4.34.0 Hectares - quarry lease application preferred by Thiru.M.Moorthi, S/o.Muniyan – Precise area communicated - Draft Mining Plan submitted – Approved – Regarding.

Ref: 1. Application dated 01.08.2024 from Thiru.M.Moorthi, S/o.Muniyan, Mannarsamy Kovil Street, Thiruvakkarai Village, Vanur Taluk, Viluppuram District.
2. Assistant Director, Geology and Mining, Viluppuram Precise area communication notice Rc.No. B/G&M/219/2024, Dated: 30.09.2025.
3. Draft Mining Plan submitted by Thiru.M.Moorthi, S/o.Muniyan, Dated: 30.10.2025.

****

Thiru.M.Moorthi, S/o.Muniyan has preferred an application for quarrying of Rough stone and Gravel over an extent of 4.34.0 Hects of Patta lands in S.F.Nos.106/2A (0.31.0), 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5), 106/4B (1.87.5) in Thollamur Village, Vanur Taluk, Viluppuram District for a period of 05 years under the provisions of Rule 19 (1) of Tamil Nadu Minor Mineral Concession Rules, 1959. In this regard, the precise area communication has been issued vide letter dated 30.09.2025 with a direction to submit draft mining plan for approval and to obtain Environment Clearance in respect of the precise area as per Rule 41 of Tamil Nadu Minor Mineral Concession Rules, 1959.

2) Accordingly, the applicant has submitted three copies of draft Mining Plan vide letter dated 30.10.2025 and the same has been examined in details and it is found correct.

3) As per the mining plan, the available geological and minable reserves as follows.

Depth in Mts.	Geological reserves	Minable Reserves
52 m below ground level	Rough stone: 1527920 cbm / 4201780.00 MT Gravel : 144 cbm/288 MT	Rough stone : 318080 cbm / 874720.00 MT

4) Hence, as per the power delegated under Rule 41 of TNMMCR, 1959 and as per the guidelines/instructions issued by the Commissioner of Geology and Mining, vide letter Rc.No.3868/LC/2012 dated.19.11.2012, the said mining plan submitted by the applicant is hereby approved subject to the following conditions;

a. 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.

b. This approval of the mining plan does not in any way imply the approval of the Government in terms or any other provisions of the Mines and Minerals (Development and Regulation) Amended Act, 2015, or any other connected laws including Forest Conservation Act, 1980, Forest Conservation Rules, 1981, Environment Protection Act, 1980, Explosives Act, 1884 (Central Act IV of 1884) and the Rules made there under and the Tamil Nadu Minor Mineral Concession Rules, 1959.

c. The mining plan is approved without prejudice to any other order or direction from any court of competent jurisdiction.

d. All the conditions stipulated in the precise area communication letter / lease agreement / environment clearance / Tamil Nadu Pollution Control Board conditions etc., should be followed during the entire quarry operation as per rules.

e. The applicant should get prior Environmental clearance from the appropriate authority and same has to be submit to the Assistant Director, Geology and Mining, Viluppuram for further action.

f. The dust emission at the time of quarrying and transportation shall be controlled by water spraying in the roads and quarrying pits in order to control Air Pollution in the leasehold area.

g. Low Density explosives shall be used for quarrying rough stone during the validity period of the mining plan / EC in order to reduce the Noise Pollution in the leasehold area.

h. Progressive Mine Closure shall be carried out as per the approved mining plan.

i. Afforestation shall be carried out along the boundary of the leasehold area, 7.5 meters safety distance area and other areas which are situated within the specific safety zone so that the climate of the area can be made as moderately conducive to the livelihood of the employees in the quarry site.

j. Provisions of the Mines Act, 1952 and the Rules and Regulations made there under including submission of notice of opening, appointment of manager and other statutory officials as required under Mines Act, 1952 shall be complied with.

k. Provisions made under Mines and Minerals (Development & Regulation) Act, 1957, MMDR Amendment Act, 2015 made there under shall be complied with.

l. This approval of Mining Plan is restricted to the mining plan area only. The mining lease area is as shown on the statutory plan. The Assistant Director, Geology and Mining does not take any responsibility regarding correctness of the boundaries of the lease shown on the ground with reference to the lease map and others plans furnished by the lessee.

m. The earlier instances of irregular / illegal quarrying, if any, shall not be regularized through the approval of this document.

n. The lessee shall remit the penalty / Cost of Mineral / other dues if any as arrived by the Assistant Director (G&M), Villupuram District.

o. The quarry laborers shall be registered with the Labour Board and shall be enrolled under the Insurance Scheme.

p. Non adherence to any condition set-out above, the approval shall be deemed to have been withdrawn with immediate effect.

Encl: Two copies of Approved Mining Plan.

Assistant Director,
Dept. of Geology and Mining,
Viluppuram.

Copy to:-

1. The Director of Geology and Mining, Chennai-32.
2. The Chairman, State Level Environment Impact Assessment Authority, 3rd Floor, Panagal Maaligai, No.1, Jeenis Road, Saidapet, Chenna-15.

APPROVAL MINING PLAN

MINING PLAN FOR THOLLAMUR

ROUGH STONE & GRAVEL QUARRY

(Prepared Under Rule 19, 41 & 42 of Tamil Nadu Minor Mineral Concession Rules, 1959)

- 6 NOV 2025

LOCATION OF THE QUARRY LEASE APPLIED AREA

STATE	:	TAMIL NADU
DISTRICT	:	VILUPPURAM
TALUK	:	VANUR
VILLAGE	:	THOLLAMUR
S.F.NOS	:	106/2A, 106/2B, 106/3, 106/4A AND 106/4B
EXTENT	:	4.34.0Ha

FOR

APPLICANT

Thiru.M.Moorthi,
S/o.Muniyan,
No.413, Mannarsamy Kovil Street,
Tiruvakkarai Village, Vanur Taluk,
Viluppuram District.

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

ECO-FRIENDLY



SUSTAINABILITY



SAFETY





(PPE)

M.Moorthi,
S/o.Muniyan,
No.413, Mannarsamy Kovil Street,
Tiruvakkarai Village, Vanur Taluk,
Viluppuram District.

- 6 NOV 2025

CONSENT LETTER FROM THE APPLICANT

The Mining Plan in respect of **Rough Stone and Gravel** quarry over an extent of 4.34.0Ha of (Patta land) in S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A and 106/4B of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State has been prepared by

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

I request to the Assistant Director, Department of Geology and Mining, Viluppuram 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 building on me in all respects.

Signature of the Applicant

M. MOORTHY

M.Moorthi

Place: Viluppuram
Date: 03.10.2025

M.Moorthi,
S/o.Muniyan,
No.413, Mannarsamy Kovil Street,
Tiruvakkarai Village, Vanur Taluk,
Viluppuram District.

DECLARATION

The Mining Plan in respect of **Rough Stone and Gravel** quarry over an extent of 4.34.0Ha of (Patta land) in S.F.Nos.106/2A, 106/2B, 106/3, 106/4A and 106/4B of Thollamur Village, Vanur Taluk, Viluppuram 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

M.MOORTHY

M.Moorthi

Place: Viluppuram
Date: 03.10.2025

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

6 NOV 2025

CERTIFICATE

Certified that, in preparation of Mining Plan for **Rough Stone and Gravel** quarry over an extent of 4.34.0Ha of (Patta land) in S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A and 106/4B of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State for Thiru.M.Moorthi, 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: 04.10.2025

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

- 6 NOV 2025

CERTIFICATE

This is to certify that, the provisions of Minor Minerals Conservation and Development Rules, 2010 (MMCDR) have been observed in the Mining Plan for the grant of **Rough Stone and Gravel** quarry lease over an extent of 4.34.0Ha of (Patta land) in S.F.Nos.106/2A, 106/2B, 106/3, 106/4A and 106/4B of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State applied by Thiru. M.Moorthi, 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: 04.10.2025

CERTIFICATE

- 6 NOV 2025

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 4.34.0Ha of (Patta land) in S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A and 106/4B of Thollamur Village, Vanur Taluk, Viluppuram District, by Thiru.M.Moorthi, for a period of Five 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

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

Place: Salem

Date: 04.10.2025

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MINING PLAN FOR MINOR MINERALS

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ROUGH STONE AND GRAVEL

Over an extent of 4.34.0hectares of Patta land in S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A and 106/4B of Thollamur Village, Vanur Taluk, Viluppuram 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.M.Moorthi, S/o.Muniyan, No.413, Mannarsamy Kovil Street, Tiruvakkarai Village, Vanur Taluk, Viluppuram District.
2. The application was processed by the Assistant Director, Department of Geology and Mining, Viluppuram, and passed an order vide Rc.No. A/G&M/219/2024, dated 30.09.2025 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 4.34.0 hectares of Patta lands in S.F.Nos.106/2A, 106/2B, 106/3, 106/4A and 106/4B of Thollamur Village, Vanur Taluk, Viluppuram District of Tamil Nadu State for a period of five 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.
   b) A 50 meter safety distance should be left out for Vaikkal and Cart Track Passing in S.F.No.105 on Northern side of lease applied area.
   c) A 50 meter safety distance should be left out for Eri poramboke Situated in S.F.No.107 on Eastern side of lease applied area

d) There is no cause any hindrance to adjacent lands and Government lands while quarrying operations.

e) The applicant should be submit DGPS survey report before the grant of quarry lease.

f) Quarrying operations should be done proper scientific method only.

g) The quarrying operations should be done through certified Mines Manager, Mines foreman.

h) Before the start of the quarrying operations, the applicant should inform the Director of Mines Safety, Chennai region.

i) The applicant should use jackhammers and mild explosives during blasting in the quarry operations.

j) Barbed wire fencing should be erected all along the boundary of the lease granted area before quarrying operations.

k) The applicant ensures labours safety and vehicles safely passing within quarry as per the Metalliferous Mines rule, should keep widen and safety Benches.

l) If any mineral other than the recommended for quarrying, such as rough stone and gravel, is discovered, the quarrying operations should be stopped immediately and the department of Geology and Mining Viluppuram should be informed.

m) As per Rule 41 of Tamil Nadu Minor Mineral Concession Rules – 1959 draft mining plan should prepare by qualified person and get approval from assistant director, department of Geology and Mining, viluppuram.

n) Environment clearance certificate obtained from State Level Environmental Impact Assessment Authority as per Rule 42 of Tamil Nadu Minor Mineral Concession Rules – 1959 should be submit.

4. Geological Resources is estimated at 42,01,780Ts of Rough stone, 288Ts of gravel. Mineable Reserves is estimated at 8,74,720Ts of Rough Stone 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 8,74,720Ts of Rough Stone for the period of five years.

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 10km radius.
   ii) There is no interstate boundary around 2.8Kms radius.
   iii) There is no wild life animal sanctuary within 10Kms 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	:	Thollamur
b.	Name of the Panchayat Union	:	Vanur
c.	The proposed total Minable Reserves	:	8,74,720Ts of Rough Stone
d.	The proposed quantity of reserves (level of production) for Five years to be mined is(Recoverable reserves)	:	8,74,720Ts of Rough Stone,
e.	Total extent of the area	:	4.34.0Ha
f.	Proposed Period of mining	:	Five Years
g.	Existing depth	:	17m Max (below ground level)
h.	Proposed Depth of mining	:	52m (below ground level) for the proposed mining plan.
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 are proposed to deploy for quarrying operation.
k.	Cost of the Project A. Fixed Assets Cost B. Operational Cost C. EMP Cost		Rs. 29,04,000 /- Rs. 82,50,000/- Rs. 7,20,000/- Total Project cost(A+B+C)=**Rs. 1,18,74,000 /-**

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

Corners	Co- ordinates		Distance between the corners
	Latitude	Longitude	
1	12° 02' 46.81"N	79° 39' 50.82"E	1-2 = 107.8m
2	12° 02' 49.96"N	79° 39' 52.41"E	2-3 = 91.2m
3	12° 02' 52.38"N	79° 39' 54.15"E	3-4 = 15.8m
4	12° 02' 52.82"N	79° 39' 54.42"E	4-5 = 4.6m
5	12° 02' 52.89"N	79° 39' 54.55"E	5-6 = 20.2m
6	12° 02' 52.79"N	79° 39' 55.22"E	6-7 = 12.0m
7	12° 02' 53.16"N	79° 39' 55.36"E	7-8 = 20.2m
8	12° 02' 53.25"N	79° 39' 54.70"E	8-9 = 17.0m
9	12° 02' 53.77"N	79° 39' 54.90"E	9-10 = 108.0m
10	12° 02' 53.69"N	79° 39' 58.47"E	10-11 = 85.6m
11	12° 02' 50.99"N	79° 39' 57.80"E	11-12 = 7.4m
12	12° 02' 51.05"N	79° 39' 57.56"E	12-13 = 12.0m
13	12° 02' 50.70"N	79° 39' 57.39"E	13-14 = 45.6m

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14	12° 02' 50.19"N	79° 39' 58.81"E	14-15 =	60.6m
15	12° 02' 48.25"N	79° 39' 58.45"E	15-16 =	42.8m
16	12° 02' 48.54"N	79° 39' 57.07"E	16-17 =	62.4m
17	12° 02' 46.58"N	79° 39' 56.56"E	17-18 =	116.2m
18	12° 02' 42.92"N	79° 39' 57.55"E	18-1 =	236.0m

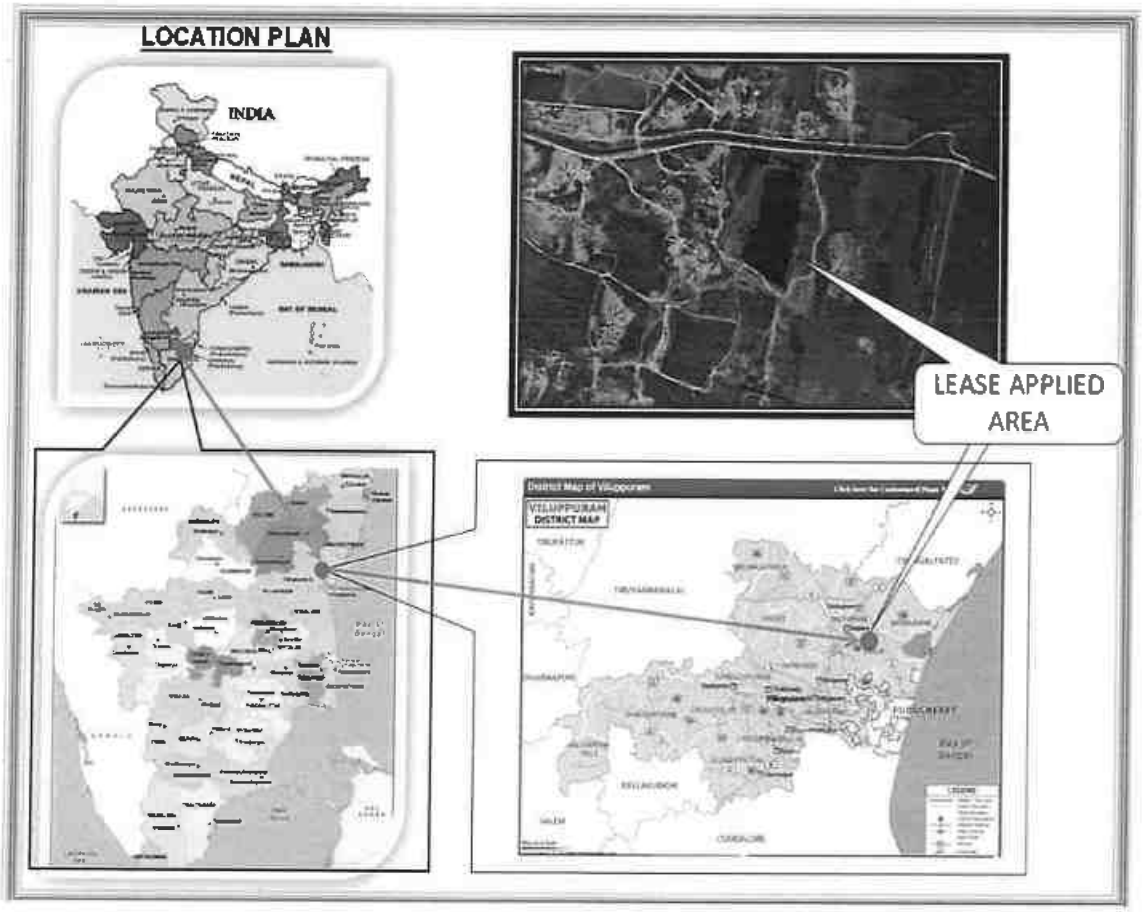
2.0 General Information:

2.1	a.	Name of the Applicant	:	Thiru.M.Moorthi,
	b.	Address of the Applicant with phone No and e-mail id if any	:	S/o.Muniyan, No.413, Mannarsamy Kovil Street, Tiruvakkarai Village, Vanur Taluk, Viluppuram District. Pincode – 604 304. Cell No.: 81110 24033
	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, Viluppuram, vide Rc.No. A/G&M/219/2024, dated 30.09.2025.
	c.	Period of permission / lease granted	:	The Assistant Director, Department of Geology and Mining, Viluppuram, has grant of lease period for **five 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

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3.0 Location:

S.No		Details of the Area:
1	Corner Coordinates	Latitude : 12°02'42.92"N to 12°02'53.77"N Longitude: 79°39'50.82"E to 79°39'58.81"E
2	Toposheet Number	57 P/ 12
3	The altitude of the area	91m (MSL)
4	Extent	4.34.0Ha
5	Survey Nos	106/2A, 106/2B, 106/3, 106/4A and 106/4B
6	Village	Thollamur
7	Taluk	Vanur
8	District	Viluppuram
9	State	Tamil Nadu



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a.	Classification of the Area (Ryotwari / poramboke / others)	:	Patta land
b.	Ownership / Occupancy of the Applied area (Surface rights)	:	It is patta land registered in the name of Thiru.Venugopal and Applicant vide patta nos. 1316 & 1315, the applicant has obtained consent from the pattadars, Please refer Annexure No: IV & VII.
c.	Toposheet No. with Latitude and Longitude	: : :	Topo Sheet No: 57 P/ 12 Latitude : 12°02'42.92"N to 12°02'53.77"N Longitude: 79°39'50.82"E to 79°39'58.81"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 Nemili- Thollamur road on north side of the area. The Nearest Railway line is Viluppuram to Chennai line which is about 13Km on northwestern side of the area.



SATELLITE IMAGERY OF THE LEASE APPLIED AREA



TOPOGRAPHICAL VIEW OF LEASE APPLIED AREA

Fig. Location of the lease applied area



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 91m (maximum) from MSL. ➢ No major river is found nearby the lease applied area. ➢ Water table is found at a depth of 75m in summer and 72m 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, Gneissic, 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 SE80°.

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				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 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 52m (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	18	4	2	144	-	2	288	-
	II	19	4	5	-	380	2.75	-	1045.00
	III	42	23	5	-	4830	2.75	-	13282.50
	IV	42	23	5	-	4830	2.75	-	13282.50
	V	278	156	5	-	216840	2.75	-	596310.00
	VI	278	156	5	-	216840	2.75	-	596310.00
	VII	278	156	5	-	216840	2.75	-	596310.00
	VIII	278	156	5	-	216840	2.75	-	596310.00
	IX	278	156	5	-	216840	2.75	-	596310.00
	X	278	156	5	-	216840	2.75	-	596310.00
	XI	278	156	5	-	216840	2.75	-	596310.00
	Total				**144**	**1527920**	-	**288**	**4201780.00**

Gravel : 288Ts

The Geological Resources of Rough stone : 42,01,780Ts

b. Already excavated

The area has been quarried in earlier operation the existing pit dimension are given below.

Table No-2

Pit No	length (Avg) in(m)	Width (Avg) in (m)	Depth (Avg) in (m)
I	220	27	7m below ground level
II	175	94	17m below ground level

c. Available Mineable Reserve

The Available mineable reserve calculated by deducting 7.5m and 50m safety distance and bench loss.

Table No-3

Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Rough stone in m^3	Bulk Density	Mineable Reserves in Rough stone (Ts)
XY-AB	V	211	78	5	82290	2.75	226297.50
	VI	201	68	5	68340	2.75	187935.00
	VII	191	58	5	55390	2.75	152322.50
	VIII	181	48	5	43440	2.75	119460.00
	IX	171	38	5	32490	2.75	89347.50
	X	161	28	5	22540	2.75	61985.00
	XI	151	18	5	13590	2.75	37372.50
	Total				**318080**	-	**874720.00**

The Available mineable reserve is computed as 8,74,720Ts of Rough stone upto a depth 52m (below ground level) only.

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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 form of Gravel, it has been removed during earlier quarry operation. The excavated rough stone will be directly loaded into tipper to the needy crusher/other buyers.

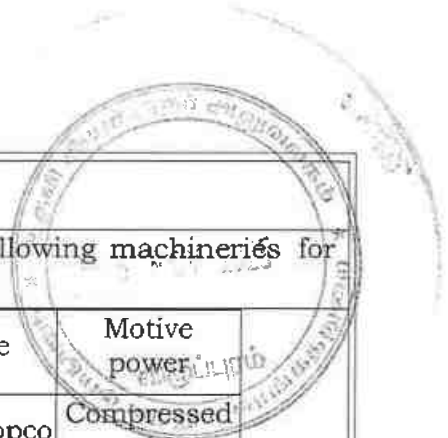
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The Yearwise Production and Development Table

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
I	XY-AB	V	163	78	5	63570	2.75	174817.50
Total						**63570**	-	**174817.50**
II	XY-AB	V	48	78	5	18720	2.75	51480.00
		VI	133	68	5	45220	2.75	124355.00
Total						**63940**	-	**175835.00**
III	XY-AB	VI	68	68	5	23120	2.75	63580.00
		VII	140	58	5	40600	2.75	111650.00
Total						**63720**	-	**175230.00**
VI	XY-AB	VII	51	58	5	14790	2.75	40672.50
		VIII	181	48	5	43440	2.75	119460.00
		IX	30	38	5	5700	2.75	15675.00
Total						**63930**	-	**175807.50**
V	XY-AB	IX	141	38	5	26790	2.75	73672.50
		X	161	28	5	22540	2.75	61985.00
		XI	151	18	5	13590	2.75	37372.50
Total						**62920**	-	**173030.00**
Grand Total						**318080**	-	**874720.00**

The applicant has proposed to carry out 8,74,720Ts of Rough Stone upto a depth of 52m (below ground level) for the period of five years.



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	4.	32	Atlas Copco	Compressed air
2	Compressor	1	-	Atlas Copco	Diesel Drive

	b.	Loading	:	Excavator of 0.90m³ bucket capacity (with Rock breaker attachment) (2No).
	c.	Transportation	:	Tipper 4Nos (10/20Ts) capacity.
5.6		Disposal of Overburden	:	There is no overburden or waste anticipated during the entire rough stone quarrying operation.
5.7		Brief Note on Conceptual Mining Plan for the entire lease period	:	Conceptual Mining Plan is prepared with an object of five 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 Mining plan Period			
Pit No	Length (max) in (m)	Width (Avg) in (m)	Depth(max) in(m)
I	261	123	52

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

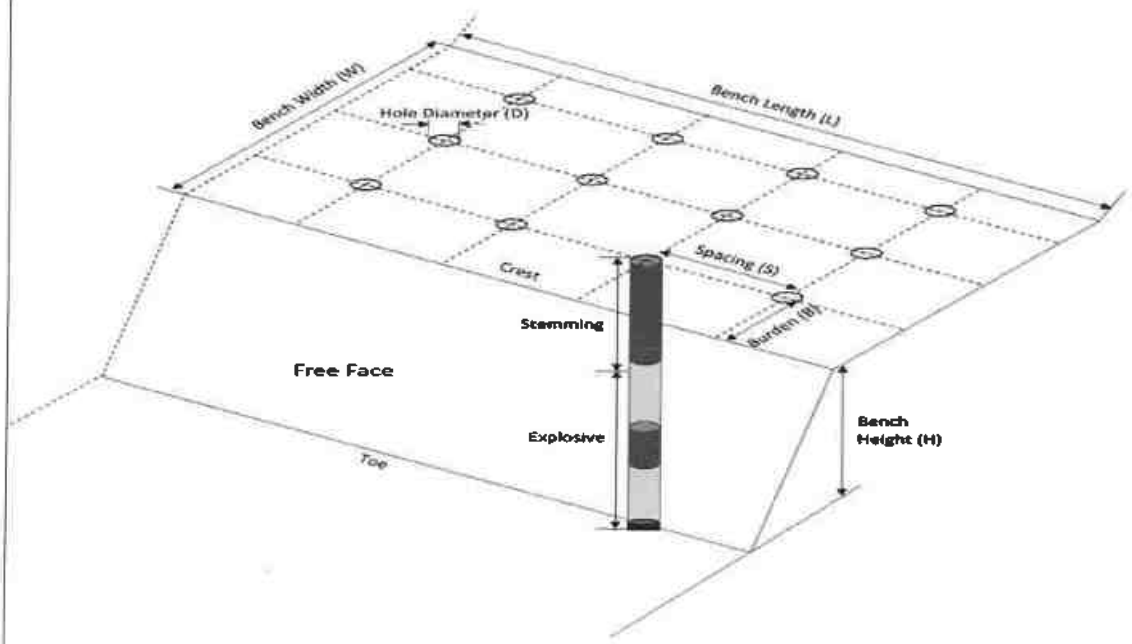
All the baseline information studies like Air Quality monitoring, Noise and Vibration monitoring, Water Analysis studies will be carried out every year as per the MOEF norms.

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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.

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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	:	194
Powder factor	:	6Ts/Kg of explosives
Total explosive required	:	97Kg 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 75m below ground level. In the proposed mining plan only 52m (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

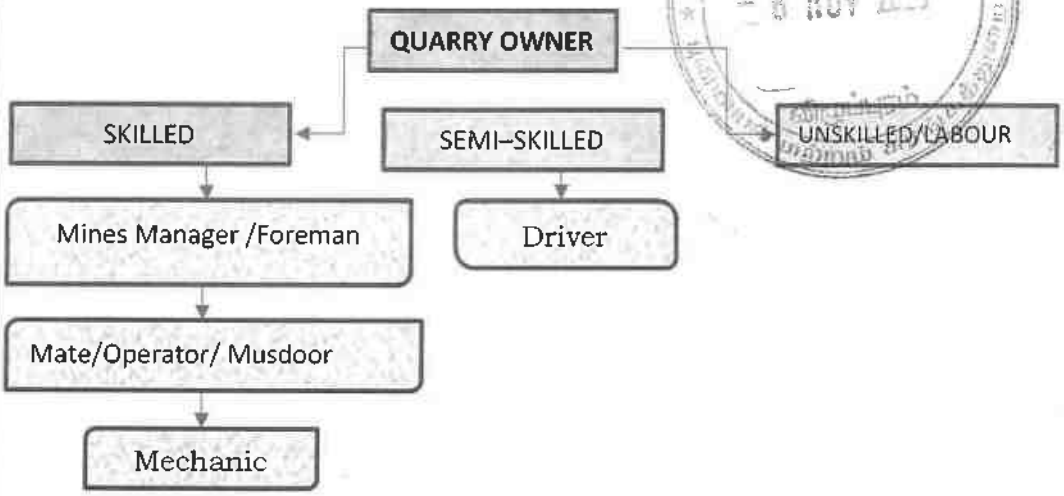


8.0	**Other Permanent Structures:**		
8.1	Habitations / Village	:	There is no habitations situated within a radius of 300m.
8.2	Power lines (HT/LT)	:	There is no Power line (HT/LT) passing within a radius of 50m.
8.3	Water bodies (River, Pond, Lake, Odai, Channel etc)	:	There is Eri poramboke Situated on Eastern side and is 50m safety distance maintained, There is Vaikkal passing on north side and is 50m safety distance maintained.
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-32) Tindivanam – Thoothukudi is about 9.2km on northeastern side of the area. The State Highway (SH-136) Vellemedupettai – Vanur is about 2.2Km on northern 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

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	8No.
		Mechanic	1 No.
2.	Semi-skilled	Driver	4 No.
3.	Unskilled	Labours	15Nos
		Total =	31Nos

Allowing 10% absentee, the no. of men of roll will be around 28.

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 Thollamur village which is about 0.9Km on eastern side of the area.

	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 7.5Km (SE) in Vanur 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.





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 52m (below ground level) for the proposed mining plan period. 3. Fluctuation of Water table in this area is in between 75m and 72m 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	2.24.0	3.22.0
2.	Infrastructure	Nil	0.01.0
3.	Roads	0.01.0	0.02.0
4.	Green Belt	0.02.0	1.09.0
5.	Unutilized	2.07.0	Nil
	Total =	**4.34.0**	**4.34.0**

10.2	Water Regime	:	Water table in this area is noticed at a depth of 75m and presently, in the proposed mining plan only 52m (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 area.
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.

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<table>
<tr><td>10.4</td><td>Climatic conditions</td><td>:</td><td>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.</td></tr>
<tr><td>10.5</td><td>Human Settlement</td><td>:</td><td>The nearest habitations with the population is given as under.
Table No-6
<table>
<tr><th>S. No</th><th>Name of the Village</th><th>Approximate distance & Direction from lease applied area</th><th>Approximate population</th></tr>
<tr><td>1.</td><td>Thollamur</td><td>0.9km - E</td><td>500</td></tr>
<tr><td>2.</td><td>Nemili</td><td>1.4km - NW</td><td>2000</td></tr>
<tr><td>3.</td><td>Kadagampattu</td><td>1.7km - SE</td><td>300</td></tr>
<tr><td>4.</td><td>Ambuzhukkai</td><td>1.5Km – W</td><td>200</td></tr>
</table></td></tr>
<tr><td>10.6</td><td>Plan for Air, Dust Suppression</td><td>:</td><td>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.</td></tr>
<tr><td>10.7</td><td>Plan for Noise Control</td><td>:</td><td>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.</td></tr>
</table>



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 52m (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 52m 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 50m 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 10900Sqm area is proposed to use under afforestation by planting 1308nos 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. 26,04,000 Rs.1,00,000 Rs.1,00,000 Rs.1,00,000 **Rs. 29,04,000 /-**



	B. Operational Cost:		
	1. Machineries	:	Rs.80,00,000-
	2. Fencing cost	:	Rs. 2,50,000
	Total	:	**Rs.82,50,000/-**
	C.EMP Cost:		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/-
	Expenditure		
	1. Drinking water facility		Rs.1,50,000/-
	2. Sanitary Arrangements		Rs. 50,000/-
	3. Safety kids		Rs. 50,000/-
	4. Water sprinkling		Rs. 1,50,000/-
	5. Afforestation		Rs. 2,00,000/-
	Total=		**Rs. 7,20,000/-**
	Total Project Cost (A+B+C)	:	**Rs. 1,18,74,000 /-**
	CSR Cost(2% of Total Project Cost)	:	**Rs. 2,37,480/-**

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: 04.10.2025

This mining plan is prepared based on the instructions and guidelines issued by the Commissioner of Geology and mining, Chennai vide letter No.[illegible]/2013 dated 19-11-2012 and based on incorporation of the conditions laid by the Assistant Director i/c., Geology and Mining, Viluppuram in precise area communication letter Rc.No. A/Cudn/219/2024 Dated : 30-9-2025

Assistant Director,
Geology and Mining,
Viluppuram.

Dated : 11/2025

06/11/25

ANNEXURE 1

ந.க.எண்.அ/புவி(ம)சுர/219/2024
நாள்: 30.09.2025.

உதவி இயக்குநர் அலுவலகம்,
புவியியல் மற்றும் சுரங்கத்துறை,
விழுப்புரம்.

- 6 NOV 2025

அறிவிப்பு

பொருள்: கனிமங்களும் குவாரிகளும் - சிறுகனிமம் - சாதாரண கற்கள் மற்றும் கிராவல் - விழுப்புரம் மாவட்டம் - வானூர் வட்டம் - தொள்ளமூர் கிராமம் - பட்டா புல எண்கள். 106/2A (0.31.0), 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5), 106/4B (1.87.5) ஆகியவற்றில் 4.34.0 ஹெக்டேர் பரப்பளவில் ஐந்தாண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க குவாரி குத்தகை அனுமதி கோரி திரு.மு.மூர்த்தி, த/பெ.முனியன் என்பவர் உரிமம் வழங்க பரிந்துரை செய்து அறிக்கை வரப்பெற்றது - புலத்தணிக்கை மேற்கொள்ளப்பட்டது - குவாரி குத்தகை உரிமம் வழங்க 4.34.0 ஹெக்டேர் பரப்பினை தகுதியான நிலப்பரப்பாக கருதி ஏற்பளிக்கப்பட்ட சுரங்கதிட்டம் மற்றும் சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணைய இசைவினை பெற்று சமர்பிக்கக் கோருதல் - தொடர்பாக.

பார்வை:

1. திரு.மு.மூர்த்தி, த/பெ.முனியன், மன்னார்சாமி கோவில் தெரு, திருவக்கரை கிராமம், வானூர் வட்டம், விழுப்புரம் மாவட்டம் என்பவரது விண்ணப்பம் நாள்.01.08.2024 (இவ்வலுவலகம் வரப்பெற்ற நாள்.02.08.2024)
2. இவ்வலுவலக கடிதம் ந.க.எண்.அ/பு&சு/219/2024 நாள்: 11.09.2024.
3. வருவாய் கோட்டாட்சியர், விழுப்புரம் கடித எண். ந.க.அ4/1077/2025, நாள்.08.05.2025.
4. விழுப்புரம் மாவட்ட புவியியல் மற்றும் சுரங்கத்துறை உதவி புவியியலாளர் புலத்தணிக்கை அறிக்கை நாள்: 24.09.2025.

