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. TO26B0108TN5540061N (F. No. 13642), dated 15.06.2026

PROPOSED QUARRY LEASE DETAILS	
SURVEY NO	**85/2**
VILLAGE	**NADANTHAI NORTH**
TALUK	**ARAVAKURICHI**
DISTRICT	**KARUR**
EXTENT	**1.66.0 Ha**
CLUSTER EXTENT	**6.55.5 Ha**
MINEABLE RESERVES (upto 42m BGL)	**ROUGH STONE: 1,96,480m^3 GRAVEL: 23,408m^3**
PROPOSED PRODUCTION QUANTITY FOR FIVE YEARS (upto 42m BGL)	**ROUGH STONE: 1,96,480m^3 GRAVEL: 23,408m^3**
LAND	**PATTA LAND**

(Sector No. 1(a) Sector No.1 as per NABET)
Category of the Project: B1 Cluster Mining, Total Cluster Area – 6.55.5 Ha
Baseline Monitoring Period – March 2026 – May 2026

APPLICANT

TMT. M. Raziya
W/o. Mohammed,
Favourit House, Morayur, Mongam,
Malappuram, Ernad, Kerala.
Pincode - 673 642.

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 up to: 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 up to: 29.09.2029*** **#416/15, Dhargas Road, Perungalathur,** **West Tambaram, Chennai,** **Tamil Nadu, India.**

JULY - 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						
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ACKNOWLEDGEMENT

M/s. Global Mining Solutions, Salem is very much thankful to Tmt. M. Raziya, for the confidence and trust placed on the organization for carrying out Environmental Impact Assessment (EIA) study for the proposed Rough Stone and Gravel quarry over a lease extent of 1.66.0 Ha., & Cluster extent of 6.55.5 Ha., located at Nadanthai North Village, Aravakurichi Taluk, Karur 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 Nadanthai North Village and the nearby villages for their whole hearted cooperation and constant involvement during the entire field study without which the study would not have been possible.

For: M/s. Global Mining Solutions



(M. Prabu)

Managing Director

UNDERTAKING

In line with 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 1.66.0 Ha & Cluster extent of 6.55.5 Ha., located at Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu State.

For: M/s. Global Mining Solutions

M. MANIKANDAN
EIA CO-ORDINATOR
GLOBAL MINING SOLUTIONS
SALEM

Name: M.Manikandan
EIA Coordinator – Mining

UNDERTAKING

In Line with OM no. J-11013/41/2006-IA.II (1) dated 4th Aug 2009 and its Amendments, we hereby confirm that all Terms of Reference issued by Ministry of Environment, Forest and Climate Change vide ToR Identification No. TO26B0108TN5540061N (F.No.13642), dated 15.06.2026 of Draft EIA/EMP report for the proposed Rough Stone and Gravel Quarry over a lease extent of 1.66.0 Ha., & Cluster extent of 6.55.5 Ha., located at Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu Stat for the proposed production of five years is 42m (Below Ground Level) 1,96,480 m^3 of Rough Stone and 23,408 m^3 of Gravel 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

Name: M.Manikandan
EIA Coordinator – Mining

भारतीय गुणवत्ता परिषद
QUALITY COUNCIL OF INDIA
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NABET

National Accreditation Board for Education and Training

Certificate of Accreditation

Global Mining Solutions, Salem

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

Global Mining Solutions, Salem is Re-Accredited (RA1) as Category-A organization under the QCI-NABET Scheme for Accreditation of EIA Consultant Organizations (Version 3), for the preparation of EIA/EMP reports in the sector 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 NAAC minutes dated February 05, 2026, posted on QCI-NABET website.

The Accreditation shall remain in force subject to contained compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no QCI/NABET/ENV/ACO/26/4024 dated February 16, 2026. The accreditation needs to be renewed before the expiry date by Global Mining Solutions, Salem following due process of assessment.

Valid up to
January 03, 2029

Issue Date
February 16, 2026

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

Prof (Dr) Varinder S Kanwar
(CEO – NABET)

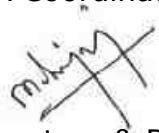
For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to QCI-NABET website

DECLARATION BY EXPERTS

Declaration by Experts contributing to the proposed Rough Stone and Gravel Quarry over a lease extent of 1.66.0 Ha. & Cluster extent of 6.55.5 Ha in Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu State.

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

EIA Coordinator Name: M. Manikandan

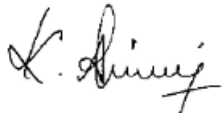
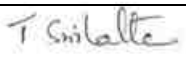


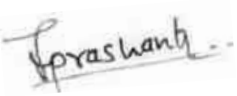
Signature & Date

Period of involvement: March 2026 – May 2026.

Contact information:

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

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

			Predication of the ground level concentration of the dust. Suggesting suitable mitigation measures. <u>*Period: March 2026 to May 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: March 2026 to May 2026*</u>	
9	*LU*	*Dhanalakshmi Ramanathan*	*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: March 2026 to May 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.* <u>*Period: March 2026 to May 2026*</u>	
11	*SC*	*Shisupal Sing*	*Soil monitoring, secondary data collection on soil type, soil management practices, utilization of topsoil.* <u>*Period: March 2026 to May 2026*</u>	
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.* <u>*Period: March 2026 to May 2026*</u>	

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COMPLIANCE TO TERMS OF REFERENCE

S. No	ToR Points	Reply	Pg. No
1. SEAC Conditions - Site Specific			
Major Conditions:			
1	The stream located within the proposed project site shall be diverted only after obtaining the necessary approvals from the competent authority, and appropriate mitigation measures shall be incorporated into the Environmental Management Plan (EMP).	Agreed.	
2	The project proponent shall submit a ground water study/hydrological report along with the Environmental Impact Assessment Report	The detailed hydrological report is being prepared and will be incorporated into the final EIA report.	
General Conditions			
1	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	There are 2 quarries within a 500-metre radius. The proponent will take the initiative to form a cluster management committee once environmental clearance is obtained for this quarry as well as the other proposed quarry	-
2	The Geo referenced Boundary pillars to be erected as per the mine rules and the evidence should be submitted along with the EIA report.	The geo-referenced boundary pillars will be established at the site, and the evidence thereof will be incorporated in the Final EIA/EMP Report.	

3	The details of enumeration of structures including schools, colleges, primary health centres should be submitted along with the EIA report.	The details of the enumeration of structures are presented in Chapter 3 of the EIA/EMP Report. There are no schools, colleges, or primary health centres within a 300 m radius of the proposed quarry lease area.	
4	The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & upto 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc. and spell out the mitigation measures to be proposed for the protection of the above structures, if any during the quarrying operations.	It is incorporated in Chapter 3	
5	The proponent shall furnish photographs of adequate fencing; garland drainage built with siltation tank & green belt along the periphery including replantation of existing trees; maintaining the safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.	There are no trees within ML area. Fencing and plantations are under process. Greenbelt / Plantation will be carried out in the safety zone to enhance the vegetative growth and aesthetic in the safety zone area. In the post mining stage, an area of 0.45.50 Ha will be under greenbelt and plantation.	
6	The Proponent shall carry out Bio diversity study as a part of EIA study and the same shall be included in the Report.	A detailed biodiversity study has been carried out as part of the EIA study, and the findings along with ecological assessment details will be incorporated and submitted in the Final EIA Report.	
7	The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.	The affidavit for EMP will be Incorporated in the final EIA report.	
8	The PP shall carry out the comprehensive studies on the cumulative environmental impacts of the existing & proposed quarries which included drilling & blasting, loading & hauling on the surrounding village and structures.	A comprehensive cumulative impact assessment has been conducted and included in Chapter 4 & 7. Based on the findings, a detailed Environmental Management Plan	

		(EMP) has been formulated, addressing air, water, noise, and soil environments. The details of this plan are provided in Chapter 10.	
9	The PP shall prepare a conceptual working plan accommodating the inclusion of haul road keeping the benches intact, by ensuring the slope stability of the working benches to be constructed and existing quarry wall.	Noted. Agree to comply	
10	The PP shall install the CCTV camera for the continuous surveillance of mining activity & furnish the photographic/videographic evidence along with the EIA report.	CCTV cameras for continuous surveillance of mining activities will be installed, and photographic/videographic evidence of the same will be submitted along with the Final EIA/EMP report.	
2. SEIAA Specific conditions:			
2.1	After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing for the quantity of **1,96,480m^3 of Rough Stone & 23,408m^3 Gravel up to the depth of 42m BGL and the annual peak production shall not exceed 39,380 m^3 of Rough Stone & 17,402 m^3 Gravel** as per the approved mining plan, under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions & the SEIAA Standard conditions.	Noted. Agree to comply.	
3	**SEIAA Standard Conditions**		
3.1.Cluster Management Committee			
1	Cluster management committee shall be framed which must include all the proponents in the cluster as members	There are one existing and one proposed quarry located within 500-metre radius. The proponent will take the	-

	including the existing as well as proposed quarry	initiative to form a cluster management committee once environmental clearance is obtained for this quarry.	
2	The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc.,	Agreed. 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 & 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.	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.	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.		
Agriculture & Agro-Biodiversity			
9	Impact on surrounding agricultural fields around the proposed mining Area.	There are no forest area and agricultural practices within the project area. However, there are some agricultural lands around the project site. It may be affected due to the quarry operation as such dust particles sedimentation in the agricultural land. It will be controlled at the source level by proper dust separation 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 0.5km radius. So, there is no impact for the Agriculture, Forestry, soil located within 10km radius.	
10	Impact on soil flora & vegetation around the project site.	The proposed quarry is a rough stone mining project, and **no topsoil generation is anticipated** as the area is predominantly rocky terrain. Hence, no impact due to topsoil removal is expected. Minor temporary impacts on nearby flora and vegetation may arise from dust generation and vehicle movement during quarry operations, which will be mitigated through regular water sprinkling, controlled mining practices, and greenbelt development. Further, **455**	-

		native tree saplings will be planted along the lease boundary and nearby areas to improve vegetation cover and minimize environmental impacts.	
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 are no standing trees in proposed mine lease area.	-
12	The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.	A detailed assessment of the biodiversity, natural ecosystem, soil microflora, fauna, and soil seed bank within the study area has been carried out and is presented in Chapter 3 (Description of the Environment) and Chapter 4 (Anticipated Environmental Impacts and Mitigation Measures) of the EIA/EMP Report. Appropriate mitigation and conservation measures have been proposed to maintain and protect the natural ecosystem during the mining operations.	106, 130
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.	181
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 the proposed project on the adjoining patta lands, plantations, horticulture, agriculture, and livestock has been assessed and is presented in Chapter 4 (Anticipated Environmental Impacts and Mitigation Measures) of the EIA/EMP Report. The study indicates	130

		that, with the implementation of the proposed mitigation measures, no significant adverse impact is anticipated on the surrounding plantations, horticultural crops, agricultural lands, or livestock.	
Forests			
15	The project proponent shall detailed study on impact of mining on Reserve forests free ranging wildlife.	A detailed study on the impact of the proposed mining project on the nearby Reserve Forests and free-ranging wildlife has been carried out and is presented in Chapter 4 of the EIA/EMP Report. There is no Wildlife Sanctuary, National Park, or other Protected Area within a 10 km radius of the proposed quarry lease area. With the implementation of the proposed mitigation measures, no significant adverse impact on the nearby Reserve Forests or free-ranging wildlife is anticipated.	115
16	The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.	The impact on forests, vegetation, endemic, vulnerable, and endangered indigenous flora and fauna has been assessed and is presented in Chapters 3 and 4 of the EIA/EMP Report. There is no Reserve Forest within a 10 km radius of the proposed quarry lease area, and no significant adverse impact is anticipated.	108
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 such environmentally sensitive areas within a 10 km radius of the proposed quarry lease area. Hence, no significant	-

		adverse impact 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 detailed hydrological report is being prepared and will be incorporated into the final EIA report.	-
20	Erosion Control measures.	There is no waste generation (OB) has been envisaged in this quarry. However, there may be erosion due to rainy season and that is limited within quarry area. The control measures are explained in section 4.2 to 4.5 of Chapter- 4.	130 - 154
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 baseline study details are incorporated in section 3.3, Chapter- 3. Anticipated impacts and its mitigation measures are detailed in section 4.5, Chapter- 4.	85 – 127 150
22	The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.	There is no wastewater generation from this Quarry, so this is not applicable.	-
23	The project proponent shall study and furnish the details on potential fragmentation impact on natural environment, by the activities.	Fragmentation impact on environment may be due to drilling and blasting. The anticipated impacts and mitigation measures are discussed in Chapter- 4.	130 – 154
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 3.3.6 of chapter- 3. • The impacts anticipated with respect to the environment of the project	115

		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 (refer Section 4.2, Chapter- 4).	130
25	The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.	The impact of mining on soil environment has been discussed in section 4.3 under Chapter- 4.	136
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 4.5 of Chapter- 4.	150
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.	There is no wastewater generation from this Quarry, so this is not applicable.	-
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 section 4.5 chapter- 4.	150
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 has been planned. Refer Section 4.3.6, Chapter- 4.	137
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 prepared incorporated in the approved Mining Plan/precise area communication order and the same is incorporated in the Chapters.	177
EMP			
33	Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued and the scope for achieving SDGs.	Complied. The details are described in Chapter- 10.	181
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.	• Green belt development plan is being planned to develop inside the safety zone area of 0.45.5 Ha with 455 Nos of saplings will be planted • For this capital cost of INR 3.46 Lakhs and recurring cost of INR 0.09 Lakhs per annum has been earmarked. • The breakup of the total EMP cost is detailed in Table 10.6 of Chapter 10.	- 186-187
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.	163
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.	176
Others			

37	The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc.	There are no historical places, schools, cemeteries, HT and LT lines, bird sanctuaries, and wildlife sanctuaries within 300 meters of the proposed project area. In this regard, the project proponent has received an official letter from the Village Administrative Officer, Nadanthai North village, The letter copy enclosed as Annexure – 5.	Annexure No-5
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.	Complied. The PP has framed detail solid waste management system for the project area and the same will be executed by proper awareness and sign boards. The sign boards will be in two languages i.e., Vernacular language (Tamil) and common language (English). The plastic waste generation is very negligible and it will be collected from the source level in specific dustbin and disposed through the municipal bins.	-

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.	The proposed project is a fresh quarry proposal. No mining operations have been carried out earlier; therefore, production details since 1994 are not available, and this condition is not applicable.	

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.	The copy of LOI i.e. Precise Area Communication Letter is attached as **Annexure2,**	
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.	
1.4	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).	Project coordinates superimposed in satellite imagery and given as Figure No – 2.2 in Chapter – 2. The geology and geomorphology map are provided in Figure No.3.24 3.25 Chapter 3.	59,84,122,124
1.5	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.	The details are incorporated in chapter 3	84
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.	The applied area is inspected by the VAO, Revenue Inspector of Mines, Assistant Director and confirmed the land is suitable for Rough stone quarrying operation with the land use policy of the state. VAO Certificate is attached as **Annexure 5,**	
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	Environment policy details given chapter- 10.	185

	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.	It is an open cast mining project. Blasting details are incorporated in **Chapter-2**	73
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 comprises a 10 km radius from the lease boundary. The baseline environmental data have been collected within the study area, and all project-related details, including waste generation, production, environmental impacts, and mitigation measures, have been assessed for the entire lease period. The details are presented in the respective chapters of the EIA/EMP Report.	
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 the lease area and the details of land use is given in Chapter 3.	88
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	There is no proposal for use of land outside the mine lease area for OB dumps, etc. There are no R&R issues involved in the project.	
1.12	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	No forest land involved in the project.	

	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.	Not applicable since no forest land involved within mine lease area.	
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 since no forest land involved in mine lease area.	
1.15	The vegetation in the RF / PF areas in the study area, with necessary details, should be given.	There is no Reserve Forest / Sanctuaries located within 10km radius of the study area.	83
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.	Impact on Biological Environment is given in Chapter 4	106
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	• There is no Reserve Forest / Sanctuaries located within 10km radius of the study area.	83

	obtained from the Standing Committee of National Board of Wildlife and 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 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.	Details biological study (flora & fauna) within 10 km radius of the project site have been incorporated in **Chapter 3**	106
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 Department should be secured and furnished to the effect that the proposed mining activities could be considered.	There is no critically polluted area within 10 km radius of the mining area. Also, the project does not come under the 'Aravali Range'.	
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 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).	The project does not fall under CRZ.	
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	There is no Rehabilitation and resettlement is involved. Land classified as Patta land	

	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	Baseline environmental monitoring was conducted in the core zone and buffer zone during summer **March 2026 to May 2026.** Site specific meteorological data was also collected during the study period. The monitoring location details and the monitoring results are discussed in **Chapter 3**.	84
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	Air quality modeling was carried out for the rough stone mining project using AERMOD as incorporated in **Chapter-4**	137

	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.	Water requirement for the project and source is given in detail in **in Chapter 2**	66
1.25	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.	Not Applicable Water will be taken from out sources	
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.	Proposed water conservation measures including rainwater harvesting measures are discussed in **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.	Impact of the project on the surface and ground water environment and necessary control measures are discussed in **Chapter 4**	132
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.	The detailed hydrological report is being prepared and will be incorporated into the final EIA report.	
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.	There is no seasonal stream or nallah flowing through the mining area.	
1.30	Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A	Highest elevation: 220 AMSL Depth: 42m BGL	

	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.	There are no trees within ML area. Fencing and plantations are under process. Greenbelt / Plantation will be carried out in the safety zone to enhance the vegetative growth and aesthetic in the safety zone area. In the post mining stage, an area of 0.45.5 Ha will be under greenbelt and plantation.	
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.	Traffic study details in chapter 7	175
1.33	Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.	Details of onsite facilities to be provided	
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.	Conceptual Plan and Section of the mine lease area is given in chapter-2	77

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.	Details of anticipated occupational health impacts and proposed preventive measures are discussed in **Chapter 4**	152
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	No major impact on public health will be there since the villages are located more than 1km from the lease area.	
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.	Details of CER and CSR are discussed under Chapter No. 8	179
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 for the project is discussed in detail in **Chapter 9**.	
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	The public hearing comments will be submitted during final EIA 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.	Project Cost – Rs. 64.46 Lakhs EMP Cost – 24.14 Lakhs CER Cost – 5.00 Lakhs	

1.42	A Disaster management Plan shall be prepared and included in the EIA/EMP Report.	Disaster Management Plan is included in **Chapter 7**	176
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.	The Project benefits are clearly spelt out in **Chapter 8**.	178
1.44	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. J11013/41/2006-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	All general are followed while preparing EIA/EMP.	

	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. 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.		

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.

Tmt. M. Raziya has obtained Precise Area communication letter from the Assistant Director, Department of Geology and Mining, Karur to quarry out Mineable reserves of 1,96,480 m^3 of Rough Stone and 23,408 m^3 of Gravel up to 42m BGL located at the S.F. No. 85/2 in Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu State. Hence, this proposed quarry falls under the cluster situation due to the following proposed and abandoned quarries located within 500m radius. The details are given below.

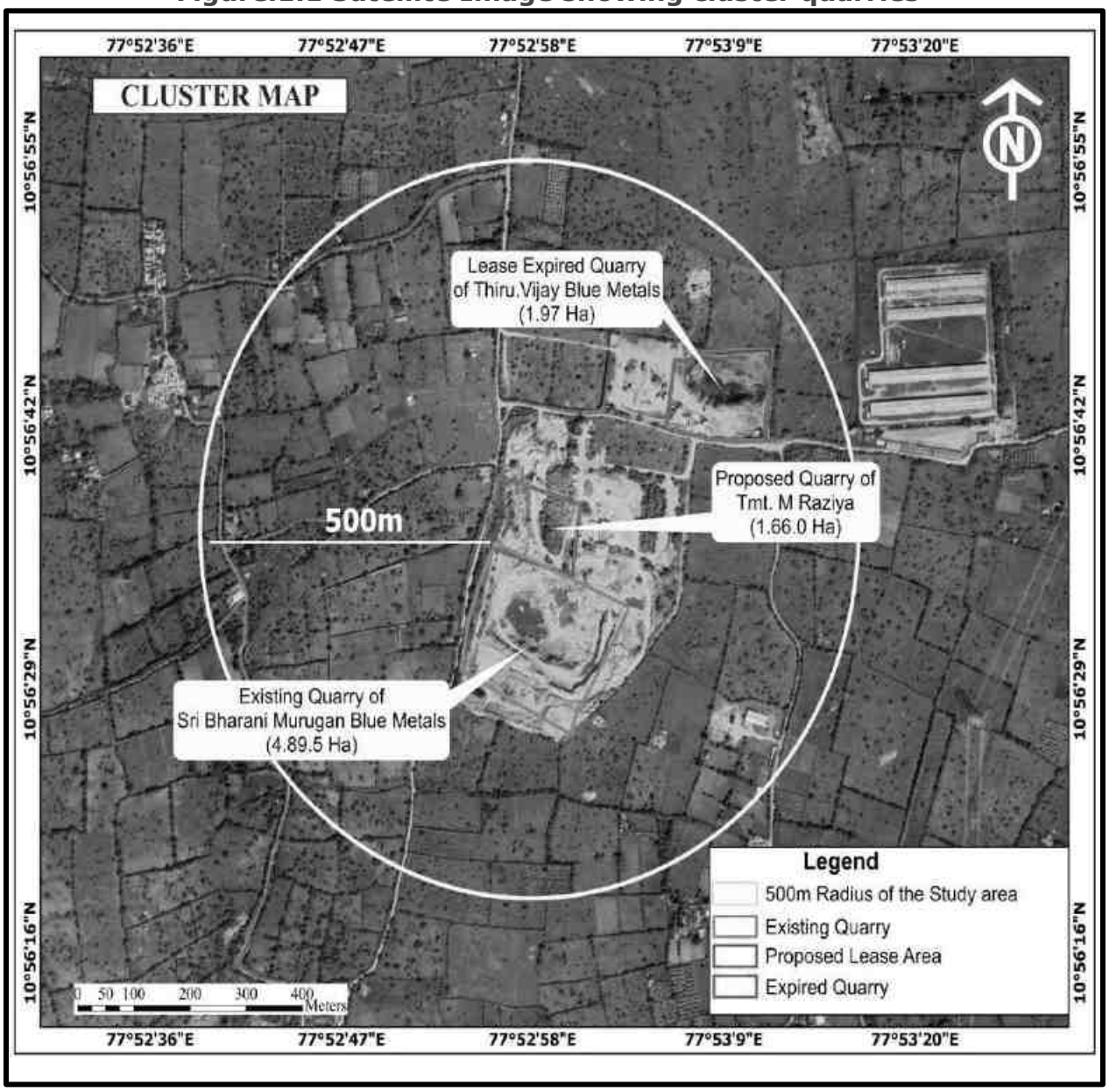
Table 1.1 CLUSTER MINES DETAILS

S. No	Name of the quarry owner	S. F. Nos	Village	Lease Period	Area
a. Existing Quarry					
1	Sri Bharani Murugan Blue Metals, S.F.No.85 K.Paramathi, Nadanthai North & Post, Aravakurichi Taluk, Karur District.	81/1Part 82/2Part 83/1Part 83/2Part 83/3Part 85 Part 87/1Part 87/2Part 88/1Part 88/2Part	Nadanthai North Village	04.03.2022 to 03.03.2027 (SEIAA File No.8316)	4.89.5 Ha
b. Proposed Quarry					

2	Tmt.M.Raziya, W/o. Mohammed, Favourit House, Marayur, Mongam, Malappuram, Ernad, Kerala	85/2	Nadanthai North Village	Proposed	1.66.0 Ha
c. Lease Expired Quarry					
3	Vijay Blue Metals, Nallipalayam, Nadanthai Post, K.Paramathi Via, Aravakurichi Taluk, Karur District	491/1B 493/4B	K.Paramathi Village	17.05.2007 to 16.05.2012	1.97.0 Ha
d. Abandoned Quarry -Nil					
Total Area of Cluster					**6.55.5 Ha**

As per EIA notification, 2006 and its subsequent amendments the proposed Tmt. M. Raziya Rough Stone & Gravel Quarry, cluster falls under Schedule 1(a) Mining of Minerals. It is further classified under Category B1 due to the overall extent of cluster area is 6.55.5 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. TO26B0108TN5540061N, dated 15/06/2026. This report has been prepared in line with the approved TOR for production of maximum excavation of 1,96,480 m^3 (29.34%) of Rough stone and 23,408 m^3 (69.91%) of Gravel up to the depth of 42m BGL for a period of five years.

1.2 IDENTIFICATION OF PROJECT & PROJECT PROPONENT

The proposed project is for mining of Rough Stone and gravel (under cluster) from the S.F. No. 85/2 over an area of 1.66.0 Ha in Nadanthai North Village, Aravakurichi Taluk, Karur 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	Fresh Quarry
5.	Extent of the lease	1.66.0 Ha
6.	Proposed depth of mining	42m BGL
7.	Method of mining	Opencast Semi-mechanized.
8.	Proposed lease period	5 Years
9.	Proposed Environmental Clearance	5 Years
10.	Mineable reserves (upto 42m BGL) (Quantity in m^3)	1,96,480 m^3 of Rough Stone 23,408 m^3 of Gravel
11.	Proposed production quantity for five years (upto 42m BGL)	1,96,480 m^3 of Rough Stone 23,408 m^3 of Gravel

(b) Profile of the project proponent

The proposed Tmt. M. Raziya with sound experience in the identification of quarry, operation and marketing in the field of Rough Stone and gravel quarry. The proposed land is owned Patta land, please refer **Annexure no –6.**

(c) Project proponent details

Name of the proponent : Tmt. M. Raziya

Address TMT. M. Raziya

W/o. Mohammed,
Favourit House, Morayur, Mongam,
Malappuram, Ernad, Kerala.
Pincode - 673 642.

1.3 BRIEF DESCRIPTION OF NATURE, SIZE, LOCATION OF THE PROJECT AND ITS IMPORTANCE TO THE COUNTRY, REGION:

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.

SIZE AND LOCATION OF THE PROJECT

(a) Size of the project

Table 1.2 Proposed project details

Sl. No.	Feature	Description
1	Type of land	Owned Patta land
2	Extent of lease area	1.66.0 Ha
3	Type of lease	Fresh Quarry
4	Geological Resource	Rough Stone – 6,69,600 m^3 Gravel - 33,480 m^3
5	Mineable reserves (upto 42m BGL) (Quantity in m^3)	1,96,480 m^3 of Rough Stone 23,408 m^3 of Gravel
6	Proposed production quantity for first five years (upto 42m BGL)	1,96,480 m^3 of Rough Stone 23,408 m^3 of Gravel
7	Proposed depth of mining	42m BGL

(b) Location of the project

The proposed project site is located in Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu State and its Latitude: 10°56'34.57"N to 10°56'39.51"N and Longitude: 77°52'55.14"E to 77°53'00.74"E with Survey of India Topo Sheet No. 58- F/13.

1.3.1 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 -DETAILS OF REGULATORY SCOPING CARRIED OUT (AS PER TERMS OF REFERENCE):

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. TO26B0108TN5540061N, dated 15.06.2026 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 (March 2026 – May 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 Mar 2026 to May 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 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 letter received from the District Collector, Department of Geology and Mining, Karur, vide Rc.No.22/Kanimam/2026, dated 05.03.2026. **The letter copy enclosed as Annexure – 1**

b. Mining Plan Approval Letter:

The project proponent has prepared a Mining Plan under rule 8, 41 & 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 and the same has been approved by the Assistant Director, Department of Geology and Mining, Karur, vide Rc.No.22/Mines/2026, dated 12.03.2026. The approval letter along with approved plan is enclosed as **Annexure – 2.**

c. 500m radius quarry features:

The project proponent has obtained an official letter from the Assistant Director, Department of Geology and Mining, Karur, vide Rc.No.22/Mines/2026, dated 23.03.2026. **The letter copy enclosed as Annexure - 3.**

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

There are no historical places, schools, cemeteries, temples, bird sanctuaries, and wildlife sanctuaries within 300 metres of the proposed project area. In this regard, the project proponent has received an official letter from the Village Administrative Officer, Nadanthai North village, dated Nil**. The letter copy enclosed as Annexure – 4.**

e. Land document of the proposed lease area:

It is patta land. The copy of the patta, Adangal and A-Register are enclosed as **Annexure-**6**.**

CHAPTER 2

PROJECT DESCRIPTION

2.1 TYPE OF PROJECT

The type of the project is Opencast Mechanized Mining to excavate Rough Stone and Gravel within the proposed Mine Lease area with drilling, blasting, loading and transportation. This project is located at S.F. No. 85/2 over an extent of 1.66.0 Ha in Nadanthai North Village, Aravakurichi Taluk, Karur 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), considering cluster situation and the total cluster area is 6.55.50 Ha. The details of mines located in the cluster area is certified by Assistant Director, Department of Geology and Mining, Karur, vide Rc.No.22/Mines/2026, dated 23.03.2026

S. No	Name of the quarry owner	S. F. Nos	Village	Lease Period	Area
a. Existing Quarry					
1	Sri Bharani Murugan Blue Metals, S.F.No.85 K.Paramathi, Nadanthai North & Post, Aravakurichi Taluk, Karur District.	81/1Part 82/2Part 83/1Part 83/2Part 83/3Part 85 Part 87/1Part 87/2Part 88/1Part 88/2Part	Nadanthai North Village	04.03.2022 to 03.03.2027 (SEIAA File No.8316)	4.89.5 Ha
b. Proposed Quarry					
2	Tmt.M.Raziya, W/o. Mohammed, Favourit House, Marayur, Mongam, Malappuram, Ernad, Kerala	85/2	Nadanthai North Village	Proposed	1.66.0 Ha

c. Lease Expired Quarry					
3	Vijay Blue Metals, Nallipalayam, Nadanthai Post, K.Paramathi Via, Aravakurichi Taluk, Karur District	491/1B 493/4B	K.Paramathi Village	17.05.2007 to 16.05.2012	1.97.0 Ha
d. Abandoned Quarry -Nil					
Total Area of Cluster					**6.55.5 Ha**

The total lease within the 500m radius (Proposed + Existing) (1 no. + 1 no.) works out to 6.55.50 Ha, including this lease area. As such, the cluster situation TOR is applicable for this project.