விழுப்புரம் மாவட்டம், வானூர் வட்டம், திருவக்கரை கிராமத்தைச் சேர்ந்த திரு.மு.மூர்த்தி, த/பெ.முனியன் என்பவர் விழுப்புரம் மாவட்டம், வானூர் வட்டம், தொள்ளமூர் கிராமம், பட்டா புல எண்கள். 106/2A (0.31.0), 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5), 106/4B (1.87.5) ஆகியவற்றின் மொத்த பரப்பு 4.34.0 ஹெக்டேர் பரப்பளவில் ஐந்தாண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுப்பது தொடர்பாக 1959-ஆம் ஆண்டு தமிழ்நாடு சிறுவகை கனிமச்சலுகை விதிகள், விதி எண்.19-ன்கீழ் குவாரிப்பணி செய்ய உரிமம் வழங்கிட கோரி பார்வை 1-ல் காணும் விண்ணப்பம் செய்துள்ளார்.

2) மனுதாரர் உரிய படிவத்தில் மனு செய்திருப்பதுடன், விண்ணப்பக் கட்டணம் ரூ.1500/-ஐ இசலான் எண். 20240731014881, நாள்: 01.08.2024-ல் பாரத ஸ்டேட் வங்கியில் செலுத்தியுள்ளார். மேலும், மனுதாரர் செலுத்த வேண்டிய வருவான வரி மற்றும் கனிம வரி ஏதும் நிலுவையில் இல்லை என்பதற்கான சான்றுறுதி ஆவணம் மற்றும் கிராம கணக்கு நகல்களையும் சமர்ப்பித்துள்ளார்.

3) மனுதாரர் சாதாரண கற்கள் மற்றும் கிராவல் வெட்டி எடுக்க உரிமம் கோரிய புலன்களை விழுப்புரம் வருவாய் கோட்டாட்சியர் மற்றும் விழுப்புரம் மாவட்ட புவியியல் மற்றும் சுரங்கத்துறை, உதவி புவியியலாளர் ஆகியோர் இடப்பார்வை செய்து அறிக்கை சமர்ப்பித்துள்ளனர்.

4) பார்வை 3-ல் கண்ட விழுப்புரம் வருவாய் கோட்டாட்சியர் அவர்களிடமிருந்து வரப்பெற்ற விசாரணை அறிக்கை பரிசீலனை செய்யப்பட்டதில், விழுப்புரம் மாவட்டம் , வானூர் வட்டம், நெமிலி குறுவட்டம், தொள்ளமூர் கிராமம், பட்டா புல எண்கள் 106/2ஏ -0.31.0 ஏர்ஸ், 106/2பி -0.40.5 ஏர்ஸ், 106/3 -0.58.5 ஏர்ஸ், 106/4ஏ - 1.16.5 ஹெக்டேர் பரப்பில் 106/4பி -1.87.50 ஹெக்டேர் ஆகியவற்றின் மொத்தபரப்பு 4.34.0 ஹெக்டேர் பரப்பளவில் 5 ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க குவாரி குத்தகை அனுமதி கோரி திரு.மூர்த்தி த/பெ முனியன், தொள்ளமூர் என்பவர் விண்ணப்பம் அளித்தது தொடர்பாக விசாரணை அறிக்கை கோரியதின் பேரில், புலத்தின் புலப்படத்துடன் கீழ்கண்ட குறிப்புகளுடன் விசாரணை செய்து அறிக்கை சமர்ப்பித்துள்ளார்.

"அ பதிவேடு"

வ. எண்	புல எண்	வகைபாடு	விஸ்தீரணம்	"அ" பதிவேட்டின் விவரம்	தற்போதய உரிமை விவரம்/ பட்டா எண்
1	106/2ஏ	ர.புஞ்சை	0.31.0	திரு.மோகன்	திரு.வேணுகோபால் த/பெ பெருமாள், பட்டா எண் 1316
2	106/2பி	ர.புஞ்சை	0.40.5	திரு.மோகன்	திரு.மூர்த்தி த/பெ முனியன், பட்டா எண். 315
3	106/3	ர.புஞ்சை	0.58.5	திரு.மோகன்	திரு.மூர்த்தி த/பெ முனியன், பட்டா எண். 315
4	106/4ஏ	ர.புஞ்சை	1.16.5	திரு.மோகன்	திரு.மூர்த்தி த/பெ முனியன், பட்டா எண். 315
5	106/4பி	ர.புஞ்சை	1.87.50	திரு.மோகன்	திரு.வேணுகோபால் த/பெ பெருமாள், பட்டா எண் 1316

நான்கு எல்லை விவரம் பின்வருமாறு:-

வ.எண்	புல எண்/ பரப்பு	எல்லைகள்
1.	106/2ஏ 0.31.0	வடக்கில் புல எண் 105/-அ.புறம்போக்கு-வண்டிப்பாதை
		தெற்கில் புல எண் 106/3-பட்டா நிலம்
		கிழக்கில் புல எண்/106/2b - பட்டா நிலம்
		மேற்கில் புல எண் 133/3பி திருவக்கரை கிராமம்-பட்டா நிலம்
2.	106/2பி	வடக்கில் புல எண் 105/-அ.புறம்போக்கு-வண்டிப்பாதை

	0.40.5	தெற்கில் புல எண் 106/3-பட்டா நிலம்
		கிழக்கில் புல எண்/107-அ.புறம்போக்கு-ஏரி
		மேற்கில் புல எண் 106/2எ-பட்டா நிலம்
3.	106/3	வடக்கில் புல எண் 106/2எ,106/2பி,பட்டா நிலம்
	0.58.5	தெற்கில் புல எண் 106/4எ-பட்டா நிலம்
		கிழக்கில் புல எண்/107-அ.புறம்போக்கு-ஏரி,106/4எ பட்டா நிலம்
		மேற்கில் புல எண் 133/5-பட்டா நிலம்
4.	106/4எ	வடக்கில் புல எண் 106/3-பட்டா நிலம் ,107-அ.புறம்போக்கு-ஏரி
	1.16.5	தெற்கில் புல எண் 106/4எ-பட்டா நிலம்
		கிழக்கில் புல எண்/107-அ.புறம்போக்கு-ஏரி,
		மேற்கில் புல எண் திருவக்கரை 133/5,135/7-பட்டா நிலங்கள்
5.	106/4பி	வடக்கில் புல எண் 106/4எ-பட்டா நிலம்
	1.87.5	தெற்கில் திருவக்கரை கிராம புல எண் 125/10,12,13,14,15, 16,17-பட்டா நிலம்
		கிழக்கில் புல எண்/107-அ.புறம்போக்கு-ஏரி,
		மேற்கில் புல எண் திருவக்கரை 125/7,125/9 பட்டா நிலங்கள்

விழுப்புரம் மாவட்டம், வானூர் வட்டம், தொள்ளமூர் கிராமம், புல எண் 106/2பி -0.40.5 ஏர்ஸ்,106/3-58.5 ஏர்ஸ், 106/4எ-1.16.5 ஹெக்டேர் ஆகிய நிலங்கள் பட்டா எண் 1315-ன் படி, குவாரி உரிமை கோரும், திரு.மூர்த்தி த/பெ முனியன் என்பவர் பெயரில் தாக்கலாகியுள்ளது எனவும், சர்வே எண் 106/2எ-0.31.0,106/4பி-1.87.5, ஆகிய புலன்கள் திரு.வேணுகோபால் த/பெ பெருமாள் என்பவர் பெயரில் தாக்கலாகியுள்ளது எனவும், குவாரி உரிமை கோரும் புலன்களில் சர்வே எண் 106/2எ-0.31.0,106/4பி-1.87.5 ஆகியவை அனைத்தும், திரு.வேணுகோபால் த/பெ பெருமாள் என்பவர் வானூர் சார் பதிவாளர் ஆவண எண் : 2089 /2028 நாள்:10.05.2018 ன்படி வானூர் வட்டம், திருவக்கரை கிராமத்தை சேர்ந்த திரு.மூர்த்தி த/பெ முனியன் என்பவருக்கு 10 ஆண்டுகளுக்கு கல்குவாரி தொழில் செய்து கொள்ள, சம்மதித்து குத்தகை ஆவணம் பதிவுசெய்யப்பட்டுள்ளது எனவும், மேலும் குத்தகை உரிமம் கோரும் இடத்திலிருந்து வெட்டியெடுக்கப்படும் கற்கள் மற்றும் கிராவலை வெளியில் எடுத்துச்செல்ல ஏதுவாக உள்ள பாதை வசதி உள்ள புல எண்கள் 105,104,103,132,137,80,141 18,19 ஆகிய புல எண்கள் அனைத்தும் அரசு புறம்போக்கு(வண்டிப்பாதை)-ன் வழியாக தொள்ளமூர் to புதுகுப்பம் சாலையை அடைய அணுகு சாலை வசதி உள்ளது எனவும், குவாரி குத்தகை கோரியுள்ள புலங்களில் இருந்து குடியிருப்பு பகுதிகள் எனில் 300 மீ சுற்றுவட்டாரத்திற்குள் ஏதுமில்லை எனவும், மின்கம்பி பாதைகளுக்கும் / தொலைபேசி பாதைகளுக்கும் குத்தகை கோரும் புலங்களுக்கும் இடையே 50 மீ இடைவெளியில் ஏதுமில்லை எனவும், குவாரி குத்தகை வழங்க ஆட்சேபணை ஏதுமில்லை என்பது கிராம

நிர்வாக அலுவலர் விசாரணையில் தெரியவருவதாகவும், குத்தகைதாரர் குவாரி அனுமதி கோரும் புல எண்களில், குறிப்பிட்ட புலங்களில், புலத்தின் ஒரு பகுதியில் மட்டும் குவாரி செய்ய அனுமதி வேண்டும் பட்சத்தில் அந்த குறிப்பிட்ட பகுதியை புலவரைபடத்தில் அளவுகளுடன் வரையறுத்து காட்டப்பட்டுள்ளது எனவும், உரிமை கோரும் புல எண்களில் 106/2ஏ -0.31.0 ஏர்ஸ், 106/2பி -0.40.5 ஏர்ஸ், 106/3 -0.58.5 ஏர்ஸ், 106/4ஏ - 1.16.5 ஹெக்டேர் பரப்பில் 106/4பி -1.87.50 ஹெக்டேர் ஆகியவற்றின் மொத்தபரப்பு 4.34.0 ஹெக்டேர் பரப்பில் கடந்த காலங்களில் குவாரி பணிக்கு அனுமதி பெறப்பட்டது எனவும், அவ்விடத்தில் 3.70.50 ஹெக்டேர் இடத்தில் குவாரிப்பணி செய்து 18.4 மீட்டர் ஆழம் தோண்டப்பட்டுள்ளது எனவும், மேலும் புல எண் 106/4பி-1.87.5 குவாரி உரிமம் பெற்று குவாரிப்பணிகள் ஏதும் செய்யப்படாமல் உள்ளது எனவும், அதன் பரப்பு 0.63.5 ஹெக்டேர் எனவும், குவாரி உரிமம் கோரும் புலன்களுக்கு அருகே சர்வே எண் 107-ஏரி அமைந்துள்ளது எனவும், மேலும் மற்றொரு புல எண் 105/-அ.புறம்போக்கு-வண்டிப்பாதை என உள்ளது எனவும், சர்வே எண் 107-ல் உள்ள ஏரி அருகே உள்ளதால் குவாரி செய்யும் இடத்தில் இருந்து 50மீ பாதுகாப்பு இடைவெளி விடப்பட்டுள்ளது எனவும், அவ்வாறகவே புல வரைபடத்தில் குறிப்பிடப்பட்டுள்ளது எனவும், அரசாணை எண்.295, தொழில்துறை (MMC.1) நாள்:03.11.2021ன்படி குவாரி குத்தகை உரிமம் கோரும் பகுதியானது தொல்லியல்/புராதான/வரலாற்று சின்னங்கள் ஆகியவை ஏதுமில்லை எனவும், தேசிய பூங்காக்கள், வன விலங்கு சரணாலயம், புலிகள் காப்பகம், யானை வழித்தடங்கள், காப்புக்காடுகள் ஏதுமில்லை எனவும், இப்புல எண்களில் கோவில், மசூதி, கிருத்துவ ஆலையங்கள் போன்ற வழிபாட்டு தலங்கள் ஏதுமில்லை எனவும், கல்கட்டிடம், கிணறு, புராதனச்சின்னங்கள், இடுகாடு மற்றும் சுடுகாடு போன்றவை ஏதுமில்லை எனவும் தெரிவித்து, மனுதாரருக்கு வானூர் வட்டம், நெமிலி குறுவட்டம், தொள்ளமூர் கிராமம் 106/2ஏ -0.31.0 ஏர்ஸ், 106/2பி -0.40.5 ஏர்ஸ், 106/3 -0.58.5 ஏர்ஸ், 106/4ஏ - 1.16.5 ஹெக்டேர் பரப்பில் 106/4பி -1.87.50 ஹெக்டேர் ஆகிய இவற்றின் மொத்தபரப்பு 4.34.0 ஹெக்டேர் பரப்பளவில் 5 ஆண்டுகளுக்கு சாதாரண கற்கள் வெட்டியெடுக்க குவாரி குத்தகை அனுமதி வழங்கலாம் என பரிந்துரை செய்துள்ளார்.

5) பார்வை 4-ல் காணும் விழுப்புரம் மாவட்ட புவியியல் மற்றும் சுரங்கத்துறை அலுவலக உதவி புவியியலாளர் அவர்களின் புலத்தணிக்கை அறிக்கையில், விழுப்புரம் மாவட்டம், வானூர் வட்டம், திருவக்கரை கிராமத்தைச் சேர்ந்த திரு.மு.மூர்த்தி, த/பெ.முனியன் என்பவர் விழுப்புரம் மாவட்டம், வானூர் வட்டம், தொள்ளமூர் கிராமம், பட்டா புல எண்கள். 106/2A (0.31.0), 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5), 106/4B (1.87.5) ஆகியவற்றின் மொத்த பரப்பு 4.34.0 ஹெக்டேர் பரப்பளவில் ஐந்தாண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க குவாரி குத்தகை உரிமம் கோரியது தொடர்பாக, விழுப்புரம் வருவாய் கோட்டாட்சியர் அவர்களிடமிருந்து வரப்பெற்ற பரிந்துரை அறிக்கையை தொடர்ந்து 24.09.2025 அன்று புலத்தணிக்கை

செய்யப்பட்டது எனவும், இத்தணிக்கையின்போது தனி வருவாய் ஆய்வாளர் மற்றும் விண்ணப்பதாரர் உடனிருந்தனர் எனவும் தெரிவித்துள்ளார்.

குவாரி குத்தகை உரிமம் வழங்க கோரிய விழுப்புரம் மாவட்டம், வானூர் வட்டம், தொள்ளமூர் கிராமம், பட்டா புல எண்கள். 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5) ஆகியவை பட்டா எண்கள்.1315-ன்படி மனுதாரர் திரு.மு.மூர்த்தி, த/பெ.முனியன் என்பவர் பெயரிலும் மற்றும் புல எண்கள்.106/2A (0.31.0), 106/4B (1.87.5) ஆகியவை பட்டா எண்.1316-ன்படி திரு.வேணுகோபால், த/பெ.பெருமாள் என்பவர் பெயரிலும் தொள்ளமூர் கிராம கணக்குகளில் தாக்கலாகியுள்ளது எனவும், இப்புலன்களை பட்டாதாரர்களிடமிருந்து திரு.மு.மூர்த்தி, த/பெ.முனியன் என்பவர் வானூர் சார்பதிவாளர் அலுவலக ஆவண எண்.2089/2018 நாள்.15.05.2018-ன்படி சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க குவாரி அமைத்துக் கொள்வதற்கு 10 ஆண்டுகளுக்கு குத்தகை ஆவணம் பெற்று சமர்ப்பித்துள்ளார் எனத் தெரிவித்துள்ளார்.

குத்தகை உரிமம் வழங்க கோரியுள்ள புலங்களின் சக்குபந்தி விவரம் கீழ்கண்டவாறு அமைந்துள்ளது.

நான்கு எல்லைகள் விவரம்.

வ. எண்.	புல எண் / பரப்பு	எல்லைகள்	
1.	106/2A - 0.31.0 ஹெக்டேர்	வடக்கு	புல எண். 105/ - வாய்க்கால் & வண்டிபாதை
		தெற்கு	புல எண். 106/3 பட்டா நிலம்
		கிழக்கு	புல எண். 106/2b பட்டா நிலம்
		மேற்கு	புல எண். 133/3பி நெமிலி கிராம எல்லை பட்டா நிலம் மற்றும் 106/1 தொள்ளமூர் கிராம எல்லை பட்டா நிலம்.
2.	106/2B - 0.40.5 ஹெக்டேர்	வடக்கு	புல எண். 105/ - வாய்க்கால் & வண்டிபாதை
		தெற்கு	புல எண். 106/3 பட்டா நிலம்
		கிழக்கு	புல எண். 107/- அ.புறம்போக்கு ஏரி
		மேற்கு	புல எண். 106/2ஏ பட்டா நிலம்
3.	106/3 - 0.58.5 ஹெக்டேர்	வடக்கு	புல எண்கள். 106/2ஏ,106/2பி பட்டா நிலம்
		தெற்கு	புல எண். 106/4ஏ பட்டா நிலம்
		கிழக்கு	புல எண். 107/- அ.புறம்போக்கு-ஏரி, புல எண். 106/4ஏ பட்டா நிலம்
		மேற்கு	புல எண். 133/5 பட்டா நிலம்
4.	106/4A - 1.16.5 ஹெக்டேர்	வடக்கு	புல எண். 106/3 பட்டா நிலம் புல எண். 107/- அ.புறம்போக்கு ஏரி
		தெற்கு	புல எண். 106/4ஏ பட்டா நிலம்
		கிழக்கு	புல எண். 107/- அ.புறம்போக்கு ஏரி
		மேற்கு	புல எண். 133/5 நெமிலி கிராம பட்டா நிலம் 135/7 திருவக்கரை கிராம எல்லை
5.	106/4B - 1.87.5 ஹெக்டேர்	வடக்கு	புல எண். 106/4ஏ பட்டா நிலம்
		தெற்கு	புல எண். 125/10, 12, 13, 14, 15, 16, 17 பட்டா நிலம் திருவக்கரை எல்லை
		கிழக்கு	புல எண். 107/- அ.புறம்போக்கு ஏரி
		மேற்கு	புல எண். 125/7, 125/9 பட்டா நிலங்கள் திருவக்கரை கிராம எல்லை

அனுமதி கோரும் புலத்தில் ஏற்கனவே மாவட்ட ஆட்சியரின் செயல்முறை ஆணைகள் ந.க.களண்.அ/பு&சு/334/2010 நாள்.20.04.2010-ன்படி வானூர் வட்டம், தொள்ளமூர் கிராமம், பட்டா புலஎண்கள். 106/1 (0.02.0), 105/2A (0.31.0), 106/3 (0.58.5), 106/4A (0.16.5) மற்றும் 106/4B (0.87.5) ஆகியவற்றின் மொத்த பரப்பு 3.95.5 ஹெக்டேர் பரப்பளவில் திரு.மோகன், த/பெ.மதுரை, சென்னை என்பவருக்கு சாதாரண கற்கள் வெட்டியெடுக்க 26.04.2010 முதல் 25.04.2015 வரை ஐந்து ஆண்டுகளுக்கு குவாரி குத்தகை அனுமதி வழங்கப்பட்டு குத்தகை காலம் 25.04.2015 உடன் முடிவடைந்துள்ளது எனவும், அதனை தொடர்ந்து மாவட்ட ஆட்சியரின் செயல்முறை ஆணைகள் ந.க.எண்.அ/பு&சு/203/2018 நாள்.15.02.2019-ன்படி வானூர் வட்டம், தொள்ளமூர் கிராம பட்டா புல எண்கள். 106/2A (0.31.0), 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5), 106/4B (1.87.5) ஆகியவற்றின் மொத்த பரப்பு 3.93.5 ஹெக்டேர் பரப்பளவில் திரு.M.மூர்த்தி, த/பெமுனியன் என்பவருக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க 15.02.2019 முதல் 14.02.2024 வரை ஐந்து ஆண்டுகளுக்கு குவாரி குத்தகை அனுமதி வழங்கப்பட்டு குத்தகை காலம் 14.02.2024 உடன் முடிவடைந்துள்ளது எனவும், விண்ணப்பத்துள்ள புலன்களில் ஏற்கனவே குவாரிப்பணி மேற்கொண்டதில் குவாரிப்பள்ளங்கள் காணப்பட்டன எனவும், குவாரி குத்தகை உரிமம் வழங்க கோரும் புலங்களில் காணப்படும் கற்கள் சார்னகைட் வகையைச் சேர்ந்த கற்கள். இக்கற்கள் கட்டுமான பணிக்கு பயன்படும் சாதாரண கற்கள், எம். சாண்ட், ஜல்லி தயாரிக்க உகந்தது எனவும் தெரிவித்துள்ளார். மேலும், விழுப்புரம் வருவாய் கோட்டாட்சியரின் அறிக்கையில் அனுமதி கோரும் புலத்திற்கு வடக்கு பகுதியில் புல எண்.105/- அரசு புறம்போக்கு வண்டிப்பாதை செல்வதாக தெரிவிக்கப்பட்டுள்ளது. ஆனால் கிராம கணக்குகளில் வாய்க்கால் என பதிவாகியுள்ளது.

குவாரி குத்தகை கோரும் புலங்களுக்கு 60 மீட்டர் சுற்றளவில் பாதுகாக்கப்பட்ட வனப்பகுதிகள் ஏதுமில்லை எனவும், குவாரி குத்தகை கோரும் புலன்களுக்கு 300 மீட்டர் சுற்றளவில் குடியிருப்பு பகுதிகள் ஏதுமில்லை எனவும், குவாரி குத்தகை அனுமதி புலன்களுக்கு 50 மீட்டர் சுற்றளவில் இருப்புபாதை, கடுகாடு, இடுகாடு மற்றும் உயர்வழுத்த / தாழ்வழுத்த மின்கம்பிகள் ஏதும் இல்லை எனவும், மேலும், 1 கி.மீ இடைவெளியில் தேசிய பூங்காக்கள், வனவிலங்கு சரணாலயம், புலிகள் காப்பகம், யானை வழித்தடங்கள் ஏதுமில்லை எனவும், கனிமங்களை எடுத்துச் செல்வதற்கான பாதை வசதி உள்ளது எனவும், விண்ணப்ப புலன்களின் வடக்கு பகுதியில் புல எண்.105-ல் அரசு புறம்போக்கு வண்டிப்பாதை செல்கிறது எனவும், மேலும் கிழக்கு பகுதியில் புல எண்.107/-ல் தொள்ளமூர் ஏரி அமைந்துள்ளது எனவும் தெரிவித்துள்ளார்.

எனவே, விழுப்புரம் வருவாய் கோட்டாட்சியர் அவர்களின் பரிந்துரை அறிக்கை, விண்ணப்பதாரரின் கோரிக்கை மற்றும் கள ஆய்வின் அடிப்படையில், விழுப்புரம் மாவட்டம், வானூர் வட்டம், தொள்ளமூர் கிராமம், பட்டா புல எண்கள். 106/2A (0.31.0), 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5), 106/4B (1.87.5) ஆகியவற்றில்

4.34.0 ஹெக்டேர் பரப்பளவில் சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க ஐந்து (05) ஆண்டுகளுக்கு கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு 1959-ஆம் ஆண்டு தமிழ்நாடு சிறுவகை கனிமச்சலுகை விதிகளில் விதி எண்.19(1)ன்கீழ் உரிமம் வழங்க மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் தடையில்லா சான்று மற்றும் தமிழ்நாடு மாசுக்கட்டுப்பாடு வாரியம் அவர்களின் தடையின்மை சான்றினை பெற்று சமர்ப்பித்த பின்பு அதன் நிபந்தனைகளுக்கு உட்பட்டு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி பணி செய்து கொள்ள விண்ணப்பதாரர் திரு.மு.மூர்த்தி, த/பெ.முனியர் என்பவருக்கு அனுமதி வழங்கலாம் என பரிந்துரை செய்துள்ளார்.

நிபந்தனைகள்:-

1. விண்ணப்ப புலங்களின் அருகிலுள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டர் பாதுகாப்பு இடைவெளி விடப்பட வேண்டும்.
2. குவாரி குத்தகை வழங்கப்பட உள்ள புல எண்களுக்கு வடக்கு புறத்தில் சர்வே எண். 105/-ல் உள்ள வாய்க்கால் மற்றும் வண்டிபாதைக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு குவாரிப்பணி மேற்கொள்ள வேண்டும்.
3. குவாரி குத்தகை வழங்கப்பட உள்ள புல எண்களுக்கு கிழக்கு புறத்தில் சர்வே எண். 107/-ல் அமைந்துள்ள ஏரி புறம்போக்கிற்கு 50 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு குவாரிப்பணி மேற்கொள்ள வேண்டும்.
4. குவாரிப்பணி மேற்கொள்ளும் போது அருகிலுள்ள பட்டா மற்றும் அரசு புறம்போக்கு நிலங்களுக்கு எவ்வித இடையூறும் இல்லாமல் குவாரிப்பணி செய்ய வேண்டும்.
5. குவாரி குத்தகை வழங்கும் முன்பு விண்ணப்பித்துள்ள இடத்தினை DGPS சர்வே பணி மேற்கொண்டு அதன் அறிக்கையை சமர்பிக்க வேண்டும்.
6. முறைப்படியும், விஞ்ஞான பூர்வமாகவும் குவாரிப்பணி செய்ய வேண்டும்.
7. சான்றிதழ் பெறப்பட்ட போர்மேன், வெடிப்பாளர் மற்றும் சுரங்க மேலாளர் மூலம் குவாரிப்பணி செய்யப்பட வேண்டும்.
8. குவாரிப்பணி தொடங்குவதற்கு முன் சுரங்க பாதுகாப்பு இயக்குநர், சென்னை அவர்களுக்கு தகவல் தெரிவிக்கப்பட வேண்டும்.
9. பாறைகளை தகர்க்க கைத்துளைப்பான்களை கொண்டு பாறைகளை துளையிட்டு குறைவான வெடிப்பொருட்களை பயன்படுத்த வேண்டும்.
10. குவாரிப்பணி தொடங்குவதற்கு முன்பாக குவாரியை சுற்றி முள்கம்பி வேலி அமைத்து குவாரிப்பணி தொடங்க வேண்டும்.
11. குவாரித் தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்ய Mettaliferrous Mines விதிகளின்படி அகலமானதும், பாதுகாப்பானதுமான Benches அமைத்து பாதுகாப்பான முறையில் குவாரிக்குள் வாகனங்கள் சென்று வரவும் மற்றும் குவாரி தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்தும் குவாரிப்பணி செய்ய வேண்டும்.
12. குவாரிப்பணி செய்வதற்கு பரிந்துரை செய்யப்பட்ட கனிமங்களான சாதாரண கற்கள் மற்றும் கிராவல் ஆகியவற்றை தவிர வேறு கனிமங்கள் ஏதும் கண்டறியப்பட்டால் உடனடியாக குவாரிப்பணியினை நிறுத்துவதோடு, புவியியல் மற்றும் சுரங்கத்துறை, விழுப்புரம் அலுவலகத்திற்கு தகவல் தெரிவிக்க வேண்டும்.
13. ஏதிர்வரும் காலங்களில் Drone Survey மூலம் அளவீடு செய்து அபராத நடவடிக்கை ஏதேனும் விதிக்கப்படின் அதனை விண்ணப்பதாரர் செலுத்த வேண்டும்.

14. தமிழ்நாடு சிறுகனிம சலுகை விதிகள் 1959 விதி-41ன்படி தகுதிவாய்ந்த நபரால் சுரங்க திட்டம் தயார் செய்து உதவி இயக்குநர் அவர்களின் ஒப்புதல் பெறவேண்டும்.
15. தமிழ்நாடு சிறுகனிம சலுகை விதிகள் 1959 விதி-42ன்படி மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்திடமிருந்து சுற்றுச்சூழல் சான்று பெற்று சமர்பிக்கப்படவேண்டும்.

எனவே, விழுப்புரம் வருவாய் கோட்டாட்சியர் மற்றும் விழுப்புரம் மாவட்ட புவியியல் மற்றும் சுரங்கத்துறை உதவி புவியியலாளர் ஆகியோரின் பரிந்துரை அறிக்கையினை பரிசீலனை செய்யப்பட்டு, விழுப்புரம் மாவட்டம், வானூர் வட்டம், தொள்ளமூர் கிராமம், பட்டா புல எண்கள். 106/2A (0.31.0), 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5), 106/4B (1.87.5) ஆகியவற்றில் 4.34.0 ஹெக்டேர் பரப்பளவில் பரப்பளவில் அரசு நிபந்தனைகளுக்குட்பட்டு 05 (ஐந்து) வருட காலத்திற்கு விண்ணப்பத்தாரர் திரு.மு.மூர்த்தி, த/பெ.முனியன் என்பவருக்கு குவாரி குத்தகை உரிமம் வழங்குவதற்குரிய தகுதியான நிலப்பரப்பாக கருதப்படுகிறது. அதன் அடிப்படையில், தமிழ்நாடு சிறுகனிம சலுகை விதிகள் 1959 விதி எண்.41-ன்படி குவாரிப்பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்க திட்டத்தினை தகுதிவாய்ந்த நபர் (RQP) மூலமாக கீழ்கண்ட நிபந்தனைகளுக்குட்பட்டு தயாரித்து அதனை 90 தினங்களுக்குள் உதவி இயக்குநர் (புவியியல் மற்றம் சுரங்கத்துறை) அவர்களின் பரிசீலனைக்கு சமர்ப்பிக்குமாறு விண்ணப்பதாரருக்கு அறிவுறுத்தப்படுகிறது.

நிபந்தனைகள்:-

1. விண்ணப்ப புலங்களின் அருகிலுள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டர் பாதுகாப்பு இடைவெளி விடப்பட வேண்டும்.
2. குவாரி குத்தகை வழங்கப்பட உள்ள புல எண்களுக்கு வடக்கு புறத்தில் சர்வே எண். 105/-ல் உள்ள வாய்க்கால் மற்றும் வண்டிபாதைக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு குவாரிப்பணி மேற்கொள்ள வேண்டும்.
3. குவாரி குத்தகை வழங்கப்பட உள்ள புல எண்களுக்கு கிழக்கு புறத்தில் சர்வே எண். 107/-ல் அமைந்துள்ள ஏரி புறம்போக்கிற்கு 50 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு குவாரிப்பணி மேற்கொள்ள வேண்டும்.
4. குவாரிப்பணி மேற்கொள்ளும் போது அருகிலுள்ள பட்டா மற்றும் அரசு புறம்போக்கு நிலங்களுக்கு எவ்வித இடையூறும் இல்லாமல் குவாரிப்பணி செய்ய வேண்டும்.
5. குவாரி குத்தகை வழங்கும் முன்பு விண்ணப்பித்துள்ள இடத்தினை DGPS சர்வே பணி மேற்கொண்டு அதன் அறிக்கையை சமர்பிக்க வேண்டும்.
6. முறைப்படியும், விஞ்ஞான பூர்வமாகவும் குவாரிப்பணி செய்ய வேண்டும்.
7. சான்றிதழ் பெறப்பட்ட போர்மேன், வெடிப்பாளர் மற்றும் சுரங்க மேலாளர் மூலம் குவாரிப்பணி செய்யப்பட வேண்டும்.
8. குவாரிப்பணி தொடங்குவதற்கு முன் சுரங்க பாதுகாப்பு இயக்குநர், சென்னை அவர்களுக்கு தகவல் தெரிவிக்கப்பட வேண்டும்.
9. பாறைகளை தகர்க்க கைத்துளைப்பான்களை கொண்டு பாறைகளை துளையிட்டு குறைவான வெடிப்பொருட்களை பயன்படுத்த வேண்டும்.
10. குவாரிப்பணி தொடங்குவதற்கு முன்பாக குவாரியை சுற்றி முள்கம்பி வேலி அமைத்து குவாரிப்பணி தொடங்க வேண்டும்.

11. குவாரித் தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்ய Metalliferous Mines விதிகளின்படி அகலமானதும், பாதுகாப்பானதுமான Benches அமைத்து பாதுகாப்பான முறையில் குவாரிக்குள் வாகனங்கள் சென்று வரவும் மற்றும் குவாரி தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்தும் குவாரிப்பணி செய்ய வேண்டும்.
12. குவாரிப்பணி செய்வதற்கு பரிந்துரை செய்யப்பட்ட கனிமங்களான சாதாரண கற்கள் மற்றும் கிராவல் ஆகியவற்றை தவிர வேறு கனிமங்கள் ஏதும் கண்டறியப்பட்டால் உடனடியாக குவாரிப்பணியினை நிறுத்துவதோடு, புவியியல் மற்றும் சுரங்கத்துறை, விழுப்புரம் அலுவலகத்திற்கு தகவல் தெரிவிக்க வேண்டும்.
13. தமிழ்நாடு சிறுகனிம சலுகை விதிகள் 1959 விதி-41ன்படி தகுதிவாய்ந்த நபரால் சுரங்க திட்டம் தயார் செய்து உதவி இயக்குநர் அவர்களின் ஒப்புதல் பெறவேண்டும்.
14. தமிழ்நாடு சிறுகனிம சலுகை விதிகள் 1959 விதி-42ன்படி மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்திடமிருந்து சுற்றுச்சூழல் சான்று பெற்று சமர்பிக்கப்படவேண்டும்.

உதவி இயக்குநர்,
புவியியல் மற்றும் சுரங்கத்துறை,
விழுப்புரம்.

பெறுநர்:-

திரு.மு.மூர்த்தி த/பெ.முனியன்,
எண்.413, மன்னார்சாமி கோவில் தெரு,
திருவக்கரை கிராமம்,
வானூர் வட்டம்,
விழுப்புரம் மாவட்டம்.