2.2 NEED FOR THE PROJECT

The need of the proposed Rough Stone and Gravel quarry of Tmt. M. Raziya

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	Proposed Fresh Quarry
3	Category	B1
5	Life of the mine	05 years
6	Geological reserves (upto 42m BGL)	Rough Stone – 6,69,600 m^3 Gravel - 33,480 m^3
7	Mineable reserves (upto 42m BGL)	1,96,480 m^3 of Rough Stone 23,408 m^3 of Gravel
8	Proposed production quantity for five years (upto 42m BGL)	1,96,480 m^3 of Rough Stone 23,408 m^3 of Gravel
9	Waste generation and management	Nil
10	Bench height and width	Proposed bench height & width is 5.0m respectively and number of proposed benches is 9 Nos.
11	Ultimate pit depth	42 m BGL

12	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 Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu State. The Nearest Railway station is Kodumudi Railway Station (14.6km, N). The nearest National Highway is (NH-81) Karur – Coimbatore– 2.1km (N). The nearest State Highway is (SH-21) Karur – Dharapuram – 8.8km (SE). The general location is given in Figure 2.1. The specific location is given in Figure 2.2.

FIGURE 2.1 LOCATION MAP

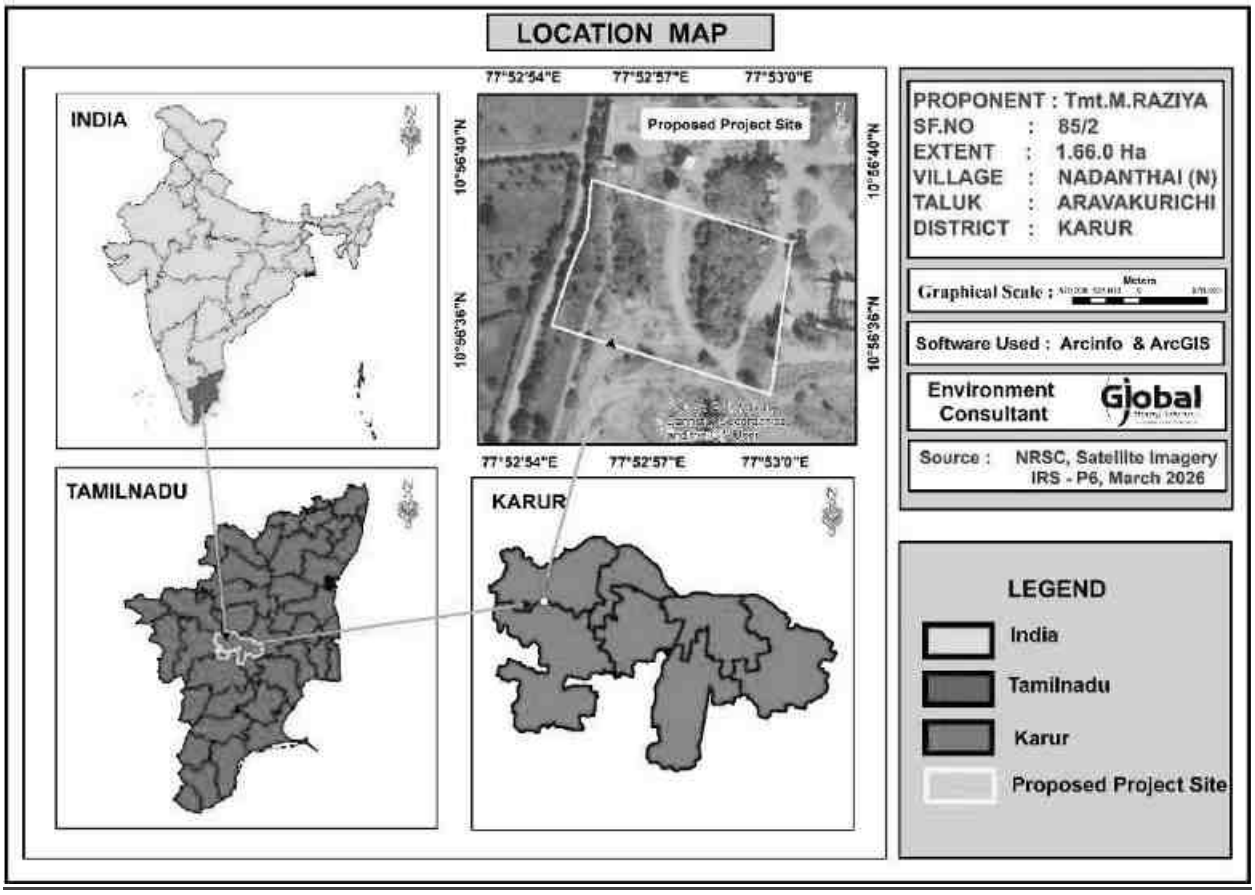


Table 2.2 Co-Ordinates of the Project Site			
Corners	Co- ordinates		Distance between the corners
	Latitude	Longitude	
1	10° 56' 36.11"N	77° 52' 55.14"E	1-2 = 42.6m
2	10° 56' 37.43"N	77° 52' 55.56"E	2-3 = 30.8m
3	10° 56' 38.36"N	77° 52' 55.94"E	3-4 = 35.4m
4	10° 56' 39.51"N	77° 52' 56.04"E	4-5 = 149.4m
5	10° 56' 38.10"N	77° 53' 00.74"E	5-6 = 109.4m
6	10° 56' 34.57"N	77° 53' 00.29"E	6-1 = 163.6m

FIGURE 2.2 GOOGLE IMAGE SHOWING PROJECT SITE

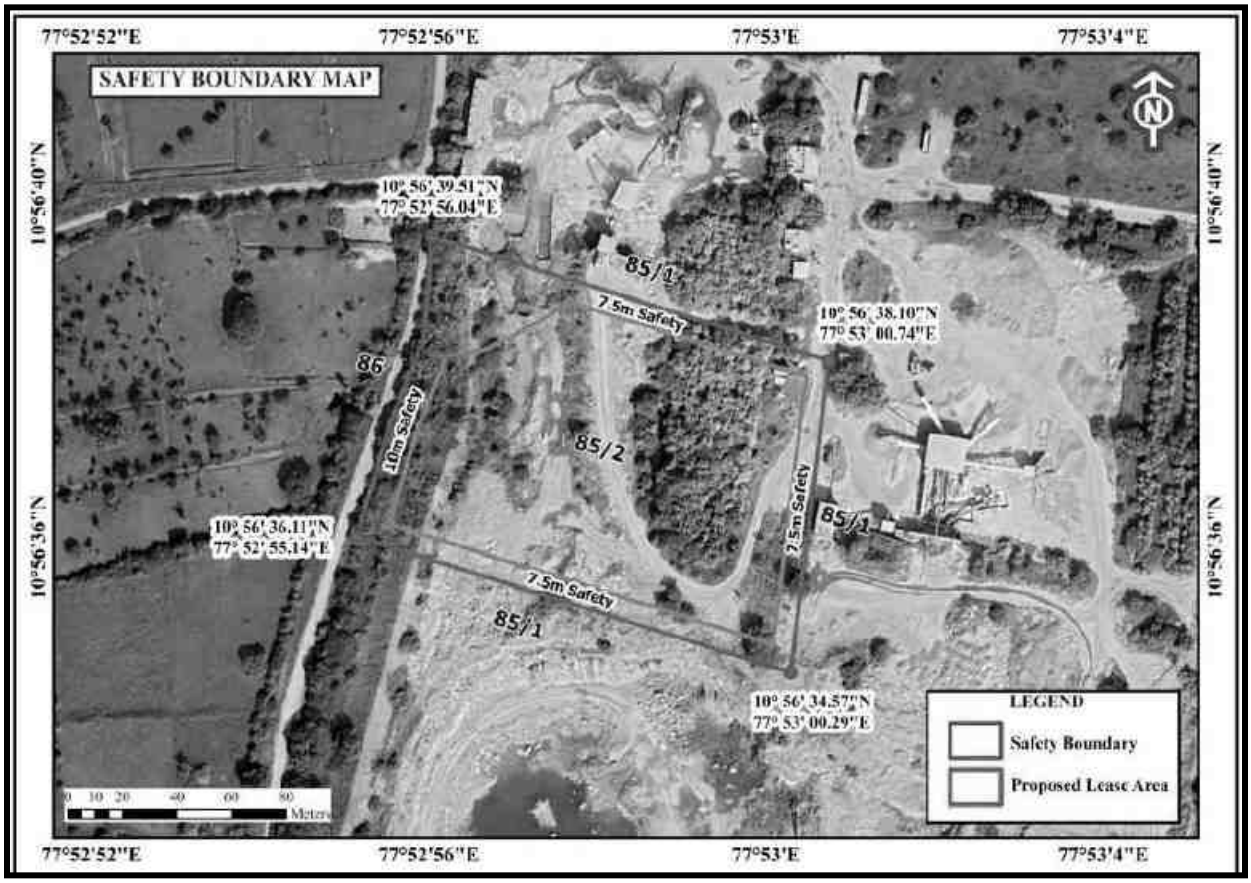


FIGURE 2.3 SURFACE PLAN OF THE PROJECT AREA

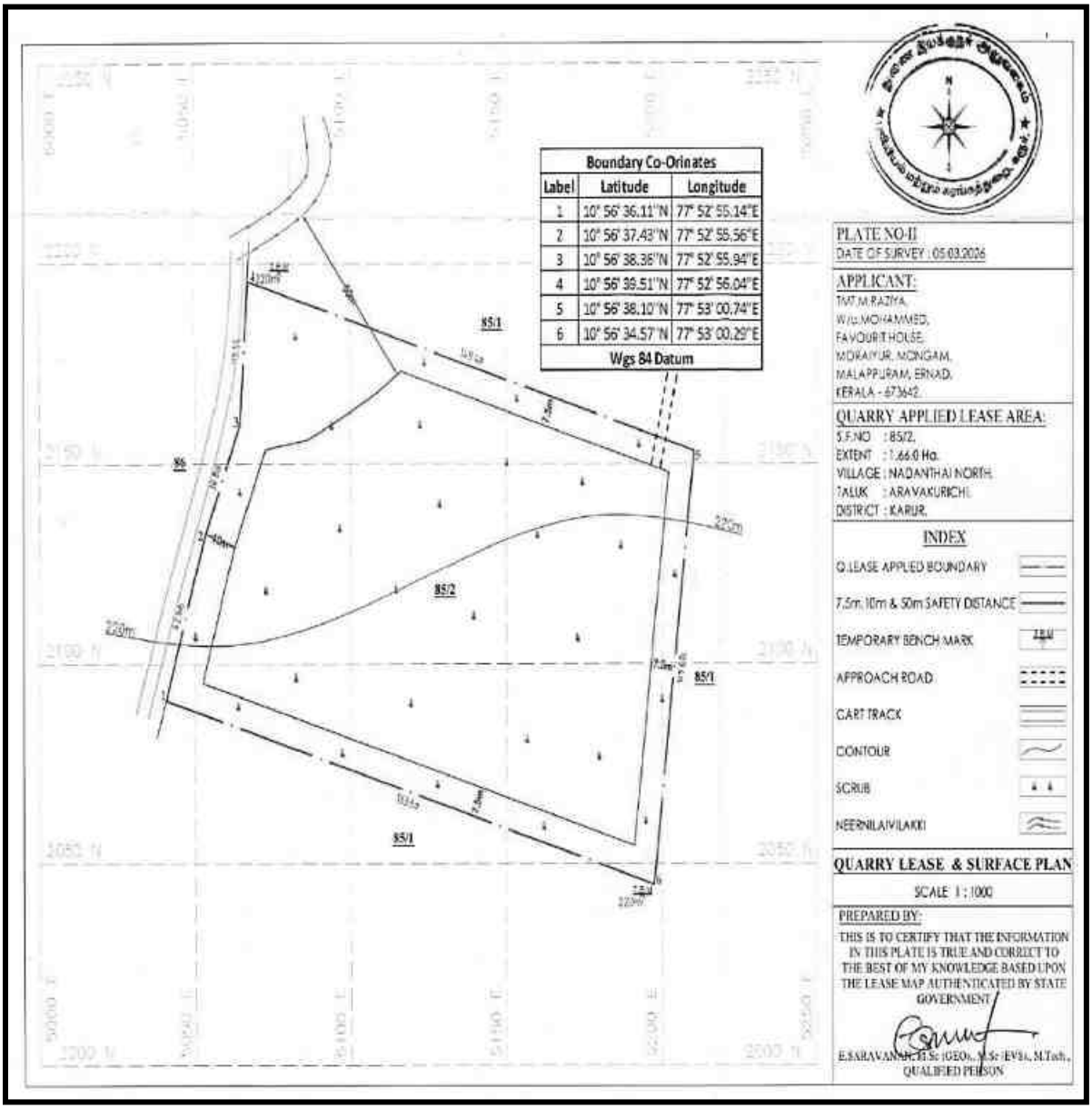
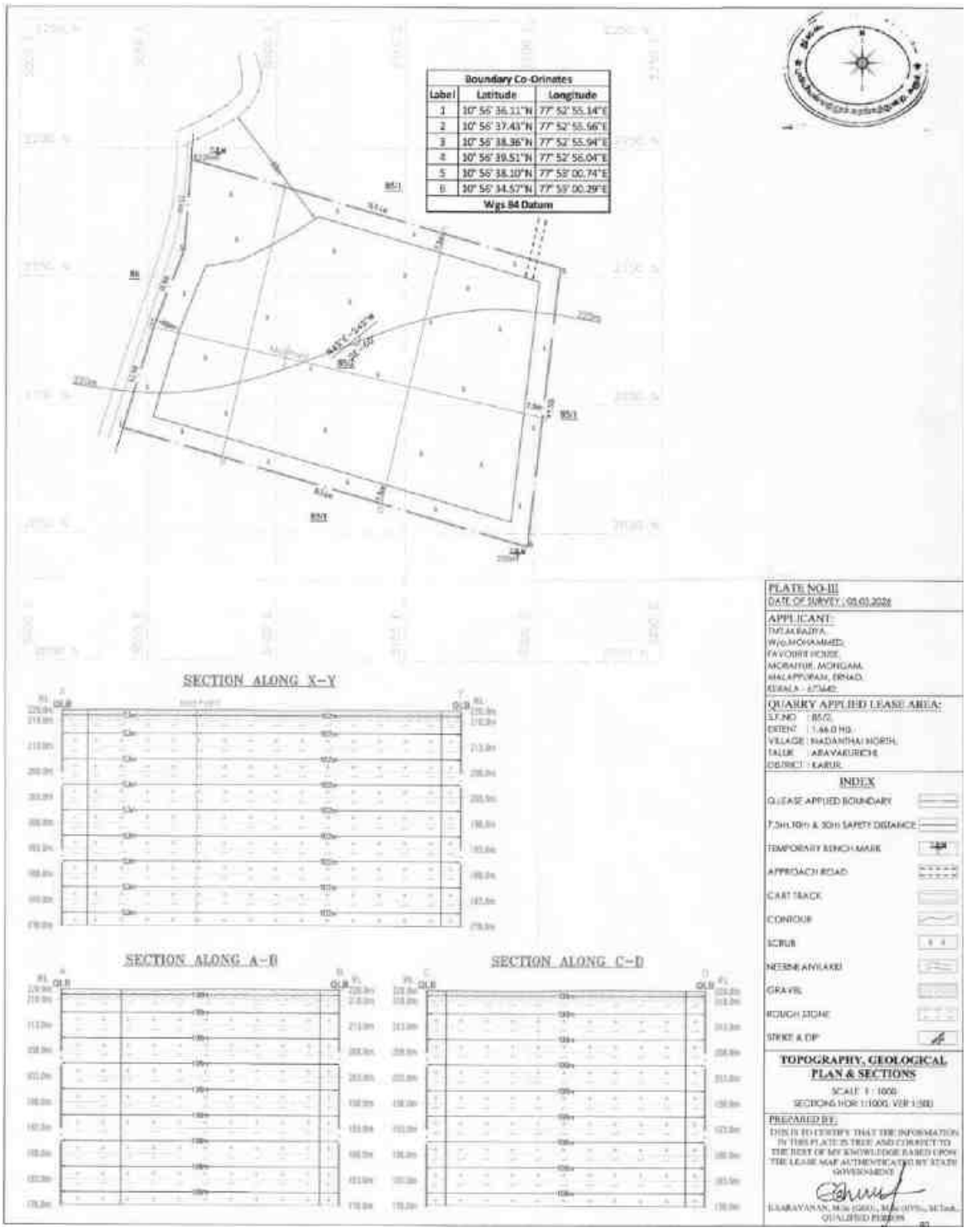


FIGURE - 2.4 GEOLOGY MAP OF PROJECT AREA



2.3.1 LAND USE OF THE PROJECT AREA

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 (Hect)	Area in use during the quarrying period (Hect)
1	Quarrying Pit	Nil	1.18.5
2	Infrastructure	Nil	0.01.0
3	Roads (Temporary)	Nil	0.01.0
4	Green Belt	Nil	0.45.5
5	Unutilized	1.66.0	Nil
	Total	**1.66.0**	**1.66.0**

2.3.2 LAND USE AT MINE CLOSURE STAGE

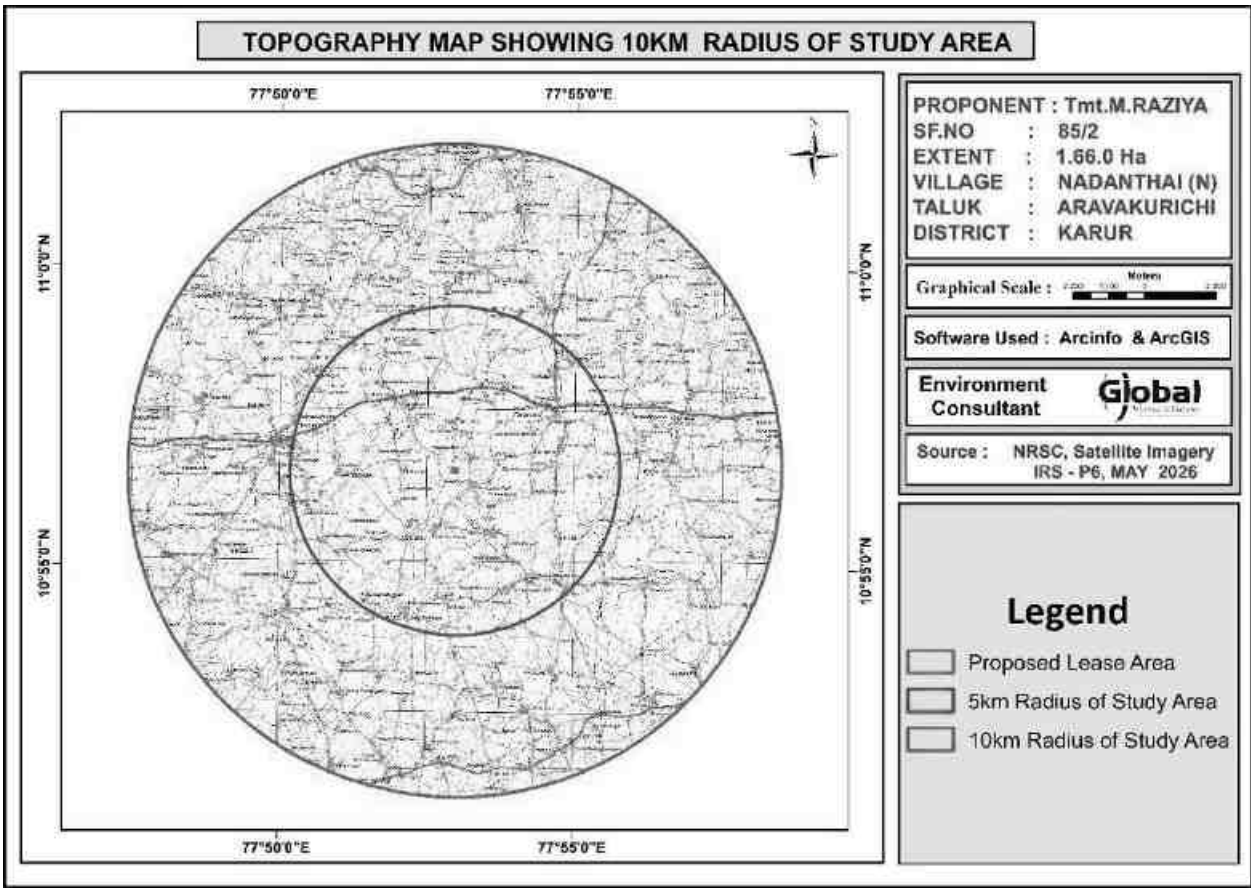
Table 2.4 Land Use at Mine Closure Stage

S. No.	Land Use	Area in use during the quarrying period (Hect)
1	Area left for water body	1.18.5
2	Green Belt	0.45.5
3	Remaining area	0.02.0
Total		**1.66.0**

2.3.3 SALIENT FEATURES OF THE LEASE AREA

Sr.No	Salient Features	Description
1	Nearest Highway	• (NH-81) Karur – Coimbatore– 2.1km (N) • (SH-21) Karur – Dharapuram – 8.8km (SE)
2	Nearest Village	K.Paramathi – 3.2km (NE)
3	Nearest Railway station	Kodumudi Railway Station (14.6km, N)
4	Nearest Airport	Coimbatore International Airport (92.6 km, NW)

Figure 2.5 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 1,96,480 Cu.m and 23,408 Cu.m Gravel by Opencast Semi-Mechanized mining method. Available Geological Resources of Rough stone 6,69,600 Cu.m and Gravel 33,480 Cu.m. Cost of the project is Rs. 64.46 Lakh excluding CER and EMP Cost. Capital cost for EMP is Rs. 13.14 lakhs and recurring cost for the EMP is Rs. 11.00 Lakh/Annum.

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, Karur, vide Rc.No.22/Mines/2026, dated 12.03.2026
2	Environment Clearance Status	ToR Letter Received vide file no TO26B0108TN5540061N dated 15.06.2026
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	Jan 2027	Feb 2027	Mar 2027	Apr 2027
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 10.04.2026, ToR was granted on 15.06.2026. Baseline data Collection during Summer Season (March to May 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, Department of Geology and Mining, Karur, vide Letter Rc.No.22/Mines/2026, dated 12.03.2026.

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 4.2 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 2.6 WATER BALANCE DIAGRAM

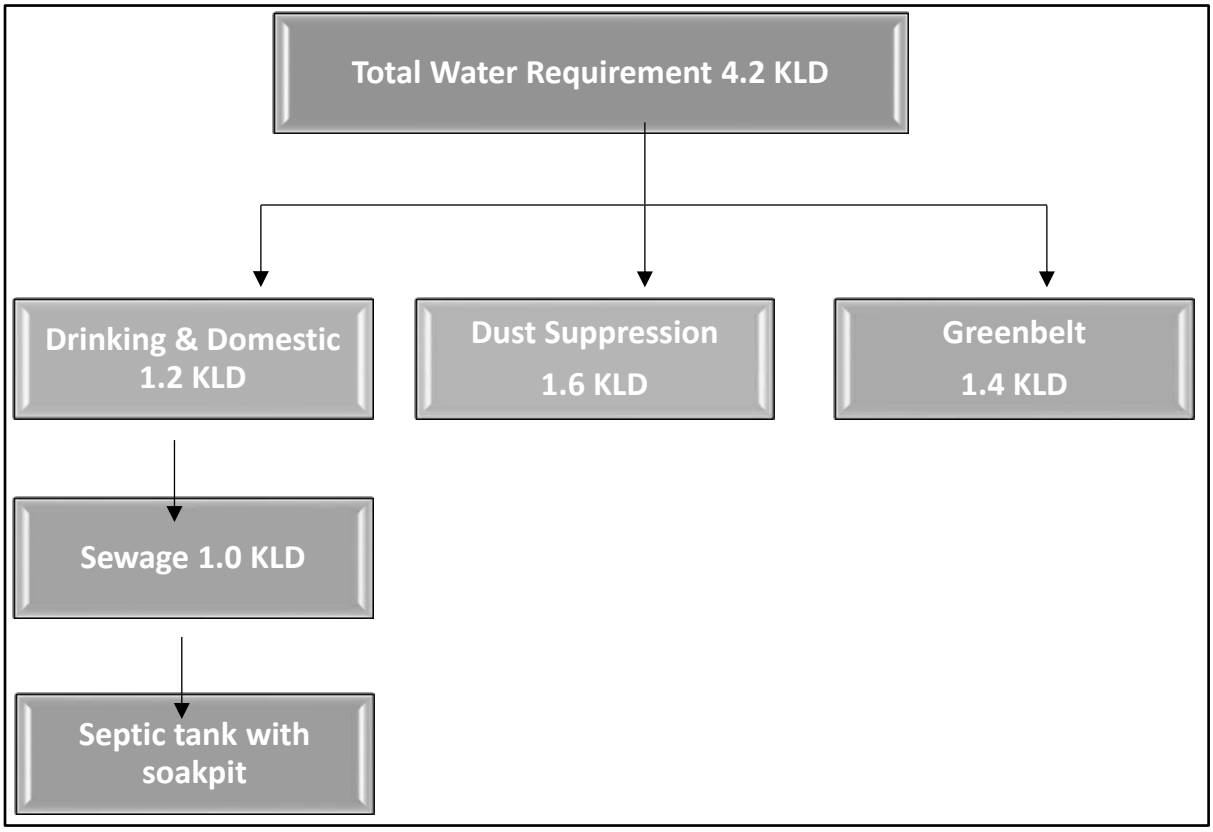


Table - 2.7 Water Requirement

S. No	Particular	Water Requirement (KLD)
1	Dust suppression	1.6
2	Drinking/Domestic	1.2
3	Greenbelt/Plantation	1.4
Total		4.2

2.6.3 POWER REQUIREMENT

Total Fuel requirement is 161.085 KL for entire life of the project. Power will be used only in the office building.

2.6.4 MAN POWER REQUIREMENT

Total Manpower requirement will be 27 persons which out of which 12 persons (Mines manager, Foreman, Mining Mate, etc.,) and other are drivers and workman's categories. Beside this, 15 workmen will be drivers and workmen. Preference will be given to the locals as per their eligibility.

S.No	Description	Employment potential
1	Mines Manager	1 No.
2	Foreman / Mate	2 Nos.
3	Operator	8 Nos.
4	Mechanic	1 No.
5	Driver	3 Nos.
6	Labours	12 Nos
	Total	**27 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	3
2.	Compressor	1 psi	Diesel drive	1
3.	Excavator with Bucket and Rock Breaker	0.90 m^3	Diesel drive	1
4.	Tippers	5/10 Ts	Diesel drive	3

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 and Gravel in the ML area.

2.6.6 GEOLOGY AND TOPOGRAPHY

Topography

The mine lease area of 1.66.0 Ha is covered in the Survey of India Toposheet 58 F/13 and is bounded by Latitude: 10°56'34.57"N to 10°56'39.51"N and Longitude: 77°52'55.14"E to 77°53'00.74"E. No major river is found nearby the lease applied area. Water table is found at a depth of 68 m. Temperature of the area is reported to be 19^0 C to a maximum of 42^0 C during summer. Rainfall of this area is about 652mm 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.

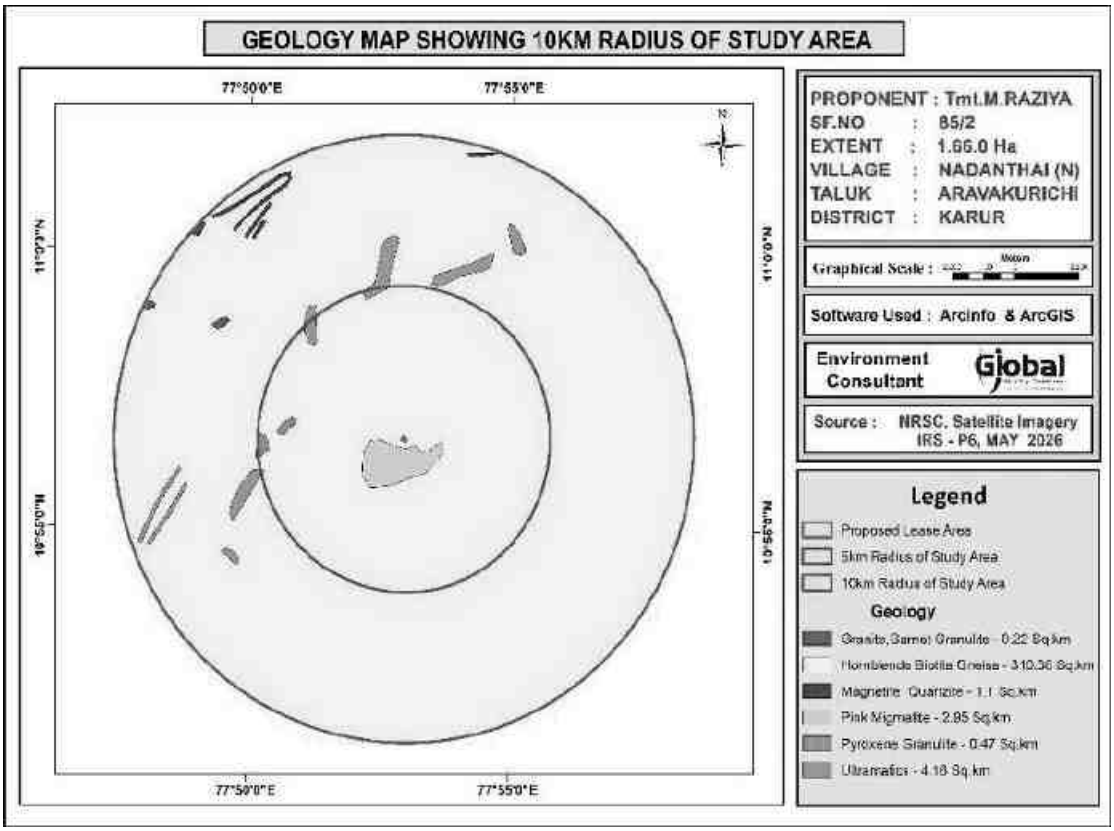
The elevation of the proposed quarry is 220 m (maximum) from MSL. There is no forest land in the mine lease area. The project site is dry land which is not fit for any cropping.