நகல்: இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை, சென்னை.
நகல்: மாநில சுற்றுசூழல் தாக்க தடையாக்க மதிப்பீட்டு ஆணையம், சென்னை.

ANNEXURE 11

அளவைப்படிவு. எண் 23.

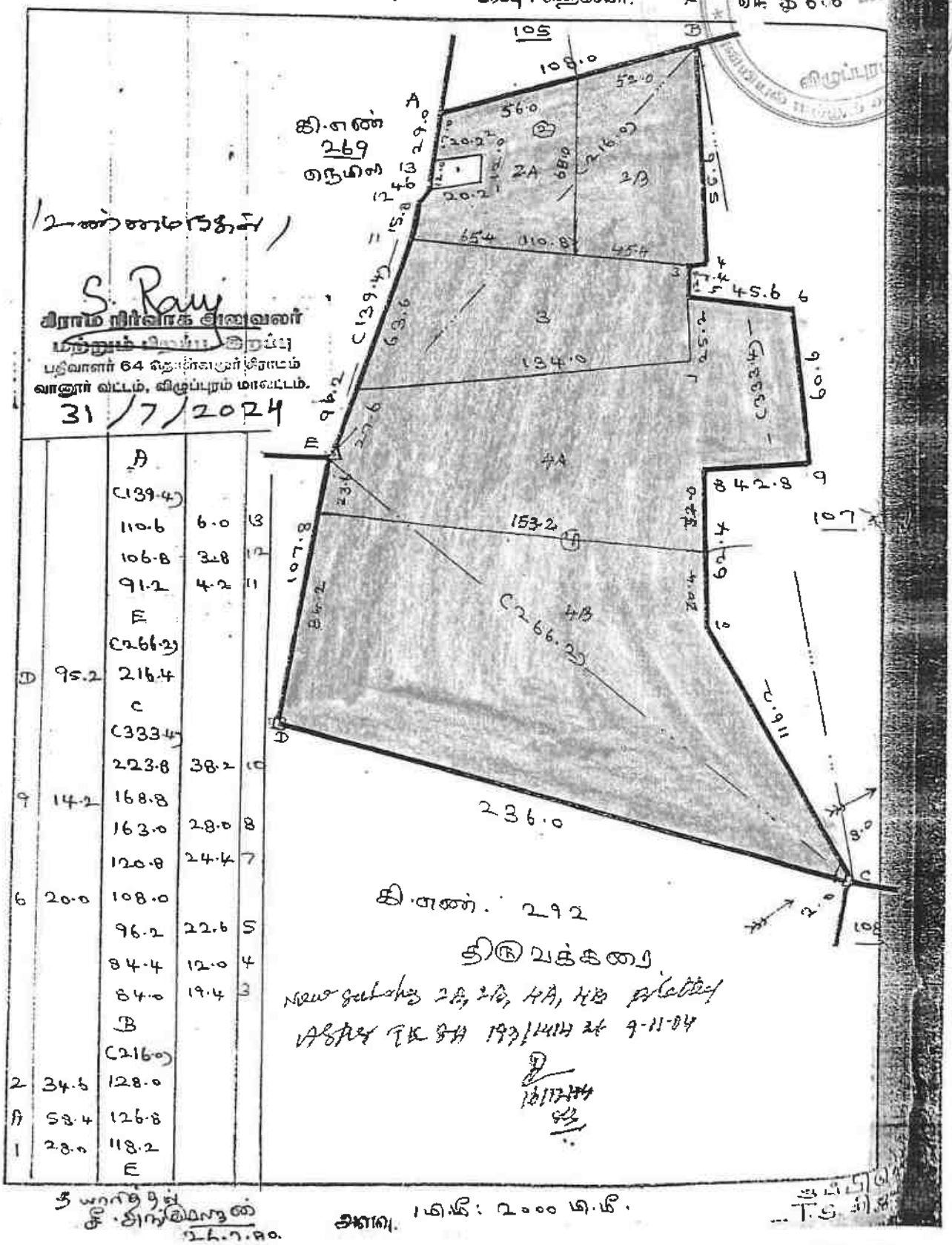
ட்டம். தென் ஆற்காடு

வட்டம். திண்டிவனம்

புல எண். 106

கிராமம் { எண். 266
பெயர். தொண்டூர்

பரப்பு : ஹெக்டேர். ஏக்கர் 3.60



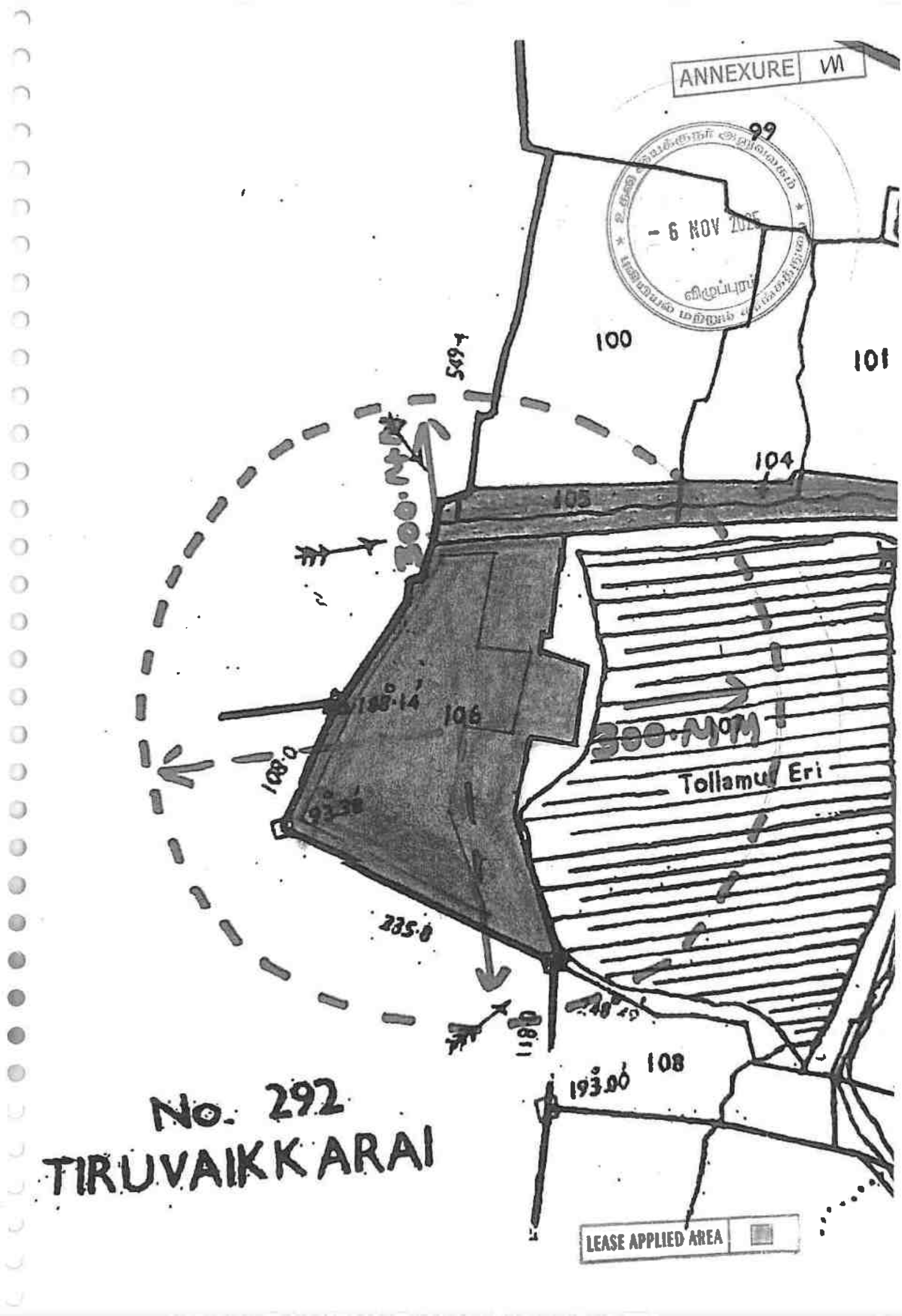
S. Ravi
கிராம நிர்வாக அலுவலர்
மற்றும் பிறப்பு இறப்பு
பதிவாளர் 64 தொண்டூர் கிராமம்
வானூர் வட்டம், விழுப்புரம் மாவட்டம்.
31/7/2024

		A		
		(139.4)		
		110.6	6.0	13
		106.8	3.8	12
		91.2	4.2	11
		E		
		(266.2)		
D	95.2	216.4		
		C		
		(333.4)		
		223.8	38.2	10
9	14.2	168.8		
		163.0	28.0	8
		120.8	24.4	7
6	20.0	108.0		
		96.2	22.6	5
		84.4	12.0	4
		64.0	19.4	3
		B		
		(216.0)		
2	34.6	128.0		
A	58.4	126.8		
1	28.0	118.2		
		E		

நிலஅளவையின் 2A, 2B, 4A, 4B உள்ளிட்ட
புலங்களுக்கு 19/11/04 ல் 9-11-04

அளவு. 1 மி.மீ : 2000 மி.மீ.

LEASE APPLIED AREA



- 6 NOV 20

No. 292
TIRUVAIKKARAI

ANNEXURE IV

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

6 NOV 2025

மாவட்டம் : விழுப்புரம் வட்டம் : வானூர்

வருவாய் இராமம் : தொள்ளாமூர் பட்டா எண் : 1315

உரிமையாளர்கள் பெயர்

1. முனியன் தந்தை மூர்த்தி

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	
106	2B	0 - 40.50	2.80	--	--	--	--	2018/0103/07/096406--193/1414 -------- 07-05-2018
106	3	0 - 58.50	3.25	--	--	--	--	2018/0103/07/104537--- ------- 30-05-2018
106	4A	1 - 16.50	6.50	--	--	--	--	2018/0103/07/096406--193/14141 -------- 07-05-2018
		2 - 15.50	12.55					

குறிப்பு :

1.	மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **07/02/266/01315/20670** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2.	இத் தகவல்கள் 29-07-2024 அன்று 04:17:45 PM நேரத்தில் அச்சடிக்கப்பட்டது
3.	கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : விழுப்புரம்

வட்டம் : வானூர்

வருவாய் கிராமம் : தொள்ளாமூர்

பட்டா எண் : 1316

உரிமையாளர்கள் பெயர்

1. பெருமாள் தந்தை வேணுகோபால்

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	
106	2A	0 - 31.00	2.20	--	--	--	--	2018/0103/07/096410--193/1414 -------- 07-05-2018
106	4B	1 - 87.50	10.40	--	--	--	--	2018/0103/07/096410--193/14141 -------- 07-05-2018
		2 - 18.50	12.60					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **07/02/266/01316/20681** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 29-07-2024 அன்று 04:19:38 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

ANNEXURE V



ம் பகலியில் விருப்புரிமைவாட்டம் வாணாளி 6 திராமக் கணக்கு வட்டம் தொகுதி

நில அளவை எண்.	உட்பிரிவு எண்.	வரித் திட்டத்தின்படி புலன்களின் விபரம். பரப்பு.	தீர்வை.	ஒரு போகம் அல்லது இரு போகம்.	கைப்பற்று தாரருடைய பெயரும் எண்ணும் அல்லது அனுபோக தாரருடைய பெயர்.	ராருபடியாளரின் பெயர். நிலத்தின் எந்த பகுதி பாவது ராருபடியாளரால் பயிரிடப்பட்டுள்ளதா.	முதல் போகம். எந்த மாதத்தில் பயிர் செய்யப்பட்டது அறுவடை மாதத்தில் அறுவடை செய்யப்பட்டது.	பயிரின் பெயர்.	பயிரான / அறுவடை யான பரப்பு.	உண்மையான பாய்ச்சல் ஆதாரம்.	விளைச்சல் அளவு விழுக்காடு.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
106	2B	0.40.5	2.80	1315	தி. நீர்த்தி				~~0.40.0~~ 0.40.5		
106	3	0.58.5	3.25	1315	do				0.58.5		
106	4A	1.16.5	6.50	1315	do				1.16.5		
106	2A	0.31.0	2.20	1316	வைரு கோபால்				0.31.0		
106	4B	1.87.5	10.40	1316	do				1.87.5		
								மொத்தம்	~~4.33.5~~		4.34.0

கண்மாய்

வானாற்று வட்டம்

திருவாரூர் மாவட்டம் திருத்துறைப்பூண்டி தாலுகாவில் அமைந்துள்ள நீர்த்தி கிராமத்தில் என்பவர் மேற்கண்ட புல எண்களில் மொத்தம் மொத்தம் 4.34.0 ஏக்கர் நன்செய் நிலத்தை பல ஆண்டுகளாக பயன்படுத்தி வருகிறார்.

S. Raju

கிராம நிர்வாக அலுவலர்

பதவி முத்திரை

பதிவாளர் 64 தொகுதி மூர் கிராமம்

வாணூர் வட்டம், விழுப்புரம் மாவட்டம்.

31/7/2024

அ-பதிவேடு விவரங்கள் - ஊரகம்

ANNEXURE VI

மாவட்டம் : விழுப்புரம்

வட்டம் : வானூர்

கிராமம் : தொள்ளாமூர்

1. புல எண்	106	9. மண் வகைமை மற்றும்	0 - 0
2. உட்பிரிவு எண்	2A	10. மண் தரம்	0
3. பழைய புல உட்பிரிவு எண்	-2B	11. நீர்வை (ஹ - ஹெ)	0.95
4. பகுதி	P	12. பரப்பு (ஹெக்டேர் - ஏர்)	0 - 31.00
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த நீர்வை (ஹ - பை)	2.29
6. நிலத்தின் வகை	புஞ்சை	14. பட்டா எண்	1316
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இரு போகமா	-	16. பெயர்	1.வேணுகோபால்

குறிப்பு:

மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 07/02/266/106/2A/20681 என்ற குறியீடு எண்ணை உள்ளிடு செய்து உறுதி செய்துகொள்ளவும்.

1.

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டம் : விழுப்புரம்

ட்டம் : வானூர்

கிராமம் : தொள்ளாமூர்



1. புல எண்	106	9. மண் வயனமும் ரகமும்	0 - 0
2. உட்பிரிவு எண்	2B	10. மண் தரம்	0
3. பழைய புல உட்பிரிவு எண்	-2B	11. தீர்வை (ரூ - ஹெ)	6.95
4. பகுதி	P	12. பரப்பு (ஹெக்டேர் - ஏர்)	0 - 40.50
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த தீர்வை (ரூ - பை)	2.80
6. நிலத்தின் வகை	புஞ்சை	14. பட்டா எண்	1315
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இரு போகமா	-	16. பெயர்	1.மூர்த்தி

குறிப்பு:

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டினிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **07/02/266/106/2B/20670** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

அ-பதிவேடு விவரங்கள் - ஊரகம்

ட்டம் : விழுப்புரம்

ட்டம் : வானூர்

கிராமம் : தொள்ளாமூர்



1. புல எண்	106	9. மண் வயனமும் ரகமும்	8 - 1
2. உட்பிரிவு எண்	3	10. மண் தரம்	4
3. பழைய புல உட்பிரிவு எண்	200-1,3	11. தீர்வை (ரூ - ஹெ)	5.55
4. பகுதி	-	12. பரப்பு (ஹெக்டேர் - ஏர்)	0 - 58.50
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த தீர்வை (ரூ - பை)	3.25
6. நிலத்தின் வகை	புஞ்சை	14. பட்டா எண்	1315
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இரு போகமா	-	16. பெயர்	1.மூர்த்தி

குறிப்பு:

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **07/02/266/106/3/20670** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

அ-பதிவேடு விவரங்கள் - ஊரகம்



மாவட்டம் : விழுப்புரம்

வட்டம் : வானூர்

கிராமம் : தொள்ளாமூர்

1. புல எண்	106	9. மண் வயனமும் ரகமும்	8 - 1
2. உட்பிரிவு எண்	4A	10. மண் தரம்	4
3. பழைய புல உட்பிரிவு எண்	200-2,4,5	11. தீர்வை (ரூ - ஹெ)	5.55
4. பகுதி	P	12. பரப்பு (ஹெக்டேர் - ஏர்)	1 - 16.50
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த தீர்வை (ரூ - பை)	6.50
6. நிலத்தின் வகை	புஞ்சை	14. பட்டா எண்	1315
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இரு போகமா	-	16. பெயர்	1.மூர்த்தி

குறிப்பு:

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **07/02/266/106/4A/20670** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

அ-பதிவேடு விவரங்கள் - ஊரகம்

டம் : விழுப்புரம்

டம் : வானூர்

ராமம் : தொள்ளாமூர்

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விழுப்புரம்

1. புல எண்	106	9. மண் வயனும் ரகமும்	3 - 1
2. உட்பிரிவு எண்	4B	10. மண் தரம்	4
3. பழைய புல உட்பிரிவு எண்	200-2,4,5	11. நிர்வை (ஏ - ஹெ)	5.55
4. பருடி	P	12. பரப்பு (ஹெக்டேர் ஏர்)	1 - 87.50
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த நிர்வை (ஏ - பை)	10.40
6. நிலத்தின் வகை	புஞ்சை	14. பட்டா எண்	1316
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இரு போகமா	-	16. பெயர்	1.வேணுகோபால்

குறிப்பு:

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 07/02/266/106/4B/20681 என்ற குறியீடு எண்ணை உள்ளிடு செய்து உறுதி செய்துகொள்ளவும்.

-6 NOV 2025
விழுப்புரம்

3	4	5	6	7	8			9		10	11	12
	-8	ஈ	பு	...	7-2	4	5 55	0	13·0	0 72	254. தொ. வரதராஜ பிள்ளை (வா. வழி தேவி)	
	-7	ஏ	பு	...	7-2	4	5 55	0	11·5	0 61	30. தொ. கல்யாணசுந்தரம். (வாலாஜாபாத்)	
8	-5 -6	ஏ	பு	...	7-2	4	5 55	0	40·5	2 25	24. தொ. வடிவேல் பிள்ளை	
9	-3	ஏ	பு	...	7-2	4	5 55	0	13·0	0 72	255. தொ. மாதவச் செட்டி.	
10	190-1எ1 -1எ2	ஏ	பு	...	7-2	4	5 55	0	19·0	1 05	296. தொ. வடிவேல் பிள்ளை. (வா. வரந்தாங்கல்)	
11	-4	அ	புற	...	...	...	...	0	04·0	...	...	தொடர்பு
12	-7எ -12	ஏ	பு	...	7-2	4	5 55	0	13·5	0 75	227. தொ. ராம சாமி.	
13	9எ 9பி	ஏ	பு	...	7-2	4	5 55	0	05·5	0 31	94. ந. சச்சிதா நந்தம் உடை யார்.	
14	-11	ஏ	பு	...	7-2	4	5 55	0	05·0	0 28	186. தொ. பஞ்சாட்சி பிள்ளை.	
15	-12எ	ஏ	பு	...	7-2	4	5 55	0	02·5	0 14	41. ந. கணபதி ஆண்டாள்	
								3	38·5	18 58		
103	...	116-2பி 190-1பி -2எ -3	அ	புற	...	...	...	...	0 71·5	...	...	ஊரம்கோ
104	...	196-5பி 198-2	அ	புற	...	...	...	...	0 69·5	...	...	ஊரம்கோ
105	...	195-1பி 198-2 199-2எ	அ	புற	...	...	...	...	0 70·0	...	...	வரம்கோ
106	1	199-1	ஏ	பு	...	8-1	4	5 55	0	02·0	0 11	179 எ. பெரியண்ண பிள்ளை.
	2	-2பி	ஏ	பு	...	...	†	6 95	1	71·5	4 96	15. ரா. ஆளவந்தாக் கவுண்டர்.
	3	200-1 -3	ஏ	பு	...	8-1	4	5 55	0	58·5	3 25	15. ரா. ஆளவந்தாக் கவுண்டர்.

† தனித் தீர்வை

S. Rau
கிராம நிர்வாக அலு
தெள்ளவூர் கிராம
வாலாஜா.

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2	3	4	5	6	7	8	9	10	12	
						செ. மை.	ஹெ. ஏர்ஸ்.	செ. மை.		
200-2 -4 -5	ர	பு	...	8-1	4	5 55	3. 04·0	14 87	224. நா. ராமு உடையார்.	
							4 36·0	25 19		
198-3	அ	புற	...	...	...	...	11 14·0	...	...	சித்தேரி.
181-1	ர	பு	...	8-1	4	5 55	0 12·0	0 67	55. க. கிளியம் மாள்.	
-2 -3 -4	ர	பு	...	8-1	4	5 55	1 16·0	6 44	51. ஏ. காசாம்பு.	
-5ஏ	ர	பு		8-1	4	5 55	0 22·0	1 22	128. ர. சுப்பிரமணிய உடையார்.	
-5பி	அ	புற	...	...	...	...	0 02·0	...	...	வாய்க்கால்.
							1 52·0	8 33		
181-6பி -7பி	அ	புற	...	...	...	...	0 13·0	...	...	வாய்க்கால்.
-9 -10 -11ஏ	ர	பு	..	8-1	4	5 55	1 41·5	7 86	119. ரா. சிவிவாச கவுண்டர்.	
-12	ர	நB	...	8-1	5	14 70	0 02.0	0 29	43. கு. பெரியகோபால் பிள்ளை, மு. குணசேகரன் (2). மு. சுப்புராய உடையார் (3),	
-6இ	ர	பு	...	8-1	4	5 55	0 03·0	0 17	119. ரா. சிவிவாச கவுண்டர்.	
-6ஏ -7ஏ	ர	பு	...	8-1	4	5 55	0 51·0	3 16	119. ர. சிவிவாச கவுண்டர்.	
-11பி	அ	புற	..	...	...	...	0 01·5	...	...	வாய்க்கால்.
-11இ	ர	பு	...	8-1	4	5 55	0 01.0	0 06	119. ரா. சிவிவாச கவுண்டர்.	
							2 19·0	11 54		
184-4 -5 -6	ர	நB	...	7-2	5	14 70	0 30.0	4 41	128. ரா. சுப்ரமணிய உடையார்.	
-1	ர	நB	...	7-2	5	14 70	0 03 0	0 44	128. ர. சுப்ரமணிய உடையார்.	
-2	ர	நB	...	7-2	5	14 70	0 06·0	0 88	188. சு. மங்களம் கரபி.	

S. Ravi

ANNEXURE VII

2089/2018

TP/



தமிழ்நாடு தமிழ்நாடு TAMILNADU

AY 424957

3295 ரூ.1000/- நான்கு
10.05.2018

S.சிவக்குமார், எம்.பி.ஏ.,
முத்திரைத்தாள் விற்பனையாளர்
உரிமம் எண். 2818/பி1/2008
செஞ்சி, தமிழ்நாடு.

11/3/18

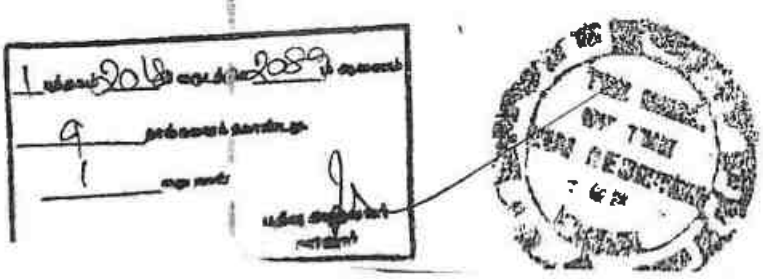
குத்தகைப்பத்திரம்.

2018-ம் ஆண்டு மே மாதம் 15-ம் தேதி (15.05.2018) தமிழ்நாடு மாநிலம், சென்னை, ஆவடி, வசந்தம் நகர், நேரு 2-வது குறுக்கு தெரு, எண்.22-வீட்டில் வசிக்கும் திரு.பெருமாள் அவர்களின் குமாரர் திரு.வேணுகோபால் (இந்திய தனிப்பட்ட அடையாள ஆணையமைப்பின் ஆதார் அட்டை எண்.4716 8793 5332, கைபேசி எண்.9940531578) -(1) (குத்தகை விடுபவர்):

தமிழ்நாடு மாநிலம், விழுப்புரம் மாவட்டம், வானூர் வட்டம், திருவக்கரை கிராமம், மன்னார்சாமி கோயில் தெரு, 413-வீட்டில் வசிக்கும் திரு.முனியன் அவர்களின் குமாரர் திரு.மூர்த்தி (இந்திய தனிப்பட்ட அடையாள ஆணையமைப்பின் ஆதார் அட்டை எண்.4543 1021 7493, கைபேசி எண்.9442968307) -(2) (குத்தகை பெறுபவர்); ஆகிய நாம் இருவரும் சேர்ந்து சம்மதித்து எழுதிக்கொண்ட குத்தகைப்பத்திரம்.

1-வது நபர் — P. வேணுகோபால்

2-வது நபர் — T. M. Moorthy



TP/15/17626/2018



தமிழ்நாடு தமிலநாடு TAMILNADU

AF 957847

3296 ரூ-500/- மூன்றாம்
10.05.2018 திருலைக்கரை

S.சிவக்குமார், எம்.பி.ஏ..,
முத்திரைத்தாள் விற்பனையாளர்
உரிமம் எண். 2818 / பி1 / 2008
செஞ்சி, தமிழ்நாடு.

இதனடியில் விவரிக்கப்பட்டுள்ள சொத்தானது 1-வது நபர் 21.06.2017 தேதியில் தேதியில் திரு.மோகன் என்பவரிடமிருந்து சுயமாய் கிரையம் பெற்று அது வானூர் சார்பதிவகத்தில் I புத்தகம் 2017-ம் வருடத்திய 1627-ம் எண்ணாக பதிவு செய்யப்பட்டது, மேற்படி கிரைய ஆவணத்தின் படி நம்மில் 1-வது நபருக்கு உரிமையாகி பாத்தியமான சொத்தை 1-வது நபர், 2-வது நபருக்கு 10-(பத்து), வருடக்காலத்திற்கு கல் குவாரியில் ஜல்லி உடைக்கும், தொழில் செய்வதற்கும் குத்தகைக்கு விடுவதாகவும், 2-வது நபர் குத்தகை எடுத்துகொள்ளுவதாகவும் நமக்குள் ஒப்புக்கொண்டு இதற்கு வருடக் குத்தகையாக ரூபாய்.15,000/-(ரூபாய் பதினைந்தாயிரம் மட்டில்) என நிர்ணயத்துக்கொண்டு குத்தகைக்கு முன்பணமாக முதல்வருடக்குத்தகை தொகை ரூபாய்.15,000/-(ரூபாய் பதினைந்தாயிரம் மட்டில்) 2-வது நபரிடமிருந்து 1-வது நபர் ரொக்கமாக பெற்றுக்கொண்டார், ஒவ்வொரு வருட குத்தகை தொகையினை அந்தந்த வருட கெடு முடிவிற்குள் 2-வது நபர் 1-வது நபருக்கு ரொக்கமாக கொடுக்கவேண்டியது, குத்தகை கெடுவில் கீழ்கண்ட சொத்தில் கல் குவாரியில் நடத்த அரசு விதிப்படி ஜல்லி உடைக்கும், தொழில் செய்வதற்கும் எடுத்துகொள்ள

1-வது நபர்

2-வது நபர்

P. ஜே. மோகன்

M. MOORTHY

TP/16177626/2018

- 6 NOV 2025

வேண்டியது, மேற்படி கெடு முடிந்தவுடன் நிலத்தை 1-வது நபருக்கு 2-வது நபர் திரும்ப ஒப்படைக்கவேண்டியது, குத்தகை காலக்கெடுவில் ஏற்படும் சர்க்கார் தீர்வை ஆகியவர்களை 2-வது நபர் கட்டிவரவேண்டியது, கீழ்கண்ட சொத்தை 2-வது நபர் வேறு நபருக்கு உள்குத்தைகக்கு விடக்கூடாது, இதன்படி நாம் இருவரும் சேர்ந்து சம்மதித்து எழுதிக்கொண்ட குத்தகை உடன்படிக்கை பத்திரம்.

சொத்துவிபரம்.

தமிழ்நாடு மாநிலம், திண்டிவனம் மாவட்ட பதிவகம், வானூர் சார்பதிவகம், தொள்ளமூர் பஞ்சாயத்திற்குட்பட்ட தொள்ளமூர் கிராமத்தில் அயன் புஞ்சை ரீ சர்வே எண்.106/4, தற்போதைய சப்டிவிஷன் படி ரீ சர்வே எண்.106/4B-(1.87.5)ஏர்ஸ் பூரா, பழைய சர்வே எண்கள்.200/2, 200/4, 200/5-ஏக்கர் 7.51செண்டில், ஏக்கர் 4.63செண்டு.

1-வது நபர் 2-வது நபர்

T. M. MOORTHY

1 ஆம் தேதி 9 ஆம் மாதம் 2025 ஆம் ஆண்டு
9 நாள் கணக்கு கொண்டது
3 வது நாள்
பதிவு எழுத்தர்
வானூர்

TP/1617/621/2025

- 6 NOV 2025

விழுப்புரம்

அயன் புஞ்சை ரீ சர்வே எண்.106/2, (தற்போதைய சப்டிவிஷன் படி ரீ சர்வே எண்.106/2A-(0.31.0)ஏர்ஸ் பூரா, பழைய சர்வே எண்.199/2பி-ஏக்கர் 1.77செண்டில் ஏக்கர் 0.82செண்டும் சேர்த்து ஆக மொத்தம் ஏக்கர் 5.45செண்டு புஞ்சை நிலம் மட்டில்.

1–வது நபர்

2–வது நபர்

சாட்சிகள்;

1.

திரு.முனியன் த/பெ அம்பிகாவதி, நெ.413, மன்னார்சாமி கோவில் தெரு, திருவக்கரை கிராமம், வானூர் வட்டம், விழுப்புரம் மாவட்டம் (இந்திய அரசாங்க ஆணை அமைப்பின் ஆதார் அட்டை எண். 8882 1344 2122)

2.

திரு.முனுசாமி த/பெ முனியன், நெ.413, மன்னார்சாமி கோவில் தெரு, திருவக்கரை கிராமம், வானூர் வட்டம், விழுப்புரம் மாவட்டம், (இந்திய அரசாங்க ஆணை அமைப்பின் ஆதார் அட்டை எண்.5503 5923 4847)

ஆவணம் வரைவு அளித்தவர்;

S.மதியழகன்,M.Com.,
மாநில ஆவண எழுத்தர்.
உரிமம் எண்;A/145,TDM/2000.
வானூர் ஒட்டை

1 வகை 20 பிரிவின் கீழ் முத்திரைத் தீர்வை ரூ.
9 நகல் கட்டணம் வசூலிக்கப்பட்டது.
4 பக்கங்கள்

R/வானூர்/புத்தகம்-1/2089/2018

,8 ஆம் ஆண்டு மே மாதம் 15ம் தேதி பிப 01.45 மணியளவில் வானூர் சார்பதிவாளர் அலுவலகத்தில் தாக்கல் செய்து கட்டணம் ₹ 1,750/- செலுத்தியவர்

இடது பெருவிரல்  	கூடுதல் விவரங்கள் ஆவண வாசகத்தில் உள்ளபடி
எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர் இடது பெருவிரல்  	கூடுதல் விவரங்கள் ஆவண வாசகத்தில் உள்ளபடி
எழுதி வாங்கியதாக ஒப்புக் கொண்டவர் இடது பெருவிரல்  	கூடுதல் விவரங்கள் ஆவண வாசகத்தில் உள்ளபடி
இன்னாரென்று நிருபித்தவர்கள் 1. 2.	திரு முனியன் தபெ அம்பிகாவதி நெ.413, மன்னாசாமி கோவில் தெரு, திருவக்கரை கிராமம், வானூர் வட்டம், விழுப்புரம் மாவட்டம், திருவக்கரை, வானூர், விழுப்புரம், தமிழ்நாடு, இந்தியா, 604304 திரு முனுசாமி தபெ முனியன் நெ.413, மன்னாசாமி கோவில் தெரு, திருவக்கரை கிராமம், வானூர் வட்டம், விழுப்புரம் மாவட்டம், திருவக்கரை, வானூர், விழுப்புரம், தமிழ்நாடு, இந்தியா, 604304

2018 ஆம் ஆண்டு மே மாதம் 15ம் நாள்

சார்பதிவாளர்
வானூர்.
சடகோபன் கோ ச
சார்பதிவாளர்
வானூர்

R/வானூர்/புத்தகம்-1/2089/2018 என்னாகப் பதிவு செய்யப்பட்டது.

நாள்: 15/05/2018
வானூர்

சார்பதிவாளர்
வானூர்
சடகோபன் கோ ச
சார்பதிவாளர்

TP/15177626/2018

இந்திய அரசாங்கம்
Government of India

மூர்த்தி முனியன்
Moorthi Muniyan
தந்தை முனியன்
Father MUNIYAN
பிறந்த நாள் / DOB 04/12/1986
ஆண் / Male



4543 1021 7493

ஆதார் - சாதாரண மனிதனின் அதிகாரம்

Unique Identification Authority of India

முகவரி
S/O முனியன், எண் 413
மன்னாசாமி கோவில்,
திருவக்கரை வானூர்தாலுகா
திருவக்கரை திருவக்கரை
விழுப்புரம் தமிழ்நாடு 604304

Address
S/O Muniyan, 413, MANNASAMY
KOVIL, THIRUVAKKARAI,
VANURTALUKA, Tiruvakkarai,
Thiruvakkarai, Viluppuram, Tamil
Nadu, 604304

- 6 NOV 2025

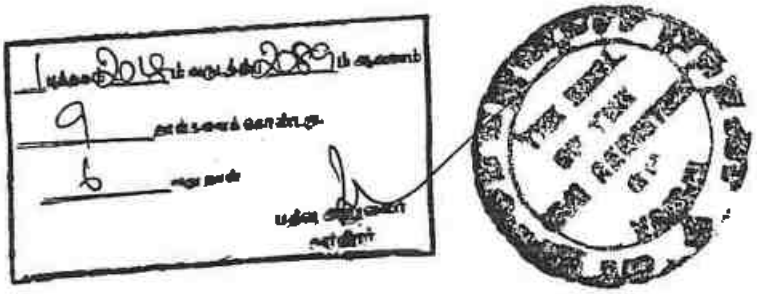
4543 1021 7493

1947
1800 300 1947

help@uidai.gov.in

www.uidai.gov.in

T.M. MOORTHY



TP/15177626/2018

ATION:

- Aadhaar is proof of identity, not of citizenship.
- To establish identity, authenticate online.

- ஆதார் நாடு முழுவதிலும் செல்லுபடியாகும்
- வருங்காலத்தில் அரசு மற்றும் அரசு சாரா சேவைகளை பயன்படுத்திக் கொள்ள ஆதார் உதவிகரமாக இருக்கும்
- Aadhaar is valid throughout the country.
- Aadhaar will be helpful in availing Government and Non-Government services in future.

ஆதார்

Unique Identification Authority of India

Address S/O Perumal 22 nehru 2 cross STREET, vasantham nagar, CHENNAI, Avadi, Tiruvallur Avadi camp, Tamil Nadu 600054

4716 8793 5332

help@uidai.gov.in

www.uidai.gov.in

இந்திய அரசாங்கம்

Government of India

Enrollment No.

To
Venu Gopal P
S/O Perumal
22 nehru 2 cross STREET
vasantham nagar
CHENNAI
Avadi
Avadi camp Tiruvallur
Tamil Nadu - 600054

KL6534883267T

65348832

உங்கள் ஆதார் எண் / Your Aadhaar No.

4716 8793 5332

ஆதார் - சாதாரண மனிதனின் அதிகாரம்

இந்திய அரசாங்கம்

Government of India

Venu Gopal P

பிறந்த நாள்/DOB: 01/03/1956

ஆண்/ Male



4716 8793 5332

ஆதார் - சாதாரண மனிதனின் அதிகாரம்

TP/15177626/2018

இந்திய அரசாங்கம்
Government of India
முனியன் அம்பிகாவதி
Muniyan Ambigavathy
பிறந்த நாள் / DOB 12/07/1959
ஆண்பால் / Male



8882 1344 2122

ஆதார் - சாதாரண மனிதனின் அதிகாரம்

முனியன்

இந்திய தனித்துவ அடையாள ஆணைய அரசு
Unique Identification Authority of India

ஆதார்
முகவரி:
S/O அம்பிகாவதி, எண் 413,
மண்ணாசாமி கோவில்,
திருவக்கரை, வானூர்தாலுக்கா,
திருவக்கரை, திருவக்கரை,
விழுப்புரம், தமிழ்நாடு, 604304

Address:
S/O Ambigavathy, 413,
MANNASAMY KOVIL,
THIRUVAKKARAI,
VANURTALUKA, Tiruvakkarai,
Thiruvakkarai, Viluppuram, Tamil
Nadu, 604304

8882 1344 2122

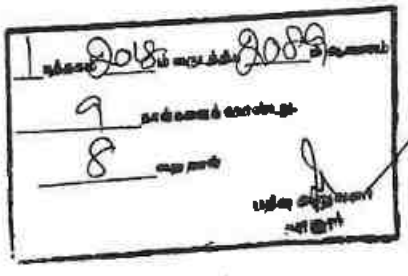
1947
1800 300 1947

help@uidai.gov.in

www.uidai.gov.in

- 5 MAY 2025

விழுப்புரம்





இந்திய அரசாங்கம்

Government of India

பதிவேட்டு எண்/ Enrolment No.: 2189/73943/00665

To
முனுசாமி
Munusamy
S/O Muniyan
413
MANNASAMY KOVIL
VANURTALUKA
THIRUVAKKARAI
Tiruvaikkarai
Thiurvakkarai
Viluppuram Tamil Nadu - 604304
9751442640

Download Date: 24/11/2017

Generation Date: 30/09/2017

Signature valid

ங்கள் ஆதார எண் / Your Aadhaar No.

5503 5923 4847

எனது ஆதார், எனது அடையாளம்

இந்திய அரசாங்கம்
Government of India

முனுசாமி
Munusamy
பிறந்த நாள்/DOB: 14/06/1987
ஆண்/ MALE

5503 5923 4847

எனது ஆதார், எனது அடையாளம்

அடையாளத்திற்கான எளிது, குடியிருமைக்கு அல்ல.

அடையாள சான்றை ஆனலைன் ஆதார் கேஷன் மூலமாக பெறவும்

இது எலக்ட்ரானிக் செயல்முறை மூலம் தயாரிக்கப்பட்ட கடிதமாகும்

is a proof of identity, not of citizenship.

To establish identity, authenticate online.

This is electronically generated letter.

ஆதார் நாடு முழுவதிலும் செல்லுபடியாகும்

வருங்காலத்தில் அரசு மற்றும் அரசு சாரா சேவைகளை பயன்படுத்திக் கொள்ள ஆதார் உதவிகரமாக இருக்கும்

Aadhaar is valid throughout the country.

Aadhaar will be helpful in availing Government and Non-Government services in future.

Unique Identification Authority of India

Address:
S/O Muniyan, 413, MANNASAMY KOVIL, THIRUVAKKARAI, VANURTALUKA, Tiruvaikkarai, Viluppuram, Tamil Nadu - 604304

5503 5923 4847

HOV 2025

M. Munusamy

Tp/16776 24/2018

ANNEXURE VIII

- 6 NOV 2025



இந்திய அரசாங்கம்
Government of India

மூர்த்தி முனியன்
Moorthi Muniyan
தந்தை முனியன்
Father : MUNIYAN
பிறந்த நாள் / DOB : 04/12/1986
ஆண்பால் / Male

4543 1021 7493

ஆதார் - சாதாரண மனிதனின் அதிகாரம்



Unique Identification Authority of India

முகவரி
S/O முனியன் எண் 413
மன்னசாமி கோவில்
திருவக்கரை வானூர்தாலுக்கா
திருவக்கரை திருவக்கரை
விழுப்புரம் தமிழ்நாடு 604304

Address
S/O Muniyan, 413, MANNASAMY KOVIL, THIRUVAKKARAI, VANURTALUKA, Tiruvakkarai, Thiuvakkarai, Vikuppuram, Tamil Nadu, 604304

4543 1021 7493



आयकर विभाग
INCOME TAX DEPARTMENT

भारत सरकार
GOVT. OF INDIA

स्थायी लेखा संख्या कार्ड
Permanent Account Number Card
EYSPM2236J

नाम / Name
MOORTHI

पिता का नाम / Father's Name
MUNIYAN

जन्म की तारीख / Date of Birth
04/12/1986

हस्ताक्षर / Signature

ANNEXURE IX

CHETTINAD CEMENT CORPORATION LTD.,

(Regd. Office: RANI SEETHAI HALL BUILDING IV & V FLOORS, 803, ANNA SALAI, MADRAS-600006.)
WORKS OFFICE: PULIYUR.

TELE: PHONE 21144 / 22744 / 21745 KARUR
GRAM "CEMENT" Puliyur C.F.
Telex: 0456-215.
STD Code: 04324

- 6 NOV 2025

T.RAJU.,B.E.,
MINES MANAGER & DY.GENERAL MANAGER.

,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, 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.

- 6 NOV 2025

ANNAMALAI UNIVERSITY

Faculty of Science

The Senate of the Annamalai University hereby makes known that C. Natarajan has been admitted to the Degree of Master of Science (By Examination) in ~~Zoology~~ 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.
24th December 1976.

A. Chandrasekhar
Vice-Chancellor.

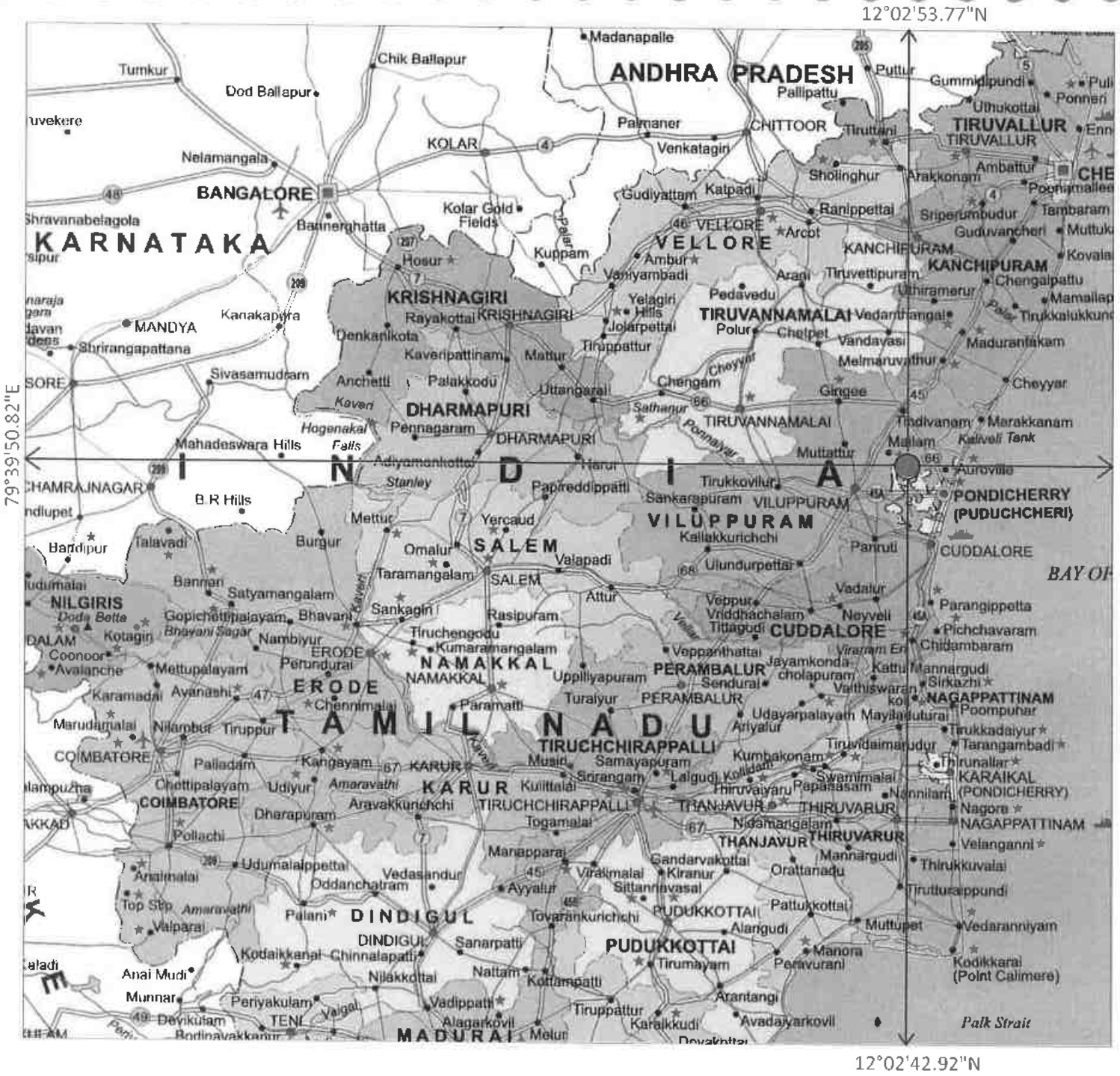


PLATE NO-I

DATE OF SURVEY : 03.10.2025

APPLICANT:

THIRU.M.MOORTHI
S/O.MUNIYAN.
NO:413,MANNARSAMY KOVIL STREET,
TIRUVAKKARAI VILLAGE,
VANUR TALUK.
VILUPPURAM DISTRICT.

QUARRY LEASE APPLIED AREA:

S.F.NO'S :106/2A,106/2B,106/3,106/4A&106/4B
EXTENT : 4.34.0 Ha,
VILLAGE : THOLLAMUR,
TALUK : VANUR,
DISTRICT : VILUPPURAM.

INDEX

Q. LEASE APPLIED AREA :

TOPO SHEET No. : 57 P/ 12

LATITUDE : 12°02'42.92"N to 12°02'53.77"N

LONGITUDE : 79°39'50.82"E to 79°39'58.81"E

LOCATION PLAN

NOT TO SCALE

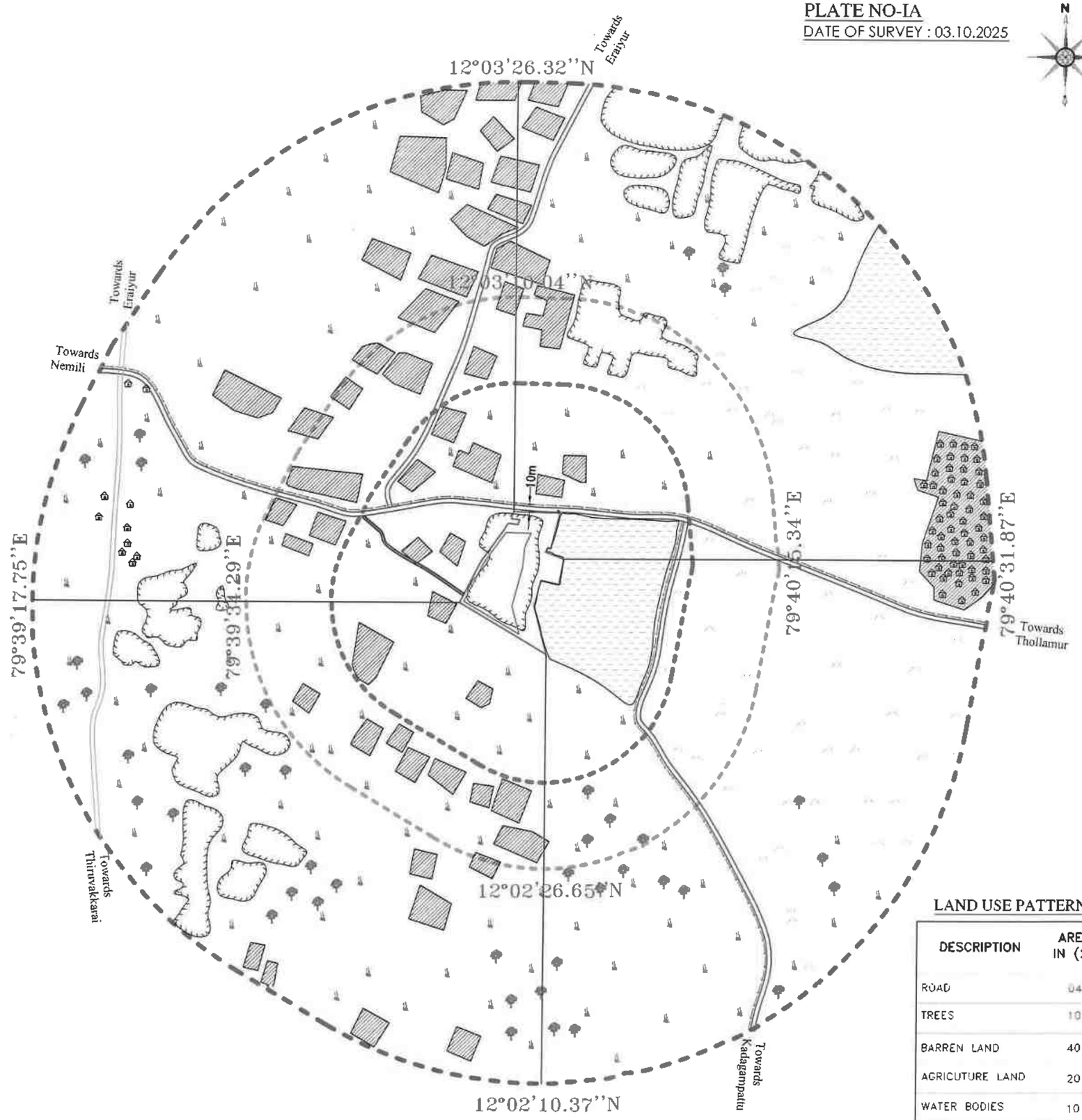
PREPARED BY :

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

C.NATARAJAN,M.Sc.,M.Phil.,
QUALIFIED PERSON

PLATE NO-IA

DATE OF SURVEY : 03.10.2025



APPLICANT:

THIRU.M.MOORTHI
S/O,MUNIYAN,
NO:413,MANNARSAMY KOVIL STREET,
TIRUVAKKARAI VILLAGE,
VANUR TALUK,
VILUPPURAM DISTRICT.

- 6 NOV 2025

QUARRY LEASE APPLIED AREA:

S.F.NO'S :106/2A,106/2B,106/3,106/4A&106/4B
EXTENT : 4.34.0 Ha,
VILLAGE : THOLLAMUR,
TALUK : VANUR,
DISTRICT : VILUPPURAM.

INDEX

TOPO SHEET No. : 57 P/ 12

LATITUDE : 12°02'42.92"N to 12°02'53.77"N

LONGITUDE : 79°39'50.82"E to 79°39'58.81"E

Q.LEASE APPLIED BOUNDARY	
7.5m &50m SAFETY	
300M RADIUS	
500M RADIUS	
1KM RADIUS	
APPROACH ROAD	
CART TRACK	
VILLAGE ROAD	
BARREN LAND	
TREES	
SEASONAL AGRICULTURE	
QUARRY PIT	
ERI	
VAIKKAL	
CRUSHER PLANT	
HABITATION	

LAND USE PATTERN

DESCRIPTION	AREA IN (%)
ROAD	04
TREES	10
BARREN LAND	40
AGRICUTURE LAND	20
WATER BODIES	10
CRUSHER PLANT	12
HABITATION	04

ENVIRONMENTAL PLAN

SCALE 1: 10,000

PREPARED BY :

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C.NATARAJAN,M.Sc.,M.Phil.,
QUALIFIED PERSON



N

- 6 NOV 2025

PLATE NO-IB
DATE OF SURVEY :03.10.2025

APPLICANT:
THIRU.M.MOORTHI
S/O.MUNIYAN,
NO:413,MANNARSAMY KOVIL STREET,
TIRUVAKKARAI VILLAGE,
VANUR TALUK,
VILUPPURAM DISTRICT.

QUARRY LEASE APPLIED AREA:
S.F.NO'S :106/2A,106/2B,106/3,106/4A&106/4B
EXTENT : 4.34.0 Ha,
VILLAGE : THOLLAMUR,
TALUK : VANUR,
DISTRICT : VILUPPURAM.

INDEX

TOPO SHEET No. : 57 P/ 12

LATITUDE : 12°02'42.92"N to 12°02'53.77"N

LONGITUDE : 79°39'50.82"E to 79°39'58.81"E

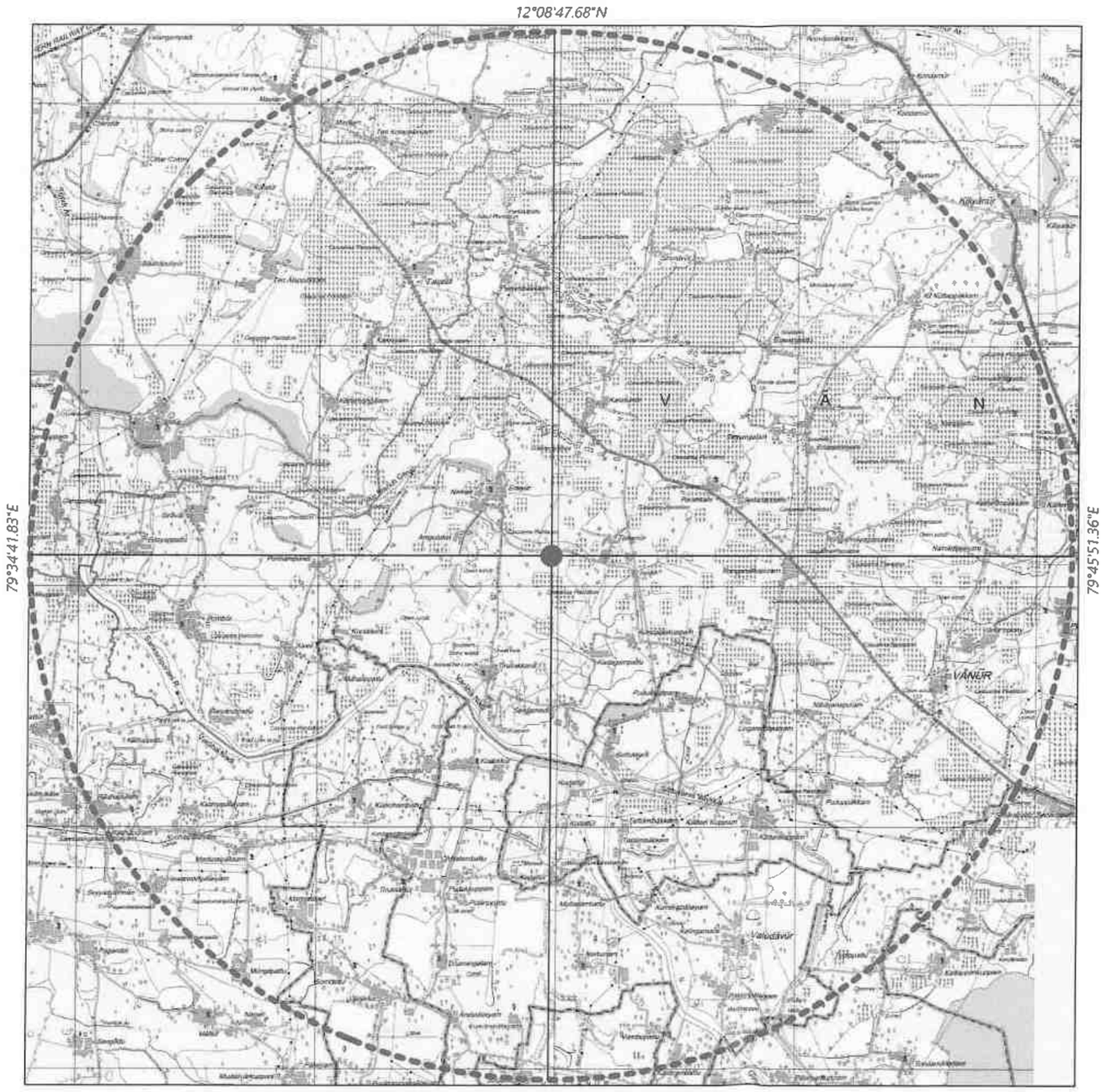
Q.LEASE APPLIED BOUNDARY	
7.5m ,&50m SAFETY	
300M RADIUS	
500M RADIUS	
1KM RADIUS	
APPROACH ROAD	
CART TRACK	
VILLAGE ROAD	

SATELLITE IMAGERY MAP
SCALE 1: 10,000

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

C.NATARAJAN,M.Sc,M.Phil.,
QUALIFIED PERSON



N

PLATE NO-I C

DATE OF SURVEY : 03.10.2025

APPLICANT:

THIRU.M.MOORTHI
S/O,MUNIYAN,
NO:413,MANNARSAMY KOVIL STREET,
TIRUVAKKARAI VILLAGE,
VANUR TALUK,
VILUPPURAM DISTRICT.

- 6 NOV 2025

QUARRY LEASE APPLIED AREA:

S.F.NO'S :106/2A,106/2B,106/3,106/4A&106/4B
EXTENT : 4.34.0 Ha,
VILLAGE : THOLLAMUR,
TALUK : VANUR,
DISTRICT : VILUPPURAM.

INDEX

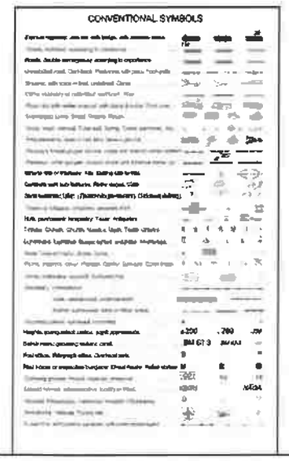
TOPO SHEET No. : 57 P/ 12

LATITUDE : 12°02'42.92"N to 12°02'53.77"N

LONGITUDE : 79°39'50.82"E to 79°39'58.81"E

Q. LEASE APPLIED AREA

10KM RADIUS



TOPO SKETCH OF QUARRY LEASE APPLIED AREA FOR 10Km RADIUS

SCALE– 1:100000

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

C.NATARAJAN,M.Sc.,M.Phil.,
QUALIFIED PERSON

KEY PLAN



PLATE NO-ID

DATE OF SURVEY : 03.10.2025

APPLICANT:

THIRU.M.MOORTHI
S/O.MUNIYAN,
NO:413,MANNARSAMY KOVIL STREET,
TIRUVAKKARAI VILLAGE,
VANUR TALUK,
VILUPPURAM DISTRICT.

QUARRY LEASE APPLIED AREA:

S.F.NO'S :106/2A,106/2B,106/3,106/4A&106/4B
EXTENT : 4.34.0 Ha,
VILLAGE : THOLLAMUR,
TALUK : VANUR,
DISTRICT : VILUPPURAM.

INDEX

Q.LEASE APPLIED BOUNDARY
APPROACH ROAD
CART TRACK
VILLAGE ROAD
STATE HIGHWAY
HABITATIONS

- 6 NOV 2025

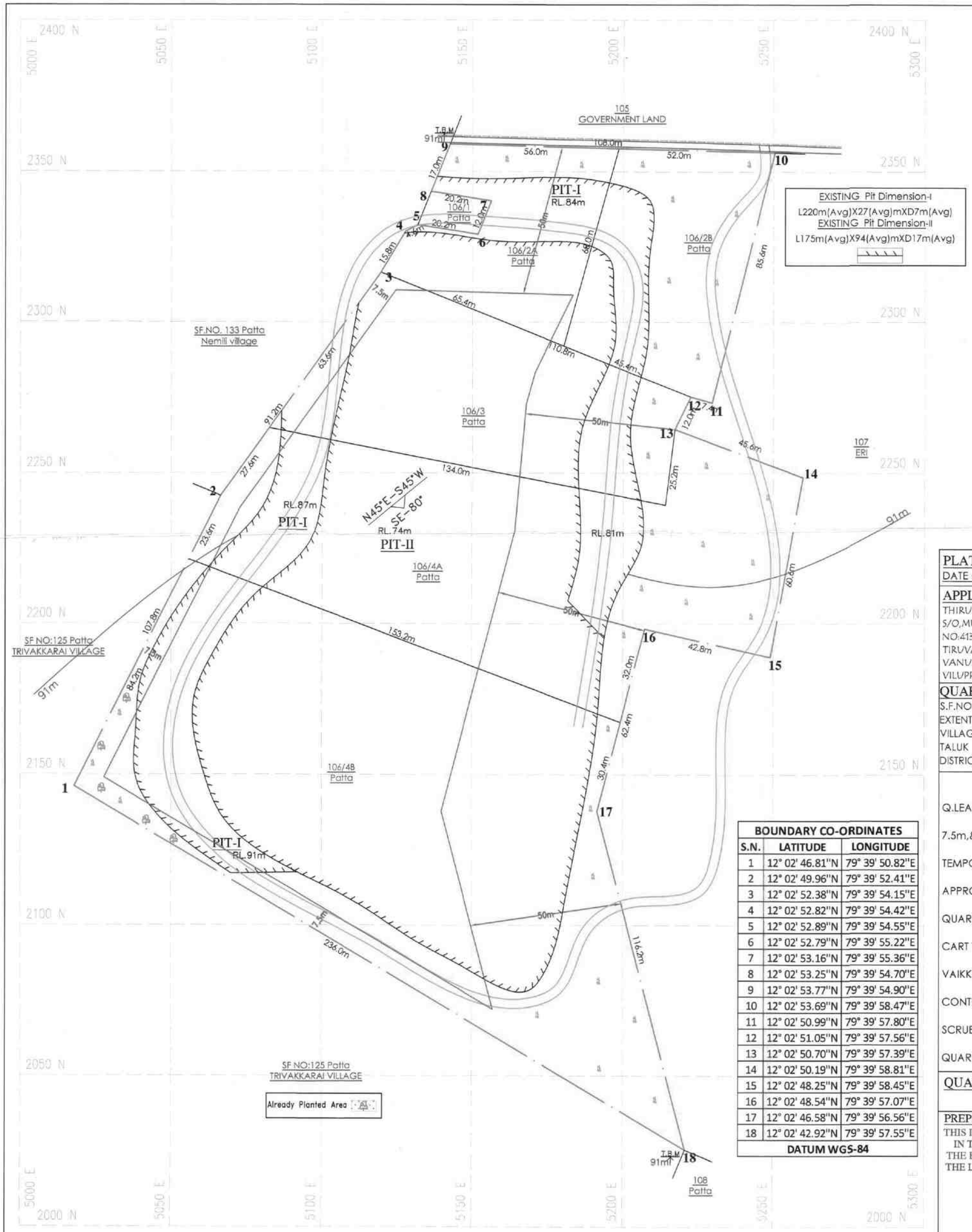
KEY PLAN

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

C.NATARAJAN.M.Sc.M.Phil.,
QUALIFIED PERSON



EXISTING Pit Dimension-I
L220m(Avg)X27(Avg)mXD7m(Avg)
EXISTING Pit Dimension-II
L175m(Avg)X94(Avg)mXD17m(Avg)

BOUNDARY CO-ORDINATES		
S.N.	LATITUDE	LONGITUDE
1	12° 02' 46.81"N	79° 39' 50.82"E
2	12° 02' 49.96"N	79° 39' 52.41"E
3	12° 02' 52.38"N	79° 39' 54.15"E
4	12° 02' 52.82"N	79° 39' 54.42"E
5	12° 02' 52.89"N	79° 39' 54.55"E
6	12° 02' 52.79"N	79° 39' 55.22"E
7	12° 02' 53.16"N	79° 39' 55.36"E
8	12° 02' 53.25"N	79° 39' 54.70"E
9	12° 02' 53.77"N	79° 39' 54.90"E
10	12° 02' 53.69"N	79° 39' 58.47"E
11	12° 02' 50.99"N	79° 39' 57.80"E
12	12° 02' 51.05"N	79° 39' 57.56"E
13	12° 02' 50.70"N	79° 39' 57.39"E
14	12° 02' 50.19"N	79° 39' 58.81"E
15	12° 02' 48.25"N	79° 39' 58.45"E
16	12° 02' 48.54"N	79° 39' 57.07"E
17	12° 02' 46.58"N	79° 39' 56.56"E
18	12° 02' 42.92"N	79° 39' 57.55"E
DATUM WGS-84		

PLATE NO-II
DATE OF SURVEY : 03.10.2025

APPLICANT:
THIRU.M.MOORTHI
S/O,MUNIYAN,
NO:413,MANNARSAMY KOVIL STREET,
TIRUVAKKARAI VILLAGE,
VANUR TALUK,
VILUPPURAM DISTRICT.

- 6 NOV 2025

QUARRY LEASE APPLIED AREA:
S.F.NO'S :106/2A,106/2B,106/3,106/4A&106/4B
EXTENT : 4.34.0 Ha,
VILLAGE : THOLLAMUR,
TALUK : VANUR,
DISTRICT : VILUPPURAM.