2.6.7 Regional Geology

The Core and 10 Km buffered zone geological features (Figure 2.28) shows that the Karur District forms part of the Archean complex of penisular gneiss. The general rock types of this area are Charnockite, Biotite gneiss, Migmatites and Anorthosites. Karur District is blessed with good reserves of Crystalline Limestone known as "Palayam belt" in Varavanai, Thennilai, Gudalur etc., villages in Kulithalai Taluk and the occurrences of good quality of pegmatite veins constituting with glassy Quartz and potash Feldspar in lensoid patches in Nagampalli and Pungambadi areas in Aravakurichi Taluk. The major mineral such as Limestone, Quartz and Feldspar and Magnesite and Duniteare exploited in Karur District and utilized in the mineral based industries. The Charnockite and Granite Gneiss rocks are found to occur in K.Paramathi, Athur, Thennilai, Punnam, Kuppam, Munnur, Karudayampalayam, Anjur villages in Karur and Aravakurichi Taluk are exploited to produce building materials and road metal (Jelly) and over burden soil appear as gray to reddish in colour called as graval.

Geologically, the entire district can be classified into hard rock and sedimentary formations. Hard rock Formation: - More than 90 percent of the district is underlain by hard rock of Archaean age. The gneissic type of Formation is the major formation among the various types of hard rocks. Charnockite occurs in this district as pockets in Karur and Aravakurichi taluks. Quartzites which are resistant to weathering are also seen as patches in Charnockite and gneissic varieties. Sedimentary Formation: - Recent alluvial deposits such as sand, silt, clay, gravel etc. which are transported sediments by river are found one other side of Cauvery river in Karur, Krishnarayapuram and Kulithalai blocks. These formations are overlying the hard rock *(Source – District Survey Report, Karur).*

FIGURE 2.7 REGIONAL GEOLOGY MAP-10 Km RADIUS FROM PROJECT AREA



2.6.8 Local Geology

The area is underlain by the wide range of metamorphic rocks of peninsular gneissic complex. These rocks are extensively weathered and overlain by the recent valley

fills and alluvium at places. The geological formations found in the district are Archaean rocks like Gneisses, Granites, Charnockites basic granulites and calc-gneisses. The younger formations are Quartz veins and pegmatite.

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

The strike of the Charnockite formation is N80^{0}W –S80^{0}E with dipping towards NE80^0.

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

	Age		Rock Type
↑	Recent	-	Gravelly soil
	Unconformity		
	Archaean		Dolerite dyke, Charnockite
		-	Peninsular Gneissic complex and Calc Gneiss

2.7 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

PROPOSED METHOD OF MINING

Opencast mechanized method with 5.0 m height 5.0m width and overall, 45^0 slope of the bench. It is proposed to excavate 1,96,480 Cu.m of Rough Stone and 23,408 Cu.m Gravel. 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 45^0 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 March 2027.

DRILLING & BLASTING

Drilling will be done up to maximum depth of 42 m 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 6-7 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 2.9.

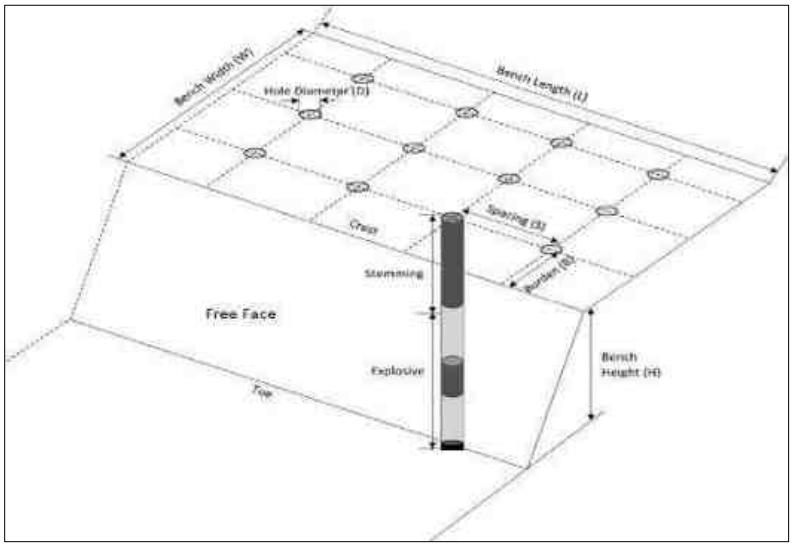


FIGURE 2.8 BLASTING PATTERN

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 (10MT) capacity of 3 nos will be used.

FIGURE 2.9 FLOW CHART OF THE QUARRY OPERATION

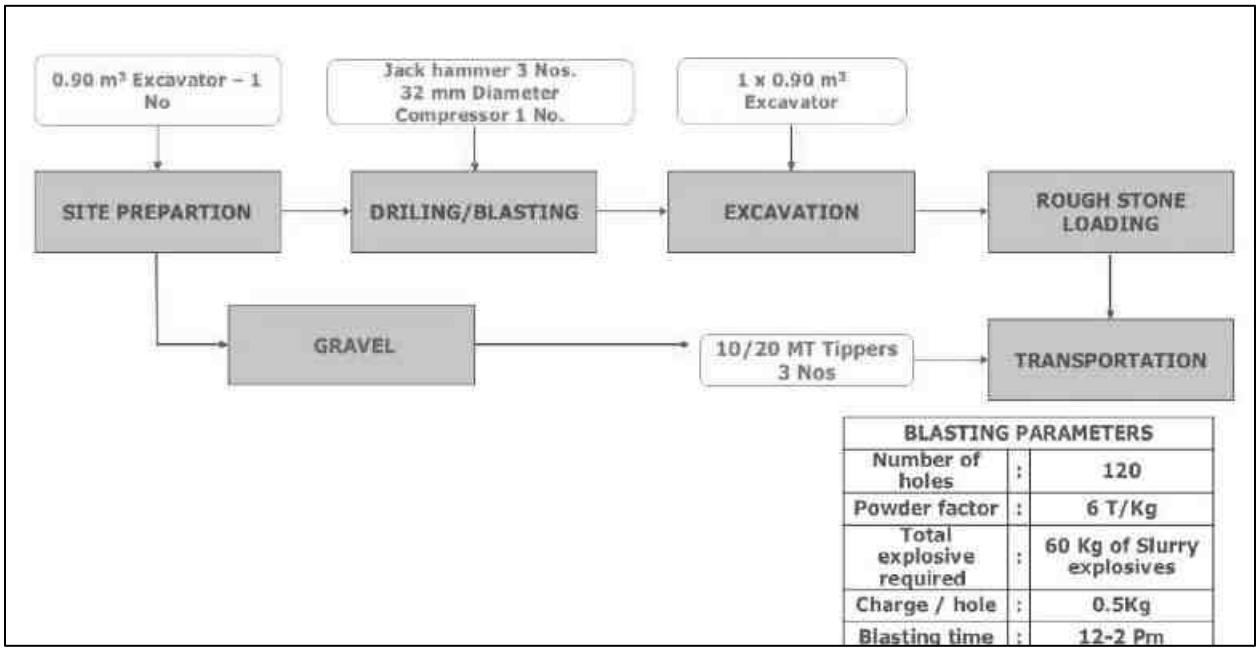


TABLE - 2.9 MINING DETAILS

Sl. No	Description	Details	Remarks
1.	Method of Mining	Opencast method of Semi 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 5/10T tippers will be used for the Hauling.	Excavator - 1 No. Tippers - 3 Nos.
2.	Mineral Use	The excavated Rough Stone will be used for construction industries for Government & Public sector projects besides catering for domestic housing and infrastructure projects in and around the district.	-
3.	Proposed Depth of mining for the first five years	42m (BGL)	The water table in the area is around 85m BGL
4.	Proposed Production quantity	**Proposed production quantity for first five years (upto 42m BGL)** 1,96,480 Cu.m of Rough Stone, 23,408 Cu.m of gravel	05 years
5.	Safety Zone	Out of 1.66.0 Ha, 0.45.5 Ha will be maintained as a Safety Zone during mining operations.	Around 455 nos. of saplings will be planted in this safe area.
6.	Water requirement	4.2 KLD	Procured by the outside water.
7.	Energy requirement	161.085 KL of HSD (Entire Project Life)	All the equipment will be diesel-operated. No electricity is needed for mining operations.
8.	Manpower	Total manpower	This project will give employment opportunities to 27 people.

9.	Shift	General Shift	8.00 AM – 5.00 PM
10.	Project Cost	Rs. 64.46 Lakhs	Including Fixed Asset + Operational cost (Excluding CER cost and EMP Cost)
11.	EMP Cost	24.14 Lakhs	5 years
12.	CER Cost	Rs. 5.0 Lakhs.	The amount will be utilized for the development of Panchayat Union Elementary School, K. Paramathi.

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)	Gravel in m^3	Rough stone in m^3	Bulk Density	Gravel in (Ts)	Mineable Reserves of Rough stone in (Ts)
I	XY-AB	I	42	75	2	6300	-	2	12600.00	-
		II	39	69	5	-	13455	2.75	-	37001.25
	XY-CD	I	61	91	2	11102	-	2	22204.00	-
		II	61	85	5	-	25925	2.75	-	71293.75
Total						**17402**	**39380**	**-**	**34804.00**	**108295.00**
II	XY-CD	I	33	91	2	6006	-	2	12012.00	-
		II	30	85	5	-	12750	2.75	-	35062.50
		III	71	75	5	-	26625	2.75	-	73218.75
Total						**6006**	**39375**	**-**	**12012.00**	**108281.25**
III	XY-CD	III	15	75	5	-	5625	2.75	-	15468.75
		IV	51	65	5	-	16575	2.75	-	45581.25
	XY-AB	III	34	59	5	-	10030	2.75	-	27582.50
		IV	29	49	5	-	7105	2.75	-	19538.75
Total						**-**	**39335**	**-**	**-**	**108171.25**
IV	XY-CD	IV	30	65	5	-	9750	2.75	-	26812.50
		V	76	55	5	-	20900	2.75	-	57475.00

		VI	5	45	5	-	1125	2.75	-	3093.75
	XY-AB	V	24	39	5	-	4680	2.75	-	12870.00
		VI	19	29	5	-	2755	2.75	-	7576.25
Total						**-**	**39210**	**-**	**-**	**107827.50**
V	XY-CD	VI	66	45	5	-	14850	2.75	-	40837.50
		VII	66	35	5	-	11550	2.75	-	31762.50
		VIII	61	25	5	-	7625	2.75	-	20968.75
		IX	51	15	5	-	3825	2.75	-	10518.75
	XY-AB	VII	14	19	5	-	1330	2.75	-	3657.50
Total						**-**	**39180**	**-**	**-**	**107745.00**
Grand Total						**23408**	**196480**	**-**	**46816.00**	**540320.00**

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 2.11 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	136	87	42

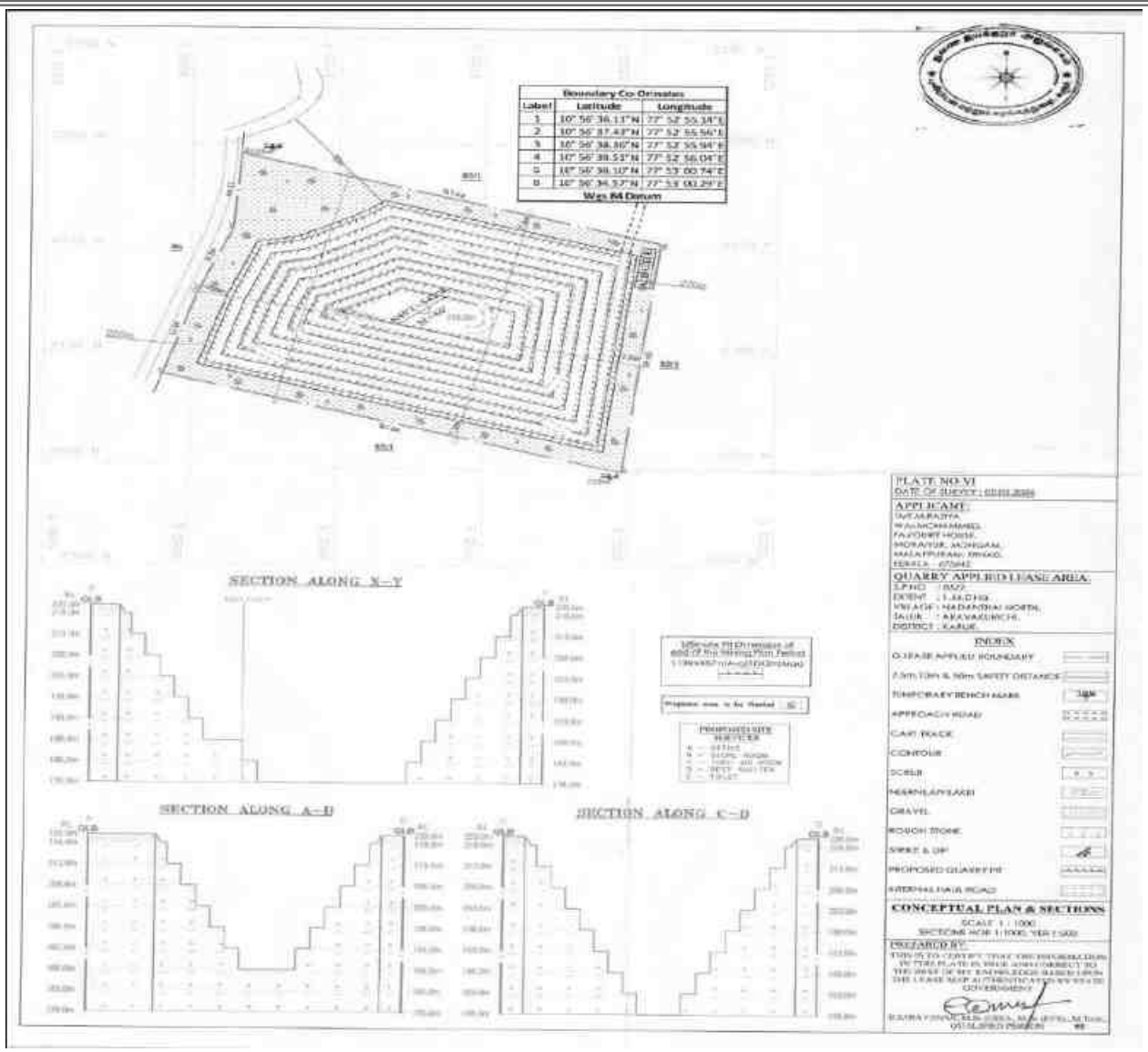


FIGURE 2.10 CONCEPTUAL PLAN

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 0.45.5 Ha. Trees like Pungai, Vagai, Vembu, Manjal konrai, Naval, Puvarasu, etc., will be planted around the mine lease area. A total of 455 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. STUDY AREA, PERIOD COMPONENTS AND METHODALOGY

The project area is located in Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu State over an extent of 1.66.0 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. March 2026 to May 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.

ENVIRONMENTAL SETTING OF THE STUDY AREA

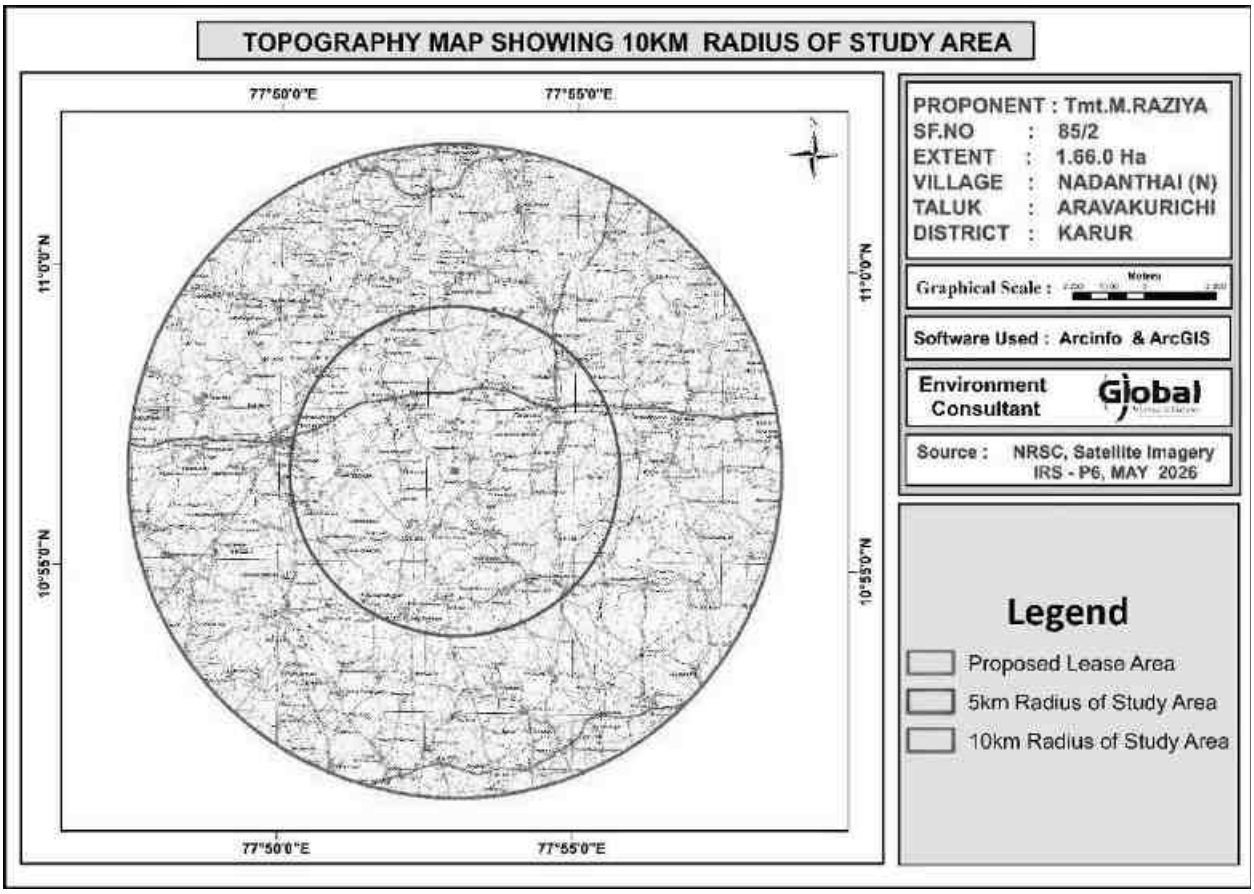
Table 3.1 Description of the lease area

S.No.	Areas	Distance from project site
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Nil within 15km radius
2	Areas which are important or sensitive for ecological reasons	

<table>
<tr><td>A</td><td>Wetlands, water courses or other water bodies,</td><td><table>
<tr><td>Water bodies</td><td>Distance</td><td>Direction</td></tr>
<tr><td>Noyyal River</td><td>8.76km</td><td>NW</td></tr>
<tr><td>Neernilaivilakku</td><td>Adjacent – 50m Safety Distance</td><td>NW</td></tr>
<tr><td>Odai</td><td>330m</td><td>S</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>Nil within 10km Radius</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>Densely Populated K.Paramathi – 3.2km (NE)</td></tr>
<tr><td>9</td><td>Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)</td><td>Densely Populated K.Paramathi – 3.2km (NE)</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>
</table>

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.

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 (March., to May., 2026) in accordance with the guidelines for preparation of EIA studies in order to assess the impact of the mine site within the 10 Km study area on existing physical, biological and social environment.

3.2 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 & Land cover
- 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 (March., to May., 2026) to assess the present scenario of the area. Details are given in the table given below.

Baseline data collection During Post Monsoon Season (March., to May., 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)	7

4	Noise	Equivalent noise levels in Leq in dB (A)	Once in a season (day & night time)	7
5	Water	Parameters as per IS 10500 - 2012	Once in a season	7
A	Ground Water & SW	Parameters As per IS 2720/USDA	Once in a season	7 + 2(SW)
6	Soil	Parameters As per IS 2720/USDA	Once in a season	7
7	Biological Environment	Flora and Fauna	Once in a season	Study Area
8	Socio-Economic Environment	Socio-Economic Environment	Once in a season	Study Area

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 1.0 KM RADIUS FROM THE PROPOSED QUARRY SITE)

A site survey has been conducted to identify and list structures located within a 1 Km radius from the proposed Quarry and are detailed below. There are no permanent structures within a 1 km radius from the project site. The PP has obtained a letter from Village Administrative Office (VAO), Nadanthai North stating that there are no structures situated within 300 Km radius.

FIG 3.2 GOOGLE MAP SHOWING 1km RADIUS FROM THE LEASE AREA

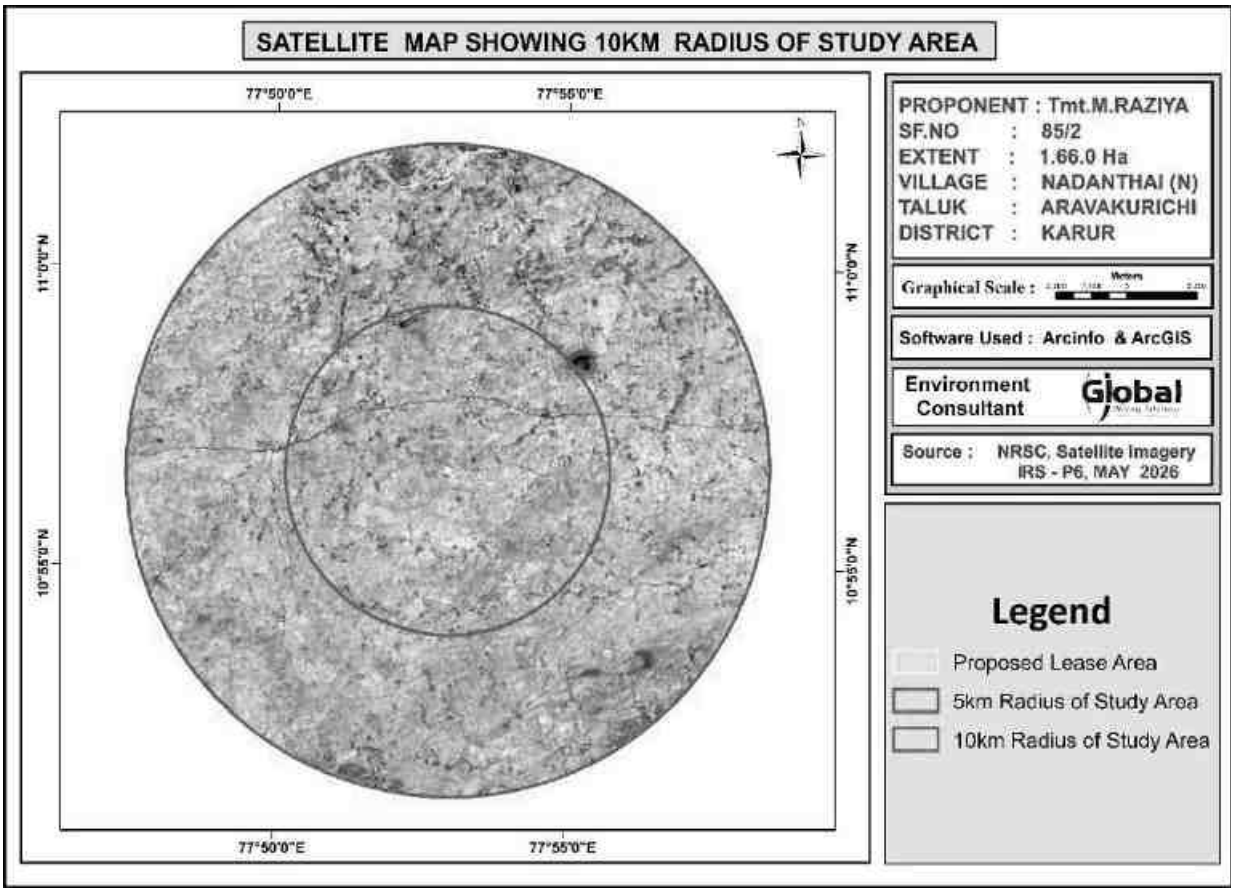


S.No	Name of the Structure	Distance and Direction	Occupant	Type	Age
S1	Dressed Room	Inside ML Area	-	RCC & GI sheet	>10 yrs
S2	Crusher Office	30m (N)	-	RCC & GI sheet	6 yrs
S3	Crusher Plant	Adjacent to North side of ML Area	-	-	6 yrs
S4	Crusher Plant	27m (E)	-	-	> 10 yrs
S5	Crusher Mechanic Shed	11m (N)	-	RCC & GI sheet	6 yrs
S6	Farm Shed	189m (NW)	2	GI sheet	7 yrs
S7	Farm Shed	190m (NW)	1	GI sheet	6 yrs
S8	Crusher Plant	221m (NE)	-	-	6 yrs
S9	Shed	293m (NW)	-	GI sheet	> 10 yrs
S10	Abandoned Brick Company	362m (SE)	-	GI sheet	> 10 yrs
S11	Abandoned Building	454m (SE)	-	RCC	> 10 yrs
S12	Poultry Farm	513m (NE)	2	RCC & GI sheet	> 10 yrs
S13	Shed	426m (SW)	2	GI sheet	6 yrs

S.No	Name of the Structure	Distance and Direction	Occupant	Type	Age
S14	Farm houses	410m (W)	-	RCC & GI sheet	> 10 yrs
S15	Kalliyadaiyan Habitation	543m (SE)	-	RCC & GI sheet	> 10 yrs
S16	Nadanthai North Habitation	560m (W)	-	RCC & GI sheet	> 10 yrs
S17	Nadanthai North Habitation	685m (W)	-	RCC & GI sheet	> 10 yrs
S18	Nadanthai North Habitation	659m (NW)	-	RCC & GI sheet	> 10 yrs
S19	Kalliyadaiyan Habitation	500m (SE)	-	RCC & GI sheet	> 10 yrs
S20	Kalliyadaiyan Habitation	804m (SE)	-	RCC & GI sheet	> 10 yrs
S21	Nadanthai North Habitation	798m (W)	-	RCC & GI sheet	> 10 yrs
S22	Poultry Farm	955m (W)	-	RCC & GI sheet	> 10 yrs
S23	Thennilai East Habitation	956m (NW)	-	RCC & GI sheet	> 10 yrs
S24	Shed	914m (NW)	2	GI sheet	7 yrs
S25	Crusher Plant	929m (SE)	-	-	> 10 yrs

The photos of the same are enclosed.

FIGURE - 3.2a SATELLITE MAP OF THE PROJECT AREA (10 KM RADIUS)



3.3.1 METEOROLOGICAL ENVIRONMENT

Meteorological conditions prevailing in the buffer zone is given below

Climate

The climatic conditions of Karur are tropical in nature. In winter, there is much less rainfall than in summer. According to Köppen and Geiger, this climate is classified as Aw. The average temperature in Karur is 28.2°C | 82.7 °F. Approximately 724 mm | 28.5 inch of rainfall occurs on a yearly basis. Karur experiences a moderate climate, and the summers are not easy to define.

Rainfall

The Average Annual Rainfall data received from 2019 to 2024 are given below.

Table 3.2 - Rainfall data

Annual Rainfall in mm						Normal rainfall in mm
2019	2020	2021	2022	2023	2024(As on 30.09.2024)	
524.5	1258.4	919.8	722.7	558.5	359.1	655.0

Source: Tamilnadu Water Supply and Drainage Board, Karur District

Relative Humidity

High relative humidity between 46.02% and 73.37% prevail throughout the year. Relative humidity is maximum in the morning and minimum in the evening However, the coastal areas will be comparatively more humid.

Seismic information

The study area falls in Zone III, which comes under the least active zone. The seismic map of India is given as Fig 3.3.

FIG 3.3 SEISMIC MAP OF INDIA

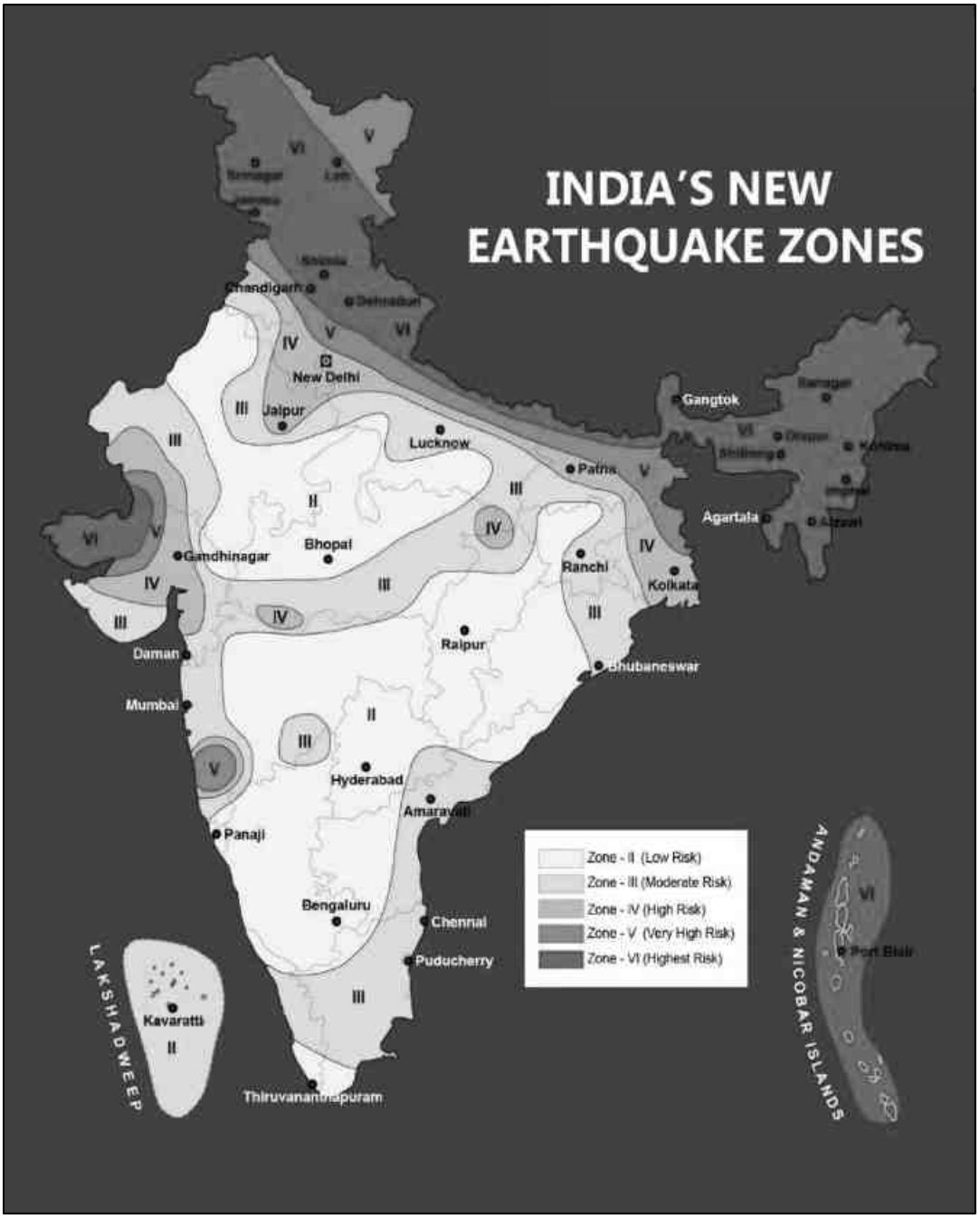
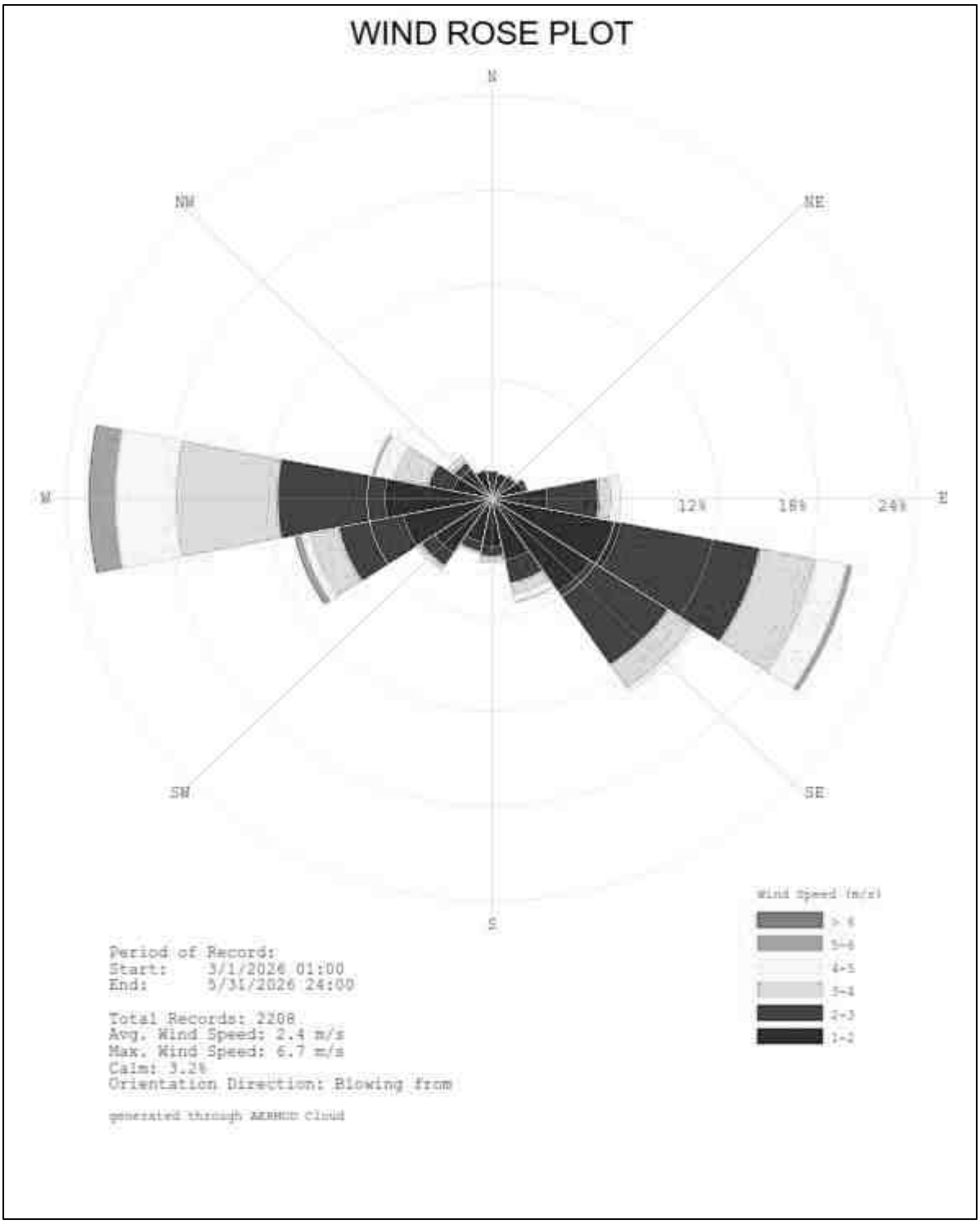


FIG 3.4 WIND ROSE PLOT DURING MARCH TO MAY 2026



Meteorological data of the project area

The meteorological data collected in the study area from March 2026 to May 2026 which includes Temperature, Wind speed, 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.

3.3.2 AMBIENT AIR MONITORING DATA

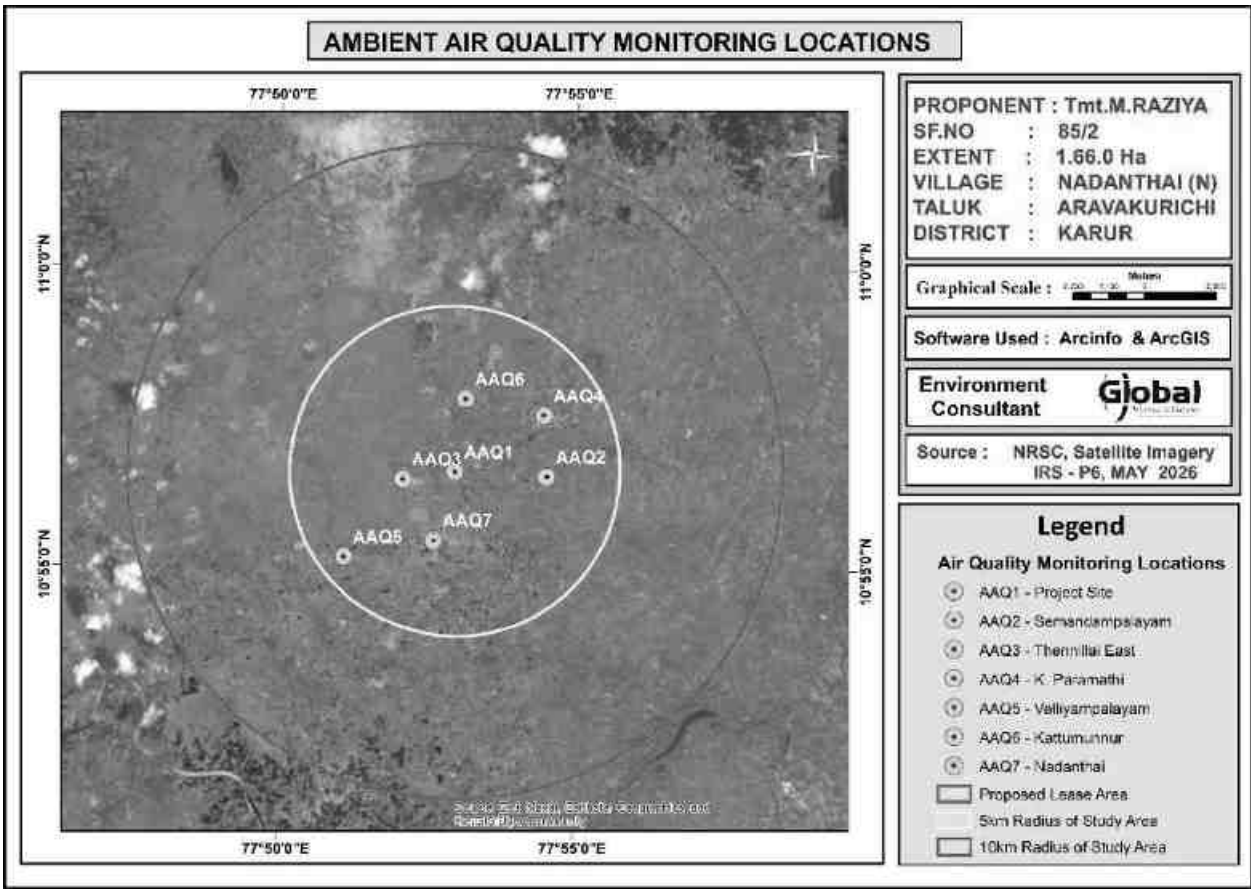
Ambient air quality monitoring has been carried out in 7 locations. One in the core zone and remaining six locations in the buffer zone areas. Monitoring locations have been chosen such that the measurement represents the overall air condition prevailing in the area. The study area represents mostly 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**	**Latitude**	**Longitude**
1	AAQ 1	Project site	Core Zone	10°56'36.39"N	77°52'58.01"E
2	AAQ 2	Semandampalayam	2.84km, E	10°56'32.13"N	77°54'31.06"E
3	AAQ 3	Thennilai East	1.62km, W	10°56'28.83"N	77°52'5.13"E
4	AAQ 4	K. Paramathi	3.24km, NE	10°57'33.41"N	77°54'28.00"E
5	AAQ 5	Velliyampalyam	4.30km, SW	10°55'10.67"N	77°51'6.10"E
6	AAQ 6	Kattumunnur	2.26km, N	10°57'49.55"N	77°53'8.42"E
7	AAQ 7	Nadanthai	2.22km, S	10°55'27.94"N	77°52'37.04"E

FIG 3.5 BASE MAP OF AMBIENT AIR MONITORING LOCATIONS



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

Table.3.4 Results of Air sampling Analysis in 7 locations

Station ID	Min	Max	Avg.
Particulate matter PM-$_{2.5}$ ($\mu g/m^3$)			
AAQ-1	27.4	37.7	32.6
AAQ-2	23.1	30.3	26.7
AAQ-3	23.9	32.7	28.3
AAQ-4	23.0	31.1	27.1
AAQ-5	20.8	28.2	24.5
AAQ-6	20.2	25.1	22.7
AAQ-7	19.8	24.7	22.3
CPCB NAAQS 2009 for PM $_{2.5}$ - 60 $\mu g/m^3$			
Particulate matter PM-$_{10}$ ($\mu g/m^3$)			
AAQ-1	55.3	77.0	66.2
AAQ-2	49.1	63.0	56.1
AAQ-3	51.0	70.0	60.5
AAQ-4	47.3	64.1	55.7
AAQ-5	42.9	57.2	50.1
AAQ-6	43.4	53.7	48.6
AAQ-7	42.5	52.7	47.6
CPCB NAAQS 2009 for PM $_{10}$ - 100 $\mu g/m^3$			
Sulphur Di-oxide as SO_2 ($\mu g/m^3$)			
AAQ-1	6.5	8.7	7.6
AAQ-2	5.6	7.9	6.8
AAQ-3	6.2	9.9	8.1
AAQ-4	5.8	8.5	7.2
AAQ-5	5.6	8.2	6.9
AAQ-6	5.2	7.9	6.6
AAQ-7	4.5	7.3	5.9
CPCB NAAQS 2009 for SO_2 – 80 $\mu g/m^3$			
Oxide of Nitrogen as NO_2 ($\mu g/m^3$)			
AAQ-1	10.1	13.1	11.6
AAQ-2	10.8	13.4	12.1
AAQ-3	11.4	15.5	13.5
AAQ-4	10.7	13.8	12.3
AAQ-5	10.0	13.5	11.8
AAQ-6	10.3	12.8	11.6
AAQ-7	9.5	12.0	10.8
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 - MINE LEASE AREA

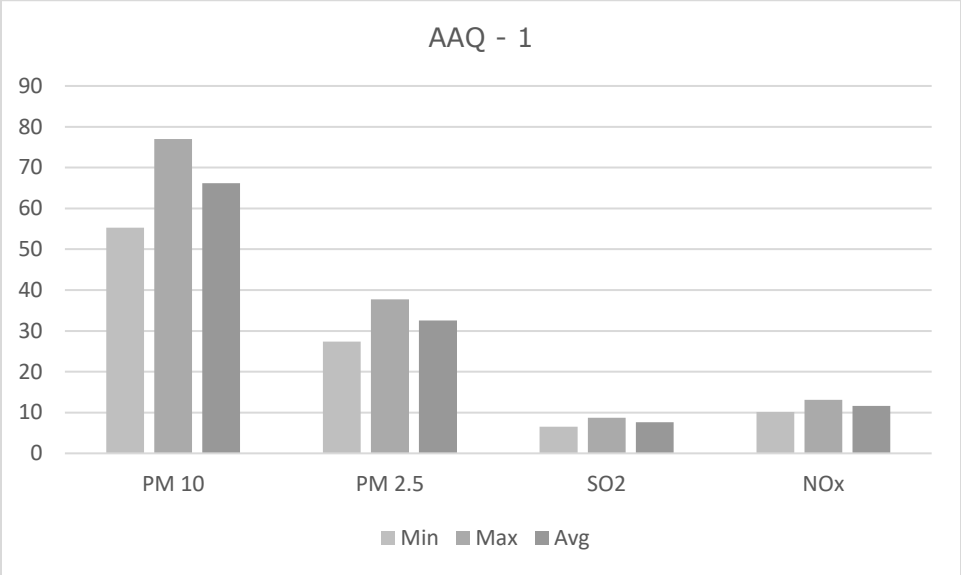


FIG 3.7 AMBIENT AIR QUALITY DATA A2 - SEMANDAMPALAYAM VILLAGE

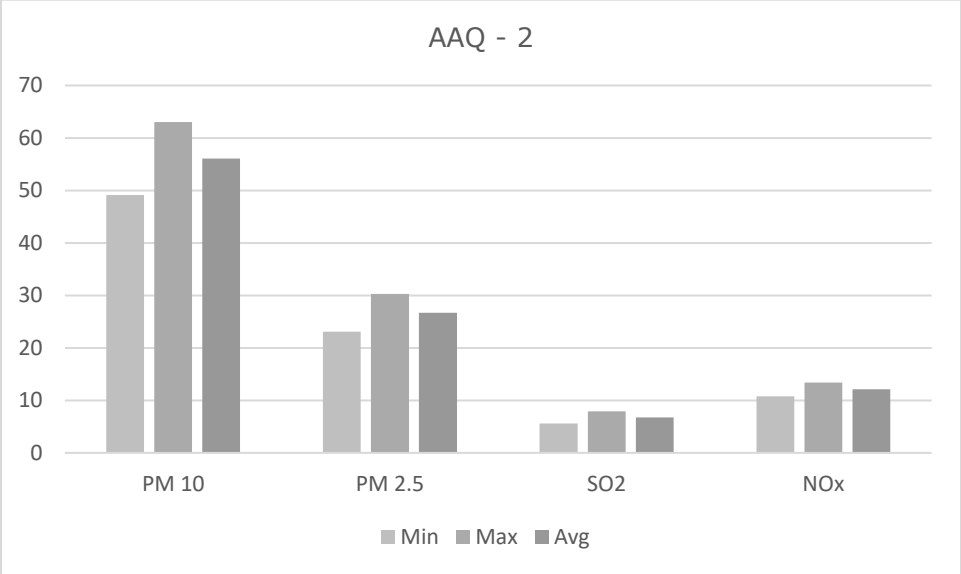


FIG 3.8 AMBIENT AIR QUALITY DATA A3 – THENNILAI EAST

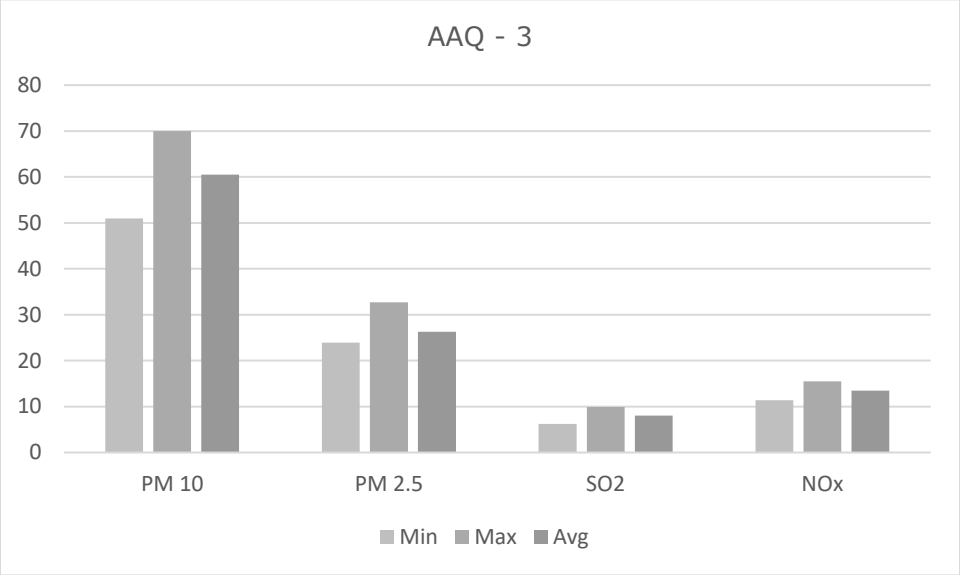


FIG 3.9 AAQ DATA A4 – K. PARAMATHI VILLAGE

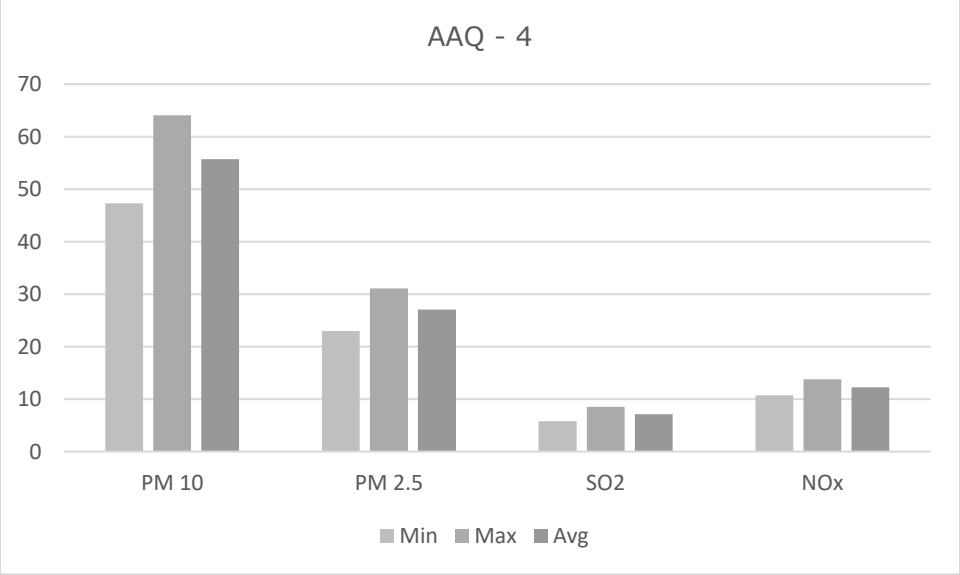


FIG 3.10 AMBIENT AIR QUALITY DATA A5 – VELLIYAMPALYAM VILLAGE

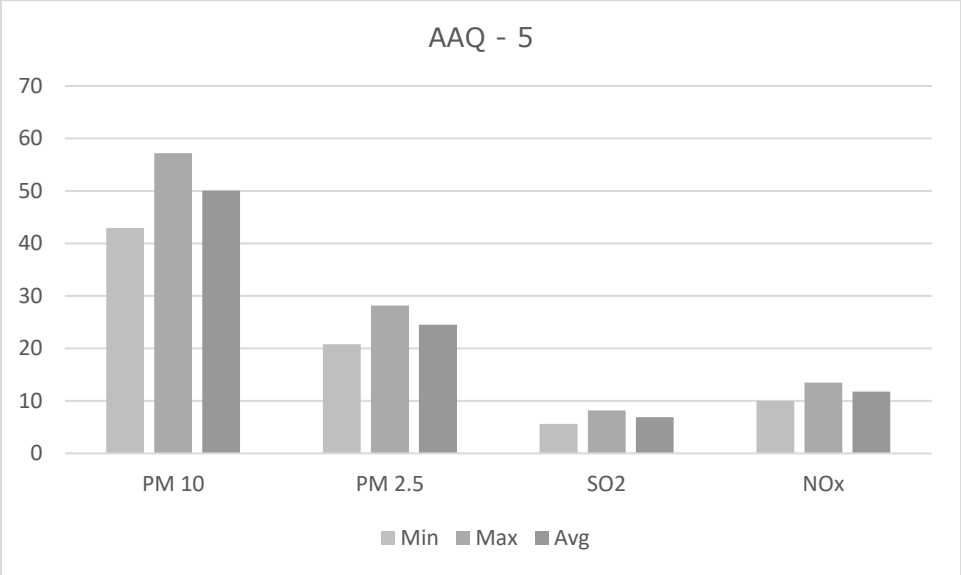


FIG 3.11 AMBIENT AIR QUALITY DATA A6 - KATTUMUNNUR VILLAGE

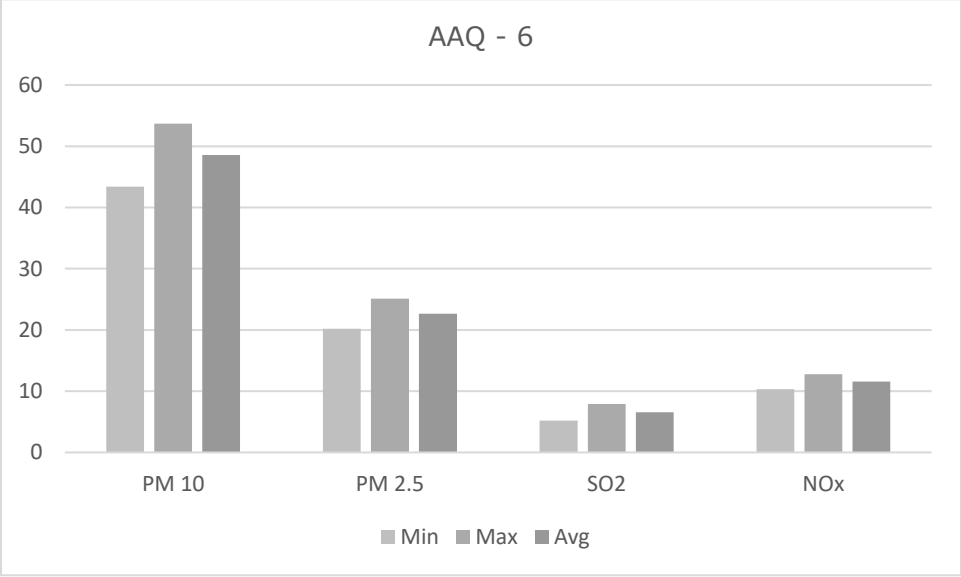
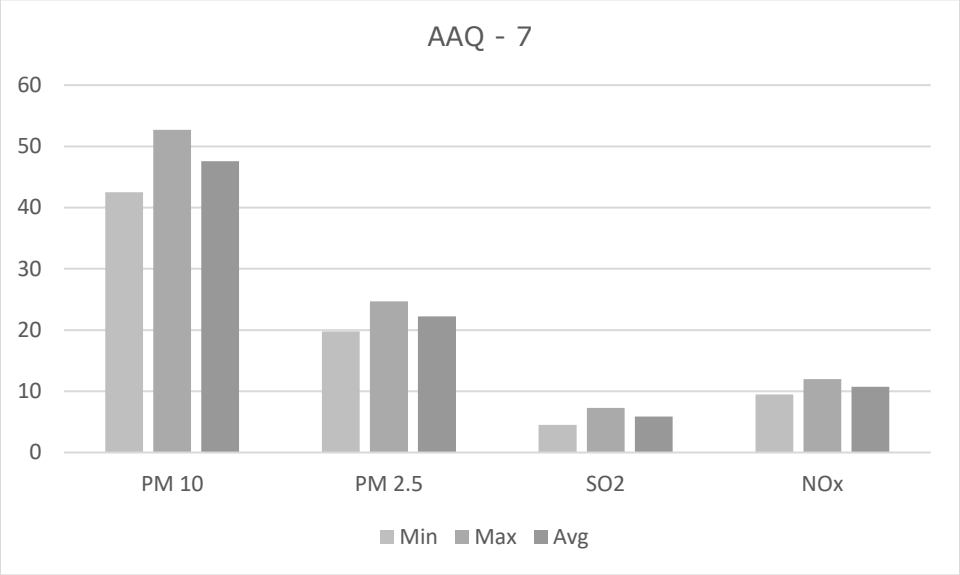


FIG 3.11 AMBIENT AIR QUALITY DATA A7 – NADANTHAI VILLAGE



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.

3.3.3 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.

Ground Water

The rainfall is the main source for the availability of water both in surface and sub-surface. The quantum of rainfall varies every year depending upon the monsoon. However, the extraction of surface and sub-surface water is increasing year by year. It leads to environmental impact on the water sources like depletion of water level, deterioration of water quality. It makes the demand for the quantification of available water and also its quality for various purposes like agriculture, industries, drinking and domestic purposes. Total seven (07) 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

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

The monitoring locations were selected based on:

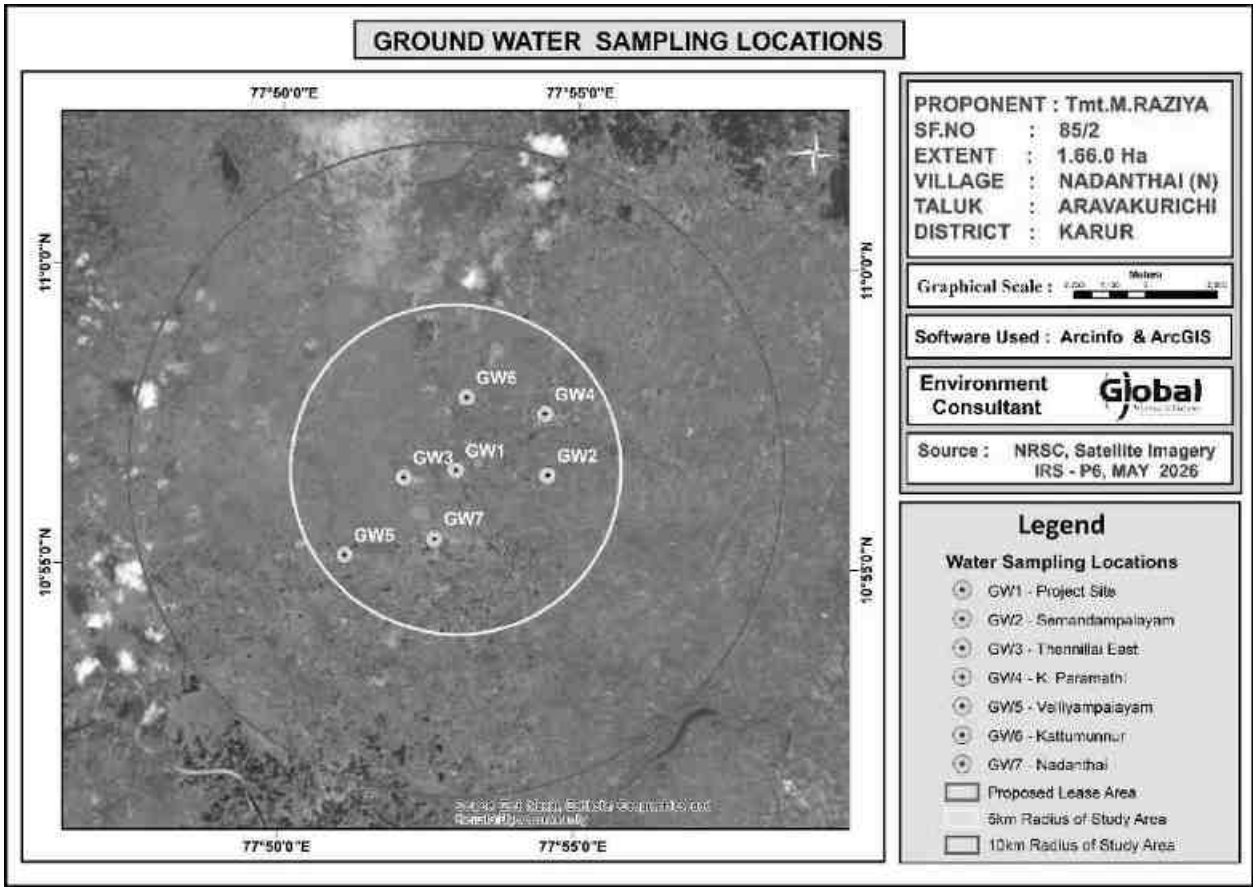
- Location of the major water bodies
- Location of project site,
- Likely areas that can represent baseline conditions

Water bodies nearby

Table 3.5 Water Sampling Locations

S.NO	Location Code	Monitoring Locations	Latitude	Longitude
Ground Water				
1	GW1	Project Site	10°56'36.39"N	77°52'58.01"E
2	GW2	Semandampalayam	10°56'32.13"N	77°54'31.06"E
3	GW3	Thennilai East	10°56'28.83"N	77°52'5.13"E
4	GW4	K. Paramathi	10°57'33.41"N	77°54'28.00"E
5	GW5	Velliyampalayam	10°55'10.67"N	77°51'6.10"E
6	GW6	Kattumunnur	10°57'49.55"N	77°53'8.42"E
7	GW7	Nadanthai	10°55'27.94"N	77°52'37.04"E

FIG 3.12 BASE MAP OF GROUND WATER SAMPLING LOCATIONS

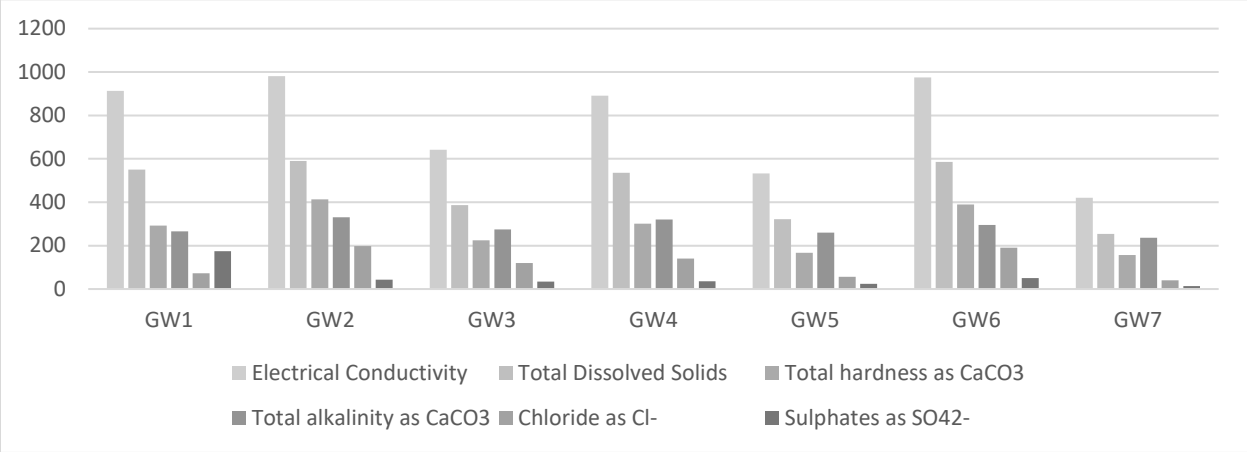


The samples were analyzed by Shrient Analytical & Research Labs Private Limited; Chennai and the results are summarized above.