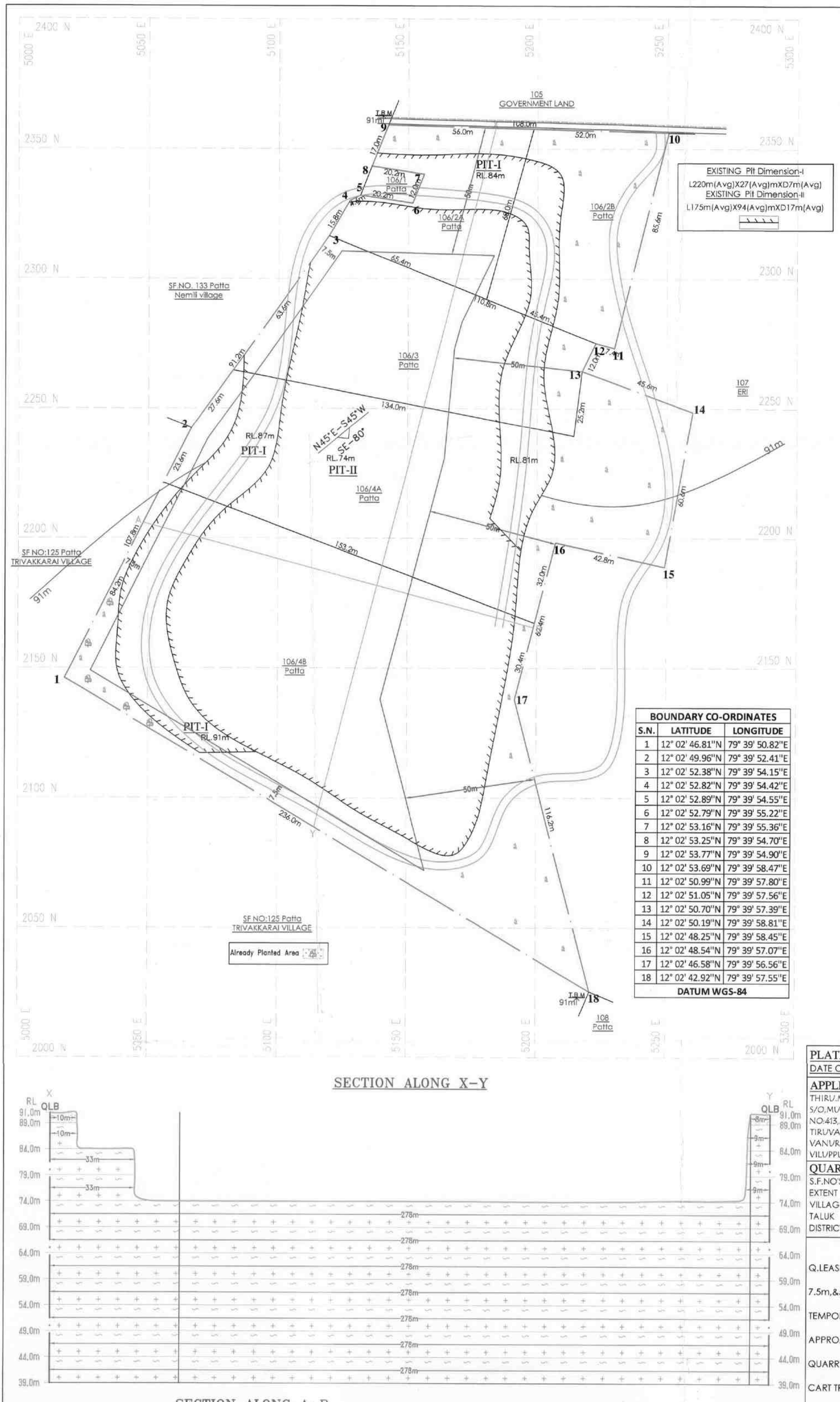
INDEX

- Q.LEASE APPLIED BOUNDARY
- 7.5m,&50m SAFETY DISTANCE
- TEMPORARY BENCH MARK (T.B.M)
- APPROACH ROAD
- QUARRY ROAD
- CART TRACK
- VAIKKAL
- CONTOUR
- SCRUB
- QUARRY PIT

QUARRY LEASE & SURFACE PLAN
SCALE 1 : 1000

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

C.NATARAJAN,M.Sc,M.Phil.,
QUALIFIED PERSON



BOUNDARY CO-ORDINATES		
S.N.	LATITUDE	LONGITUDE
1	12° 02' 46.81"N	79° 39' 50.82"E
2	12° 02' 49.96"N	79° 39' 52.41"E
3	12° 02' 52.38"N	79° 39' 54.15"E
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10	12° 02' 53.69"N	79° 39' 58.47"E
11	12° 02' 50.99"N	79° 39' 57.80"E
12	12° 02' 51.05"N	79° 39' 57.56"E
13	12° 02' 50.70"N	79° 39' 57.39"E
14	12° 02' 50.19"N	79° 39' 58.81"E
15	12° 02' 48.25"N	79° 39' 58.45"E
16	12° 02' 48.54"N	79° 39' 57.07"E
17	12° 02' 46.58"N	79° 39' 56.56"E
18	12° 02' 42.92"N	79° 39' 57.55"E
DATUM WGS-84		

SECTION ALONG X-Y

SECTION ALONG A-B

PLATE NO-III

DATE OF SURVEY :03.10.2025

APPLICANT:

THIRU.M.MOORTHI
S/O,MUNIYAN,
NO:413,MANNARSAMY KOVIL STREET,
TIRUVAKKARAI VILLAGE,
VANUR TALUK,
VILUPPURAM DISTRICT.

- 6 NOV 2025

QUARRY LEASE APPLIED AREA:

S.F.NO'S :106/2A,106/2B,106/3,106/4A&106/4B
EXTENT : 4.34.0 Ha,
VILLAGE : THOLLAMUR,
TALUK : VANUR,
DISTRICT : VILUPPURAM.

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- APPROACH ROAD
- QUARRY ROAD
- CART TRACK
- VAIKKAL
- CONTOUR
- SCRUB
- QUARRY PIT
- GRAVEL
- ROUGH STONE
- STRIKE & DIP

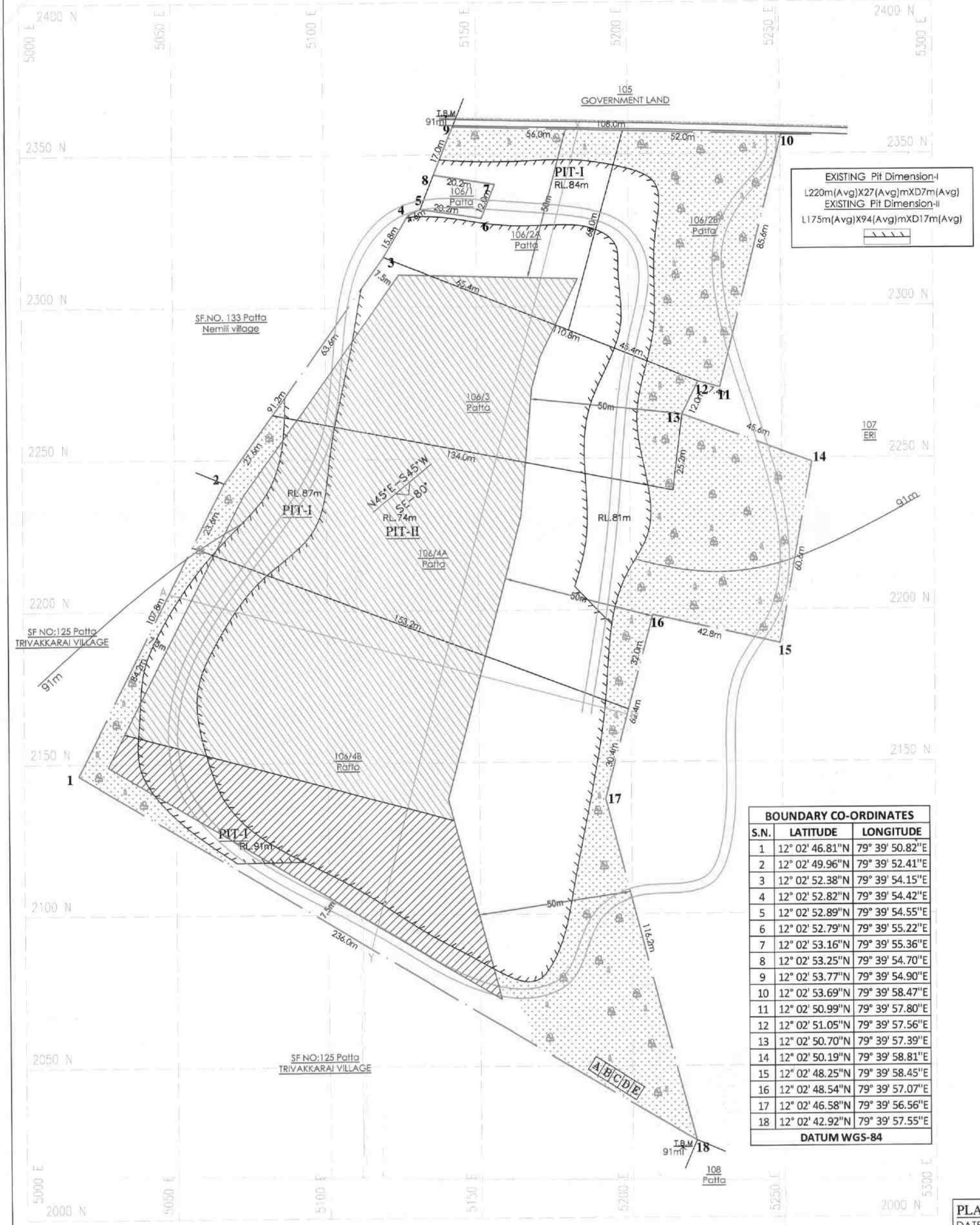
TOPOGRAPHY, GEOLOGICAL PLAN & SECTIONS

SCALE 1 : 1000
SECTIONS HOR 1:1000, VER 1:500

PREPARED BY:

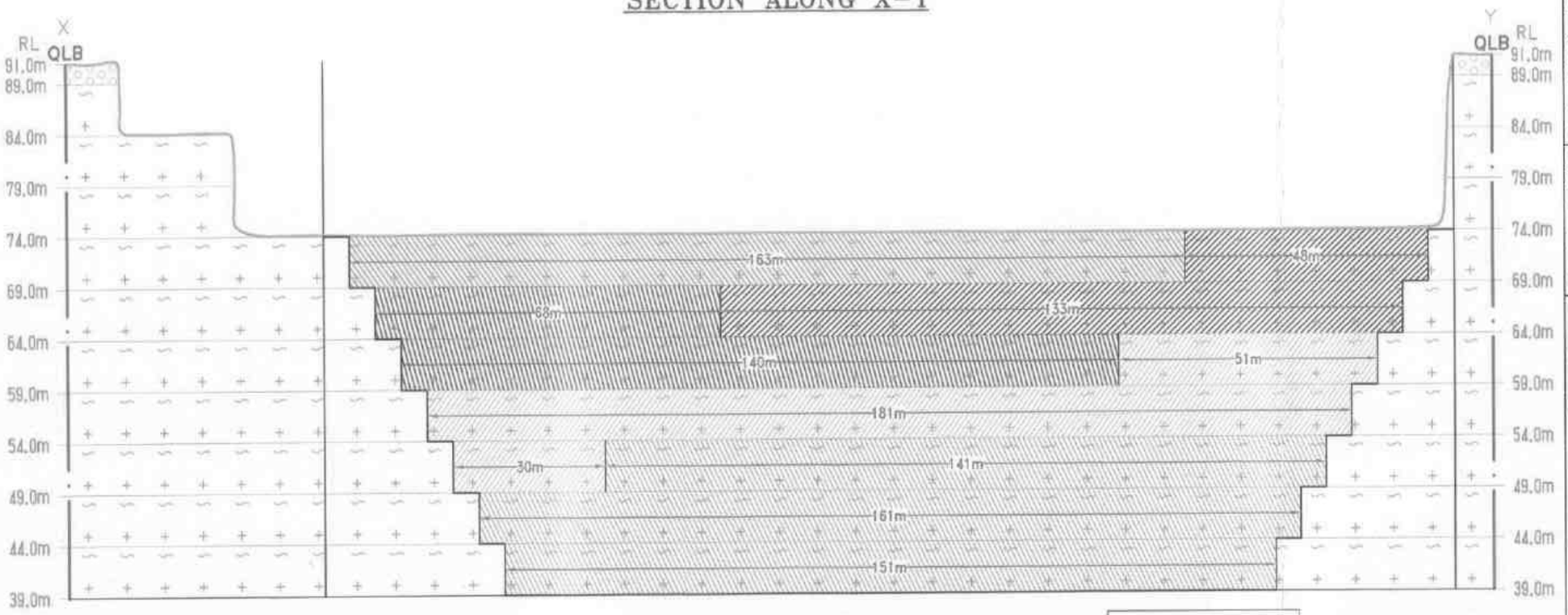
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C.NATARAJAN,M.Sc,M.Phil.,
QUALIFIED PERSON

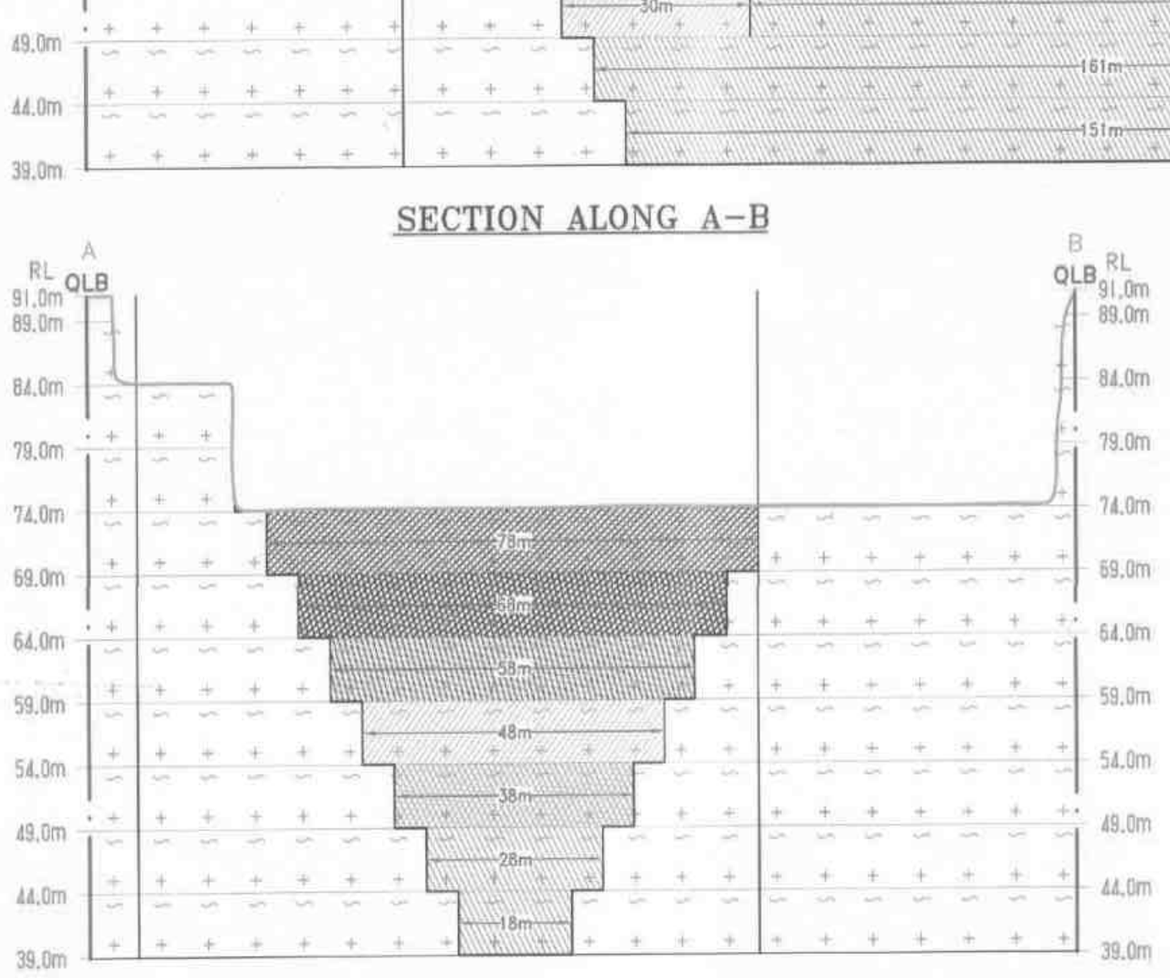


BOUNDARY CO-ORDINATES		
S.N.	LATITUDE	LONGITUDE
1	12° 02' 46.81"N	79° 39' 50.82"E
2	12° 02' 49.96"N	79° 39' 52.41"E
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17	12° 02' 46.58"N	79° 39' 56.56"E
18	12° 02' 42.92"N	79° 39' 57.55"E
DATUM WGS-84		

SECTION ALONG X-Y



SECTION ALONG A-B



PROPOSED SITE SERVICES

A – OFFICE
B – STORE ROOM
C – FIRST AID ROOM
D – REST SHELTER
E – TOILET

Proposed area to be Planted

PRESENT & POST LAND USE PATTERN

DESCRIPTION	PRESENT AREA (Ha)	AREA AT THE END OF THIS QUARRYING PERIOD (Ha)
AREA UNDER QUARRYING	2.24.0	3.22.0
INFRASTRUCTURE	Nil	0.01.0
ROADS	0.01.0	0.02.0
GREEN BELT	0.02.0	1.09.0
UN-UTILIZED AREA	2.07.0	Nil
GRAND TOTAL	4.34.0	4.34.0

1st yr Proposed area to be Quarried
2nd yr Proposed area to be Quarried
3rd yr Proposed area to be Quarried
4th yr Proposed area to be Quarried
5th yr Proposed area to be Quarried

PLATE NO-V
DATE OF SURVEY : 03.10.2025

APPLICANT:
THIRU.M.MOORTHI
S/O,MUNIYAN,
NO:413,MANNARSAMY KOVIL STREET,
TIRUVAKKARAI VILLAGE,
VANUR TALUK,
VILUPPURAM DISTRICT.

6 NOV 2025

QUARRY LEASE APPLIED AREA:
S.F.NO'S :106/2A,106/2B,106/3,106/4A & 106/4B
EXTENT : 4.34.0 Ha,
VILLAGE : THOLLAMUR,
TALUK : VANUR,
DISTRICT : VILUPPURAM.

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- VAIKKAL
- CONTOUR
- SCRUB
- QUARRY PIT
- GRAVEL
- ROUGH STONE
- STRIKE & DIP

YEAR WISE DEVELOPMENT & PRODUCTION PLAN & SECTIONS

SCALE 1 : 1000
SECTIONS HOR 1:1000, VER 1:500

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

C.NATARAJAN,M.Sc,M.Phil.,
QUALIFIED PERSON

105
GOVERNMENT LAND

T.B.M 91m

PIT-1
RL.84m

106/1 Patta

106/2A Patta

106/2B Patta

106/3 Patta

106/4A Patta

106/4B Patta

107 ERI

108 Patta

SF.NO. 133 Patta
Nemili village

SF NO:125 Patta
TRIVAKKARAI VILLAGE

PIT-I
RL.87m

PIT-II
RL.74m

N45°E-S45°W
SE-80°

RL.81m

PIT-I
RL.91m

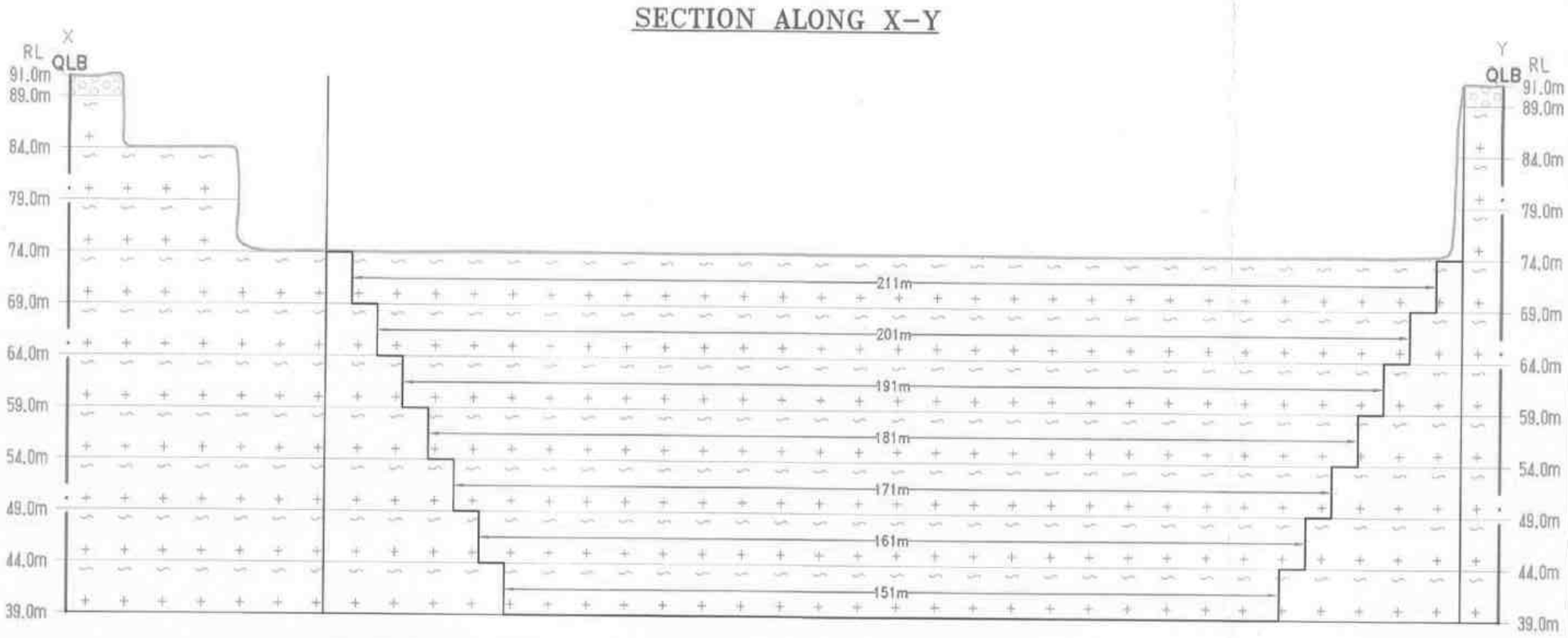
SF NO:125 Patta
TRIVAKKARAI VILLAGE

Already Planted Area

EXISTING Pit Dimension-I
L220m(Avg)X27(Avg)mXD7m(Avg)
EXISTING Pit Dimension-II
L175m(Avg)X94(Avg)mXD17m(Avg)

BOUNDARY CO-ORDINATES		
S.N.	LATITUDE	LONGITUDE
1	12° 02' 46.81"N	79° 39' 50.82"E
2	12° 02' 49.96"N	79° 39' 52.41"E
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18	12° 02' 42.92"N	79° 39' 57.55"E
DATUM WGS-84		

SECTION ALONG X-Y



SECTION ALONG A-B

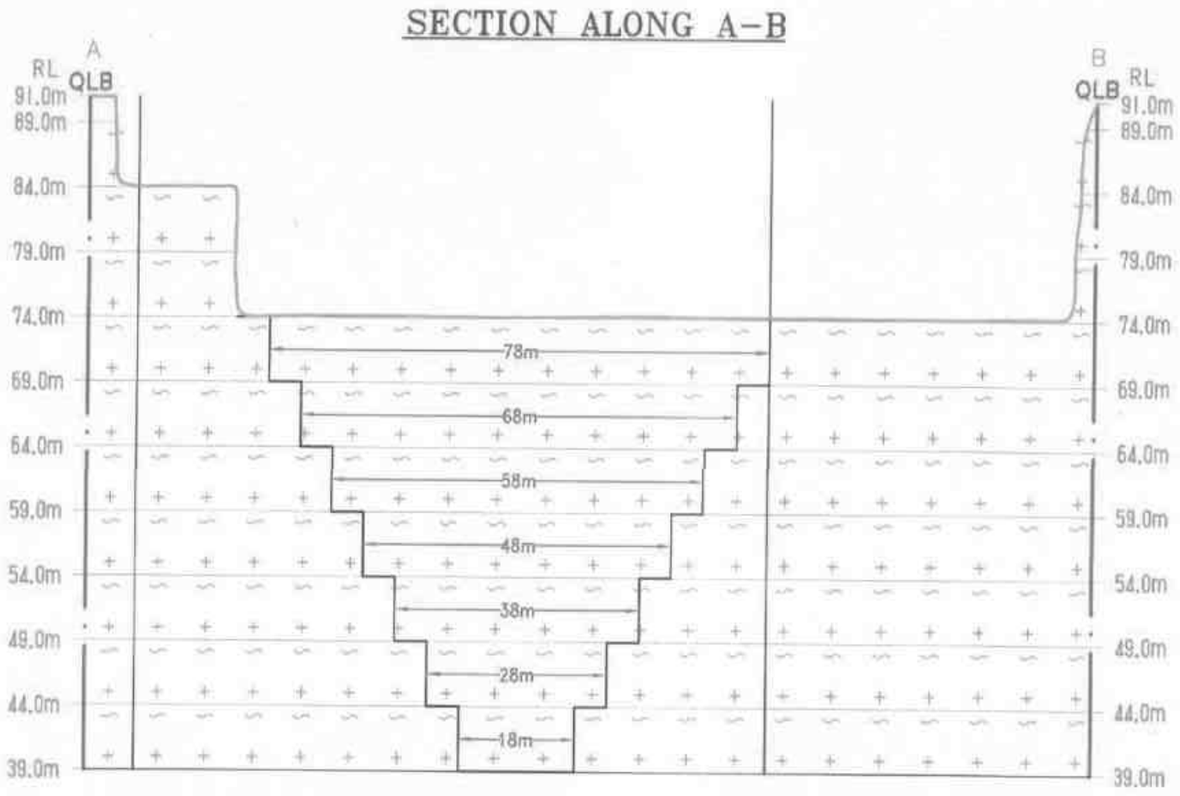


PLATE NO-IV
DATE OF SURVEY : 03.10.2025

APPLICANT:
THIRU.M.MOORTHI
S/O,MUNIYAN,
NO:413,MANNARSAMY KOVIL STREET,
TIRUVAKKARAI VILLAGE,
VANUR TALUK,
VILUPPURAM DISTRICT.

6 NOV 2025

QUARRY LEASE APPLIED AREA:
S.F.NO'S :106/2A,106/2B,106/3,106/4A&106/4B
EXTENT : 4.34.0 Ha,
VILLAGE : THOLLAMUR,
TALUK : VANUR,
DISTRICT : VILUPPURAM.

INDEX

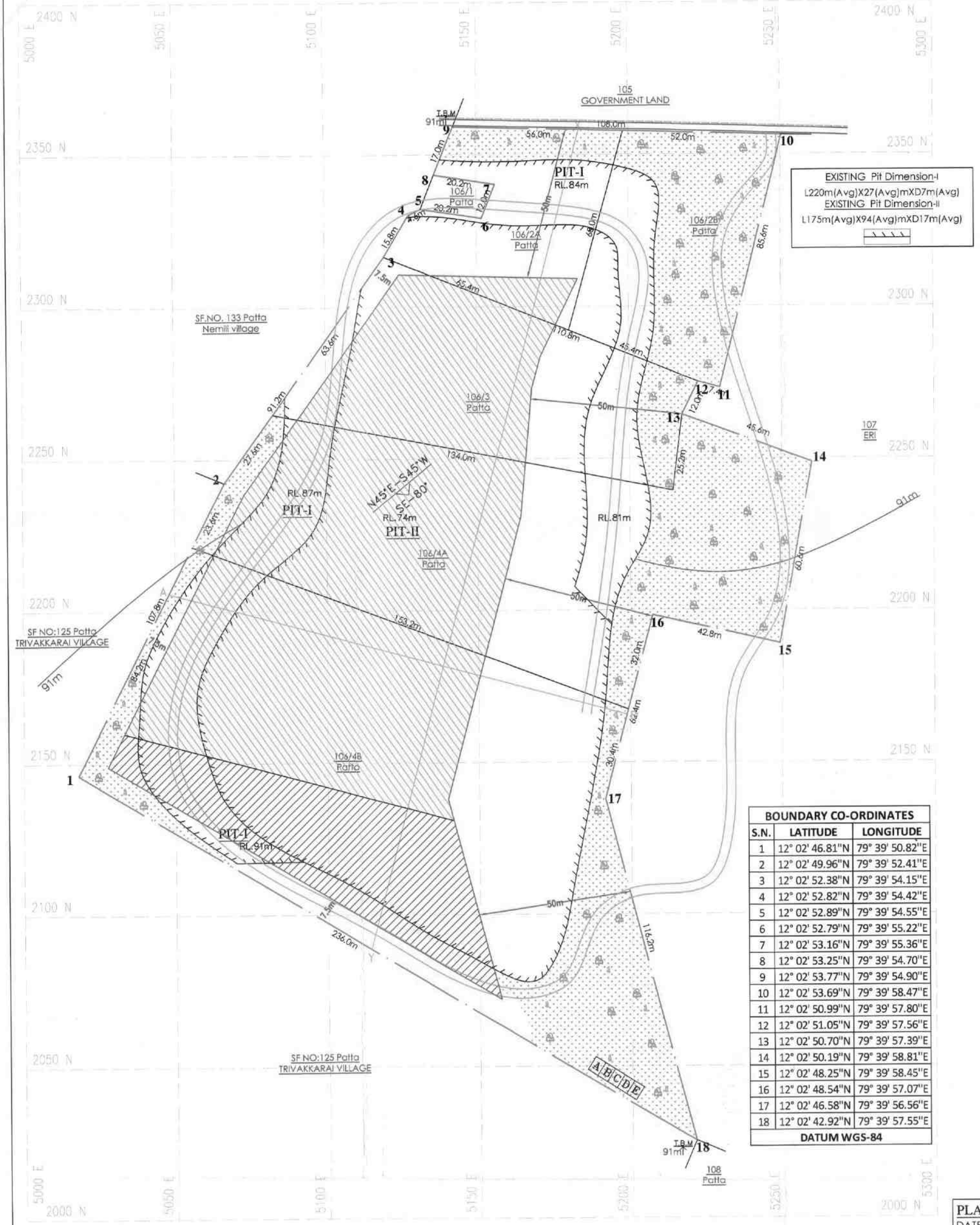
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- QUARRY ROAD
- CART TRACK
- VAIKKAL
- CONTOUR
- SCRUB
- QUARRY PIT
- GRAVEL
- ROUGH STONE
- STRIKE & DIP

MINEABLE
PLAN & SECTIONS

SCALE 1 : 1000
SECTIONS HOR 1:1000, VER 1:500

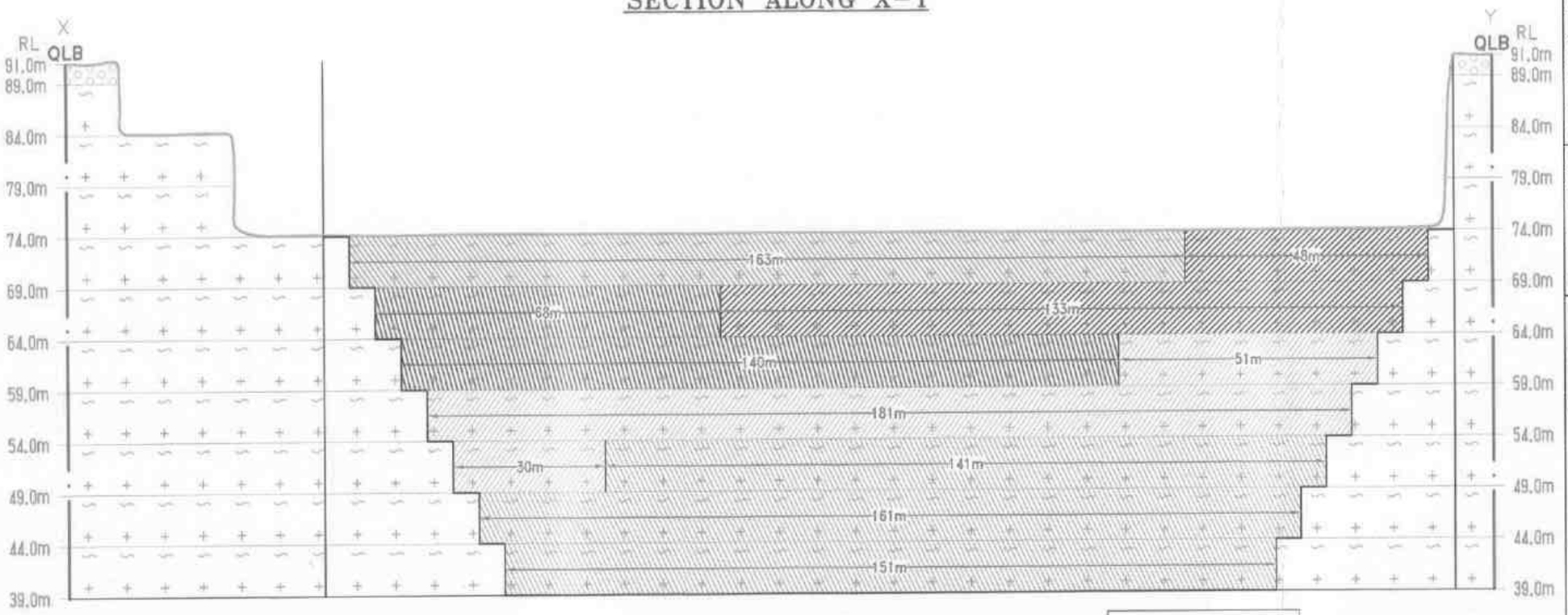
PREPARED BY:
THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT

C.NATARAJAN,M.Sc,M.Phil.,
QUALIFIED PERSON

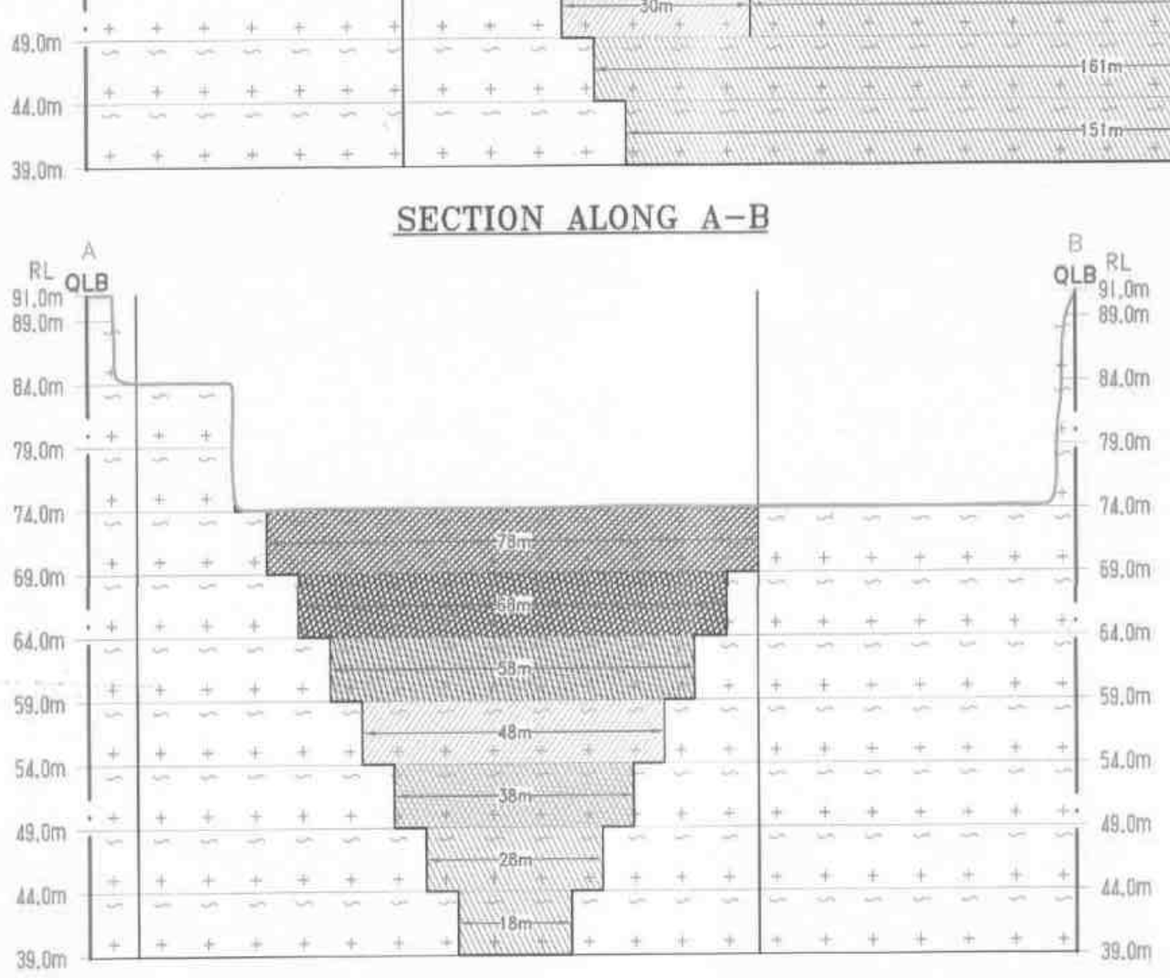


BOUNDARY CO-ORDINATES		
S.N.	LATITUDE	LONGITUDE
1	12° 02' 46.81"N	79° 39' 50.82"E
2	12° 02' 49.96"N	79° 39' 52.41"E
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17	12° 02' 46.58"N	79° 39' 56.56"E
18	12° 02' 42.92"N	79° 39' 57.55"E
DATUM WGS-84		

SECTION ALONG X-Y



SECTION ALONG A-B



PROPOSED SITE SERVICES

A – OFFICE
B – STORE ROOM
C – FIRST AID ROOM
D – REST SHELTER
E – TOILET

Proposed area to be Planted

PRESENT & POST LAND USE PATTERN

DESCRIPTION	PRESENT AREA (Ha)	AREA AT THE END OF THIS QUARRYING PERIOD (Ha)
AREA UNDER QUARRYING	2.24.0	3.22.0
INFRASTRUCTURE	Nil	0.01.0
ROADS	0.01.0	0.02.0
GREEN BELT	0.02.0	1.09.0
UN-UTILIZED AREA	2.07.0	Nil
GRAND TOTAL	4.34.0	4.34.0

1st yr Proposed area to be Quarried
2nd yr Proposed area to be Quarried
3rd yr Proposed area to be Quarried
4th yr Proposed area to be Quarried
5th yr Proposed area to be Quarried

PLATE NO-V
DATE OF SURVEY : 03.10.2025

APPLICANT:
THIRU.M.MOORTHI
S/O,MUNIYAN,
NO:413,MANNARSAMY KOVIL STREET,
TIRUVAKKARAI VILLAGE,
VANUR TALUK,
VILUPPURAM DISTRICT.