PARAMETERS	GW1	GW2	GW3	GW4	GW5	GW6	GW7	**Limits**
								Permissible Limits
Odour	AGREEABLE	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	**Agreeable**
Turbidity	<1	<1	<1	<1	<1	<1	<1	**5**
pH at 25 °C	7.52	7.61	7.21	7.74	7.87	7.34	7.55	**6.5- 8.5**
Electrical Conductivity	912.6	980.6	642.3	890.5	532.6	975.2	420.6	**-**
Total Dissolved Solids	550	590	386	535	322	586	254	**2000**
Total hardness as $CaCO_3$	292	414	225	301	167	390	156	**600**
Calcium as Ca	62.8	92.8	32.24	70	39	94.4	36.16	**200**
Magnesium as Mg	32.4	43.7	34.7	30.2	16.7	37.0	15.7	**100**
Calcium as $CaCO_3$	157	232	80.6	175	97.5	236	90.4	**-**
Magnesium as $CaCO_3$	135	182	144	126	69.5	154	65.6	**-**
Total alkalinity as $CaCO_3$	266	330	274	320	260	295	236	**600**
Chloride as Cl^-	72.2	198	120	141	56.2	190	40.3	**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)	**1**
Sulphates as SO_4^{2-}	175	43.2	34.6	35.6	24.6	50.3	13.9	**400**
Iron as Fe	0.06	0.05	0.03	0.05	BDL(D.L - 0.01)	0.07	BDL(D.L - 0.01)	**0.3**
Nitrate as NO_3	5.32	2.55	1.72	1.95	BDL(D.L – 1.0)	2.36	BDL(D.L – 1.0)	**45**
Fluoride as F	0.51	0.56	0.34	0.44	BDL(D.L – 0.1)	0.47	BDL(D.L – 0.1)	**1.5**
Manganese as Mn	BDL (D.L - 0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	**0.3**

Some of the common parameters including EC, TDS, Total Hardness, Total Alkalinity, Chlorides and Sulphates in the 7 locations were plotted and the graph is provided below.

FIG 3.13 VALUES OF FEW COMMON PARAMETERS IN WATER ANALYSIS



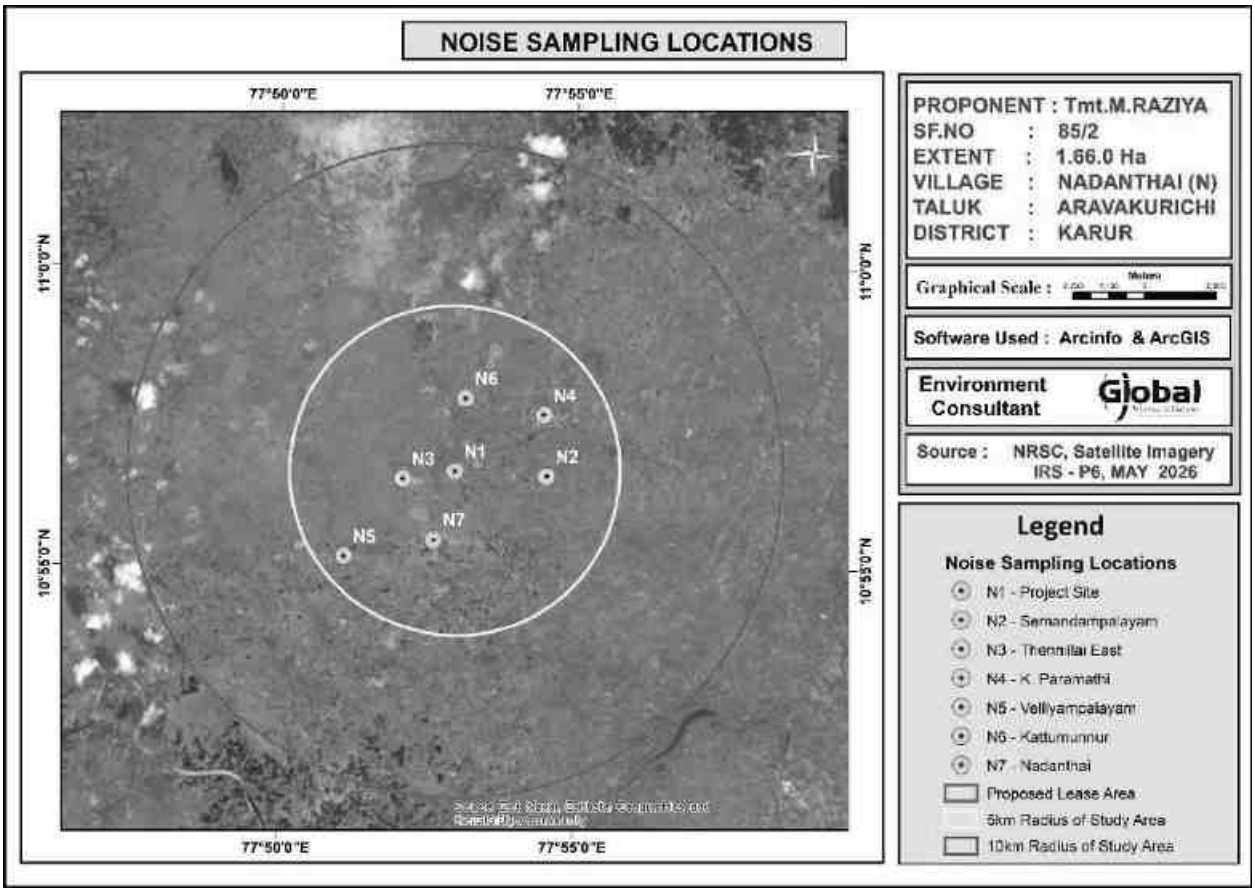
All the values were found to be within the permissible limits.

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 3.14 BASE MAP OF NOISE MONITORING LOCATIONS



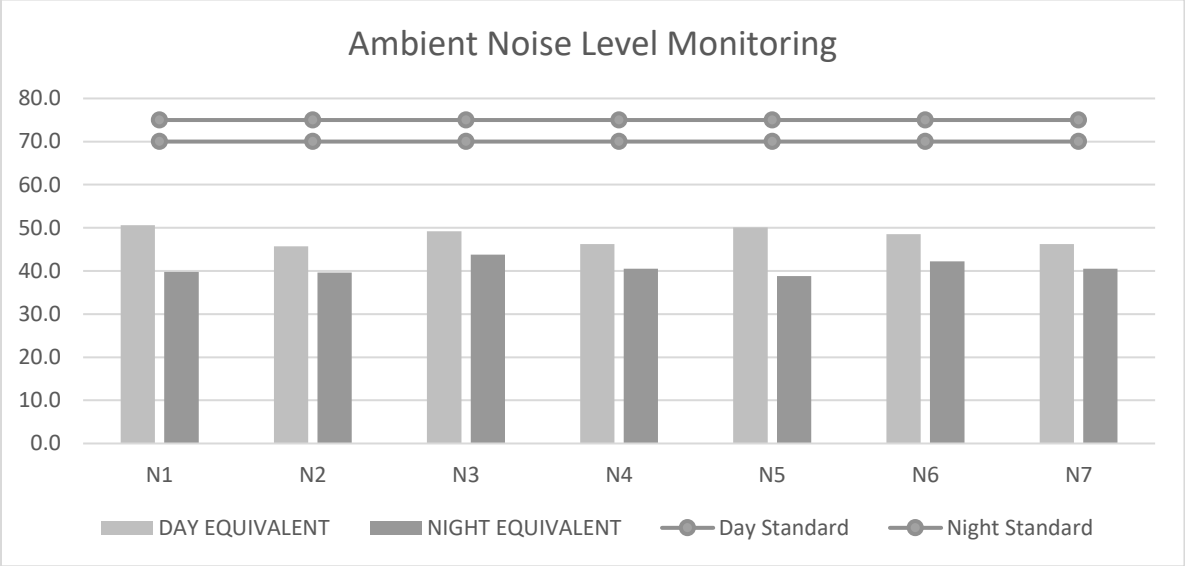
The results are given in Table below.

Table 3.7 Noise monitoring results

S. No	Location	Day equivalent	Night equivalent	Day equivalent limits by CPCB	Night equivalent limits by CPCB
1	Project site	50.6	39.8	75	70
2	Semandampalayam	45.7	39.6		
3	Thennilai East	49.2	43.8		
4	K. Paramathi	46.2	40.5		
5	Velliyampalayam	50.1	38.8		
6	Kattumunnur	48.5	42.2		
7	Nadanthai	46.2	40.5		

The results are plotted as below.

FIG 3.15 DAY AND NIGHT EQUIVALENT VALUES IN 7 LOCATIONS

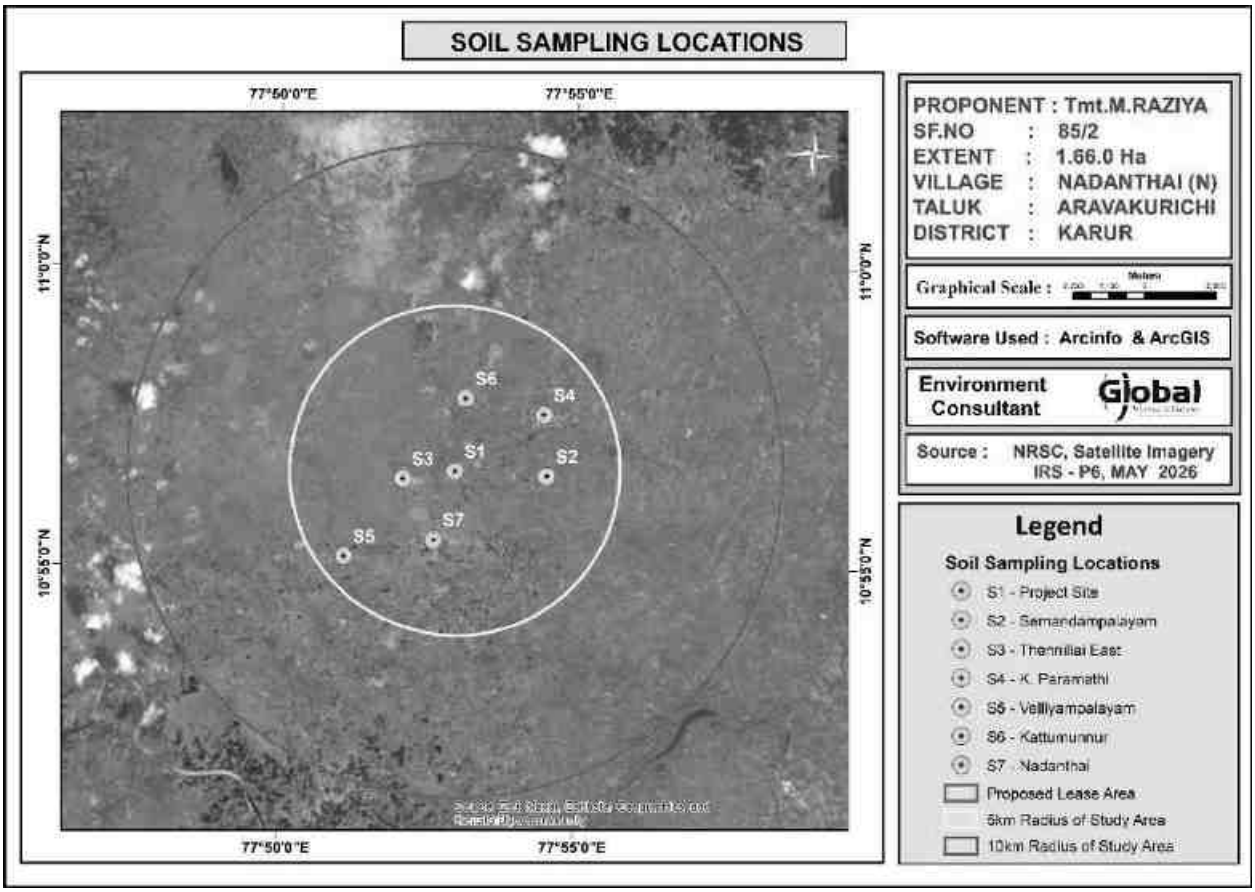


All the values are found to be within CPCB norms.

3.3.5 SOIL SAMPLING ANALYSIS

Soil samples have been collected from the mine lease area and 6 other locations from Semandampalayam, Thennilai East, K. Paramathi, Velliyampalayam, Kattumunnur, Nadanthai. The locations are shown in figure below.

FIG 3.16 BASE MAP OF SOIL SAMPLING LOCATIONS



The results are summarized in the table below.

Table 3.8 - Result of Soil Analysis

PARAMETER	S1	S2	S3	S4	S5	S6	S7
PH	7.52	7.45	7.84	7.32	7.11	6.96	7.44
EC	52.4	36.9	75.6	120.2	113.5	94.6	76.59
DRY CONTENT	97.45	97.25	95.66	95.68	96.32	96.55	94.78
WATER CONTENT	2.55	2.75	4.34	4.32	3.68	3.45	5.22
ORGANIC MATTER	0.68	1.11	0.74	2.11	2.36	1.86	0.72
PHOSPHOROUS	1.86	2.11	1.42	1.55	1.69	1.21	1.45
TEXTUER	Clay loam	Clay loam	Silt loam	SILT LOAM	SILT LOAM	SILT LOAM	Silt loam
SAND	29.81	31.69	21.55	40.32	36.11	36.89	21.56
SILT	34.26	39.54	52.55	55.74	54.63	52.74	52.66
CLAY	35.93	28.77	25.9	3.94	9.26	10.37	25.78

Total Nitrogen	132	190	116	715	580	699	236
SODIUM	490	496	336	245	256	212	346
POTASSIUM	756	840	673	786	690	656	672
Total Sulphur	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)
Water Holding Capacity	38	35	38	40	38	38	36
Porosity	18.9	19.4	18.6	18.2	19.6	18.2	18.4

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..9 Flora in Core Zone

S.No.	Scientific name	Vernacular/English name	Type of flora
1	*Lantana trifolia*	Unnichedi	Shrubs
2	*Calotropis gigantea*	Erukku	
3	*Cassia auriculata*	Aavarai	
4	*Achyranthes aspera*	Nayuruvi	

Buffer zone

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

Table 3.10 - Flora in Buffer zone

S.No.	Scientific name	Vernacular/English name	Type of flora
1	Ficus Carica	Athi Maram	Trees
2	Acacia nilotica	Karuvelai	
3	Azadirachta indica	Neem	
4	Cassia auriculata	Aavarai	
5	Casuarina equisetifolia	Savukku	
6	Albizia amara	Arappu	
7	Cocos nucifera	Thennai	
8	Acacia nilotica	Karu- velamaram	
9	Tamarindus indica	Puli	
10	Delonix regia	Cemmayir Konrai	
11	Ficus benghalensis	Aalamaram	
12	Borassus flabelliformis	Panna-maram	
13	Ficus religiosa	Arasamaram	
14	Carica papaya	Papaya	
15	Tectona grandis	Thekku	
16	Ziziphus mauritiana	Elandai	
17	Thespesia populnea	Poovarasam	
18	Jatropa gossypifolia	Kaatamanaku	Shrubs
19	Hibiscus rosa sinensis	Sembaruthi	
20	Euphorbia geniculata	Amman Pacharisi	
21	Calotropis gigantea	Yerukku	
22	Ricinus communis	Aamanakku	
23	Tecoma stans	Arali	
24	Aloe vera	Kathalai	
25	Catharanthus roseus	Nithyakalyani	Herbs
26	Acalypha indica	Kuppaimeni	
27	Mimosa pudica	Thottacherungi	
28	Tephrosia purpurea	Wild indigo	
29	Coccinia grandis	Kovai	Climbers
30	Cissus quadrangularis	Pirandai	
31	Jasminum angustifolium	malli	
32	Ziziphus oenoplia	Ilandai	
33	Cymbopogon	Kanam	Grasses
34	Cyperus rotundus	Kora grass	
35	Cynodon dactylon	Arugu	

Fauna in the study area

Table 3.11 - Fauna in buffer zone

S.No.	Scientific name	Common name	Type of fauna	Schedule of wild life protection act
1	Funambulus pennanti	Palm Squirrel	Mammals	IV
2	Funambuus palmarum	Three stripped palm squirrel		IV
3	Mus rattus	Indian rat		IV
4	Felis catus	Cat		-
5	Canis lupus familiaris	Indian dog		-
6	Bos Indicus	Indian Cow		-
7	Sus scrofa domesticus	Domestic pig		-
8	Lepus nigricollis	Indian Hare		IV
9	Mus musculus	Common Mouse		IV
10	Bufo melanostictus	Toad	Reptiles & Amphibians	IV
11	Chameleon zeylanicum	Chameleon		IV
12	Bungarus caeruleus	Common krait		IV
13	Ptyas mucosa	Rat snakes		IV
14	Rana hexadactyla	Frog		IV
15	Calotes versicolar	Lizard		IV
16	Bubulcus ibis	Cattle Egret	Birds	IV
17	Coracias benghalensis	Indian Roller		IV
18	Corvus splendens	Common Crow		V
19	Passer domesticus	House Sparrow		IV
20	Acridotheres tristis	Common Myna		IV
21	Streptopelia chinensis	Pigeon		V

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.

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 10°56'34.57"N to 10°56'39.51"N and Longitude: 77°52'55.14"E to 77°53'00.74"E.

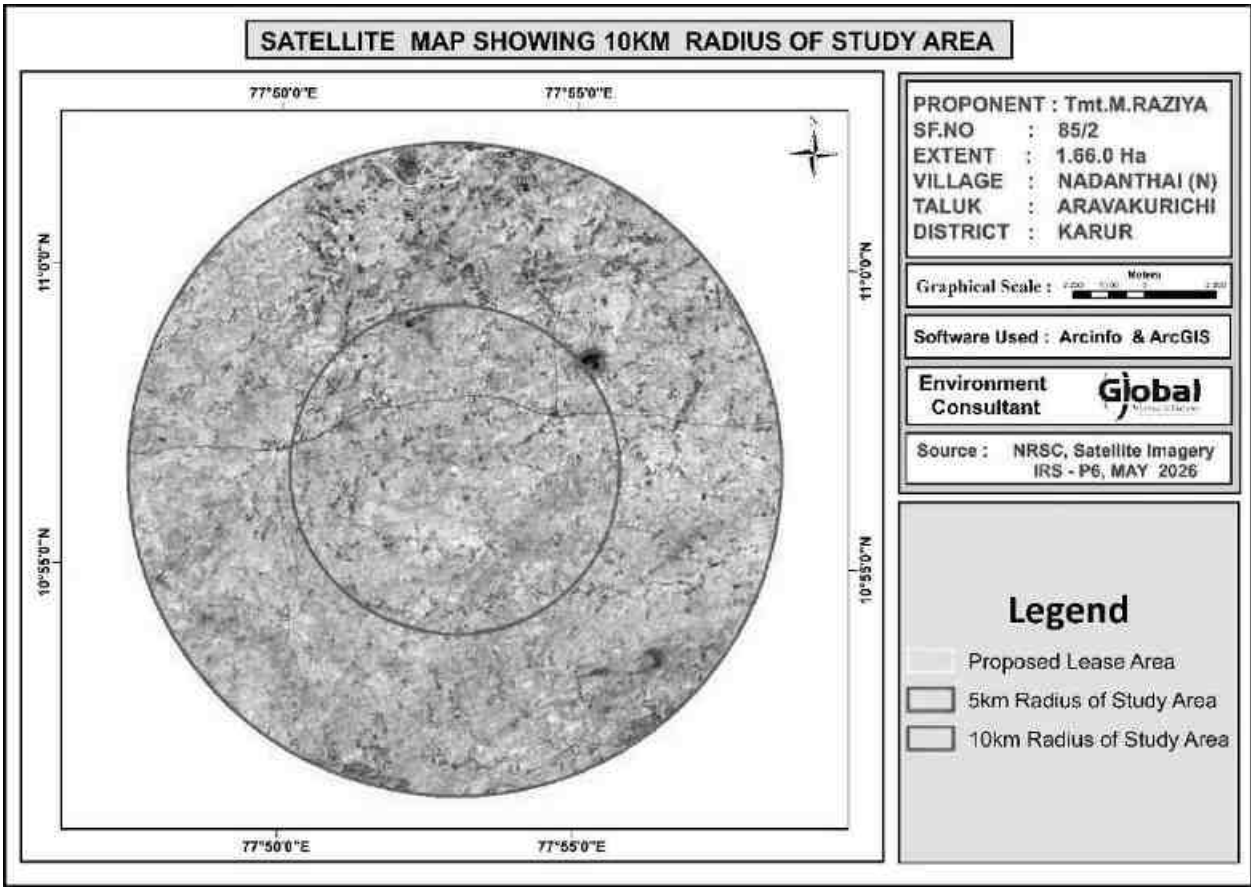


Figure No. 3.17: Remote Sensing Satellite Image

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. Some of the landuse units that are identified in the study area are listed in Table No. 3.13given below.

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.3.12: Major Land use Units of the Study Area

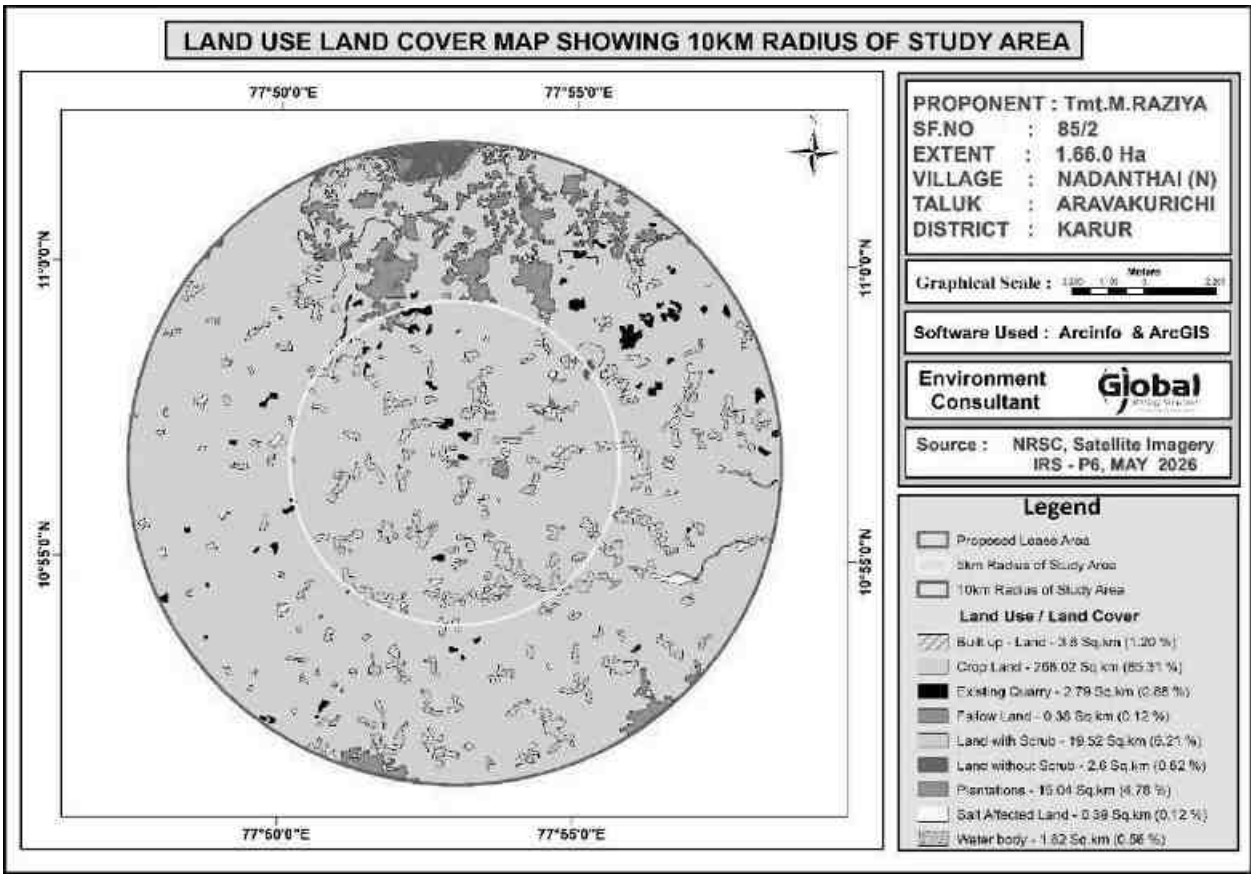
Sr.No	1st level classification	2nd level classification
1	Built-Up Or Habitation	Residential
		Commercial / Industrial
2	Agriculture	Crop / Fallow Land
		Plantation
3	Water Bodies	Reservoir / Lake / Pond
		River
4	Vegetation Cover	Scrub
		Open Vegetation
		Close Vegetation
		Mangroves
5	Waste Land	Open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

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

A supervised classification (Digital Interpretation) technique has been adopted for land use classification based on the NRSA Classification Level II for the preparation of land use mapping. The satellite images from NRSC satellite imagery IRS-P6 June 2025 as well as the projection UTM (Universal Traverse Mercator) and datum WGS1984 (World Geodetic System), Northern Hemisphere. The main objective of this section is to provide a baseline status of the study area covering 10 km radius around

the mine site so that temporal changes due to the mining activities on the surroundings can be assessed in future. The land use map of the study area is given in Figure 3.18

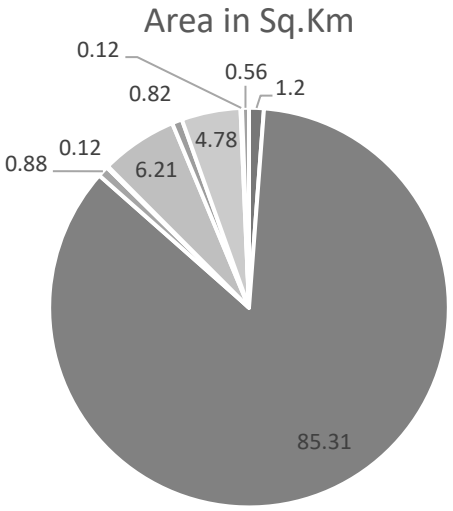
FIG 3.18 LAND USE/LAND COVER MAP OF THE STUDY AREA



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.

Table No. 3.13: Major Land Use Units of the Study Area in Percentage

Sl.No.	Land Use / Land Cover	Area in Sq.Km	Area in Percentage
1	Built-up land	3.8	1.2
2	Crop land	268.02	85.31
3	Existing Quarry	2.79	0.88
4	Fallow land	0.38	0.12
5	Land with scrub	19.52	6.21
6	Land without scrub	2.6	0.82
7	Plantations	15.04	4.78
8	Salt Affected Land	0.39	0.12
9	Water bodies	1.62	0.56
	Total Area	**314.16**	**100**



It is inferred that the majority of the land in the study area is crop land 85.31% followed by land with scrub. The total built up mining area within the study area is 0.88%. The cluster area of contributes about 2.34% of the total mining area within the study area. This small percentage of Mining Activities shall not have any significant impact on the environment.

3.3.8 SOCIOECONOMIC ENVIRONMENT

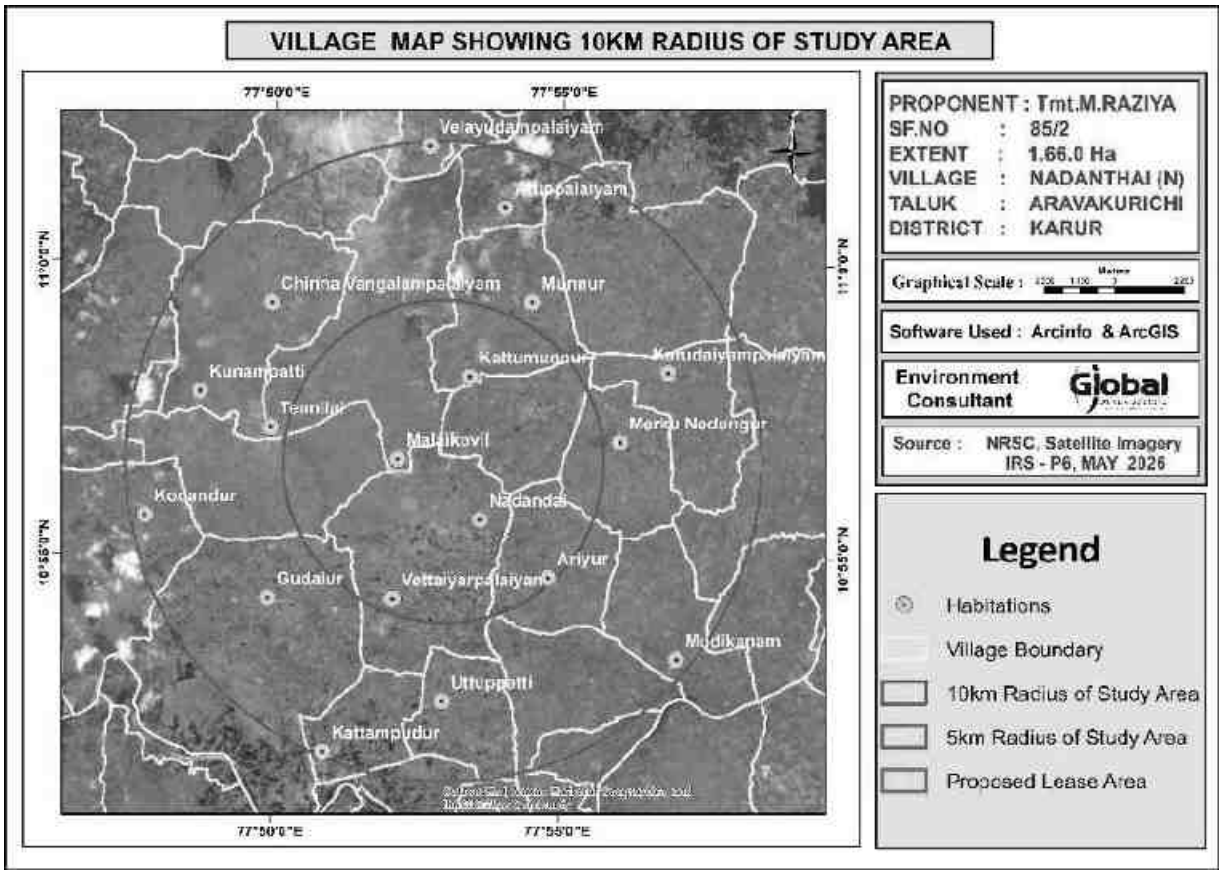
The socio-economic environment of the study area is studied by conducting primary sites through site visits and conducting sample surveys. The secondary data obtained from Census 2011 is also used. The following data area collected from secondary data:

- Demographic pattern.
- Health pattern
- Occupational structure.

3.11.1 DETAILS OF VILLAGES

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

FIG 3.19 VILLAGE MAP OF THE STUDY AREA



DETAILS OF VILLAGES

The project is located in Aravakurichi Taluk, Karur District. From the secondary data, there are 31 villages were observed in the study area of 10km radius. List of villages are given below.

Table 3.14 - Village details in study area

S.No.	Village/Town Name	Radius	Taluk Name	District Name
1	Nadanthai North	1-5km	Aravakurichi	Karur
2	Malaikovil			
3	Tennilai			
4	Kattumunnur			
5	Ariyur			
6	Vettaiyarpalayam			
7	Merku Nedungur			
8	Kunnanpatti	6-10km		
9	Chinna Vangalampalaiyam			
10	Munnur			
11	Attipalayam			
12	Velayudampalaiyam			
13	Karudaiyampalaiyam			
14	Kodandur			
15	Gudalur			
16	Uttupatti			
17	Kattampudur			
18	Mudikanam			

The total population is 36728 which comprise of 18167 males and 18561 females. The table below shows that the male and female population ratios are equal. Among the total population 1.6% belong to Scheduled Tribes, 20.35% are Scheduled Caste and the balance 78.05% people belong to other castes. Among the total population, 65.22% of the people are literate. Among the total population, 37.45% are literate males and 27.77% are literate females. Also the total population, 46.41% are total

workers and 53.59% are total non-workers. This results shows that the male literates are higher than the female literates.

Table 3.15 - Population profile of the study area

Particulars	No of Population	Percentage (%)
A. Population break-up by Gender		
Male Population	16,336	49.56
Female Population	16,626	50.44
Total	**32,962**	**100**
B. Population break-up by Caste		
Scheduled Caste	8054	24.43
Scheduled Tribes	11	0.05
Others	24891	75.52
Total	**32,962**	**100**
C. Literacy Level		
Male Literate Population	12579	38.16
Female Literate Population	9465	28.72
Male Illiterate	3757	11.40
Female Illiterate	7161	21.72
Total	**32,962**	**100**
D. Occupational structure		
Total Workers	20099	60.98
Total Non-workers	12863	39.02
Total	**32,962**	**100**

The results are plotted in figures below.

FIG 3.20 GENDER-WISE POPULATION DISTRIBUTION

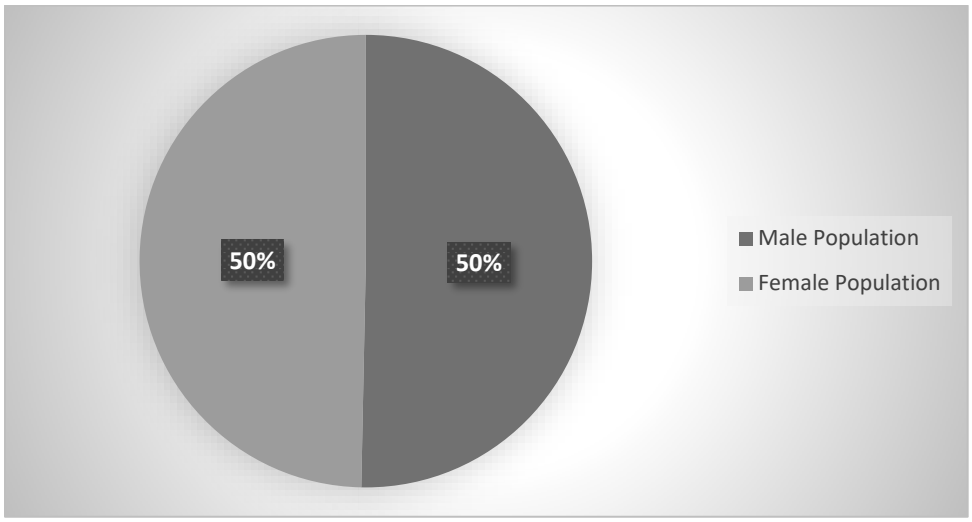


FIG 3.21 GENDER WISE LITERACY DISTRIBUTION

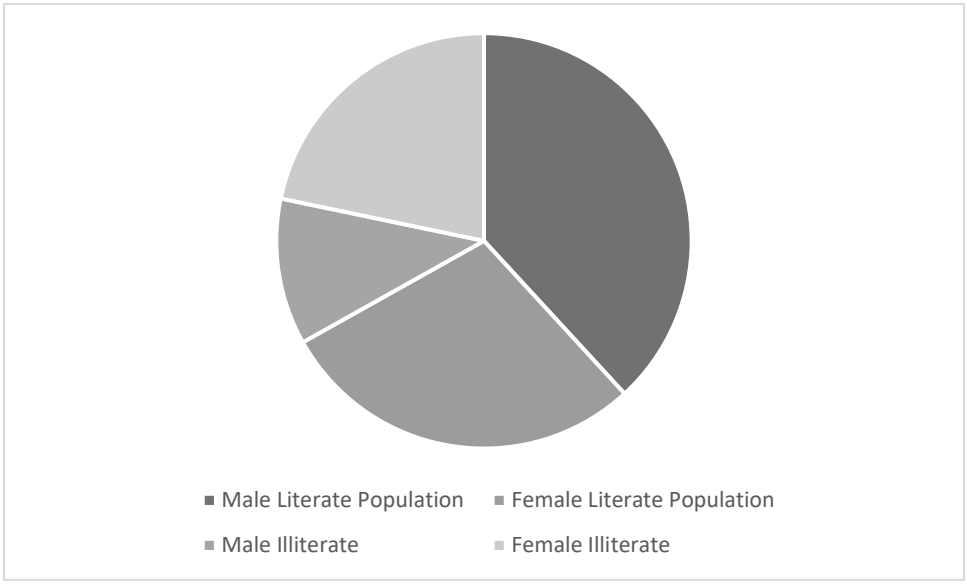
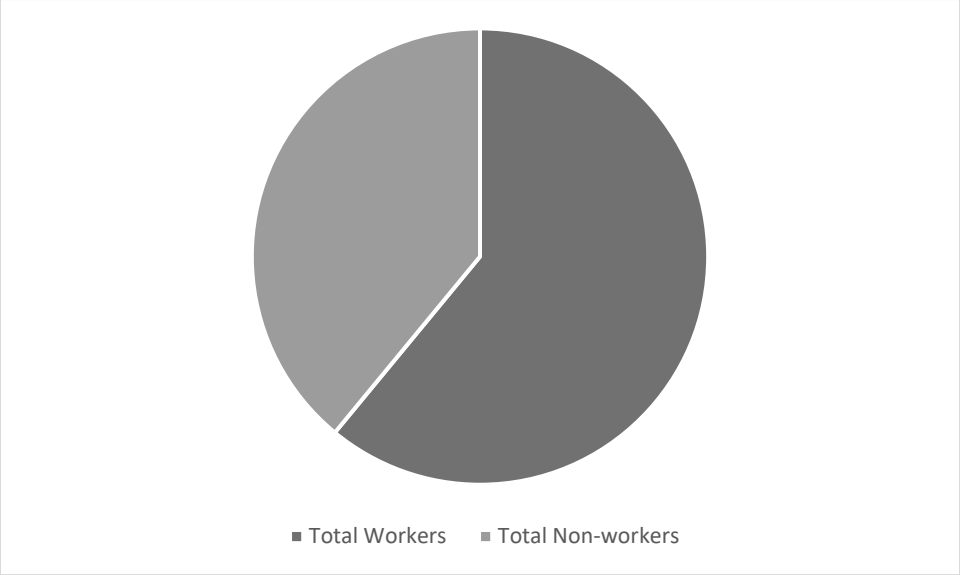


FIG 3.22 OCCUPATIONAL STRUCTURE WITHIN BUFFER ZONE



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	17
2	Govt. Middle School	10
3	Govt. Secondary School	4
4	Govt. Senior Secondary School	2
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

In the study area, there are totally 58 Primary Schools functioning in these 18 rural villages. Among them 6 villages have 2 primary schools, 3 villages have 3 primary schools, 8 villages have more than 3 primary school

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	0
2	Primary Health Centre	2
3	Primary Health Sub Centre	9
4	Maternity And Child Welfare Centre	2
5	TB Clinic	2
6	Hospital Allopathic	0
	Veterinary Hospital	4

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	18
2	Covered Well	14
3	Hand Pump	12
4	Tube Wells/Borehole	17
5	Post office	2
6	Public bus services	15
7	Commercial Bank	2
8	Cooperative bank	2

Sample Survey

The expert visited 5 villages in the study area namely Nadanthai village, K. Paramathi, Thennilai East, Semandipalayam village and KattuMunnur village. 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 centres and Nalmukkal. 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 Viswanathapuri which is about 9 Km from the lease area. Major schools with higher secondary and senior secondary schools are located

in Nadanthai. Facilities like petrol pump stations, ATM facility are available in Nadanthai.

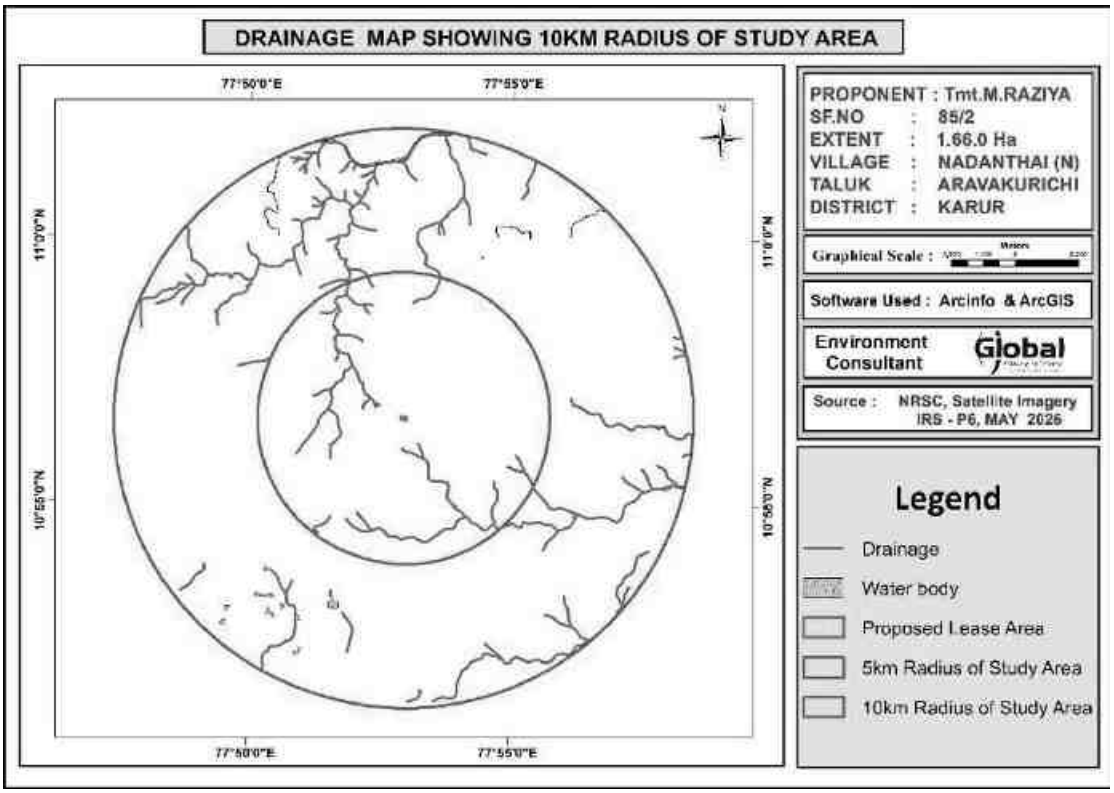
3.3.9 HYDROGEOLOGY OF THE STUDY AREA

There is Noyyal river located at 8.5km, NW from the project site. The hydrological and hydrogeological pattern of the study area is studied in detail using satellite imagery.

HYDROGEOLOGICAL STUDY

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

FIGURE 3. 23 10 KILOMETER RADIUS OF THE DRAINAGE MAP



PHYSIOGRAPHY AND DRAINAGE

Proposed Mine lease area is dry Patta land with majority of the area is observed with hard rock formation. There is no any seasonal or perennial Odai within the M.L area. The drainage pattern of the region is plane to sub-dendritic.

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 Neernilaivilakku running adjacent to the quarry (safety distance provided), Odai – 330m, S and Noyyal River located at 8.5km, NW.

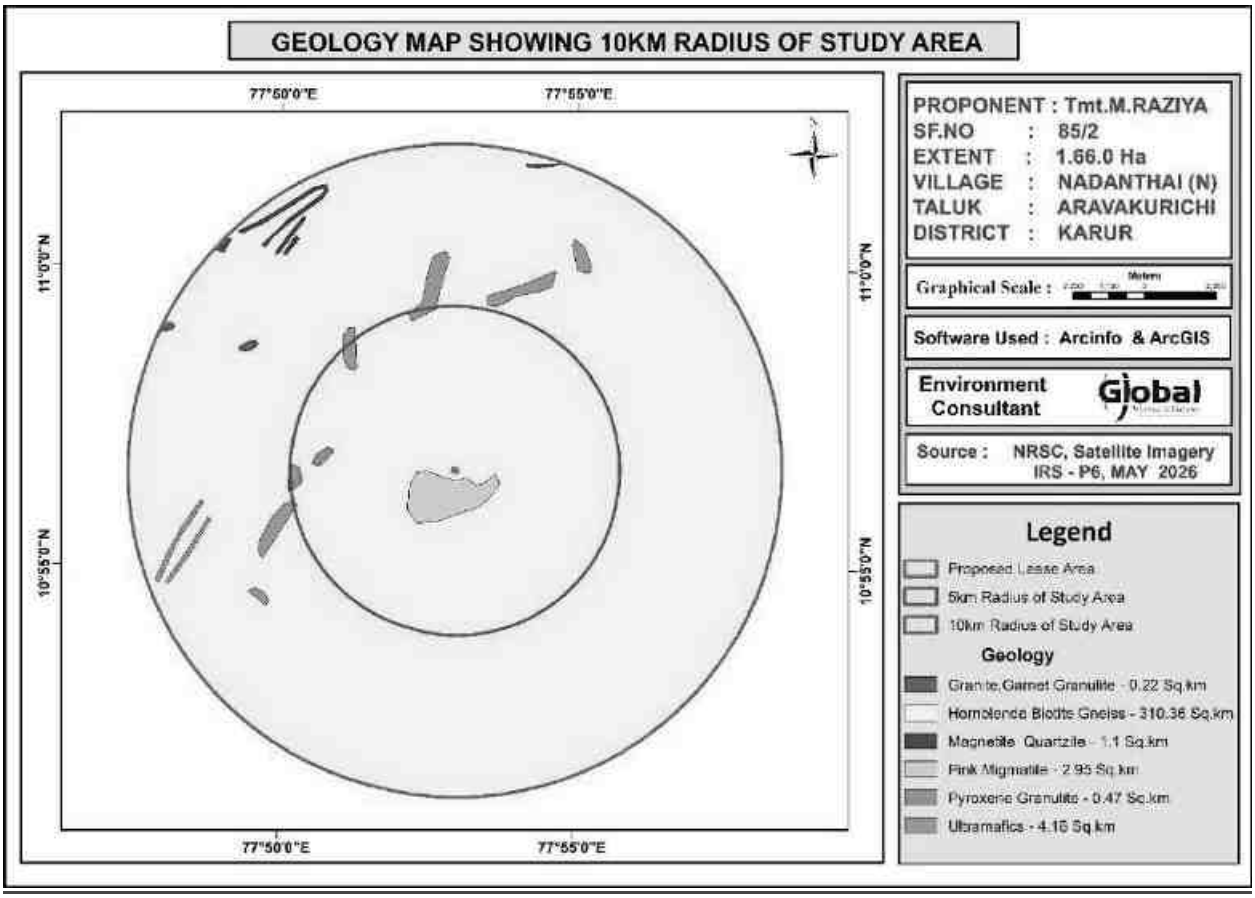
GEOLOGY, GEOMORPHOLOGY AND SOIL

Geology:

The regional geology of the study area is shown below Figure 3.24. The type of rock formation in the core and buffer zone is composed of Granite, Garnet Granulite, Hornblende Biotite Gneiss, Metagabbro Pyroxenite, Pink Migmatite, Pyroxene Granulite and Ultramafics. The geology of the study area is detailed below.

Sl.No.	Geological description	Area in sq.km	Area in percentage
1	Granite, Garnet Granulite	0.22	0.07
2	Hornblende-biotite gnesis	310.36	97.21
3	Magnetite Quartzite	1.1	0.34
4	Pink migmatite	2.95	0.92
5	Pyroxene Granulite	0.47	0.15
6	Ultramafics	4.16	1.30
Total		**319.26**	**100.00**

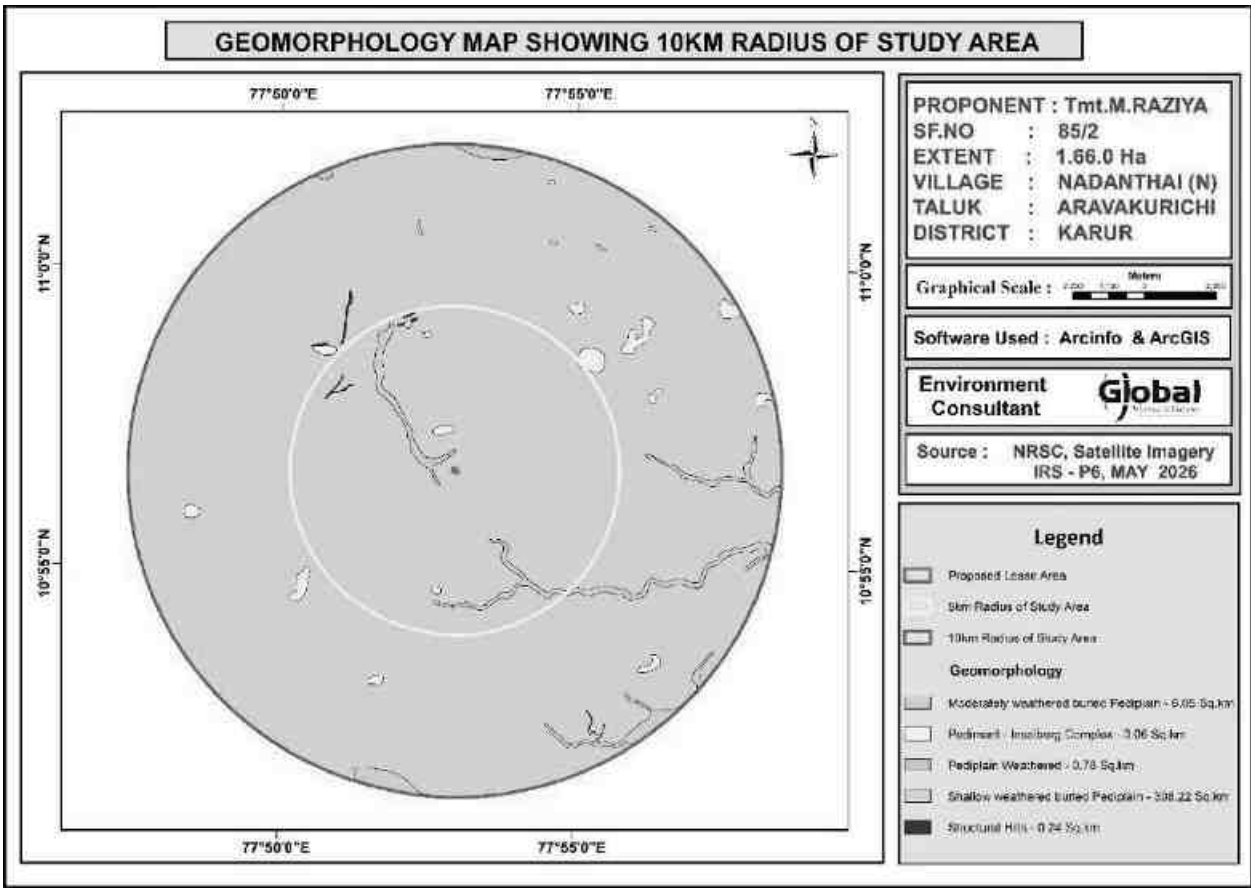
FIGURE 3. 24 10 KILOMETER RADIUS OF THE GEOLOGY MAP



Geomorphology: Predominantly the buffer zone is dominated by Pediplain Weathered buried as detailed below. The geomorphology of the study area is given in Figure 3.25.

S. No.	Geomorphological description	Area in Sq. Km	Area in Percentage
1	Moderately weathered buried pediplain	6.05	1.90
2	Pediment – Inselberg Complex	3.06	0.96
3	Pediplain Weathered	0.78	0.25
5	Shallow Weathered Burried Pediplain	308.22	96.82
6	Structural Hills	0.24	0.08
Total		**318.35**	**100.00**

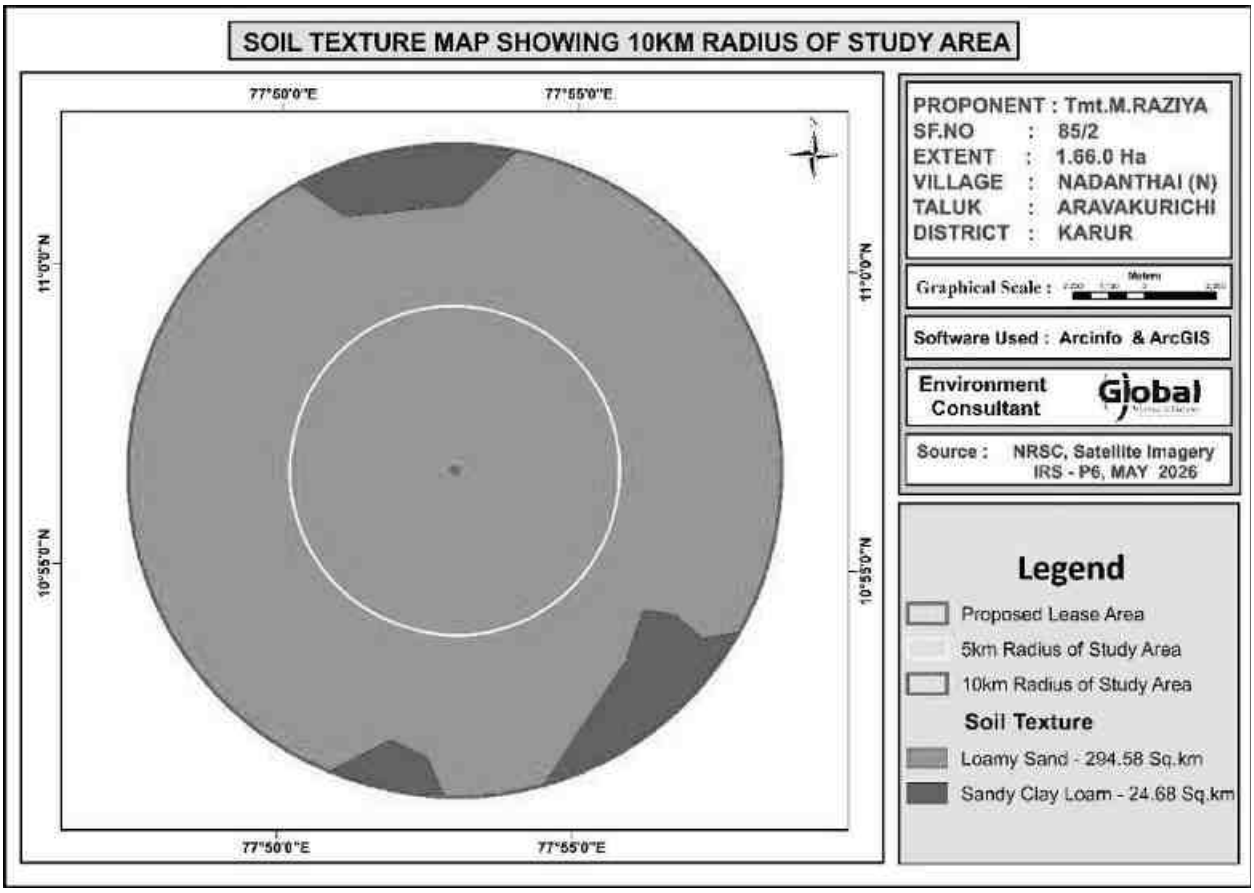
FIGURE 3. 25 10 KM RADIUS OF THE STUDY AREA GEOMORPHOLOGY MAP



Soil: The study area is mainly dominated by well-drained soil category. Soil map of Core & Buffer Zone map is given in Figure 3.26. Soil map of the study area is detailed below.