6 NOV 2025

QUARRY LEASE APPLIED AREA:
S.F.NO'S :106/2A,106/2B,106/3,106/4A & 106/4B
EXTENT : 4.34.0 Ha,
VILLAGE : THOLLAMUR,
TALUK : VANUR,
DISTRICT : VILUPPURAM.

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- VAIKKAL
- CONTOUR
- SCRUB
- QUARRY PIT
- GRAVEL
- ROUGH STONE
- STRIKE & DIP

YEAR WISE DEVELOPMENT & PRODUCTION PLAN & SECTIONS

SCALE 1 : 1000
SECTIONS HOR 1:1000, VER 1:500

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

C.NATARAJAN,M.Sc,M.Phil.,
QUALIFIED PERSON

105
GOVERNMENT LAND

T.B.M 91m

SF.NO. 133 Patta
Nemili village

SF NO:125 Patta
TRIVAKKARAI VILLAGE

106/1 Patta

106/2B Patta

107
ERI

SF NO:125 Patta
TRIVAKKARAI VILLAGE

108
Patta

RL.87m
RL.74m
RL.81m
RL.74m
RL.39.0m

N45°E–S45°W
SE–60°

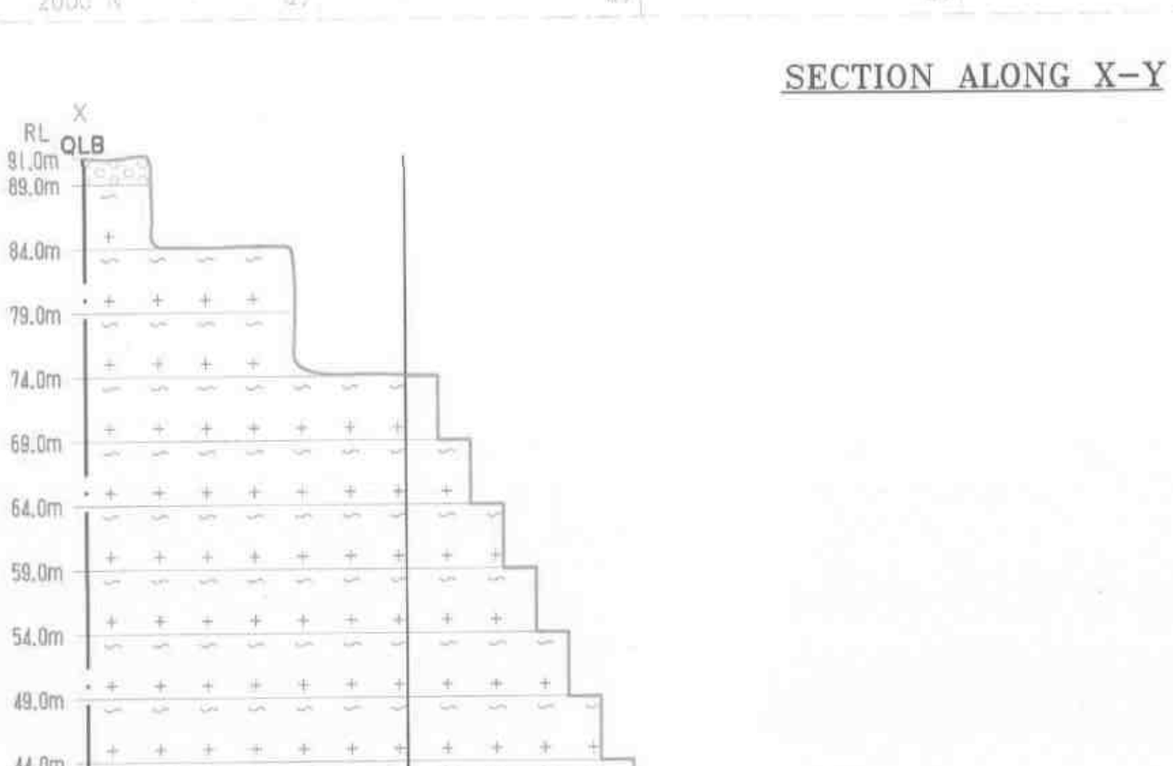
A B C D E

BOUNDARY CO-ORDINATES		
S.N.	LATITUDE	LONGITUDE
1	12° 02' 46.81"N	79° 39' 50.82"E
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18	12° 02' 42.92"N	79° 39' 57.55"E
DATUM WGS-84		

SECTION ALONG X–Y



SECTION ALONG A–B



PROPOSED SITE SERVICES

A – OFFICE
B – STORE ROOM
C – FIRST AID ROOM
D – REST SHELTER
E – TOILET

Proposed area to be Planted

Ultimate Pit Dimension
L261m(Max)X123(Avg)mXD52m(Max)

PLATE NO-VI
DATE OF SURVEY : 03.10.2025

APPLICANT:
THIRU.M.MOORTHI
S/O,MUNIYAN,
NO:413,MANNARSAMY KOVIL STREET,
TIRUVAKKARAI VILLAGE,
VANUR TALUK,
VILUPPURAM DISTRICT.

6 NOV 2025

QUARRY LEASE APPLIED AREA:
S.F.NO'S :106/2A,106/2B,106/3,106/4A&106/4B
EXTENT : 4.34.0 Ha,
VILLAGE : THOLLAMUR,
TALUK : VANUR,
DISTRICT : VILUPPURAM.

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- CART TRACK
- VAIKKAL
- CONTOUR
- SCRUB
- PROPOSED QUARRY PIT
- GRAVEL
- ROUGH STONE
- STRIKE & DIP

CONCEPTUAL PLAN & SECTIONS

SCALE 1 : 1000
SECTIONS HOR 1:1000, VER 1:500

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

C.NATARAJAN,M.Sc.,M.Phil.,
QUALIFIED PERSON

ANNEXURE-4

From
Thiru.S.Rameshkumar, M.Sc.,
Assistant Director,
Dept. of Geology and Mining,
Viluppuram District,
Viluppuram.

To
Thiru.M.Moorthi,
S/o.Muniyan,
Mannarsamy Kovil Street,
Thiruvakkarai Village,
Vanur Taluk,
Viluppuram District.

Rc.No.B/G&M/219/2024, Dated 06.11.2025.

Sir,

Sub: Mines and Minerals – Minor Mineral – Rough stone and Gravel - Viluppuram District – Vanur Taluk – Thollamur Village – Patta lands in S.F.Nos.106/2A (0.31.0), 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5), 106/4B (1.87.5) over an extent of 4.34.0 Hectares - quarry lease application preferred by Thiru.M.Moorthi, S/o.Muniyan – Details of quarries situated within 500 meter radial distance – furnished - Regarding.

Ref: 1. Assistant Director, Geology and Mining, Viluppuram Precise area communication notice Rc.No. B/G&M/219/2024, Dated: 30.09.2025.
2. Representation received from Thiru.M.Moorthi, S/o.Muniyan Dated 30.10.2025.

****

With reference to your letter in the reference 2nd cited, the details of existing, proposed and abandoned quarries located within 500 mts. radial distance from the periphery of the proposed Rough stone and Gravel quarry over an extent of 4.34.0 hectares of patta lands in S.F.Nos.106/2A (0.31.0), 106/2B (0.40.5), 106/3 (0.58.5), 106/4A (1.16.5), 106/4B (1.87.5) of Thollamur Village, Vanur Taluk, Viluppuram District are as follows.

1. **Existing quarries:**

Sl. No.	Name of the lessee / permit holder	Name of the Mineral	Taluk & Village	S.F. Nos.	Extent (in hects)	Lease period	Remarks
1.	Tvl.Sree Thiruchendhur Murugan Blue Metals represented by its partner Thiru. P.Subramani, No.3-3/3-3, Main Road, Thoravi Village, Vikravandi Taluk, Viluppuram District.	Rough stone & Gravel	Vanur & Thollamur	20/1 20/2A 20/2 B 20/3 21/4 21/6 99/2 99/3 B 99/6	0.83.0 0.42.5 0.43.0 1.34.0 0.31.5 0.56.0 0.24.0 0.28.5 0.15.0 **4.57.5**	04.01.2022 to 03.01.2027	-

2.	D.Gnanaguru, S/o.Dhanapal, No.219/1C, Iyyanar Kovil Street, Tennamadevi Village, Vikravandi Taluk, Viluppuram District.	Rough stone & Gravel	Vanur & Thollamur	99/1 99/3A 100/1 100/2 100/5 A	0.27.0 0.54.0 0.75.5 0.27.0 0.39.0 2.22.5	23.04.2025 to 22.04.2035	-

II. Proposed Area :

Sl. No.	Name of the lessee / permit holder	Name of the Mineral	Taluk & Village	S.F. Nos.	Extent (in hects)	Remarks
1.	M. Moorthi, S/o. Munian, Mannarsamy Kovil Street, Thiruvakkarai Village, Vanur Taluk.	Rough stone & Gravel	Vanur & Thollamur	106/2A 106/2B 106/3 106/4A 106/4B	0.31.0 0.40.5 0.58.5 1.16.5 1.87.5 **4.34.0**	-

III. Abandoned quarries :

Sl. No.	Name of the lessee / permit holder	Name of the Mineral	Taluk & Village	S.F. Nos.	Extent (in hects)	Lease period	Remarks
1.	M. Moorthi, S/o. Munian, Mannarsamy Kovil Street, Thiruvakkarai Village, Vanur Taluk.	Rough stone & Gravel	Vanur & Thollamur	106/2A 106/3 106/4A 106/4B	0.31.0 0.58.5 1.16.5 1.87.5 **3.93.5**	15.02.2019 to 14.02.2024	-

Assistant Director,
Dept. of Geology and Mining,
Viluppuram.

06/11/25

ANNEXURE-5

TOPOGRAPHICAL VIEW OF THOLLAMUR VILLAGE M.MOORTHI ROUGH STONE AND GRAVEL QUARRY LEASE APPLIED AREA



LOCATION DETAILS

Name and Address of the Applicant	:	M.Moorthi, S/o.Muniyan, No.413, Mannarsamy Kovil Street, Tiruvakkarai Village, Vanur Taluk, Viluppuram District
S.F.No	:	106/2A, 106/2B, 106/3, 106/4A and 106/4B
Extent	:	4.34.0ha
Village	:	Thollamur
Taluk	:	Vanur
District	:	Viluppuram
State	:	Tamil Nadu

8/11/25

Attestation of the Village Administrative Officer

VILLAGE ADMINISTRATIVE OFFICER
THOLLAMUR VILLAGE
VANUR TALUK

Signature of the Applicant

M.MOORTHI

சான்று

விழுப்புரம் மாவட்டம், வானூர் வட்டம், தொள்ளமூர் கிராமம், புல எண்கள். 106/2A, 106/2B, 106/3, 106/4A மற்றும் 106/4B 4.34.0 ஹெக்டேர் பரப்பில் திரு. மு.மூர்த்தி, த/பெ. முனியன், எண்-413, மன்னார் சாமி கோவில் தெரு, திருவக்கரை கிராமம், வானூர் வட்டம், விழுப்புரம் மாவட்டம், அவர்கள் சாதாரணக் கல் மற்றும் கிராவல் குவாரி பணி மேற்கொள்ள விண்ணப்பித்துள்ளார். மேற்படி விண்ணப்பித்துள்ள நிலத்தை சுற்றி சுமார் 300 மீட்டர் சுற்றளவில், அங்கீகரிக்கப்பட்ட வீட்டு மனைகள், விலையுயர்ந்த மரங்கள், உயர்வலுத்த மின் கம்பிகள், வரலாற்று சிறப்புமிக்க புராதன சின்னங்கள், கோவில்கள், மயான பூமி, பள்ளி, கல்லூரிகள், காப்புக் காடுகள், பறவைகள் மற்றும் விலங்குகள் சரணாலயங்கள் ஏதுவுமில்லை. மேற்படி புலத்தில் சாதாரணக் கல் மற்றும் கிராவல் குவாரிப் பணி மேற்கொள்ள ஆட்சேபனை ஏதுவுமில்லை என்று சான்றளிக்கப்படுகிறது.

8/11/25

VILLAGE ADMINISTRATIVE OFFICER
THOLLAMUR VILLAGE
VANUR TALUK

ANNEXURE-6

ANNEXURE 11

அளவைப்படிவு. எண் 23.

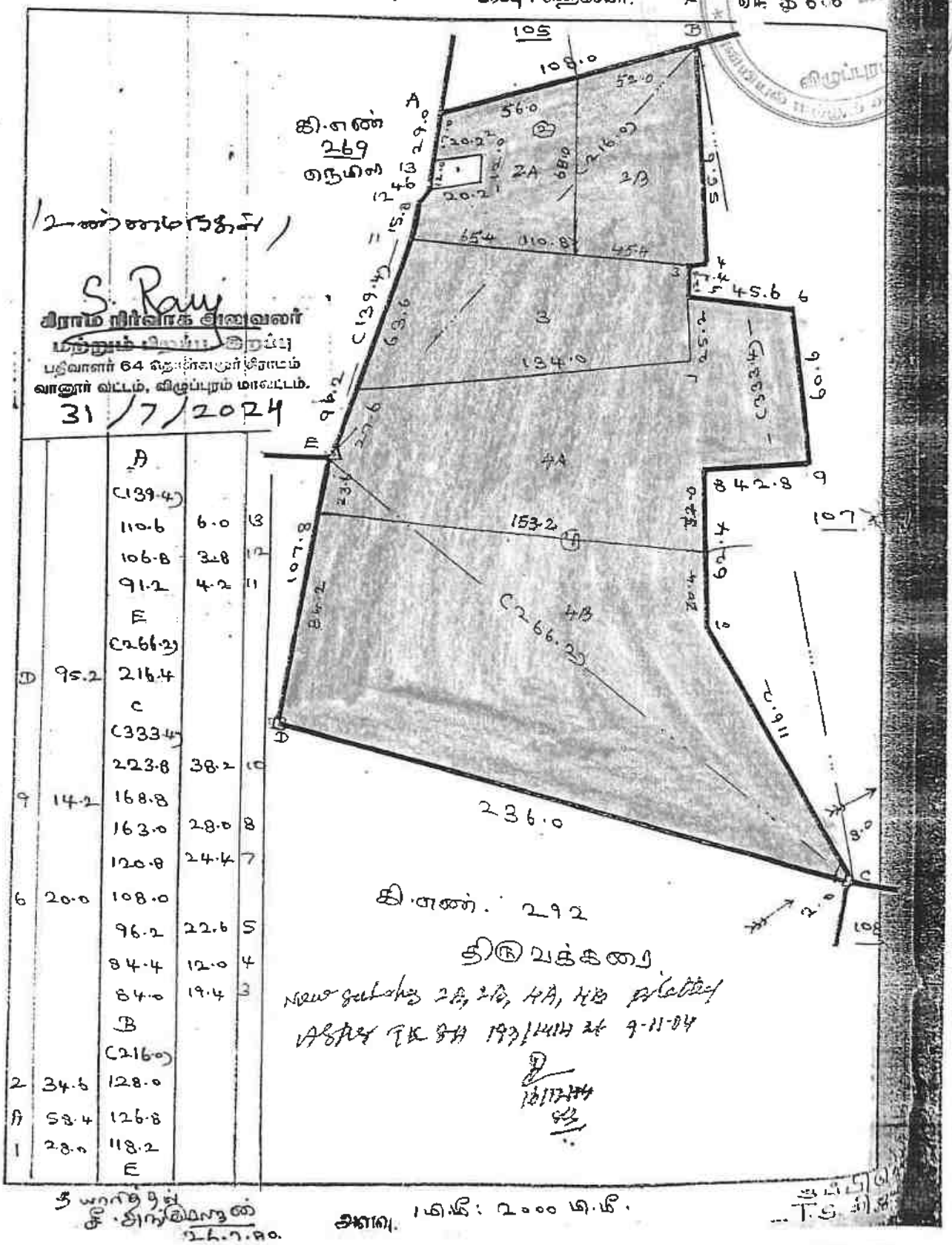
ட்டம். தென் ஆற்காடு

வட்டம். திண்டிவனம்

புல எண். 106

கிராமம் { எண். 266
பெயர். தொண்டூர்

பரப்பு : ஹெக்டேர். ஏக்கர் 3.60



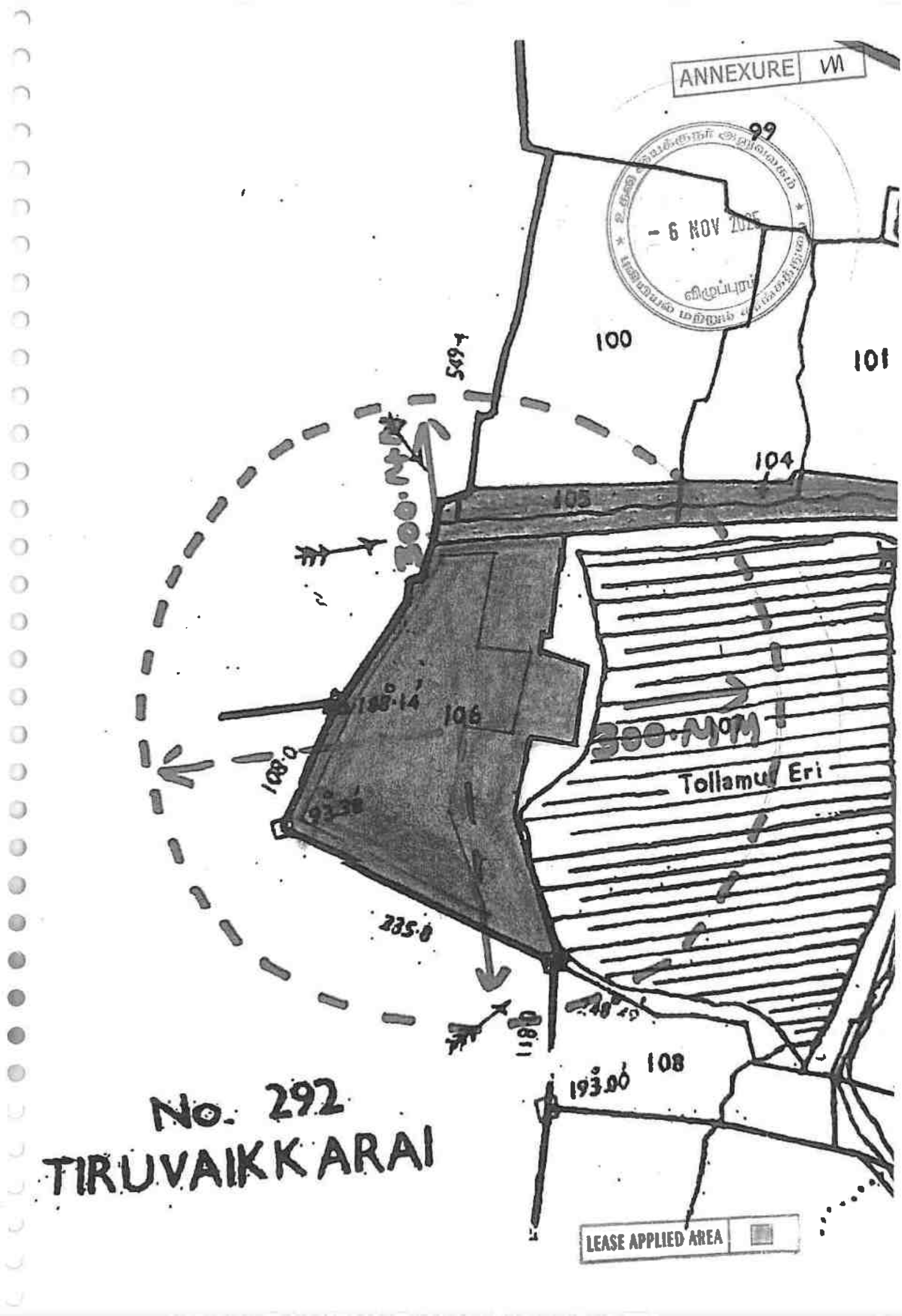
S. Ravi
கிராம நிர்வாக அலுவலர்
மற்றும் பிறப்பு இறப்பு
பதிவாளர் 64 தொண்டூர் கிராமம்
வானூர் வட்டம், விழுப்புரம் மாவட்டம்.
31/7/2024

		A		
		(139.4)		
		110.6	6.0	13
		106.8	3.8	12
		91.2	4.2	11
		E		
		(266.2)		
D	95.2	216.4		
		C		
		(333.4)		
		223.8	38.2	10
9	14.2	168.8		
		163.0	28.0	8
		120.8	24.4	7
6	20.0	108.0		
		96.2	22.6	5
		84.4	12.0	4
		64.0	19.4	3
		B		
		(216.0)		
2	34.6	128.0		
A	58.4	126.8		
1	28.0	118.2		
		E		

நிலஅளவையின் 2A, 2B, 4A, 4B உள்ளிட்ட
புலங்களுக்கு 19/11/04 ல் 9-11-04

அளவு. 1 மி.மீ : 2000 மி.மீ.

LEASE APPLIED AREA



- 6 NOV 20

No. 292
TIRUVAIKKARAI

ANNEXURE IV

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

6 NOV 2025

மாவட்டம் : விழுப்புரம் வட்டம் : வானூர்

வருவாய் இராமம் : தொள்ளாமூர் பட்டா எண் : 1315

உரிமையாளர்கள் பெயர்

1. முனியன் தந்தை மூர்த்தி

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	
106	2B	0 - 40.50	2.80	--	--	--	--	2018/0103/07/096406--193/1414 -------- 07-05-2018
106	3	0 - 58.50	3.25	--	--	--	--	2018/0103/07/104537--- ------- 30-05-2018
106	4A	1 - 16.50	6.50	--	--	--	--	2018/0103/07/096406--193/14141 -------- 07-05-2018
		2 - 15.50	12.55					

குறிப்பு :

1.	மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **07/02/266/01315/20670** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2.	இத் தகவல்கள் 29-07-2024 அன்று 04:17:45 PM நேரத்தில் அச்சடிக்கப்பட்டது
3.	கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : விழுப்புரம்

வட்டம் : வானூர்

வருவாய் கிராமம் : தொள்ளாமூர்

பட்டா எண் : 1316

உரிமையாளர்கள் பெயர்

1. பெருமாள் தந்தை வேணுகோபால்

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	
106	2A	0 - 31.00	2.20	--	--	--	--	2018/0103/07/096410--193/1414 -------- 07-05-2018
106	4B	1 - 87.50	10.40	--	--	--	--	2018/0103/07/096410--193/14141 -------- 07-05-2018
		2 - 18.50	12.60					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **07/02/266/01316/20681** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 29-07-2024 அன்று 04:19:38 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

ANNEXURE V



ம் பகலியில் விருப்புரிமைவாட்டம் வாணாளி 6 திராமக் கணக்கு வட்டம் தொகுதி

நில அளவை எண்.	உட்பிரிவு எண்.	வரித் திட்டத்தின்படி புலன்களின் விபரம். பரப்பு.	தீர்வை.	ஒரு போகம் அல்லது இரு போகம்.	கைப்பற்று தாரருடைய பெயரும் எண்ணும் அல்லது அனுபோக தாரருடைய பெயர்.	ராருபடியாளரின் பெயர். நிலத்தின் எந்த பகுதி பாவது ராருபடியாளரால் பயிரிடப்பட்டுள்ளதா.	முதல் போகம். எந்த மாதத்தில் பயிர் செய்யப்பட்டது அறுவடை மாதத்தில் அறுவடை செய்யப்பட்டது.	பயிரின் பெயர்.	பயிரான / அறுவடை யான பரப்பு.	உண்மையான பாய்ச்சல் ஆதாரம்.	விளைச்சல் அளவு விழுக்காடு.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
106	2B	0.40.5	2.80	1315	தி. நீர்த்தி				~~0.40.0~~ 0.40.5		
106	3	0.58.5	3.25	1315	do				0.58.5		
106	4A	1.16.5	6.50	1315	do				1.16.5		
106	2A	0.31.0	2.20	1316	வைரு கோபால்				0.31.0		
106	4B	1.87.5	10.40	1316	do				1.87.5		
								மொத்தம்	~~4.33.5~~		4.34.0

கண்மாய்

வானாற்று வட்டம்

திருவாரூர் மாவட்டம் திருத்துறைப்பூண்டி தாலுகாவில் அமைந்துள்ள நீர்த்தி கிராமத்தில் என்பவர் மேற்கண்ட புல எண்களில் மொத்தம் மொத்தம் 4.34.0 ஏக்கர் நன்செய் நிலத்தை பல ஆண்டுகளாக பயன்படுத்தி வருகிறார்.

S. Raju

கிராம நிர்வாக அலுவலர்

பதவி முத்திரை

பதிவாளர் 64 தொகுதி மூர் கிராமம்

வாணூர் வட்டம், விழுப்புரம் மாவட்டம்.

31/7/2024

அ-பதிவேடு விவரங்கள் - ஊரகம்

ANNEXURE VI

மாவட்டம் : விழுப்புரம்

வட்டம் : வானூர்

கிராமம் : தொள்ளாமூர்

1. புல எண்	106	9. மண் வகைமை மற்றும்	0 - 0
2. உட்பிரிவு எண்	2A	10. மண் தரம்	0
3. பழைய புல உட்பிரிவு எண்	-2B	11. நீர்வை (ஹ - ஹெ)	0.95
4. பகுதி	P	12. பரப்பு (ஹெக்டேர் - ஏர்)	0 - 31.00
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த நீர்வை (ஹ - பை)	2.29
6. நிலத்தின் வகை	புஞ்சை	14. பட்டா எண்	1316
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இரு போகமா	-	16. பெயர்	1.வேணுகோபால்

குறிப்பு:

மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 07/02/266/106/2A/20681 என்ற குறியீடு எண்ணை உள்ளிடு செய்து உறுதி செய்துகொள்ளவும்.

1.

- 6 NOV 2025

டம் : விழுப்புரம்

ட்டம் : வானூர்

கிராமம் : தொள்ளாமூர்



1. புல எண்	106	9. மண் வயனமும் ரகமும்	0 - 0
2. உட்பிரிவு எண்	2B	10. மண் தரம்	0
3. பழைய புல உட்பிரிவு எண்	-2B	11. தீர்வை (ரூ - ஹெ)	6.95
4. பகுதி	P	12. பரப்பு (ஹெக்டேர் - ஏர்)	0 - 40.50
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த தீர்வை (ரூ - பை)	2.80
6. நிலத்தின் வகை	புஞ்சை	14. பட்டா எண்	1315
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இரு போகமா	-	16. பெயர்	1.மூர்த்தி

குறிப்பு:

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டினிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **07/02/266/106/2B/20670** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

அ-பதிவேடு விவரங்கள் - ஊரகம்

ட்டம் : விழுப்புரம்

ட்டம் : வானூர்

கிராமம் : தொள்ளாமூர்



1. புல எண்	106	9. மண் வயனமும் ரகமும்	8 - 1
2. உட்பிரிவு எண்	3	10. மண் தரம்	4
3. பழைய புல உட்பிரிவு எண்	200-1,3	11. தீர்வை (ரூ - ஹெ)	5.55
4. பகுதி	-	12. பரப்பு (ஹெக்டேர் - ஏர்)	0 - 58.50
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த தீர்வை (ரூ - பை)	3.25
6. நிலத்தின் வகை	புஞ்சை	14. பட்டா எண்	1315
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இரு போகமா	-	16. பெயர்	1.மூர்த்தி

குறிப்பு:

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **07/02/266/106/3/20670** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

அ-பதிவேடு விவரங்கள் - ஊரகம்



மாவட்டம் : விழுப்புரம்

வட்டம் : வானூர்

கிராமம் : தொள்ளாமூர்

1. புல எண்	106	9. மண் வயனமும் ரகமும்	8 - 1
2. உட்பிரிவு எண்	4A	10. மண் தரம்	4
3. பழைய புல உட்பிரிவு எண்	200-2,4,5	11. தீர்வை (ரூ - ஹெ)	5.55
4. பகுதி	P	12. பரப்பு (ஹெக்டேர் - ஏர்)	1 - 16.50
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த தீர்வை (ரூ - பை)	6.50
6. நிலத்தின் வகை	புஞ்சை	14. பட்டா எண்	1315
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இரு போகமா	-	16. பெயர்	1.மூர்த்தி

குறிப்பு:

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **07/02/266/106/4A/20670** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

அ-பதிவேடு விவரங்கள் - ஊரகம்

டம் : விழுப்புரம்

டம் : வானூர்

ராமம் : தொள்ளாமூர்

- 6 NOV 2025

விழுப்புரம்

1. புல எண்	106	9. மண் வயனும் ரகமும்	3 - 1
2. உட்பிரிவு எண்	4B	10. மண் தரம்	4
3. பழைய புல உட்பிரிவு எண்	200-2,4,5	11. நிர்வை (ஏ - ஹெ)	5.55
4. பருடி	P	12. பரப்பு (ஹெக்டேர் ஏர்)	1 - 87.50
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த நிர்வை (ஏ - பை)	10.40
6. நிலத்தின் வகை	புஞ்சை	14. பட்டா எண்	1316
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இரு போகமா	-	16. பெயர்	1.வேணுகோபால்

குறிப்பு:

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 07/02/266/106/4B/20681 என்ற குறியீடு எண்ணை உள்ளிடு செய்து உறுதி செய்துகொள்ளவும்.

-6 NOV 2025
விழுப்புரம்

3	4	5	6	7	8			9		10	11	12
	-8	ஈ	பு	...	7-2	4	5 55	0	13·0	0 72	254. தொ. வரதராஜ பிள்ளை (வா. வழி தேவி)	
	-7	ஏ	பு	...	7-2	4	5 55	0	11·5	0 61	30. தொ. கல்யாணசுந்தரம். (வாலாஜாபாத்)	
8	-5 -6	ஏ	பு	...	7-2	4	5 55	0	40·5	2 25	24. தொ. வடிவேல் பிள்ளை	
9	-3	ஏ	பு	...	7-2	4	5 55	0	13·0	0 72	255. தொ. மாதவச் செட்டி.	
10	190-1எ1 -1எ2	ஏ	பு	...	7-2	4	5 55	0	19·0	1 05	296. தொ. வடிவேல் பிள்ளை. (வா. வரந்தாங்கல்)	
11	-4	அ	புற	...	...	...	...	0	04·0	...	...	தொடர்பு
12	-7எ -12	ஏ	பு	...	7-2	4	5 55	0	13·5	0 75	227. தொ. ராம சாமி.	
13	9எ 9பி	ஏ	பு	...	7-2	4	5 55	0	05·5	0 31	94. ந. சச்சிதா நந்தம் உடை யார்.	
14	-11	ஏ	பு	...	7-2	4	5 55	0	05·0	0 28	186. தொ. பஞ்சாட்சி பிள்ளை.	
15	-12எ	ஏ	பு	...	7-2	4	5 55	0	02·5	0 14	41. ந. கணபதி ஆண்டாள்	
								3	38·5	18 58		
103	...	116-2பி 190-1பி -2எ -3	அ	புற	...	...	...	...	0 71·5	...	...	ஊரம்கோ
104	...	196-5பி 198-2	அ	புற	...	...	...	...	0 69·5	...	...	ஊரம்கோ
105	...	195-1பி 198-2 199-2எ	அ	புற	...	...	...	...	0 70·0	...	...	வரம்கோ
106	1	199-1	ஏ	பு	...	8-1	4	5 55	0	02·0	0 11	179 எ. பெரியண்ண பிள்ளை.
	2	-2பி	ஏ	பு	...	...	†	6 95	1	71·5	4 96	15. ரா. ஆளவந்தாக் கவுண்டர்.
	3	200-1 -3	ஏ	பு	...	8-1	4	5 55	0	58·5	3 25	15. ரா. ஆளவந்தாக் கவுண்டர்.

† தனித் தீர்வை

S. Rau
கிராம நிர்வாக அலு
தெள்ளவூர் கிராம
வாலாஜா.

6 NOV 2025

2	3	4	5	6	7	8	9	10	12	
						செ. மை.	ஹெ. ஏர்ஸ்.	செ. மை.		
200-2 -4 -5	ர	பு	...	8-1	4	5 55	3. 04·0	14 87	224. நா. ராமு உடையார்.	
							4 36·0	25 19		
198-3	அ	புற	...	...	...	...	11 14·0	...	...	சித்தேரி.
181-1	ர	பு	...	8-1	4	5 55	0 12·0	0 67	55. க. கிளியம் மாள்.	
-2 -3 -4	ர	பு	...	8-1	4	5 55	1 16·0	6 44	51. ஏ. காசாம்பு.	
-5ஏ	ர	பு		8-1	4	5 55	0 22·0	1 22	128. ர. சுப்பிரமணிய உடையார்.	
-5பி	அ	புற	...	...	...	...	0 02·0	...	...	வாய்க்கால்.
							1 52·0	8 33		
181-6பி -7பி	அ	புற	...	...	...	...	0 13·0	...	...	வாய்க்கால்.
-9 -10 -11ஏ	ர	பு	..	8-1	4	5 55	1 41·5	7 86	119. ரா. சிவிவாச கவுண்டர்.	
-12	ர	நB	...	8-1	5	14 70	0 02.0	0 29	43. கு. பெரியகோபால் பிள்ளை, மு. குணசேகரன் (2). மு. சுப்புராய உடையார் (3),	
-6இ	ர	பு	...	8-1	4	5 55	0 03·0	0 17	119. ரா. சிவிவாச கவுண்டர்.	
-6ஏ -7ஏ	ர	பு	...	8-1	4	5 55	0 51·0	3 16	119. ர. சிவிவாச கவுண்டர்.	
-11பி	அ	புற	..	...	...	...	0 01·5	...	...	வாய்க்கால்.
-11இ	ர	பு	...	8-1	4	5 55	0 01.0	0 06	119. ரா. சிவிவாச கவுண்டர்.	
							2 19·0	11 54		
184-4 -5 -6	ர	நB	...	7-2	5	14 70	0 30.0	4 41	128. ரா. சுப்ரமணிய உடையார்.	
-1	ர	நB	...	7-2	5	14 70	0 03 0	0 44	128. ர. சுப்ரமணிய உடையார்.	
-2	ர	நB	...	7-2	5	14 70	0 06·0	0 88	188. சு. மங்களம் கரபி.	

S. Ravi

ANNEXURE VII

2089/2018

TP/



தமிழ்நாடு தமிழ்நாடு TAMILNADU

AY 424957

3295 ரூ.1000/- நான்கு
10.05.2018

S.சிவக்குமார், எம்.பி.ஏ.,
முத்திரைத்தாள் விற்பனையாளர்
உரிமம் எண். 2818/பி1/2008
செஞ்சி, தமிழ்நாடு.

11/3/18

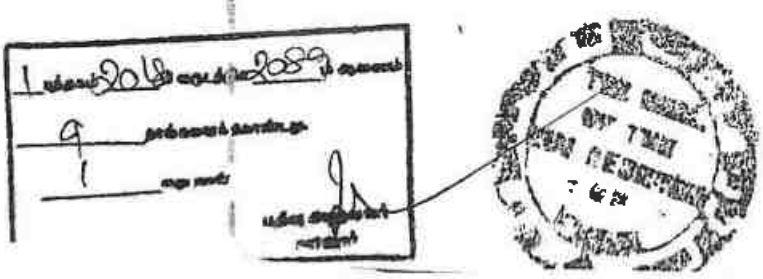
குத்தகைப்பத்திரம்.

2018-ம் ஆண்டு மே மாதம் 15-ம் தேதி (15.05.2018) தமிழ்நாடு மாநிலம், சென்னை, ஆவடி, வசந்தம் நகர், நேரு 2-வது குறுக்கு தெரு, எண்.22-வீட்டில் வசிக்கும் திரு.பெருமாள் அவர்களின் குமாரர் திரு.வேணுகோபால் (இந்திய தனிப்பட்ட அடையாள ஆணையமைப்பின் ஆதார் அட்டை எண்.4716 8793 5332, கைபேசி எண்.9940531578) -(1) (குத்தகை விடுபவர்):

தமிழ்நாடு மாநிலம், விழுப்புரம் மாவட்டம், வானூர் வட்டம், திருவக்கரை கிராமம், மன்னார்சாமி கோயில் தெரு, 413-வீட்டில் வசிக்கும் திரு.முனியன் அவர்களின் குமாரர் திரு.மூர்த்தி (இந்திய தனிப்பட்ட அடையாள ஆணையமைப்பின் ஆதார் அட்டை எண்.4543 1021 7493, கைபேசி எண்.9442968307) -(2) (குத்தகை பெறுபவர்); ஆகிய நாம் இருவரும் சேர்ந்து சம்மதித்து எழுதிக்கொண்ட குத்தகைப்பத்திரம்.

1-வது நபர் — P. வேணுகோபால்

2-வது நபர் — T. M. Moorthy



TP/15/17626/2018



தமிழ்நாடு தமிலநாடு TAMILNADU

AF 957847

3296 ரூ-500/- மூன்றாம்
10.05.2018 திருலைக்கரை

S.சிவக்குமார், எம்.பி.ஏ..,
முத்திரைத்தாள் விற்பனையாளர்
உரிமம் எண். 2818 / பி1 / 2008
செஞ்சி, தமிழ்நாடு.

இதனடியில் விவரிக்கப்பட்டுள்ள சொத்தானது 1-வது நபர் 21.06.2017 தேதியில் தேதியில் திரு.மோகன் என்பவரிடமிருந்து சுயமாய் கிரையம் பெற்று அது வானூர் சார்பதிவகத்தில் I புத்தகம் 2017-ம் வருடத்திய 1627-ம் எண்ணாக பதிவு செய்யப்பட்டது, மேற்படி கிரைய ஆவணத்தின் படி நம்மில் 1-வது நபருக்கு உரிமையாகி பாத்தியமான சொத்தை 1-வது நபர், 2-வது நபருக்கு 10-(பத்து), வருடக்காலத்திற்கு கல் குவாரியில் ஜல்லி உடைக்கும், தொழில் செய்வதற்கும் குத்தகைக்கு விடுவதாகவும், 2-வது நபர் குத்தகை எடுத்துகொள்ளுவதாகவும் நமக்குள் ஒப்புக்கொண்டு இதற்கு வருடக் குத்தகையாக ரூபாய்.15,000/-(ரூபாய் பதினைந்தாயிரம் மட்டில்) என நிர்ணயத்துக்கொண்டு குத்தகைக்கு முன்பணமாக முதல்வருடக்குத்தகை தொகை ரூபாய்.15,000/-(ரூபாய் பதினைந்தாயிரம் மட்டில்) 2-வது நபரிடமிருந்து 1-வது நபர் ரொக்கமாக பெற்றுக்கொண்டார், ஒவ்வொரு வருட குத்தகை தொகையினை அந்தந்த வருட கெடு முடிவிற்குள் 2-வது நபர் 1-வது நபருக்கு ரொக்கமாக கொடுக்கவேண்டியது, குத்தகை கெடுவில் கீழ்கண்ட சொத்தில் கல் குவாரியில் நடத்த அரசு விதிப்படி ஜல்லி உடைக்கும், தொழில் செய்வதற்கும் எடுத்துகொள்ள

1-வது நபர்

2-வது நபர்

P. ஜே. மோகன்

M. MOORTHY

TP/16177626/2018

- 6 NOV 2025

வேண்டியது, மேற்படி கெடு முடிந்தவுடன் நிலத்தை 1-வது நபருக்கு 2-வது நபர் திரும்ப ஒப்படைக்கவேண்டியது, குத்தகை காலக்கெடுவில் ஏற்படும் சர்க்கார் தீர்வை ஆகியவர்களை 2-வது நபர் கட்டிவரவேண்டியது, கீழ்கண்ட சொத்தை 2-வது நபர் வேறு நபருக்கு உள்குத்தைகக்கு விடக்கூடாது, இதன்படி நாம் இருவரும் சேர்ந்து சம்மதித்து எழுதிக்கொண்ட குத்தகை உடன்படிக்கை பத்திரம்.

சொத்துவிபரம்.

தமிழ்நாடு மாநிலம், திண்டிவனம் மாவட்ட பதிவகம், வானூர் சார்பதிவகம், தொள்ளமூர் பஞ்சாயத்திற்குட்பட்ட தொள்ளமூர் கிராமத்தில் அயன் புஞ்சை ரீ சர்வே எண்.106/4, தற்போதைய சப்டிவிஷன் படி ரீ சர்வே எண்.106/4B-(1.87.5)ஏர்ஸ் பூரா, பழைய சர்வே எண்கள்.200/2, 200/4, 200/5-ஏக்கர் 7.51செண்டில், ஏக்கர் 4.63செண்டு.

1-வது நபர் 2-வது நபர்

T. M. MOORTHY

1 ஆம் தேதி 9 ஆம் மாதம் 2025 ஆம் ஆண்டு
9 நாள் கணக்கு கொண்டது
3 வது நாள்
பதிவு எழுத்தர்
வானூர்

TP/1617/621/2025

- 6 NOV 2025

விழுப்புரம்

அயன் புஞ்சை ரீ சர்வே எண்.106/2, (தற்போதைய சப்டிவிஷன் படி ரீ சர்வே எண்.106/2A-(0.31.0)ஏர்ஸ் பூரா, பழைய சர்வே எண்.199/2பி-ஏக்கர் 1.77செண்டில் ஏக்கர் 0.82செண்டும் சேர்த்து ஆக மொத்தம் ஏக்கர் 5.45செண்டு புஞ்சை நிலம் மட்டில்.

1–வது நபர்

2–வது நபர்

சாட்சிகள்;

1.

திரு.முனியன் த/பெ அம்பிகாவதி, நெ.413, மன்னார்சாமி கோவில் தெரு, திருவக்கரை கிராமம், வானூர் வட்டம், விழுப்புரம் மாவட்டம் (இந்திய அரசாங்க ஆணை அமைப்பின் ஆதார் அட்டை எண். 8882 1344 2122)

2.

திரு.முனுசாமி த/பெ முனியன், நெ.413, மன்னார்சாமி கோவில் தெரு, திருவக்கரை கிராமம், வானூர் வட்டம், விழுப்புரம் மாவட்டம், (இந்திய அரசாங்க ஆணை அமைப்பின் ஆதார் அட்டை எண்.5503 5923 4847)

ஆவணம் வரைவு அளித்தவர்;

S.மதியழகன்,M.Com.,
மாநில ஆவண எழுத்தர்.
உரிமம் எண்;A/145,TDM/2000.
வானூர் ஒட்டை

1 வகை 20 பிரிவின் கீழ் முத்திரைத் தீர்வை ரூ.
9 நகல் கட்டணம் வசூலிக்கப்பட்டது.
4 பக்கங்கள்

R/வானூர்/புத்தகம்-1/2089/2018

,8 ஆம் ஆண்டு மே மாதம் 15ம் தேதி பிப 01.45 மணியளவில் வானூர் சார்பதிவாளர் அலுவலகத்தில் தாக்கல் செய்து கட்டணம் ₹ 1,750/- செலுத்தியவர்

இடது பெருவிரல்  	கூடுதல் விவரங்கள் ஆவண வாசகத்தில் உள்ளபடி
எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர் இடது பெருவிரல்  	கூடுதல் விவரங்கள் ஆவண வாசகத்தில் உள்ளபடி
எழுதி வாங்கியதாக ஒப்புக் கொண்டவர் இடது பெருவிரல்  	கூடுதல் விவரங்கள் ஆவண வாசகத்தில் உள்ளபடி
இன்னாரென்று நிருபித்தவர்கள் 1. 2.	திரு முனியன் தபெ அம்பிகாவதி நெ.413, மன்னாசாமி கோவில் தெரு, திருவக்கரை கிராமம், வானூர் வட்டம், விழுப்புரம் மாவட்டம், திருவக்கரை, வானூர், விழுப்புரம், தமிழ்நாடு, இந்தியா, 604304 திரு முனுசாமி தபெ முனியன் நெ.413, மன்னாசாமி கோவில் தெரு, திருவக்கரை கிராமம், வானூர் வட்டம், விழுப்புரம் மாவட்டம், திருவக்கரை, வானூர், விழுப்புரம், தமிழ்நாடு, இந்தியா, 604304

2018 ஆம் ஆண்டு மே மாதம் 15ம் நாள்

சார்பதிவாளர்
வானூர்.
சடகோபன் கோ ச
சார்பதிவாளர்
வானூர்

R/வானூர்/புத்தகம்-1/2089/2018 என்னாகப் பதிவு செய்யப்பட்டது.

நாள்: 15/05/2018
வானூர்

சார்பதிவாளர்
வானூர்
சடகோபன் கோ ச
சார்பதிவாளர்

TP/15177626/2018

இந்திய அரசாங்கம்
Government of India

மூர்த்தி முனியன்
Moorthi Muniyan
தந்தை முனியன்
Father MUNIYAN
பிறந்த நாள் / DOB 04/12/1986
ஆண் / Male



4543 1021 7493

ஆதார் - சாதாரண மனிதனின் அதிகாரம்

Unique Identification Authority of India

முகவரி
S/O முனியன், எண் 413
மன்னாசாமி கோவில்,
திருவக்கரை வானூர்தாலுகா
திருவக்கரை திருவக்கரை
விழுப்புரம் தமிழ்நாடு 604304

Address
S/O Muniyan, 413, MANNASAMY
KOVIL, THIRUVAKKARAI,
VANURTALUKA, Tiruvakkarai,
Thiruvakkarai, Viluppuram, Tamil
Nadu, 604304

- 6 NOV 2025

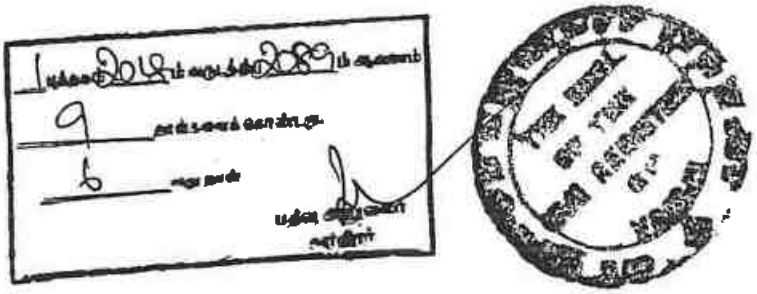
4543 1021 7493

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1800 300 1947

help@uidai.gov.in

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T.M. MOORTHY



TP/15177626/2018

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- வருங்காலத்தில் அரசு மற்றும் அரசு சாரா சேவைகளை பயன்படுத்திக் கொள்ள ஆதார் உதவிகரமாக இருக்கும்
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ஆதார்

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4716 8793 5332

help@uidai.gov.in

www.uidai.gov.in

இந்திய அரசாங்கம்

Government of India

Enrollment No.

To
Venu Gopal P
S/O Perumal
22 nehru 2 cross STREET
vasantham nagar
CHENNAI
Avadi
Avadi camp Tiruvallur
Tamil Nadu - 600054

KL6534883267T

65348832

உங்கள் ஆதார் எண் / Your Aadhaar No.

4716 8793 5332

ஆதார் - சாதாரண மனிதனின் அதிகாரம்

இந்திய அரசாங்கம்

Government of India

Venu Gopal P

பிறந்த நாள்/DOB: 01/03/1956

ஆண்/ Male



4716 8793 5332

ஆதார் - சாதாரண மனிதனின் அதிகாரம்

TP/15177626/2018

இந்திய அரசாங்கம்
Government of India
முனியன் அம்பிகாவதி
Muniyan Ambigavathy
பிறந்த நாள் / DOB 12/07/1959
ஆண்பால் / Male



8882 1344 2122

ஆதார் - சாதாரண மனிதனின் அதிகாரம்

முனியன்

இந்திய தனித்துவ அடையாள ஆணைய அரசு
Unique Identification Authority of India

ஆதார்
முகவரி:
S/O அம்பிகாவதி, எண் 413,
மண்ணாசாமி கோவில்,
திருவக்கரை, வானூர்தாலுக்கா,
திருவக்கரை, திருவக்கரை,
விழுப்புரம், தமிழ்நாடு, 604304

Address:
S/O Ambigavathy, 413,
MANNASAMY KOVIL,
THIRUVAKKARAI,
VANURTALUKA, Tiruvakkarai,
Thiruvakkarai, Viluppuram, Tamil
Nadu, 604304

8882 1344 2122

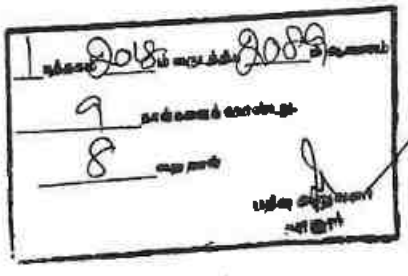
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- 5 MAY 2025

விழுப்புரம்





இந்திய அரசாங்கம்

Government of India

பதிவேட்டு எண்/ Enrolment No.: 2189/73943/00665

To
முனுசாமி
Munusamy
S/O Muniyan
413
MANNASAMY KOVIL
VANURTALUKA
THIRUVAKKARAI
Tiruvaikkarai
Thiurvakkarai
Viluppuram Tamil Nadu - 604304
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5503 5923 4847

எனது ஆதார், எனது அடையாளம்

இந்திய அரசாங்கம்
Government of India

முனுசாமி
Munusamy
பிறந்த நாள்/DOB: 14/06/1987
ஆண்/ MALE

5503 5923 4847

எனது ஆதார், எனது அடையாளம்

அடையாளத்திற்கான எளிது, குடியிருமைக்கு அல்ல.

அடையாள சான்றை ஆனலைன் ஆதார் கேஷன் மூலமாக பெறவும்

இது எலக்ட்ரானிக் செயல்முறை மூலம் தயாரிக்கப்பட்ட கடிதமாகும்

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ஆதார் நாடு முழுவதிலும் செல்லுபடியாகும்

வருங்காலத்தில் அரசு மற்றும் அரசு சாரா சேவைகளை பயன்படுத்திக் கொள்ள ஆதார் உதவிகரமாக இருக்கும்

Aadhaar is valid throughout the country.

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S/O Muniyan, 413, MANNASAMY KOVIL, THIRUVAKKARAI, VANURTALUKA, Tiruvaikkarai, Viluppuram, Tamil Nadu - 604304

5503 5923 4847

HOV 2025

M. Munusamy

Tp/16776 24/2018

ANNEXURE VIII

- 6 NOV 2025



இந்திய அரசாங்கம்
Government of India

மூர்த்தி முனியன்
Moorthi Muniyan
தந்தை முனியன்
Father : MUNIYAN
பிறந்த நாள் / DOB : 04/12/1986
ஆண்பால் / Male

4543 1021 7493

ஆதார் - சாதாரண மனிதனின் அதிகாரம்



Unique Identification Authority of India

முகவரி
S/O முனியன் எண் 413
மன்னசாமி கோவில்
திருவக்கரை வானூர்தாலுக்கா
திருவக்கரை திருவக்கரை
விழுப்புரம் தமிழ்நாடு 604304

Address
S/O Muniyan, 413, MANNASAMY KOVIL, THIRUVAKKARAI, VANURTALUKA, Tiruvakkarai, Thiuvakkarai, Vikuppuram, Tamil Nadu, 604304

4543 1021 7493



आयकर विभाग
INCOME TAX DEPARTMENT

भारत सरकार
GOVT. OF INDIA

स्थायी लेखा संख्या कार्ड
Permanent Account Number Card
EYSPM2236J

नाम / Name
MOORTHI

पिता का नाम / Father's Name
MUNIYAN

जन्म की तारीख / Date of Birth
04/12/1986

हस्ताक्षर / Signature

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/2025/5015	Report Date.	15.12.2025

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-5015	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	02.12.2025	Test Completed on	15.12.2025
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	$\mu g/m^3$	64.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.2	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	$\mu g/m^3$	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

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TEST REPORT

Report No.	SARL/2025/5016	Report Date.	15.12.2025

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5016	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	02.12.2025	Test Completed on	15.12.2025
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	$\mu g/m^3$	55.5	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	$\mu g/m^3$	4.3	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5017	Report Date.	15.12.2025

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-5017	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	03.12.2025	Test Completed on	15.12.2025
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	$\mu g/m^3$	69.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	33.2	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	$\mu g/m^3$	14.3	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5018	Report Date.	15.12.2025

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5018	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	03.12.2025	Test Completed on	15.12.2025
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	$\mu g/m^3$	53.1	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	$\mu g/m^3$	5.2	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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5019	Report Date.	15.12.2025

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3- Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5019	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	04.12.2025	Test Completed on	15.12.2025
Temperature	36°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	$\mu g/m^3$	50.1	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	$\mu g/m^3$	4.9	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 (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5020	Report Date.	15.12.2025

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4 - Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5020	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	04.12.2025	Test Completed on	15.12.2025
Temperature	36°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	$\mu g/m^3$	47.4	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	$\mu g/m^3$	5.3	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5021	Report Date.	15.12.2025

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3- Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5021	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	05.12.2025	Test Completed on	15.12.2025
Temperature	36°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	$\mu g/m^3$	47.5	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	$\mu g/m^3$	4.4	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

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5022	Report Date.	15.12.2025

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5022	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	05.12.2025	Test Completed on	15.12.2025
Temperature	36°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	$\mu g/m^3$	22.1	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	$\mu g/m^3$	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2025/5023	Report Date.	15.12.2025

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5023	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	06.12.2025	Test Completed on	15.12.2025
Temperature	36°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	$\mu g/m^3$	51.5	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	$\mu g/m^3$	5.2	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 (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5024	Report Date.	15.12.2025

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5024	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	06.12.2025	Test Completed on	15.12.2025
Temperature	36°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	$\mu g/m^3$	62.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	33.5	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	$\mu g/m^3$	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5025	Report Date.	15.12.2025

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5025	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	06.12.2025	Test Completed on	15.12.2025
Temperature	36°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	$\mu g/m^3$	57.0	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	$\mu g/m^3$	6.0	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5026	Report Date.	15.12.2025

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5026	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	07.12.2025	Test Completed on	15.12.2025
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	$\mu g/m^3$	52.4	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	$\mu g/m^3$	6.3	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5027	Report Date.	15.12.2025

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5027	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	07.12.2025	Test Completed on	15.12.2025
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	$\mu g/m^3$	59.7	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	$\mu g/m^3$	5.7	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5028	Report Date.	15.12.2025

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5028	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	07.12.2025	Test Completed on	15.12.2025
Temperature	36°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	$\mu g/m^3$	54.5	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	$\mu g/m^3$	5.7	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5043	Report Date.	22.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5043	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	09.12.2025	Test Completed on	22.12.2026
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	$\mu g/m^3$	59.6	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	$\mu g/m^3$	7.3	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2025/5044	Report Date.	22.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5044	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	09.12.2025	Test Completed on	22.12.2026
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	$\mu g/m^3$	67.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.5	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	$\mu g/m^3$	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

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J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2025/5045	Report Date.	22.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5045	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	09.12.2025	Test Completed on	22.12.2026
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	$\mu g/m^3$	61.5	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	$\mu g/m^3$	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

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TEST REPORT

Report No.	SARL/2025/5046	Report Date.	22.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5046	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	10.12.2025	Test Completed on	22.12.2026
Temperature	36°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	$\mu g/m^3$	59.6	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	$\mu g/m^3$	6.3	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5047	Report Date.	22.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5047	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	10.12.2025	Test Completed on	22.12.2026
Temperature	36°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	$\mu g/m^3$	64.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.3	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	$\mu g/m^3$	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

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TEST REPORT

Report No.	SARL/2025/5048	Report Date.	22.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5048	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	10.12.2025	Test Completed on	22.12.2026
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	$\mu g/m^3$	66.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.5	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	$\mu g/m^3$	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

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TEST REPORT

Report No.	SARL/2025/5049	Report Date.	22.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5049	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	11.12.2025	Test Completed on	22.12.2026
Temperature	37°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	$\mu g/m^3$	45.9	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	$\mu g/m^3$	4.7	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 (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5050	Report Date.	22.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5050	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	11.12.2025	Test Completed on	22.12.2026
Temperature	37°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	$\mu g/m^3$	48.5	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	$\mu g/m^3$	10.6	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5051	Report Date.	22.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5051	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	12.12.2025	Test Completed on	22.12.2026
Temperature	37°C	Relative Humidity	19%
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	$\mu g/m^3$	23.8	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	$\mu g/m^3$	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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5052	Report Date.	22.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5052	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	12.12.2025	Test Completed on	22.12.2026
Temperature	37°C	Relative Humidity	19%
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	$\mu g/m^3$	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	$\mu g/m^3$	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

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J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2025/5053	Report Date.	22.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-5053	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	13.12.2025	Test Completed on	22.12.2026
Temperature	36°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	$\mu g/m^3$	63.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.6	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	$\mu g/m^3$	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

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TEST REPORT

Report No.	SARL/2025/5054	Report Date.	22.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5054	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	13.12.2025	Test Completed on	22.12.2026
Temperature	36°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	$\mu g/m^3$	58.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.3	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	$\mu g/m^3$	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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5055	Report Date.	22.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-5055	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	14.12.2025	Test Completed on	22.12.2026
Temperature	36°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	$\mu g/m^3$	73.3	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	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	15.8	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5056	Report Date.	22.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5056	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	14.12.2025	Test Completed on	22.12.2026
Temperature	36°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	$\mu g/m^3$	53.5	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	$\mu g/m^3$	5.3	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5071	Report Date.	29.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-5071	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	16.12.2025	Test Completed on	29.12.2026
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	$\mu g/m^3$	75.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	36.4	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	$\mu g/m^3$	16.3	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5072	Report Date.	29.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5072	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	16.12.2025	Test Completed on	29.12.2026
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	$\mu g/m^3$	50.2	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	$\mu g/m^3$	4.4	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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5073	Report Date.	29.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-5073	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	17.12.2025	Test Completed on	29.12.2026
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	$\mu g/m^3$	77.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	37.0	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	$\mu g/m^3$	16.8	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

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TEST REPORT

Report No.	SARL/2025/5074	Report Date.	29.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5074	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	17.12.2025	Test Completed on	29.12.2026
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	$\mu g/m^3$	52.3	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	$\mu g/m^3$	5.0	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/2025/5075	Report Date.	29.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5075	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	18.12.2025	Test Completed on	29.12.2026
Temperature	36°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	50.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	24.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/2025/5076	Report Date.	29.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4 -Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5076	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	18.12.2025	Test Completed on	29.12.2026
Temperature	36°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	$\mu g/m^3$	50.9	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	$\mu g/m^3$	5.6	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

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Authorized Signatory
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TEST REPORT

Report No.	SARL/2025/5077	Report Date.	29.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5077	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	19.12.2025	Test Completed on	29.12.2026
Temperature	36°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	$\mu g/m^3$	43.0	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	$\mu g/m^3$	5.9	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5078	Report Date.	29.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5078	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	19.12.2025	Test Completed on	29.12.2026
Temperature	36°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	$\mu g/m^3$	48.5	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	$\mu g/m^3$	5.2	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5079	Report Date.	29.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5079	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	20.12.2025	Test Completed on	29.12.2026
Temperature	36°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	$\mu g/m^3$	64.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.5	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	$\mu g/m^3$	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5080	Report Date.	29.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5080	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	20.12.2025	Test Completed on	29.12.2026
Temperature	36°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	$\mu g/m^3$	59.1	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	$\mu g/m^3$	6.5	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5081	Report Date.	29.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5081	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	20.12.2025	Test Completed on	29.12.2026
Temperature	36°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	$\mu g/m^3$	59.4	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	$\mu g/m^3$	7.6	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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5082	Report Date.	29.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5082	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	21.12.2025	Test Completed on	29.12.2026
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	$\mu g/m^3$	59.4	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	$\mu g/m^3$	5.7	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5083	Report Date.	29.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5083	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	21.12.2025	Test Completed on	29.12.2026
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	$\mu g/m^3$	62.7	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	$\mu g/m^3$	6.5	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 (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/2025/5084	Report Date.	29.12.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5084	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	21.12.2025	Test Completed on	29.12.2026
Temperature	36°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	$\mu g/m^3$	61.9	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	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	14.3	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

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TEST REPORT

Report No.	SARL/2026/0015	Report Date.	05.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0015	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	23.12.2026	Test Completed on	05.01.2026
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	$\mu g/m^3$	52.5	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	$\mu g/m^3$	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 (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/2026/0016	Report Date.	05.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0016	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	23.12.2026	Test Completed on	05.01.2026
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	$\mu g/m^3$	52.7	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	$\mu g/m^3$	8.3	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

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TEST REPORT

Report No.	SARL/2026/0017	Report Date.	05.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0017	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	23.12.2026	Test Completed on	05.01.2026
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	$\mu g/m^3$	54.7	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	$\mu g/m^3$	6.0	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0018	Report Date.	05.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0018	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	24.12.2026	Test Completed on	05.01.2026
Temperature	36°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	$\mu g/m^3$	56.5	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	$\mu g/m^3$	6.5	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0019	Report Date.	05.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0019	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	24.12.2026	Test Completed on	05.01.2026
Temperature	36°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	$\mu g/m^3$	55.4	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	$\mu g/m^3$	7.3	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0020	Report Date.	05.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0020	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	24.12.2026	Test Completed on	05.01.2026
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	$\mu g/m^3$	26.1	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	$\mu g/m^3$	10.4	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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0021	Report Date.	05.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0021	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	25.12.2026	Test Completed on	05.01.2026
Temperature	37°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	$\mu g/m^3$	48.5	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	$\mu g/m^3$	4.6	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 (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0022	Report Date.	05.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0022	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	25.12.2026	Test Completed on	05.01.2026
Temperature	37°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	$\mu g/m^3$	47.6	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	$\mu g/m^3$	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0023	Report Date.	05.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0023	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	26.12.2026	Test Completed on	05.01.2026
Temperature	37°C	Relative Humidity	19%
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	$\mu g/m^3$	43.4	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	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0024	Report Date.	05.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0024	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	26.12.2026	Test Completed on	05.01.2026
Temperature	37°C	Relative Humidity	19%
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	$\mu g/m^3$	49.2	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	$\mu g/m^3$	5.4	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 (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/2026/0025	Report Date.	05.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0025	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	27.12.2026	Test Completed on	05.01.2026
Temperature	36°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	$\mu g/m^3$	72.1	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	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	15.0	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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0026	Report Date.	05.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0026	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	27.12.2026	Test Completed on	05.01.2026
Temperature	36°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	$\mu g/m^3$	55.1	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	$\mu g/m^3$	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0027	Report Date.	05.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0027	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	28.12.2026	Test Completed on	05.01.2026
Temperature	36°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	$\mu g/m^3$	67.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.3	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	$\mu g/m^3$	13.2	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0028	Report Date.	05.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0028	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	28.12.2026	Test Completed on	05.01.2026
Temperature	36°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	$\mu g/m^3$	51.5	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	$\mu g/m^3$	4.8	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0043	Report Date.	12.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0043	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	30.12.2026	Test Completed on	12.01.2026
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	$\mu g/m^3$	72.1	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	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	15.3	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0044	Report Date.	12.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0044	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	30.12.2026	Test Completed on	12.01.2026
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	$\mu g/m^3$	59.2	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	$\mu g/m^3$	6.6	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0045	Report Date.	12.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0045	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	31.12.2026	Test Completed on	12.01.2026
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	$\mu g/m^3$	65.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.5	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	$\mu g/m^3$	13.1	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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0046	Report Date.	12.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0046	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	31.12.2026	Test Completed on	12.01.2026
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	$\mu g/m^3$	56.3	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	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.1	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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0047	Report Date.	12.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3- Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0047	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	01.01.2026	Test Completed on	12.01.2026
Temperature	36°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	$\mu g/m^3$	51.7	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	$\mu g/m^3$	4.5	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0048	Report Date.	12.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4 - Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0048	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	01.01.2026	Test Completed on	12.01.2026
Temperature	36°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	$\mu g/m^3$	50.6	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	$\mu g/m^3$	4.9	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0049	Report Date.	12.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3- Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0049	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	02.01.2026	Test Completed on	12.01.2026
Temperature	36°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	$\mu g/m^3$	46.0	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	$\mu g/m^3$	4.7	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0050	Report Date.	12.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4 - Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0050	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	02.01.2026	Test Completed on	12.01.2026
Temperature	36°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	$\mu g/m^3$	47.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.1	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	$\mu g/m^3$	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0051	Report Date.	12.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0051	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	03.01.2026	Test Completed on	12.01.2026
Temperature	36°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	$\mu g/m^3$	51.4	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	$\mu g/m^3$	5.4	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0052	Report Date.	12.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0052	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	03.01.2026	Test Completed on	12.01.2026
Temperature	36°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	$\mu g/m^3$	57.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.1	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	$\mu g/m^3$	11.8	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0053	Report Date.	12.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0053	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	03.01.2026	Test Completed on	12.01.2026
Temperature	36°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	$\mu g/m^3$	63.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.5	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	$\mu g/m^3$	11.2	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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0054	Report Date.	12.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0054	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	04.01.2026	Test Completed on	12.01.2026
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	$\mu g/m^3$	57.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.6	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	$\mu g/m^3$	11.7	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