S. No.	Soil drainage pattern	Area in Sq.km
1	Loamy Sand	294.58
2	Sandy Clay Loam	24.68

FIGURE 3.26 10 KM RADIUS OF THE STUDY AREA SOIL TYPE MAP



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. 85/2 over an extent of 1.66.0 Ha in Nadanthai North Village, Aravakurichi Taluk, Karur 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 1,96,480 m^3 of Rough Stone and 23,408 m^3 gravel formation up to a depth of 42 m (BGL) for the period of five 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 1.66.0 Ha boundary barrier except in eastern direction. It is proposed to be altered by effective quarrying operation such as excavation (1.18.5 Ha), Infrastructure (0.01.0), Road (0.01.0 Ha) and green belt will be developed in the safety zone of 0.45.5 Ha. The ultimate depth of quarrying is proposed with maximum depth of 42m 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 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>Nil</td><td>1.18.5</td></tr>
<tr><td>Infrastructure</td><td>Nil</td><td>0.01.0</td></tr>
<tr><td>Roads</td><td>Nil</td><td>0.01.0</td></tr>
<tr><td>Green Belt</td><td>Nil</td><td>0.45.5</td></tr>
<tr><td>Unutilized</td><td>1.66.0</td><td>Nil</td></tr>
<tr><td>Total</td><td>1.66.0</td><td>1.66.0</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 42 m Below ground level. At the end of mining period, the quarried pit will act as a water reservoir to store the rain water.
Land Use at the end of mine will be as follows.
<table>
<tr><th>Land Use</th><th>Area in use during the quarrying period (Hect)</th></tr>
<tr><td>Area left for water body</td><td>1.18.5</td></tr>
<tr><td>Green Belt</td><td>0.45.5</td></tr>
<tr><td>Remaining area</td><td>0.02.00</td></tr>
<tr><td>Total</td><td>1.66.0</td></tr>
</table>
At the mine closure stage 1.18.5 Ha of lease area will be left as rain water harvesting pond 0.45.5 Ha will be developed with green belt.
Greenbelt shall be developed around the mine lease area and the details has been given below.
<table>
<tr><th>Year</th><th>Species</th><th>No. of trees</th><th>Spacing</th><th>Survival</th></tr>
<tr><td>I</td><td rowspan="5">Pungai, Vagai, Vembu, Manjal konrai, Naval,</td><td>455</td><td rowspan="5">3m x 3m</td><td rowspan="5">80%</td></tr>
<tr><td>II</td><td>-</td></tr>
<tr><td>III</td><td>-</td></tr>
<tr><td>IV</td><td>-</td></tr>
<tr><td>V</td><td>-</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">Pit dimension during end of the first five years</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>136</td><td>87</td><td>42</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></td><td>Puvarasu, etc</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">Total</td><td>455</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 42m (BGL). The ground water table is reported as 85 m. In the proposed mining plan only 42m below ground level 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>
</table>

Soil Quality and Agriculture	In monsoon seasons due to the excavation of minerals soil erosion and sediment deposition will occur in the nearby water bodies.	It is proposed to quarry upto a depth of 42m below ground level and the nearby water table is 85m. So, the mining activity will not affect the ground water. To prevent the soil erosion during monsoon season, garland drain will be constructed with silt traps.
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 42m. 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 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.

Noyyal River – 8.5 km (NW). Water table is found at a depth of 42m.

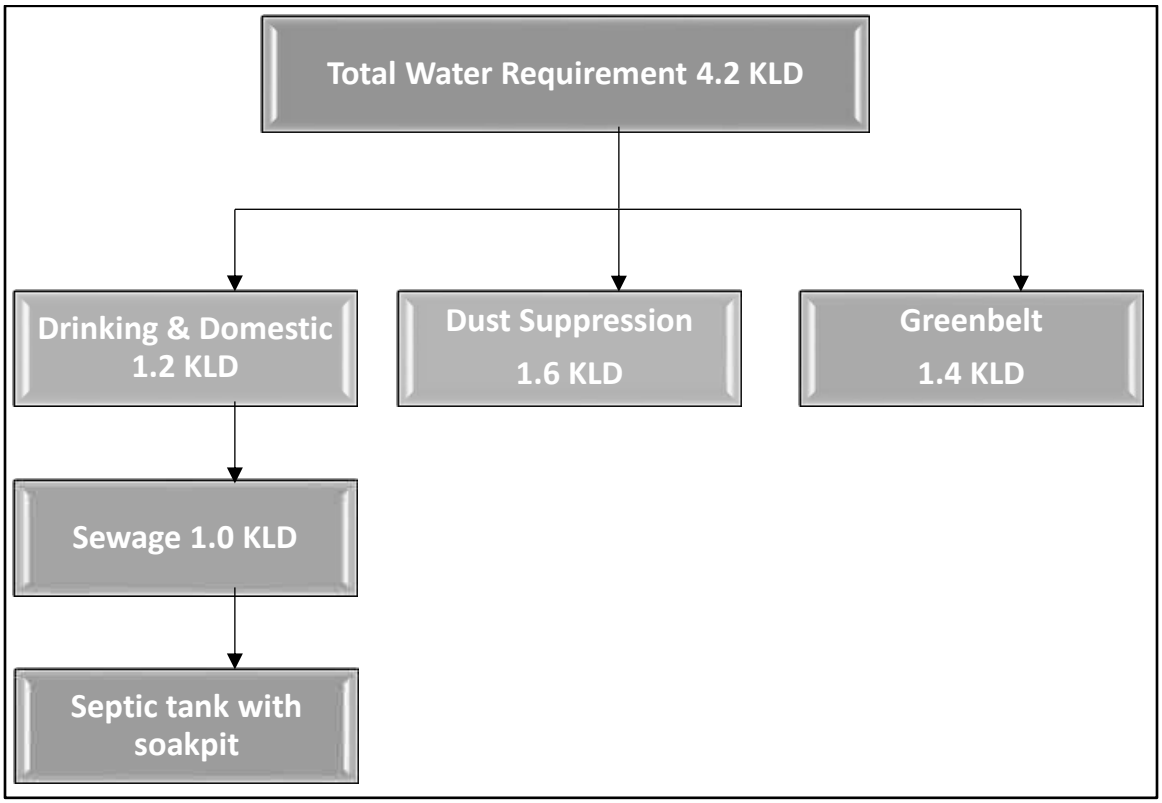
Since these water bodies are located outside the lease area and there is no discharge of effluent or any untreated water from the mines will be made into these water bodies, there is no major impact. The project proponent will restrict the mining operation only within the lease and no other work will 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 4.2 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



Impact on Ground Water

The mining activity is not likely to intersect ground water as the ground water table occurs at a depth of 85 m. The mining will go up to the maximum depth of 42 m 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 Karur District, Aravakurichi Taluk is given below.

TABLE 4.1 Ground Water Level Status in Karur 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	Aravakurichi	1,930.5	1,093.05	44.52	1,137.57	59%	Safe

Source: nwm.gov.in

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

4.2.3 VEGETATIONVEGETATION IN THE CORE ZONE

The mine lease area is devoid of major plantation. Shrubs and bushes are majorly found within the lease area. The proponent has planned to develop green belt in an area of 0.45.5 Ha. Trees like Pongamia pinnata, Syzigium cumini, Albizia lebbeck, Thespesia populnea, Bauhinia racemose, Cassia siamea, Azadirachta indiaca will be planted around the mine lease area. A total of 455 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 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF ENVIRONMENTAL COMPONENTS.

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 1,96,480 m^3 of rough stone and 23,408m^3 of Gravel formation upto a depth of 62m (below ground level) for the period of first five years by the open-cast mechanised mining method.

Cluster quarries production Tmt. M. Raziya (1,96,480 m^3 of rough stone and 23,408m^3 of Gravel), Sri Bharani Murugan Blue Metals (550379 Cu.m of Rough Stone and 43800 Cu.m of Gravel).
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

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 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 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 is 1,96,480 Cu.m of Rough stone and 23,408 Cu.m of Gravel formation upto a depth of 42m (below ground level) for the period of first five years by the open-cast mechanised mining method.

Cluster quarries production Tmt. M. Raziya (1,96,480 m3 of rough stone and 23,408m3 of Gravel), Sri Bharani Murugan Blue Metals (550379 Cu.m of Rough Stone and 43800 Cu.m of Gravel). 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 March 2026 – May 2026 on hourly basis on wind speed, wind direction and temperature has been processed to extract the 24- hourly mean meteorological data as per the guidelines of IMD and MoEF for application of AERMOD model. Stability classes computed for the mean hours is based on guidelines issued by CPCB on modeling. Mixing heights representative of the region have been taken from the available published literature.

4.3.8 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 2.06 µg/m^3 of PM 2.5 & 3.78 µg/m^3 of PM10 within the mine area and surrounding cluster area 2.81 µg/m^3 of PM 2.5 & 4.19 µg/m^3 of PM10, where mining operations are being carried out. The impact of mining operations would be negligible beyond 0.5 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 and Gravel Quarry of Tvl. Mahaganapathi Blue Metal is quantified and presented below:

Area Emissions – Total Material handling (Rough Stone& Gravel)

Quantity, TPA	Rough Stone: 196480 m^3 Grave:23408 m^3 (Five Years)
Operational Hours Per Year	2400
Activity Rate, t/hr.	400.01
Emission of dust, g/t.	0.18
Emission of dust, g /hr.	20.5654
Area of influence, m2	621
Uncontrolled emission rate g/s/m2	0.00004356
Controlled emission rate, PM10 g/s/m2	0.000043568
Controlled emission rate, PM2.5 g/s/m2	0.000027986

Area Emissions – Total Material handling (Cluster Rough Stone & Gravel)

Quantity, m^3	Proposed Quarry: Rough Stone: 196480 m^3 Grave:23408 m^3 Cluster quarry: Tvl. Sree Bharani Murugan Blue Metals Rough Stone: 550379 m^3 Gravel: 43800 m^3
Operational Hours Per Year	2400
Activity Rate, t/hr.	412
Emission of dust, g/t.	0.36
Emission of dust, g /hr.	74.56
Area of influence, m^2	628
Uncontrolled emission rate g/s/m^2	0.0005796
Controlled emission rate, PM10 g/s/m^2	0.00057968
Controlled emission rate, PM2.5 g/s/m^2	0.00041359

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

Quantity, TPA	Rough Stone: 196480 m^3 Grave:23408 m^3 (Five Years)
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	17520
Lead length/trip, Km	2.9
Total VKT/Year	56458
Emission Kg/VKT	0.20
Total emission Kg/Year	23568
Uncontrolled emission rate g/s/m	4.2468
Controlled emission rate, PM10 g/s/m	0.42468
Controlled emission rate, PM2.5 g/s/m	0.25845

Line Source – Transport of Rough Stone & Gravel (Cluster)

Quantity, m^3	**Proposed Quarry:** Rough Stone: 196480 m^3 Grave:23408 m^3 **Cluster quarry:** Tvl. Sree Bharani Murugan Blue Metals Rough Stone: 550379 m^3 Gravel: 43800 m^3
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	68620
Lead length/trip, Km	0.22
Total VKT/Year	745822
Emission Kg/VKT	0.34
Total emission Kg/Year	412567
Uncontrolled emission rate g/s/m	5.0981
Controlled emission rate, PM10 g/s/m	0.50981
Controlled emission rate, PM2.5 g/s/m	0.41456

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

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

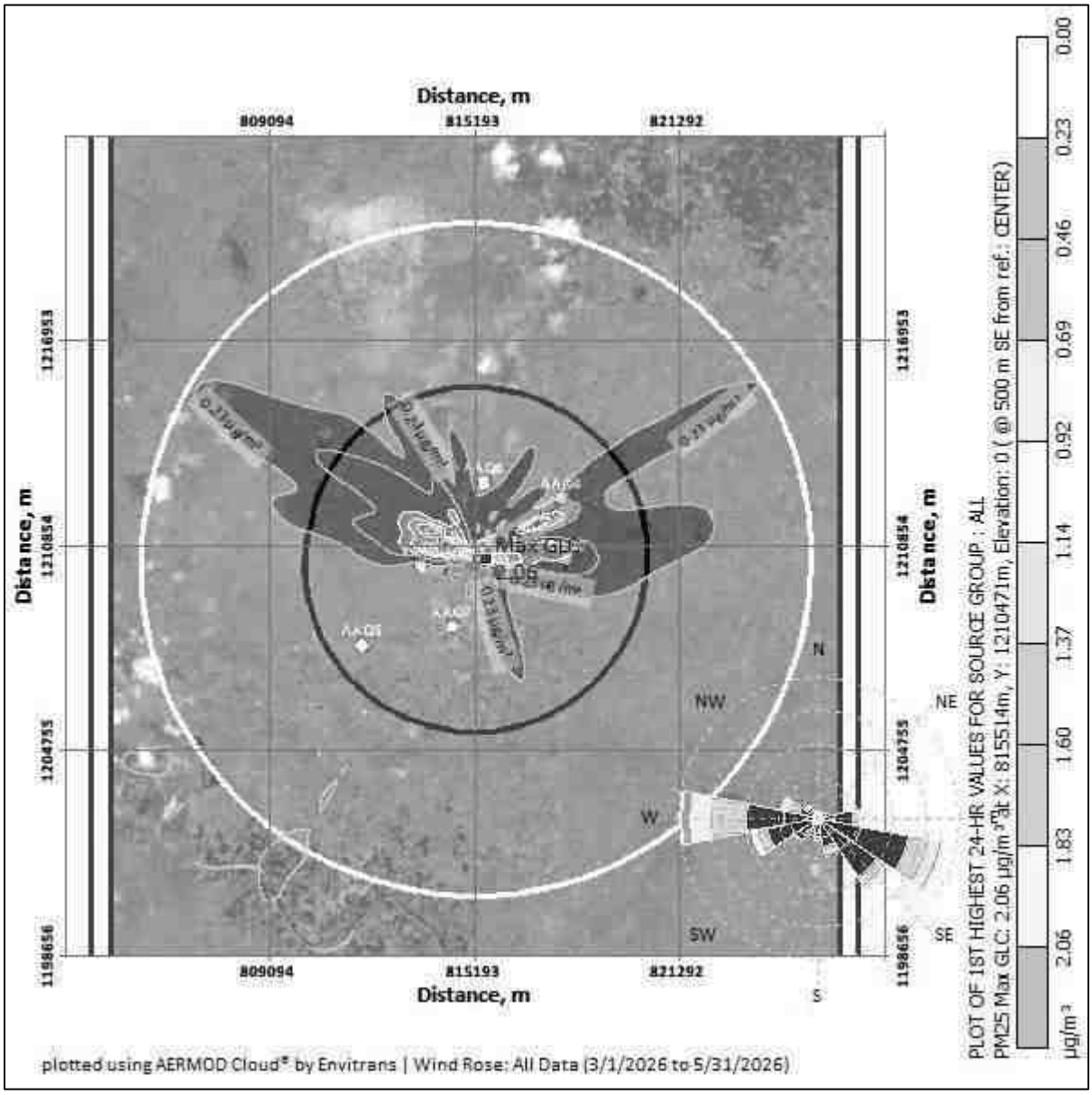


FIG 4.3 Isopleth of GLC Prediction for PM_{10}

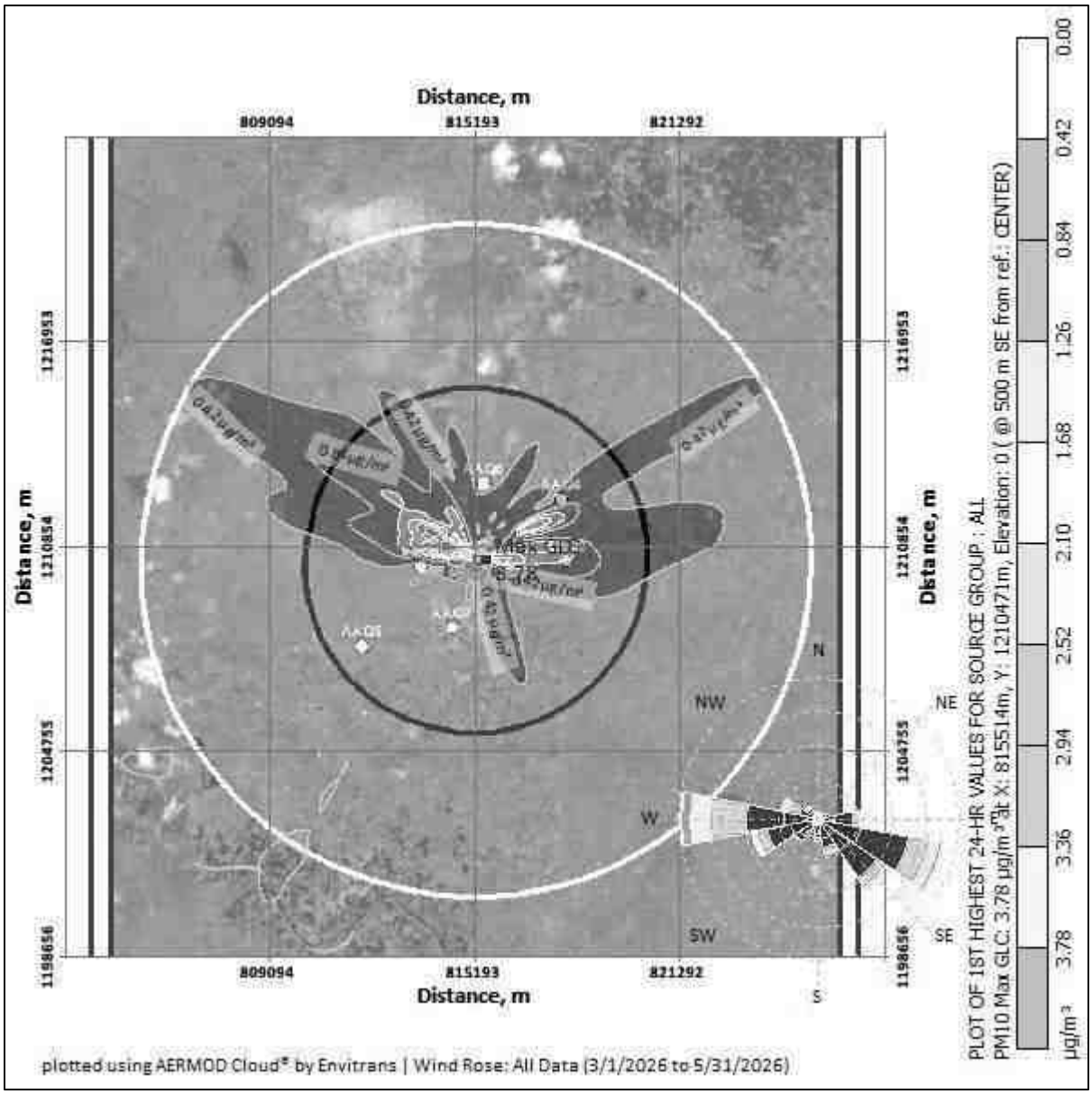


FIG 4.4 Isopleth of GLC Prediction –Cumulative for $PM_{2.5}$

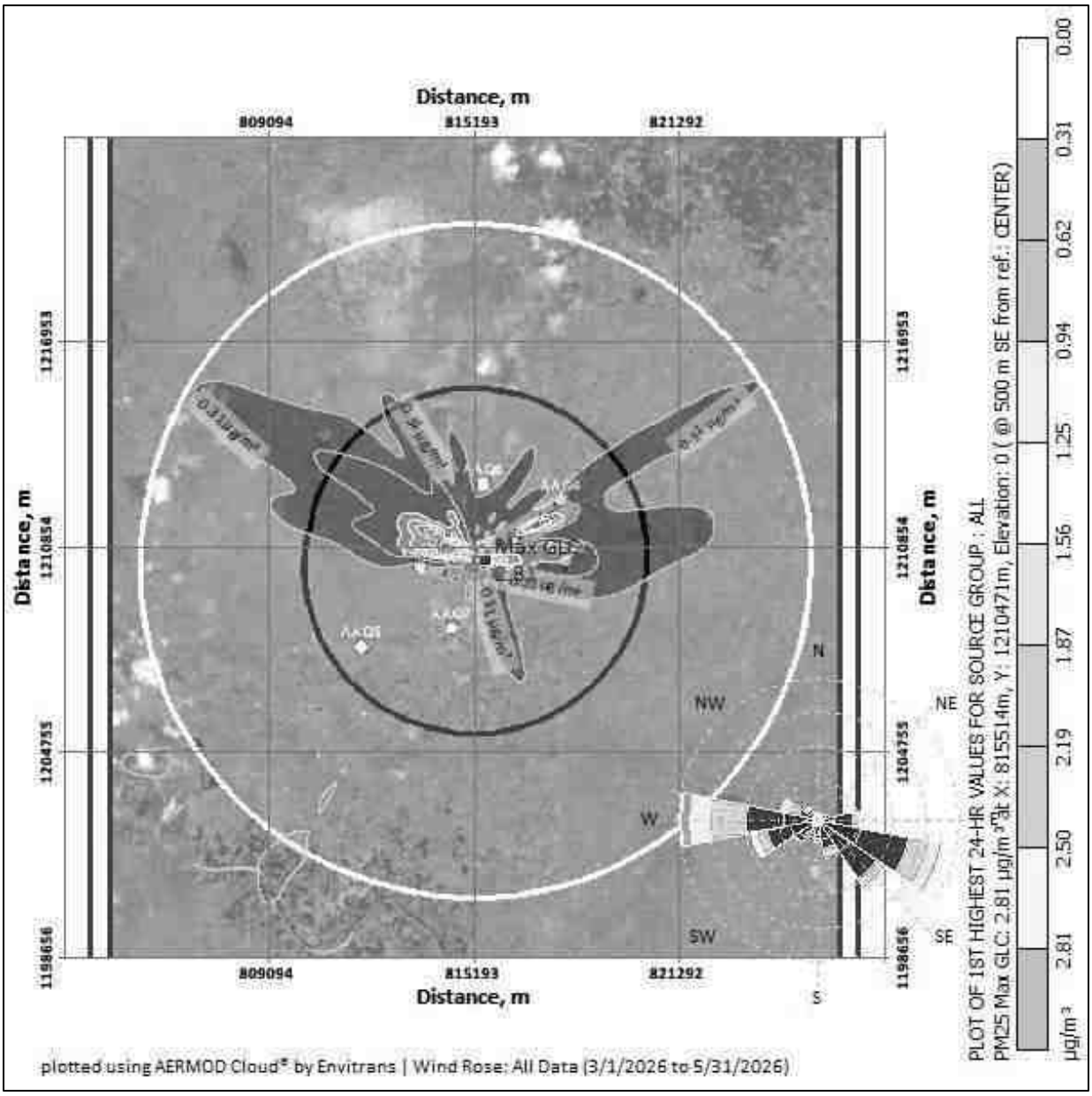
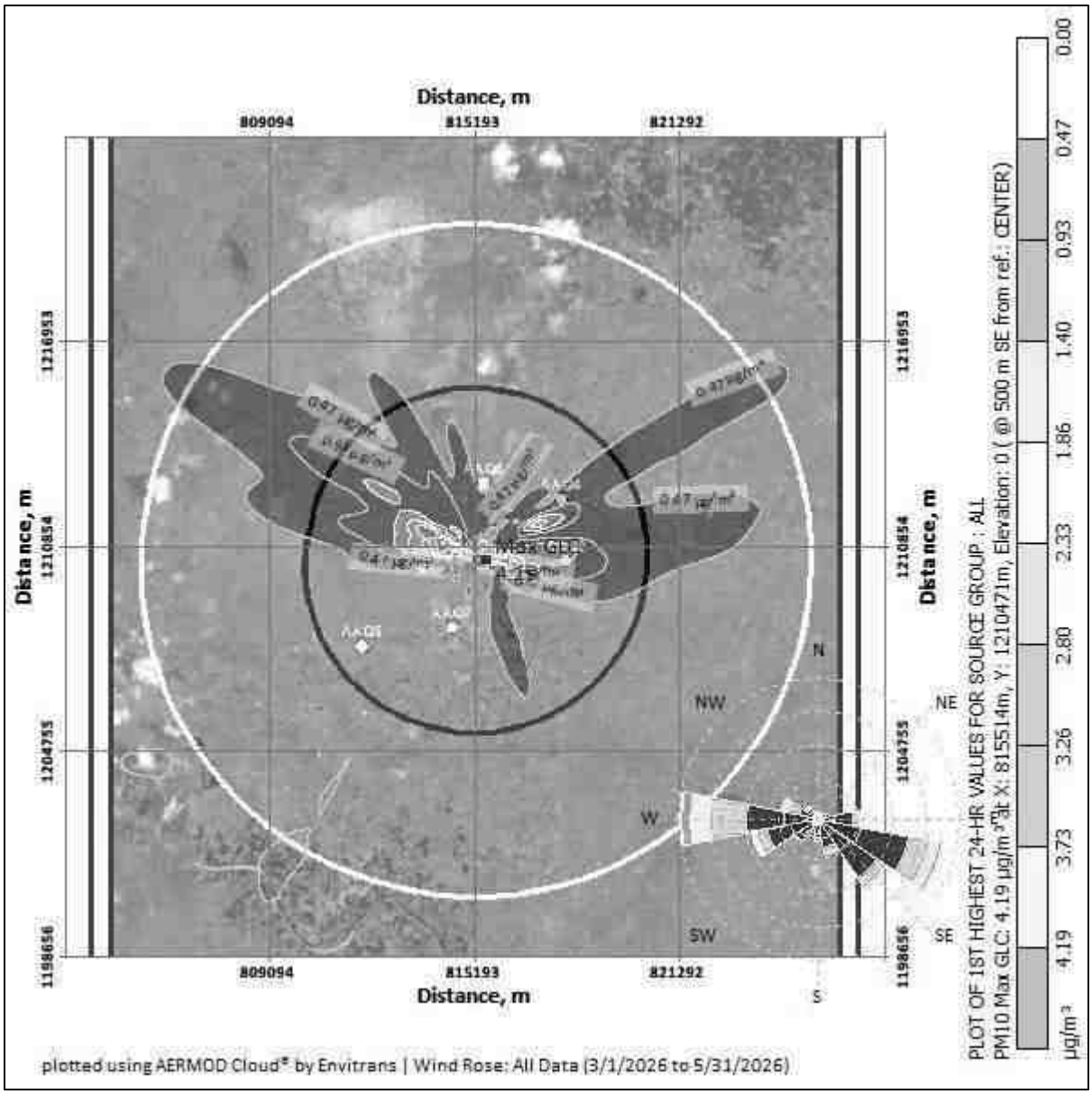


FIG 4.5 Isopleth of GLC Prediction –Cumulative for PM_{10}



PREDICTED AMBIENT AIR QUALITY:

The post project Concentrations of PM10, PM2.5, (GLC) (base line + incremental) after adopting necessary control measures is given in Table No - 4.3 to 4.4.

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	Project Site	37.7	2.06	39.76	60
2	Semandampalayam	30.3	1.83	32.13	
3	Thennilai East	32.7	1.60	34.30	
4	K. Paramathi	31.1	1.37	32.47	
5	Velliyampalayam	28.2	0.69	28.89	
6	Kattumunnur	25.1	0.60	25.70	
7	Nadanthai	24.7	0.46	25.16	

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	Project Site	37.7	2.81	40.51	60
2	Semandampalayam	30.3	2.50	32.80	
3	Thennilai East	32.7	2.19	34.89	
4	K. Paramathi	31.1	1.87	32.97	
5	Velliyampalayam	28.2	1.56	29.76	
6	Kattumunnur	25.1	0.62	25.72	
7	Nadanthai	24.7	0.94	25.64	

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	Project Site	77	3.78	80.78	100
2	Semandampalayam	63	3.36	66.36	
3	Thennilai East	70	2.94	72.94	
4	K. Paramathi	64.1	2.52	66.62	
5	Velliyampalayam	57.2	1.26	58.46	

6	Kattumunnur	53.7	0.84	54.54	
7	Nadanthai	52.7	0.42	53.12	

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	Project Site	77	4.19	81.19	100
2	Semandampalayam	63	3.73	66.73	
3	Thennilai East	70	3.26	73.26	
4	K. Paramathi	64.1	2.23	66.33	
5	Velliyampalayam	57.2	1.86	59.06	
6	Kattumunnur	53.7	0.93	54.63	
7	Nadanthai	52.7	0.47	53.17	

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 53.12 µg/m^3 to 80.78 µg/m^3 and for $PM_{2.5}$ are in the range of 25.16 µg/m^3 to 39.76 µg/m^3 and PM_{10} are surrounding area range of 53.17 µg/m^3 to 81.19 µg/m^3 and for $PM_{2.5}$ are in the range of 25.64 µg/m^3 40.51 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 Semandampalayam, Thernnilai East, K. Paramathi, Velliyampalayam, Kattumunnur and Nadanthai, 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	Project Site	-	50.6	39.8
2	Semandampalayam	2.84km	45.7	39.6
3	Thennilai East	1.62km	49.2	43.8
4	K. Paramathi	3.24km	46.2	40.5

5	Velliyampalayam	4.30km	50.1	38.8
6	Kattumunnur	2.26km	48.5	42.2
7	Nadanthai	2.22km	46.2	40.5

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 six locations mentioned above, during mining operation mine lease area will be considered as industrial area/quarry area for which DGMS norms 85 dB(A)/CPCB guidelines 75 dB(A).

4.4.3 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 27 workers will be engaged in the mining activity. Mining activity may cause various health problems to the mines workers as follows:

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

Table 4.5 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.

RAINWATER HARVESTING PLAN

Since the lease proximate areas are with less water potential and the rainwater is the major source for replenishment of ground water, effective rainwater harvesting and other water augmentation measures are proposed in this project.

- Development of garland drain all around the quarry, connected to settling tank.
- Cleaning of drain periodically to prevent siltation
- Utilizing the rainwater harvested in the mine pit to meet the water requirement of the project.

The average annual rainfall of the area is 724mm. Taking into consideration of 0.35 as runoff co-efficient for mining area

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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, Department of Geology and Mining, Karur, vide Rc.No.22/Mines/2026, dated 12.03.2026.

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

Hence seeking alternative site is not required.

5.3 MITIGATION MEASURES PROPOSED FOR EACH ALTERNATIVE

The mining technology is 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.

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.

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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 – 3.5, 3.12, 3.13 & 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

6.1.9 DETAILED BUDGET AND PROCUREMENT SCHEDULES

The budget planned for environmental monitoring is given below.