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TEST REPORT

Report No.	SARL/2026/0055	Report Date.	12.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0055	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	04.01.2026	Test Completed on	12.01.2026
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	$\mu g/m^3$	54.2	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	$\mu g/m^3$	5.4	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

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J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2026/0056	Report Date.	12.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0056	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	04.01.2026	Test Completed on	12.01.2026
Temperature	36°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	$\mu g/m^3$	58.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.6	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	$\mu g/m^3$	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0071	Report Date.	19.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0071	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	06.01.2026	Test Completed on	19.01.2026
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	$\mu g/m^3$	59.4	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	$\mu g/m^3$	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0072	Report Date.	19.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0072	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	06.01.2026	Test Completed on	19.01.2026
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	$\mu g/m^3$	55.6	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	$\mu g/m^3$	4.9	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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0073	Report Date.	19.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0073	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	06.01.2026	Test Completed on	19.01.2026
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	$\mu g/m^3$	60.5	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	$\mu g/m^3$	6.1	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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0074	Report Date.	19.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0074	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	07.01.2026	Test Completed on	19.01.2026
Temperature	36°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	$\mu g/m^3$	56.9	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	$\mu g/m^3$	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 (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0075	Report Date.	19.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0075	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	07.01.2026	Test Completed on	19.01.2026
Temperature	36°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	$\mu g/m^3$	54.8	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	$\mu g/m^3$	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0076	Report Date.	19.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0076	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	07.01.2026	Test Completed on	19.01.2026
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	$\mu g/m^3$	58.7	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	$\mu g/m^3$	6.3	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0077	Report Date.	19.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3- Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0077	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	08.01.2026	Test Completed on	19.01.2026
Temperature	37°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	$\mu g/m^3$	50.9	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	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	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

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TEST REPORT

Report No.	SARL/2026/0078	Report Date.	19.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0078	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	08.01.2026	Test Completed on	19.01.2026
Temperature	37°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	$\mu g/m^3$	49.9	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	$\mu g/m^3$	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

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TEST REPORT

Report No.	SARL/2026/0079	Report Date.	19.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3- Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0079	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	09.01.2026	Test Completed on	19.01.2026
Temperature	37°C	Relative Humidity	19%
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	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	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

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TEST REPORT

Report No.	SARL/2026/0080	Report Date.	19.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0080	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	09.01.2026	Test Completed on	19.01.2026
Temperature	37°C	Relative Humidity	19%
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	$\mu g/m^3$	24.6	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	$\mu g/m^3$	9.2	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

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TEST REPORT

Report No.	SARL/2026/0081	Report Date.	19.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0081	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	10.01.2026	Test Completed on	19.01.2026
Temperature	36°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	$\mu g/m^3$	77.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	37.3	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	$\mu g/m^3$	17.1	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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0082	Report Date.	19.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0082	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	10.01.2026	Test Completed on	19.01.2026
Temperature	36°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	$\mu g/m^3$	55.9	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	$\mu g/m^3$	5.9	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0083	Report Date.	19.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0083	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	11.01.2026	Test Completed on	19.01.2026
Temperature	36°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	$\mu g/m^3$	70.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	34.1	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	$\mu g/m^3$	15.0	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0084	Report Date.	19.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0084	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	11.01.2026	Test Completed on	19.01.2026
Temperature	36°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	$\mu g/m^3$	50.7	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	$\mu g/m^3$	4.6	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0099	Report Date.	26.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0099	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	13.01.2026	Test Completed on	26.01.2026
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	$\mu g/m^3$	66.7	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	$\mu g/m^3$	6.4	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(DL-1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0100	Report Date.	26.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0100	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	13.01.2026	Test Completed on	26.01.2026
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	$\mu g/m^3$	57.1	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	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.1	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0101	Report Date.	26.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0101	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	14.01.2026	Test Completed on	26.01.2026
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	$\mu g/m^3$	70.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	33.8	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	$\mu g/m^3$	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0102	Report Date.	26.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0102	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	14.01.2026	Test Completed on	26.01.2026
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	$\mu g/m^3$	54.7	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	$\mu g/m^3$	5.6	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2026/0103	Report Date.	26.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0103	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	15.01.2026	Test Completed on	26.01.2026
Temperature	36°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	$\mu g/m^3$	45.6	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	$\mu g/m^3$	4.5	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 (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0104	Report Date.	26.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4 - Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0104	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	15.01.2026	Test Completed on	26.01.2026
Temperature	36°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	$\mu g/m^3$	55.4	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	$\mu g/m^3$	7.1	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 (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0105	Report Date.	26.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0105	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	16.01.2026	Test Completed on	26.01.2026
Temperature	36°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	$\mu g/m^3$	52.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.5	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	$\mu g/m^3$	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0106	Report Date.	26.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0106	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	16.01.2026	Test Completed on	26.01.2026
Temperature	36°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	$\mu g/m^3$	52.6	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	$\mu g/m^3$	6.7	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0107	Report Date.	26.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0107	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	17.01.2026	Test Completed on	26.01.2026
Temperature	36°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	$\mu g/m^3$	55.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.4	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	$\mu g/m^3$	10.8	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0108	Report Date.	26.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0108	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	17.01.2026	Test Completed on	26.01.2026
Temperature	36°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	$\mu g/m^3$	52.9	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	$\mu g/m^3$	5.3	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

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Authorized Signatory
J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2026/0109	Report Date.	26.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0109	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	17.01.2026	Test Completed on	26.01.2026
Temperature	36°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	$\mu g/m^3$	55.1	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	$\mu g/m^3$	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

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TEST REPORT

Report No.	SARL/2026/0110	Report Date.	26.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0110	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	18.01.2026	Test Completed on	26.01.2026
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	$\mu g/m^3$	59.4	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	$\mu g/m^3$	5.5	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2026/0111	Report Date.	26.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0111	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	18.01.2026	Test Completed on	26.01.2026
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	$\mu g/m^3$	54.5	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	$\mu g/m^3$	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2026/0112	Report Date.	26.01.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0112	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	18.01.2026	Test Completed on	26.01.2026
Temperature	36°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	$\mu g/m^3$	62.7	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	$\mu g/m^3$	5.7	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0127	Report Date.	02.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0127	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	20.01.2026	Test Completed on	02.02.2026
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	$\mu g/m^3$	57.9	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	$\mu g/m^3$	6.5	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0128	Report Date.	02.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0128	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	20.01.2026	Test Completed on	02.02.2026
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	$\mu g/m^3$	64.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.6	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	$\mu g/m^3$	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

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TEST REPORT

Report No.	SARL/2026/0129	Report Date.	02.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0129	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	20.01.2026	Test Completed on	02.02.2026
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	$\mu g/m^3$	57.9	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	$\mu g/m^3$	7.7	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

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TEST REPORT

Report No.	SARL/2026/0130	Report Date.	02.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0130	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	21.01.2026	Test Completed on	02.02.2026
Temperature	36°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	$\mu g/m^3$	54.9	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	$\mu g/m^3$	5.3	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0131	Report Date.	02.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0131	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	21.01.2026	Test Completed on	02.02.2026
Temperature	36°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	$\mu g/m^3$	57.9	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	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.8	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

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TEST REPORT

Report No.	SARL/2026/0132	Report Date.	02.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0132	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	21.01.2026	Test Completed on	02.02.2026
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	$\mu g/m^3$	55.6	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	$\mu g/m^3$	5.6	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

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TEST REPORT

Report No.	SARL/2026/0133	Report Date.	02.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3- Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0133	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	22.01.2026	Test Completed on	02.02.2026
Temperature	37°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	$\mu g/m^3$	46.6	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	$\mu g/m^3$	4.4	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0134	Report Date.	02.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0134	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	22.01.2026	Test Completed on	02.02.2026
Temperature	37°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	$\mu g/m^3$	53.5	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	$\mu g/m^3$	5.3	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

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TEST REPORT

Report No.	SARL/2026/0135	Report Date.	02.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3- Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0135	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	23.01.2026	Test Completed on	02.02.2026
Temperature	37°C	Relative Humidity	19%
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	$\mu g/m^3$	53.5	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	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	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

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TEST REPORT

Report No.	SARL/2026/0136	Report Date.	02.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0136	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	23.01.2026	Test Completed on	02.02.2026
Temperature	37°C	Relative Humidity	19%
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	$\mu g/m^3$	50.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.6	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	$\mu g/m^3$	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0137	Report Date.	02.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0137	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	24.01.2026	Test Completed on	02.02.2026
Temperature	36°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	$\mu g/m^3$	67.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.6	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	$\mu g/m^3$	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

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TEST REPORT

Report No.	SARL/2026/0138	Report Date.	02.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0138	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	24.01.2026	Test Completed on	02.02.2026
Temperature	36°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	$\mu g/m^3$	57.5	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	$\mu g/m^3$	6.3	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

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TEST REPORT

Report No.	SARL/2026/0139	Report Date.	02.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0139	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	25.01.2026	Test Completed on	02.02.2026
Temperature	36°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	$\mu g/m^3$	71.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	34.4	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	$\mu g/m^3$	15.1	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0140	Report Date.	02.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0140	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	25.01.2026	Test Completed on	02.02.2026
Temperature	36°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	$\mu g/m^3$	53.9	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	$\mu g/m^3$	5.4	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

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TEST REPORT

Report No.	SARL/2026/0155	Report Date.	09.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0155	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	27.01.2026	Test Completed on	09.02.2026
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	$\mu g/m^3$	72.7	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	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	15.6	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

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TEST REPORT

Report No.	SARL/2026/0156	Report Date.	09.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0156	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	27.01.2026	Test Completed on	09.02.2026
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	$\mu g/m^3$	50.3	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	$\mu g/m^3$	4.7	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

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J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2026/0157	Report Date.	09.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0157	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	28.01.2026	Test Completed on	09.02.2026
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	$\mu g/m^3$	74.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	35.8	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	$\mu g/m^3$	16.1	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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0158	Report Date.	09.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0158	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	28.01.2026	Test Completed on	09.02.2026
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	$\mu g/m^3$	54.3	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	$\mu g/m^3$	5.6	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0159	Report Date.	09.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3- Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0159	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	29.01.2026	Test Completed on	09.02.2026
Temperature	36°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	$\mu g/m^3$	25.8	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	$\mu g/m^3$	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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0160	Report Date.	09.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4 - Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0160	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	29.01.2026	Test Completed on	09.02.2026
Temperature	36°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	$\mu g/m^3$	52.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.7	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	$\mu g/m^3$	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0161	Report Date.	09.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3- Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0161	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	30.01.2026	Test Completed on	09.02.2026
Temperature	36°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	$\mu g/m^3$	54.5	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	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.5	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0162	Report Date.	09.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0162	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	30.01.2026	Test Completed on	09.02.2026
Temperature	36°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	$\mu g/m^3$	55.4	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	$\mu g/m^3$	4.9	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 (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0163	Report Date.	09.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0163	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	31.01.2026	Test Completed on	09.02.2026
Temperature	36°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	$\mu g/m^3$	51.5	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	$\mu g/m^3$	5.7	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0164	Report Date	09.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0164	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	31.01.2026	Test Completed on	09.02.2026
Temperature	36°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	$\mu g/m^3$	60.5	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	$\mu g/m^3$	6.5	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0165	Report Date.	09.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0165	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	31.01.2026	Test Completed on	09.02.2026
Temperature	36°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	$\mu g/m^3$	57.1	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	$\mu g/m^3$	7.0	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0166	Report Date.	09.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0166	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	01.02.2026	Test Completed on	09.02.2026
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	$\mu g/m^3$	55.9	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	$\mu g/m^3$	6.9	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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0167	Report Date.	09.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0167	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	01.02.2026	Test Completed on	09.02.2026
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	$\mu g/m^3$	59.7	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	$\mu g/m^3$	7.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	14.9	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0168	Report Date.	09.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0168	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	01.02.2026	Test Completed on	09.02.2026
Temperature	36°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	$\mu g/m^3$	55.2	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	$\mu g/m^3$	6.5	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0183	Report Date.	16.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0183	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	02.02.2026	Test Completed on	16.02.2026
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	$\mu g/m^3$	50.5	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	$\mu g/m^3$	6.3	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

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0184	Report Date.	16.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0184	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	02.02.2026	Test Completed on	16.02.2026
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	$\mu g/m^3$	64.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.5	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	$\mu g/m^3$	13.1	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

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TEST REPORT

Report No.	SARL/2026/0185	Report Date.	16.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0185	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	02.02.2026	Test Completed on	16.02.2026
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	$\mu g/m^3$	59.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.5	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	$\mu g/m^3$	11.2	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0186	Report Date.	16.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0186	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	03.02.2026	Test Completed on	16.02.2026
Temperature	36°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	$\mu g/m^3$	57.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.1	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	$\mu g/m^3$	11.9	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

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TEST REPORT

Report No.	SARL/2026/0187	Report Date.	16.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0187	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	03.02.2026	Test Completed on	16.02.2026
Temperature	36°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	$\mu g/m^3$	61.6	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	$\mu g/m^3$	9.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.8	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2026/0188	Report Date.	16.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0188	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	03.02.2026	Test Completed on	16.02.2026
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	$\mu g/m^3$	57.6	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	$\mu g/m^3$	6.8	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0189	Report Date.	16.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3- Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0189	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	04.02.2026	Test Completed on	16.02.2026
Temperature	37°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	$\mu g/m^3$	50.9	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	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.9	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/2026/0190	Report Date.	16.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0190	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	04.02.2026	Test Completed on	16.02.2026
Temperature	37°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	$\mu g/m^3$	58.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.8	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	$\mu g/m^3$	9.5	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0191	Report Date.	16.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3- Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0191	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	05.02.2026	Test Completed on	16.02.2026
Temperature	37°C	Relative Humidity	19%
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	$\mu g/m^3$	53.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.6	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	$\mu g/m^3$	10.7	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0192	Report Date.	16.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0192	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	05.02.2026	Test Completed on	16.02.2026
Temperature	37°C	Relative Humidity	19%
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	$\mu g/m^3$	57.4	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	$\mu g/m^3$	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

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TEST REPORT

Report No.	SARL/2026/0193	Report Date.	16.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0193	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	06.02.2026	Test Completed on	16.02.2026
Temperature	36°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	$\mu g/m^3$	65.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.5	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	$\mu g/m^3$	12.6	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0194	Report Date.	16.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0194	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	06.02.2026	Test Completed on	16.02.2026
Temperature	36°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	$\mu g/m^3$	22.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	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 (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0195	Report Date.	16.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0195	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	07.02.2026	Test Completed on	16.02.2026
Temperature	36°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	$\mu g/m^3$	70.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	33.8	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	$\mu g/m^3$	14.4	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

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TEST REPORT

Report No.	SARL/2026/0196	Report Date.	16.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0196	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	07.02.2026	Test Completed on	16.02.2026
Temperature	36°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	$\mu g/m^3$	52.7	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	$\mu g/m^3$	5.1	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

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TEST REPORT

Report No.	SARL/2026/0211	Report Date.	23.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0211	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	10.02.2026	Test Completed on	23.02.2026
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	$\mu g/m^3$	68.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.8	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	$\mu g/m^3$	13.6	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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0212	Report Date.	23.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0212	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	10.02.2026	Test Completed on	23.02.2026
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	$\mu g/m^3$	51.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.5	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	$\mu g/m^3$	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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0213	Report Date.	23.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0213	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	11.02.2026	Test Completed on	23.02.2026
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	$\mu g/m^3$	69.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	33.5	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	$\mu g/m^3$	14.1	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

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
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TEST REPORT

Report No.	SARL/2026/0214	Report Date.	23.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0214	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	11.02.2026	Test Completed on	23.02.2026
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	$\mu g/m^3$	56.7	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	$\mu g/m^3$	6.1	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

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TEST REPORT

Report No.	SARL/2026/0215	Report Date.	23.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3- Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0215	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	12.02.2026	Test Completed on	23.02.2026
Temperature	36°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	$\mu g/m^3$	29.7	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	$\mu g/m^3$	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

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TEST REPORT

Report No.	SARL/2026/0216	Report Date.	23.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4 - Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0216	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	12.02.2026	Test Completed on	23.02.2026
Temperature	36°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	$\mu g/m^3$	54.7	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	$\mu g/m^3$	4.9	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

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TEST REPORT

Report No.	SARL/2026/0217	Report Date.	23.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3- Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0217	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	13.02.2026	Test Completed on	23.02.2026
Temperature	36°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	$\mu g/m^3$	46.6	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	$\mu g/m^3$	3.9	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 (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/2026/0218	Report Date.	23.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0218	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	13.02.2026	Test Completed on	23.02.2026
Temperature	36°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	$\mu g/m^3$	53.0	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	$\mu g/m^3$	4.8	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

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TEST REPORT

Report No.	SARL/2026/0219	Report Date.	23.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0219	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	14.02.2026	Test Completed on	23.02.2026
Temperature	36°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	$\mu g/m^3$	50.4	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	$\mu g/m^3$	5.2	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

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TEST REPORT

Report No.	SARL/2026/0220	Report Date.	23.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0220	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	14.02.2026	Test Completed on	23.02.2026
Temperature	36°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	$\mu g/m^3$	64.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.7	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	$\mu g/m^3$	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

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TEST REPORT

Report No.	SARL/2026/0221	Report Date.	23.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0221	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	14.02.2026	Test Completed on	23.02.2026
Temperature	36°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	$\mu g/m^3$	62.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.6	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	$\mu g/m^3$	11.6	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

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TEST REPORT

Report No.	SARL/2026/0222	Report Date.	23.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0222	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	15.02.2026	Test Completed on	23.02.2026
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	$\mu g/m^3$	54.7	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	$\mu g/m^3$	5.5	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

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45.

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0223	Report Date.	23.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0223	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	15.02.2026	Test Completed on	23.02.2026
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	$\mu g/m^3$	59.9	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	$\mu g/m^3$	7.1	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

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TEST REPORT

Report No.	SARL/2026/0224	Report Date.	23.02.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0224	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	15.02.2026	Test Completed on	23.02.2026
Temperature	36°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	$\mu g/m^3$	68.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	37.6	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	$\mu g/m^3$	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

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TEST REPORT

Report No.	SARL/2026/0239	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0239	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	17.02.2026	Test Completed on	09.03.2026
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	$\mu g/m^3$	53.0	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	$\mu g/m^3$	6.3	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0240	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0240	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	17.02.2026	Test Completed on	09.03.2026
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	$\mu g/m^3$	63.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.6	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	$\mu g/m^3$	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0241	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0241	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	17.02.2026	Test Completed on	09.03.2026
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	$\mu g/m^3$	64.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	33.5	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	$\mu g/m^3$	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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0242	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5- Karasanur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0242	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	18.02.2026	Test Completed on	09.03.2026
Temperature	36°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	$\mu g/m^3$	53.4	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	$\mu g/m^3$	5.5	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0243	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6- Kadagampattu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0243	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	18.02.2026	Test Completed on	02.03.2026
Temperature	36°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	$\mu g/m^3$	57.7	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	$\mu g/m^3$	6.3	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/2026/0244	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7- Senipet
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0244	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	18.02.2026	Test Completed on	02.03.2026
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	$\mu g/m^3$	60.4	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	$\mu g/m^3$	7.3	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/2026/0245	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3- Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0245	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	19.02.2026	Test Completed on	02.03.2026
Temperature	37°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	$\mu g/m^3$	52.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0246	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0246	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	19.02.2026	Test Completed on	02.03.2026
Temperature	37°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	$\mu g/m^3$	49.5	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	$\mu g/m^3$	6.9	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

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TEST REPORT

Report No.	SARL/2026/0247	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3- Thollamur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0247	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	20.02.2026	Test Completed on	02.03.2026
Temperature	37°C	Relative Humidity	19%
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	$\mu g/m^3$	23.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	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

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TEST REPORT

Report No.	SARL/2026/0248	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4- Nemili
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0248	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	20.02.2026	Test Completed on	02.03.2026
Temperature	37°C	Relative Humidity	19%
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	$\mu g/m^3$	27.7	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	$\mu g/m^3$	10.6	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

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TEST REPORT

Report No.	SARL/2026/0249	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0249	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	21.02.2026	Test Completed on	02.03.2026
Temperature	36°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	$\mu g/m^3$	66.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.9	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	$\mu g/m^3$	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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0250	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0250	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	21.02.2026	Test Completed on	02.03.2026
Temperature	36°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	$\mu g/m^3$	55.5	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	$\mu g/m^3$	5.8	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

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TEST REPORT

Report No.	SARL/2026/0251	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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-0251	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Temperature	36°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	$\mu g/m^3$	68.5	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	$\mu g/m^3$	6.6	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 (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/2026/0252	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2- Thiruvakkarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0252	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Temperature	36°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	$\mu g/m^3$	51.1	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	$\mu g/m^3$	4.7	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

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TEST REPORT

Report No.	SARL/2026/0260

Report Date.	09.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
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/A/CHE-0260	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	09.03.2026
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)	920.5	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	555	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	192	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	34.5	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	25.4	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	86.2	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	106	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	245	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	142	1000

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TEST REPORT

Report No.	SARL/2026/0260

Report Date.	09.03.2026

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	0.12	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	3.26	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.54	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0261

Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	WATER
Sample Mark	W2- Thiruvakkarai

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/A/CHE-0261	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
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	-	7.44	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	874.6	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	530	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	320	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	72.8	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	33.1	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	182	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	138	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	232	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	110	1000

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TEST REPORT

Report No.	SARL/2026/0261	Report Date.	02.03.2026

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	136	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.07	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	4.21	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.49	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0262

Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	WATER
Sample Mark	W3-Thollamur

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/A/CHE-0262	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
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	-	7.21	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	950	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	572	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	279	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	76.0	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	21.4	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	190	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	89.0	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	225	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	136	1000

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TEST REPORT

Report No.	SARL/2026/0262	Report Date.	02.03.2026

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	186	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.09	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	3.25	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.52	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0263

Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	WATER
Sample Mark	W4-Nemili

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/A/CHE-0263	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
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)	1832	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1100	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	496	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	124	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	44.6	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	310	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	186	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	520	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	352	1000

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TEST REPORT

Report No.	SARL/2026/0263	Report Date.	02.03.2026

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	235	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	2.74	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.56	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0264

Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	WATER
Sample Mark	W5- Karasanur

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/A/CHE-0264	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
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	-	7.29	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1036	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	630	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	410	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	75.2	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	53.3	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	188	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	222	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	384	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	170	1000

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TEST REPORT

Report No.	SARL/2026/0264

Report Date.	02.03.2026

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	82.5	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.04	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.24	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.37	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0265

Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	WATER
Sample Mark	W6- Kadagampattu

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/A/CHE-0265	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
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	-	7.14	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	974	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	586	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	382	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	71.2	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	49.0	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	178	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	204	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	212	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	176	1000

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TEST REPORT

Report No.	SARL/2026/0265	Report Date.	02.03.2026

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	152	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.11	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	4.26	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.58	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0266

Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	WATER
Sample Mark	W7-Senipet

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/A/CHE-0266	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
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	-	7.49	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	845	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	510	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	326	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	62.4	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	40.8	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	156	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	170	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	194	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	152	1000

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TEST REPORT

Report No.	SARL/2026/0266	Report Date.	02.03.2026

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	125	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.09	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	3.98	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.48	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

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For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

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TEST REPORT

Report No.	SARL/2026/0283	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	WATER
Sample Mark	SW1-Sangrabarani River - upstream

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/A/CHE-0283	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
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	<1.0
3	pH at 25 °C	APHA 24th Edition 4500 – H+ B: 2023	-	7.76
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	612
B.	**Chemical parameters**			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	372
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	190
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	49.6
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	15.8
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	124
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	66.0
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	125
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	146

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TEST REPORT

Report No.	SARL/2026/0283	Report Date.	02.03.2026

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	56.8
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.07
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	4.26
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.55
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	BDL (D.L – 4.0)
20	Bio Chemical Oxygen Demand 3 Days at 27°c	IS 3025 (Part 44): 1993	mg/L	BDL (D.L – 2.0)
21	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	10
22	Dissolved Oxygen	IS 3025 (Part 38): 1989	mg/L	6.3

Remarks: 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
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/2026/0284	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	WATER
Sample Mark	SW2-Sangrabarani River – downstream

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/A/CHE-0284	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
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	<1.0
3	pH at 25 °C	APHA 24th Edition 4500 – H+ B: 2023	-	7.39
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	712
B.	**Chemical parameters**			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	436
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	236
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	60.8
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	20.2
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	152
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	84.0
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	156.0
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	170.0

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TEST REPORT

Report No.	SARL/2026/0284	Report Date.	02.03.2026

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	90.7
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.12
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	5.98
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.62
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	BDL (D.L – 4.0)
20	Bio Chemical Oxygen Demand 3 Days at 27°c	IS 3025 (Part 44): 1993	mg/L	BDL (D.L – 2.0)
21	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	16
22	Dissolved Oxygen	IS 3025 (Part 38): 1989	mg/L	6.1

Remarks: BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/2026/0274	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	S1- Within Mine Lease area

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/A/CHE-0274	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.16
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	220
3	Dry matter content	IS 15106: 2002	%	93.46
4	Water Content	IS 15106: 2002	%	6.54
5	Organic Matter	IS 2720: Part 22: 1972	%	0.72
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	142
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Sandy Clay Loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	55.62
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	19.95
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	24.43
9	Phosphorus as P	IS 10158: 1982	mg/kg	0.95
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	120
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	105
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	%	42
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	38

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0275	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	S2- Thiruvakkarai

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/A/CHE-0275	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.95
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	280
3	Dry matter content	IS 15106: 2002	%	90.41
4	Water Content	IS 15106: 2002	%	9.59
5	Organic Matter	IS 2720: Part 22: 1972	%	0.69
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	128
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Sandy Loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	65.9
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	25.23
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	8.87
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.02
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	110.0
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	95.6
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	%	40
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	36

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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Please Contact:
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TEST REPORT

Report No.	SARL/2026/0276	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	S3-Thollamur

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/A/CHE-0276	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.32
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	252
3	Dry matter content	IS 15106: 2002	%	96.58
4	Water Content	IS 15106: 2002	%	3.42
5	Organic Matter	IS 2720: Part 22: 1972	%	0.52
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	152
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Clay Loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	35.24
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	30.36
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	34.40
9	Phosphorus as P	IS 10158: 1982	mg/kg	0.89
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	0.89
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	112
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
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	40

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0277	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	S4- Nemili

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/A/CHE-0277	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.09
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	169
3	Dry matter content	IS 15106: 2002	%	97.39
4	Water Content	IS 15106: 2002	%	2.61
5	Organic Matter	IS 2720: Part 22: 1972	%	0.85
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	125
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Sandy Loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	68.97
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	22.21
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	22.21
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.32
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	109.0
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	92.8
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	%	39
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	35

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0278	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	S5- Karasanur

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/A/CHE-0278	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.34
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	284
3	Dry matter content	IS 15106: 2002	%	94.44
4	Water Content	IS 15106: 2002	%	5.56
5	Organic Matter	IS 2720: Part 22: 1972	%	0.72
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	159
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Clay Loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	30.62
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	28.97
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	40.41
9	Phosphorus as P	IS 10158: 1982	mg/kg	0.75
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	145
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	115
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
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	42

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
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TEST REPORT

Report No.	SARL/2026/0279	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	S6- Kadagampattu

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/A/CHE-0279	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.21
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	196
3	Dry matter content	IS 15106: 2002	%	97.69
4	Water Content	IS 15106: 2002	%	2.31
5	Organic Matter	IS 2720: Part 22: 1972	%	0.39
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	138
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Loamy Sand
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	75.48
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	15.62
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	8.90
9	Phosphorus as P	IS 10158: 1982	mg/kg	0.96
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	118
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	106
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	%	41
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	37

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

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TEST REPORT

Report No.	SARL/2026/0280	Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State.
Sample Description	SOIL
Sample Mark	S7- Senipet

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/A/CHE-0280	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.39
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	271
3	Dry matter content	IS 15106: 2002	%	94.36
4	Water Content	IS 15106: 2002	%	5.64
5	Organic Matter	IS 2720: Part 22: 1972	%	0.44
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	132
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Sandy Clay Loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	52.25
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	23.36
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	24.39
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.09
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	110
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	98
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	%	40
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	36

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

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TEST REPORT

Report No.	SARL/2026/0286

Report Date.	02.03.2026

Customer Name & Address	Rough Stone And Gravel Quarry Of Thiru.M.Moorthi, S.F.Nos. 106/2A, 106/2B, 106/3, 106/4A And 106/4B Of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu State
Sample Description	NOISE LEVEL DATA

Customer Reference	By Mail	Sampling Method	SARL/IOP/023
Sample Reference No	SARL/A/CHE-0286	Date of Monitoring	22.02.2026
Sample Collected by	LABORATORY		

Time in hrs	N1	N2	N3	N4	N5	N6	N7
06.00	41.6	41.4	45.3	44.8	45.5	41.1	40.8
07.00	43.6	42.3	44.9	46.1	47.3	43.0	42.7
08.00	45.3	46.4	46.4	46.9	48.7	46.8	46.5
09.00	49.9	48.7	51.8	52.0	47.1	51.0	50.7
10.00	54.9	54.8	53.9	54.0	51.8	51.3	51.0
11.00	56.4	55.3	53.0	48.9	47.9	46.9	46.6
12.00	55.3	52.9	53.6	48.1	48.7	48.9	48.6
13.00	52.9	54.8	52.9	54.9	50.6	47.0	46.7
14.00	50.7	51.3	52.4	55.3	48.0	47.8	47.5
15.00	51.3	50.9	51.8	53.0	48.4	50.0	49.7
16.00	57.8	54.9	44.6	54.8	45.7	52.1	51.8
17.00	55.3	56.1	44.0	53.4	47.9	53.3	53.0
18.00	56.9	53.0	46.4	49.4	46.4	51.0	50.7
19.00	51.8	51.3	48.0	46.4	44.8	51.8	51.5
20.00	46.6	43.0	44.5	44.6	45.5	47.7	47.4
21.00	46.1	42.3	43.0	44.1	42.9	46.9	46.6
22.00	43.0	41.8	43.6	42.8	43.5	44.8	44.5
23.00	42.1	41.3	42.8	41.4	44.6	44.0	43.7
24.00	41.8	41.1	41.7	42.3	41.7	41.9	41.6
01.00	42.4	40.6	41.0	41.9	43.4	41.0	40.7
02.00	43.1	41.4	41.1	41.1	41.3	41.1	40.8
03.00	47.1	42.7	41.4	40.6	40.4	42.3	42.0
04.00	44.9	42.8	41.7	43.3	41.7	43.6	43.3
05.00	43.9	41.9	40.6	44.5	43.7	42.8	42.5

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TEST REPORT

Report No.	SARL/2026/0286

Report Date.	02.03.2026

	N1	N2	N3	N4	N5	N6	N7
DAY EQUIVALENT	**53.2**	**52.2**	**50.2**	**51.4**	**47.9**	**49.5**	**49.2**
NIGHT EQUIVALENT	**43.9**	**41.8**	**41.8**	**42.4**	**42.7**	**42.9**	**42.6**
DAY & NIGHT EQUIVALENT	**51.7**	**50.6**	**48.7**	**49.9**	**46.7**	**48.2**	**47.9**

Remarks:

LOCATIONS:

N1-Within Mine Lease area
N2- Thiruvakkarai
N3- Thollamur
N4- Nemili
N5- Karasanur
N6- Kadagampattu
N7- Senipet

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

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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

07. 11. 2025



அனுப்புநர் : V. S. சண்முகம்
தலைமை ஆசிரியர்
உதவி பெறும் ஆரம்பப்பள்ளி
தொள்ளூர், வாணூர் வட்டம்

பெறுநர் : M. தீர்த்தி.
S/o முனியன்,
எண்: 413. மன்னார்சாமி கோவில் வீதி,
திருவக்கரை கிராமம்.
வாணூர் வட்டம், விழுப்புரம் மாவட்டம்.

பொருள் : தொள்ளூர் அரசு நிதியுதவிபெறும் தொடக்கப்பள்ளிக்கு அடிப்படை வசதி கோரல் சார்பு.

மதிப்பிற்குரிய ஐயா,

வாணூர் வட்டம், தொள்ளூர் அரசு நிதியுதவி பெறும் தொடக்கப்பள்ளியில் அமார 65 மாணவ-மாணவிகள் பயின்று வருகின்றனர். இப்பள்ளிக்கு கீழ்க்கண்ட அடிப்படை வசதிகள் தேவையாக உள்ளது. மாணவர்களின் கல்வி சூழ்நிலையும் கருதி அடிப்படை வசதிகளை செய்து தருமாறு பணிவுடன் கேட்டுக்கொள்கிறேன்.

வ.எண்	தேவைகள்	எண்ணிக்கை:
01	HP Computer System HP Printer	2 1
02.	1500 அடிக்கு Paver Blocks stone	அமைத்தல்
03.	மின் சார மணி (electric bell)	01
04.	Steel table & S type chair	3 set
05.	Fan	05.
06.	அலமாரி (Steel)	02.
07.	சமையல் கூடம் பழுதுபார்த்தல்	01.

இடம்: தொள்ளூர்
தேதி: 07.11.25

தங்கள் நம்பிக்கைக்குரிய
07/11/25
தலைமை ஆசிரியர்
உதவி பெறும் ஆரம்பப்பள்ளி
தொள்ளூர், வாணூர் வட்டம்