Table 6.3 - Environmental Management Plan Budget

Activities	Mitigation Measure	Capital cost	Recurring Cost per Annum
Air Environment	Compaction, gradation and drainage on both sides for Haulage Road	0.08	0.08
	Fixed Water Sprinkling Arrangements + Water sprinkling by own water tankers	5.00	0.25
	Muffle blasting – To control fly rocks during blasting	1.00	0.05
	Wet drilling procedure / latest eco-friendly drill machine with separate dust extractor unit	0.30	0.06
	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	0.06	0.01
	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	0.33
	Installing wheel wash system near gate of quarry	2.00	0.05
Sub-Total (A)		**8.44**	**1.03**
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 (455 Nos.)	0.46	0.09

	Final mine closure – Re-grassing , strengthening the existing fencing, fencing the mined out area with the barbed wire and leaving the void as the water storage area by installing water meter to measure the water level. Monitoring the accumulated water in the mined out voids for the period of 3 years of mine closure.	3.00	0.00
Sub-Total (D)		**3.46**	**0.09**
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	0.27	0.03
	Health checkup for workers will be provisioned	0.00	0.14
	First Aid facility Provision	0.00	0.02
	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	0.17	0.01
	Installation of CCTV cameras in the mines and mine entrance	0.15	0.02
Sub-Total (E)		**0.69**	**0.73**
Grant Total (A+B+C+D+E)		**13.14**	**1.99**
Total EMP Cost for 5 years is 24.14 lakhs i.e., Rs.13.14 Lakhs of Capital Cost + Rs.11 Lakhs of Recurring Cost **(For 5 Years)**			

The proposal for Corporate Environment Responsibility (CER) activities is given as follows;

S. No.	PROPOSED CER ACTIVITIES	COST IN LAKHS.
1	Carrying out of various infrastructural development activities	5.0
Total		**5.0**

The above proposed CER cost will be spent on Panchayat Union Elementary School, K. Paramathi. And I assure you that the proposed CER activities will be completed before the commencement of quarrying operations.

The total project cost is as given below:

Fixed Cost		
Land Cost	:	Rs.9.96 Lakhs
First Aid Room	:	Rs.1.000 Lakh
Rest Shelter	:	Rs.1.000 Lakh
Sanitary Facility	:	Rs.1.000 Lakh
		Total (A)– Rs.12.96 Lakhs
Operational Cost		
Machineries	:	Rs.50.000 Lakhs
Fencing cost	:	Rs.1.500 Lakhs
		Total (B) – Rs. 51.50 Lakhs
EMP Cost		
Air Environment, Noise Environment, Mine Closure, Implementation of EC, Mining Plan & DGMS Condition	**:**	**Total©–Rs.24.14 Lakhs**
CER Cost		
Plantation, Providing A4 papers, Scanner cum printer and Painting the school building	:	**Total (F)– Rs.5.00 Lakhs**
Grand Total (A+B+C+D+E+F)	**:**	**Rs. 93.60 Lakhs**

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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 - Details of Quarries within 500m Radius

S. No	Name and address of the lessee	Village & S. F. Nos	Extent in Hectare	Lease Period
i.	**Expired Quarries**			
1	Vijay Blue Metals, Nallipalayam, Nadanthai Post, K.Paramathi Via, Aravakurichi Taluk, Karur District	491/1B 493/4B, K. Paramathi Village	1.97.0 Ha	17.05.2007 to 16.05.2012
ii.	**Existing Quarries**			
1.	Sri Bharani Murugan Blue Metals, S.F.No.85 K.Paramathi, Nadanthai North & Post, Aravakurichi Taluk, Karur District.	81/1Part 82/2Part 83/1Part 83/2Part 83/3Part 85 Part 87/1Part 87/2Part 88/1Part 88/2Part Nadanthai North Village	4.89.5 Ha	04.03.2022 to 03.03.2027 (SEIAA File No. 8316)
iii.	**Abandoned Quarries**			
	Nil			
iv.	**Proposed Quarries**			
1	Tmt.M.Raziya, W/o. Mohammed, Favourit House, Marayur, Mongam, Malappuram, Ernad, Kerala	85/2 Nadanthai North Village	1.66.0 Ha	Proposed

A cumulative impact of these two proposed quarries has been studied and the details

are given in Chapter IV.

7.3.2 AIR QUALITY IMPACT PREDICTION FOR THE CLUSTER

The AERMOD atmospheric dispersion modeling (AERMOD Cloud remote version) is used for assessment of incremental Ground level concentration (GLC) for the cluster area. Area source model taken into consideration taking into consideration of wet drilling and loading of the cluster mines. Further line source model was taken into consideration for transportation through haul road. Baseline meteorological studies were conducted for the period of March to May 2026. The following sources are considered.

Emission sources & Quantification of the cluster area.

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

Area Emissions – Total Material handling (Rough Stone& Gravel)

Quantity, TPA	Rough Stone: 196480 m3 Grave:23408 m3 (Five Years)
Operational Hours Per Year	2400
Activity Rate, t/hr.	400.01
Emission of dust, g/t.	0.18
Emission of dust, g /hr.	20.5654
Area of influence, m2	621
Uncontrolled emission rate g/s/m2	0.00004356
Controlled emission rate, PM10 g/s/m2	0.000043568
Controlled emission rate, PM2.5 g/s/m2	0.000027986

Area Emissions – Total Material handling (Cluster Rough Stone & Gravel)

Quantity, m^3	Proposed Quarry: Rough Stone: 196480 m3 Grave:23408 m3 Cluster querry: Tvl. Sree Bharani Murugan Blue Metals Rough Stone: 550379 m3 Grave: 43800 m3
Operational Hours Per Year	2400
Activity Rate, t/hr.	412
Emission of dust, g/t.	0.36
Emission of dust, g /hr.	74.56
Area of influence, m^2	628
Uncontrolled emission rate g/s/m^2	0.0005796
Controlled emission rate, PM10 g/s/m^2	0.00057968
Controlled emission rate, PM2.5 g/s/m^2	0.00041359

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

Quantity, TPA	Rough Stone: 196480 m^3 Grave:23408 m^3 (Five Years)
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	17520
Lead length/trip, Km	2.9
Total VKT/Year	56458
Emission Kg/VKT	0.20
Total emission Kg/Year	23568
Uncontrolled emission rate g/s/m	4.2468
Controlled emission rate, PM10 g/s/m	0.42468
Controlled emission rate, PM2.5 g/s/m	0.25845

Line Source – Transport of Rough Stone & Gravel (Cluster)

Quantity, m^3	**Proposed Quarry:** Rough Stone: 196480 m^3 Grave:23408 m^3 **Cluster querry:** Tvl. Sree Bharani Murugan Blue Metals Rough Stone: 550379 m^3 Grave: 43800 m^3
Operational Hours Per Year	2400

Capacity of each Dumper (T)	10
Total No. of Tippers/ year	68620
Lead length/trip, Km	0.22
Total VKT/Year	745822
Emission Kg/VKT	0.34
Total emission Kg/Year	412567
Uncontrolled emission rate g/s/m	5.0981
Controlled emission rate, PM10 g/s/m	0.50981
Controlled emission rate, PM2.5 g/s/m	0.41456

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 7.1 Isopleth of GLC Prediction for $PM_{2.5}$

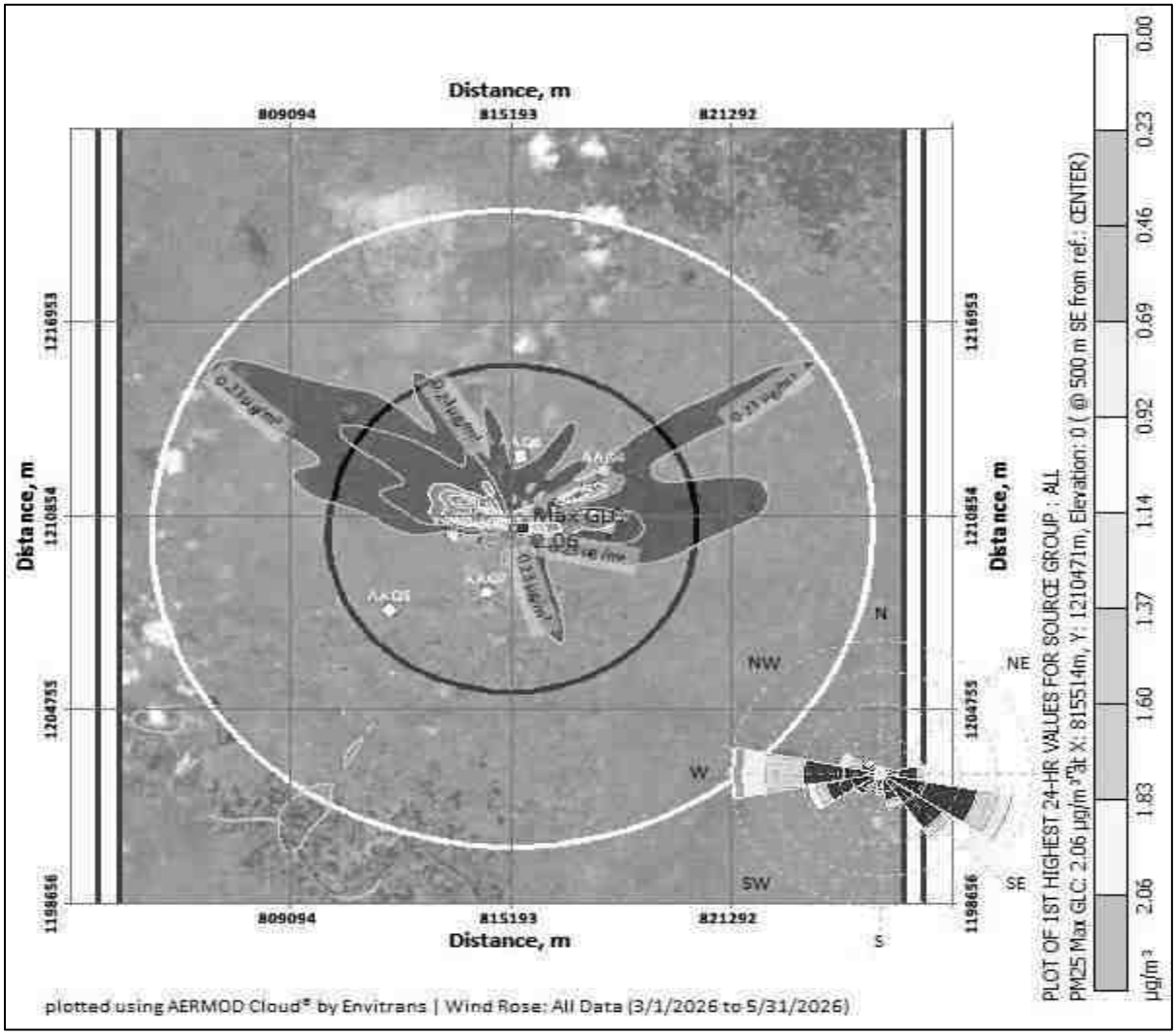


FIG 7.2 Isopleth of GLC Prediction for PM_{10}

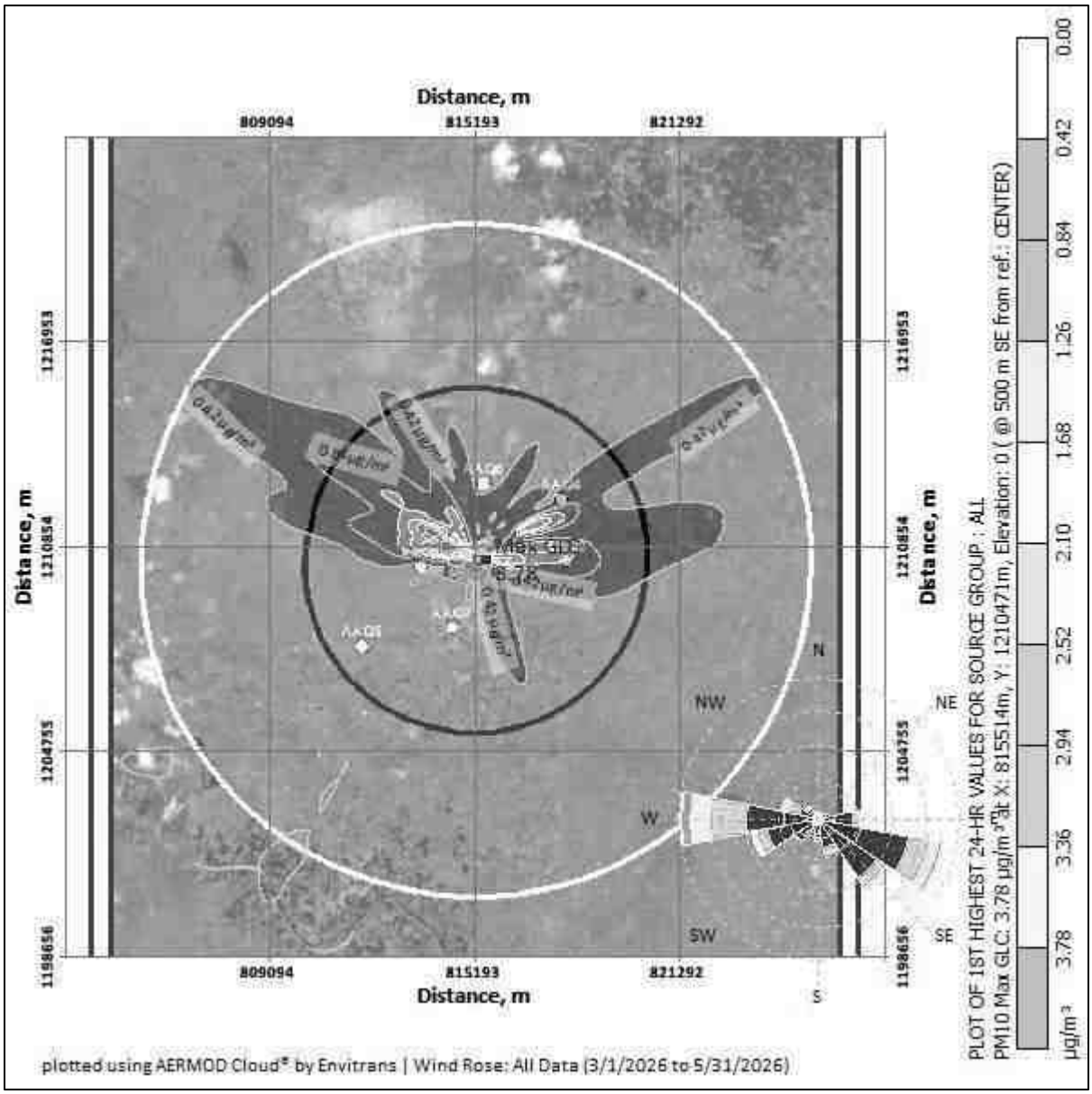


FIG 7.3 Isopleth of GLC Prediction –Cumulative for $PM_{2.5}$

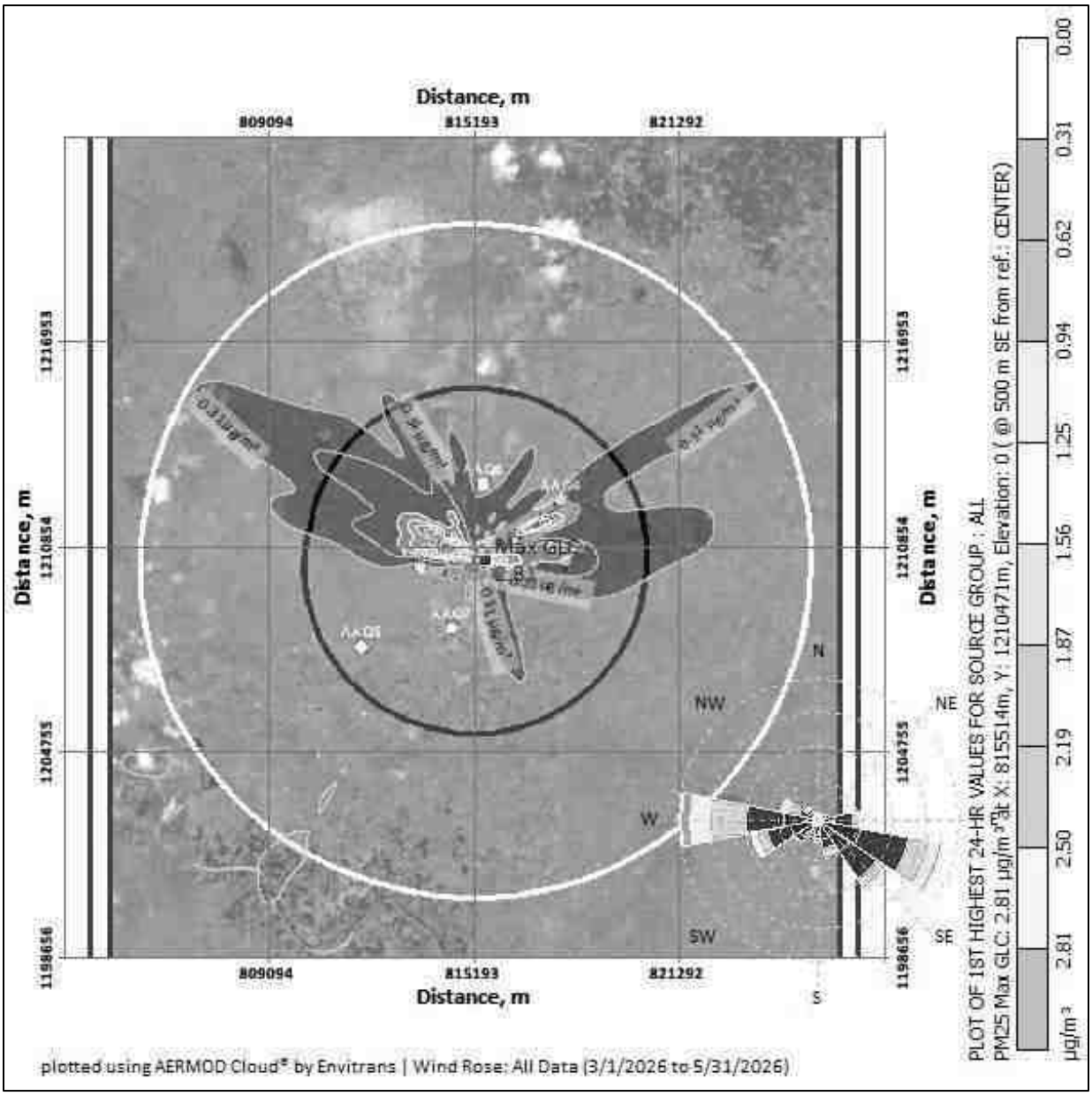
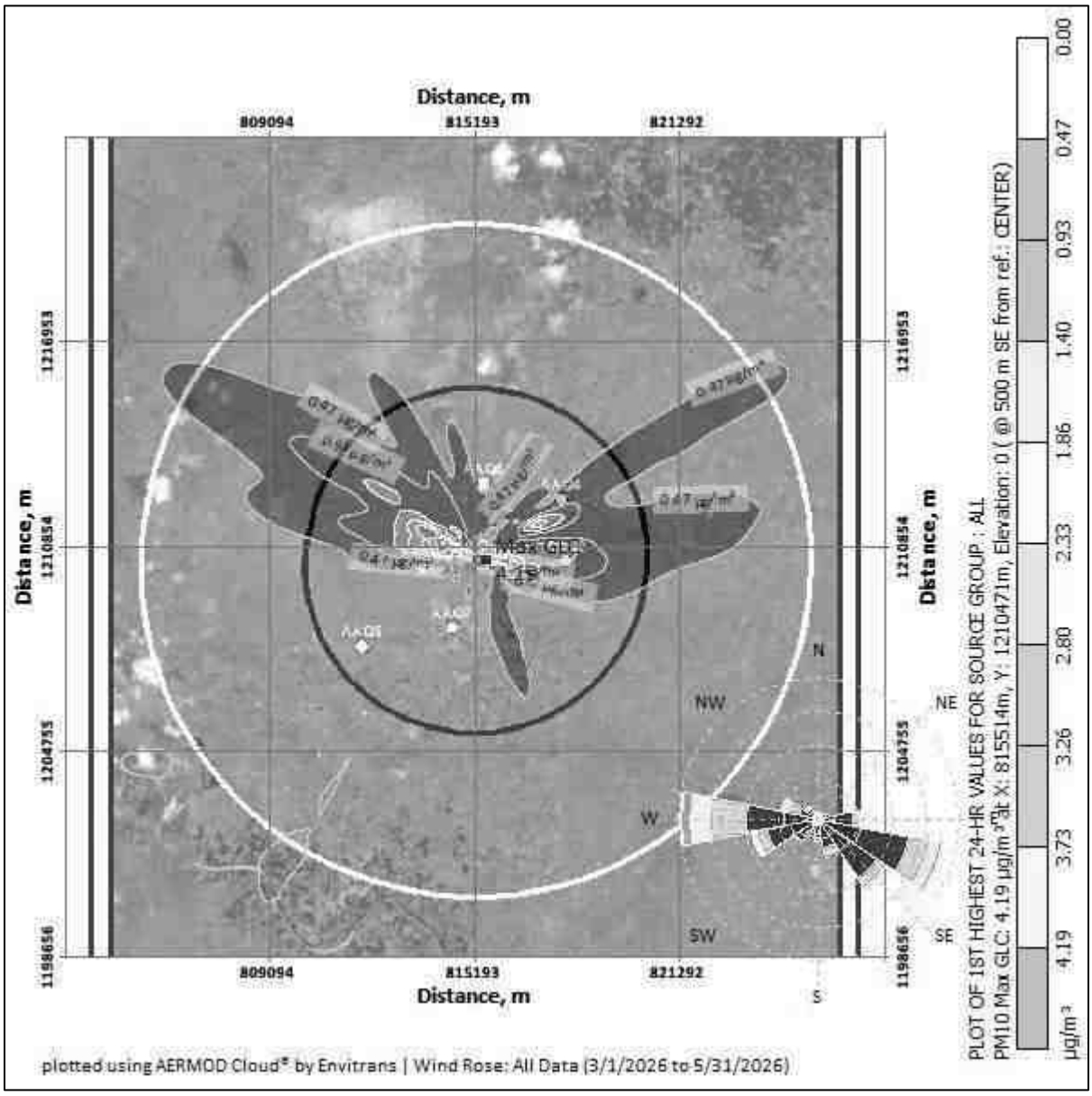


FIG 7.4 Isopleth of GLC Prediction –Cumulative for PM_{10}



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 - 7.4 to 7.4.

Table 7.3 Concentrations of PM2.5 after Project Implementation					
SL. No	**Location**	**Background Concentration**	**Predicted incremental Concentration**	**Post Project Concentration**	**Statutory Limits in µg/m³**
1	Project Site	37.7	2.06	39.76	60
2	Semandampalayam	30.3	1.83	32.13	
3	Thennilai East	32.7	1.6	34.3	
4	K. Paramathi	31.1	1.37	32.47	
5	Velliyampalayam	28.2	0.69	28.89	
6	Kattumunnur	25.1	0.6	25.7	
7	Nadanthai	24.7	0.46	25.16	

Table 7.3a 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	Project Site	37.7	2.81	40.51	60
2	Semandampalayam	30.3	2.5	32.8	
3	Thennilai East	32.7	2.19	34.89	
4	K. Paramathi	31.1	1.87	32.97	
5	Velliyampalayam	28.2	1.56	29.76	
6	Kattumunnur	25.1	0.62	25.72	
7	Nadanthai	24.7	0.94	25.64	

Table 7.3b Concentrations of PM10 after Project Implementation					
SL. No	**Location**	**Background Concentration**	**Predicted incremental Concentration**	**Post Project Concentration**	**Statutory Limits in µg/m³**
1	Project Site	77	3.78	80.78	100
2	Semandampalayam	63	3.36	66.36	
3	Thennilai East	70	2.94	72.94	
4	K. Paramathi	64.1	2.52	66.62	
5	Velliyampalayam	57.2	1.26	58.46	

6	Kattumunnur	53.7	0.84	54.54	
7	Nadanthai	52.7	0.42	53.12	

Table 7.3c Cluster Concentrations of PM10 after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Project Site	77	4.19	81.19	100
2	Semandampalayam	63	3.73	66.73	
3	Thennilai East	70	3.26	73.26	
4	K. Paramathi	64.1	2.23	66.33	
5	Velliyampalayam	57.2	1.86	59.06	
6	Kattumunnur	53.7	0.93	54.63	
7	Nadanthai	52.7	0.47	53.17	

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 53.12 µg/m^3 to 80.78 µg/m^3 and for $PM_{2.5}$ are in the range of 25.16 µg/m^3 to 39.76 µg/m^3 and PM_{10} are surrounding area range of 53.17 µg/m^3 to 81.19 µg/m^3 and for $PM_{2.5}$ are in the range of 25.64 µg/m^3 40.51 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.

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. 4 – Impact on Traffic

TRAFFIC STUDY:						
ToR Condition	**Study Details**	**Study Outcome / Action Plan**				
Standard ToR	**Traffic Study**	**Follows**				
Total Proposed Mineral Transportation of the Cluster Quarries:						
Quarry	**Total Mineral Production in MT Per Day**	**No of Lorries per day**				
P1(Tmt. M. Raziya - Proposed)	**477**	**48**				
P2 (Sri Bharani Murugan Blue metals-Existing)	1398	**140**				
Total	**1875**	**188**				
Since Sri Bharani Murugan Blue Metals already exist, it is part of the current traffic. The proposed projects will add 48 trips per day.						
Summary of Traffic Volume for the Cluster Area						
Route	**Existing Traffic Survey in PCU**	**Incremental Traffic Survey due to project in PCU**	**Total Traffic Survey Volume**	**Hourly capacity in PCU as per IRC - 1960 guidelines**		
NH-81 Karur – Coimbatore 2.1km (N)	**164**	**18**	**182**	**1500**		
Modified Level of Service for the cluster area						
Sampling Location	**Existing Volume (PCU/hr)**	**Existing Capacity Volume/ city ratio**	**Additional Volume (PCU/hr)**	**Modified Volume (PCU/hr)**	**Modified Volume/ Capacity ratio**	**Modified LOS**
NH-81 Karur – Coimbatore 2.1km (N)	**164**	**0.11**	**18**	**0.012**	**0.122**	**B***
A* - Free Flow **Conclusion: The existing road capacity will be Free flow after adding dispatch of proposed cluster quarries.**						

The proposed projects will bring 48 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.

7.3.3 HYDROGEOLOGICAL STUDY

There is Noyyal river is located at a distance of 8.5 km in NW direction of lease area. Due to the presence of these water bodies nearby, a detailed hydrogeological study has been done. As suggested in the Precise Area Communication letter, safety distances of 7.5m to adjacent Patta land.

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 42m (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 42m (BGL) only, which will be achieved in 5 years. The ultimate pit dimension will be length 136 m x Width 87 m x Depth 42 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

Tmt. M. Raziya has proposed Rough stone and gravel quarry over an extent of 1.66.0 ha located at S.F.Nos. 85/2 of Nadanthai North Village, Aravakurichi Taluk, Karur District Tamil Nadu 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 Tmt. M. Raziya, will create direct employment opportunity for 27 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, enclosed as annexure no 13.

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. TO26B0108TN5540061N, dated 15.06.2026 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.
	1.6 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 Noyyal River is located at a distance of 8.5km in NW 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 42 m above ground level, Water table is found at a depth of 85 m, hence the project will not intersect the Ground water table during entire quarry period.
	Water required for this project will be sourced from vendors.

Water Consumption and Wastewater generation	Domestic wastewater generation of 1.2 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) 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.

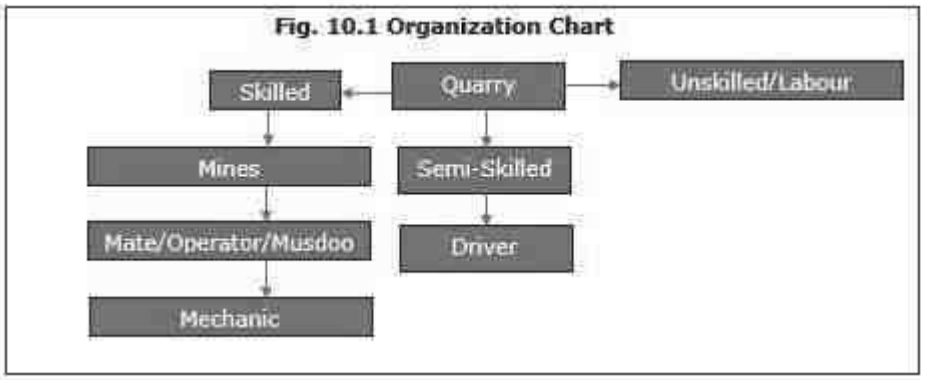
Top Soil / Overburden	There is no overburden anticipated during the quarrying operation.
Biological Environment	During mining, thick plantation will be carried out on the mentioned safety zone areas.
	The main attributes that retard the survival of sapling is fugitive dust, this fugitive dust can be 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 No
		Foreman/Mine Mate	2Nos
		Operator	8 Nos
		Mechanic	1 No
2	Semi-Skilled	Diver	3 Nos
3	Un-skilled	Labours	12 Nos
		Total	**27 Nos**

10.1.4 ENVIRONMENTAL POLICY

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

10.1.5 OCCUPATIONAL SAFETY & HEALTH MANAGEMENT

Occupational safety and health are very closely related to productivity and a good

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

10.1.6 COST OF ENVIRONMENTAL CONTROL MEASURES

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

Table 10.2 - Environmental Management Plan Budget

Activities	Mitigation Measure	Capital cost	Recurring Cost per Annum
Air Environment	Compaction, gradation and drainage on both sides for Haulage Road	0.08	0.08
	Fixed Water Sprinkling Arrangements + Water sprinkling by own water tankers	5.00	0.25
	Muffle blasting – To control fly rocks during blasting	1.00	0.05
	Wet drilling procedure / latest eco-friendly drill machine with separate dust extractor unit	0.30	0.06
	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	0.06	0.01
	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	0.33
	Installing wheel wash system near gate of quarry	2.00	0.05
Sub-Total (A)		**8.44**	**1.03**
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 (455 Nos.)	0.46	0.09
	Final mine closure – Re-grassing , strengthening the existing fencing, fencing the mined out area with the barbed wire and leaving the void as the water storage area by installing water meter to measure the water level. Monitoring the accumulated water in the mined out voids for the period of 3 years of mine closure.	3.00	0.00
Sub-Total (D)		**3.46**	**0.09**
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	0.27	0.03
	Health checkup for workers will be provisioned	0.00	0.14
	First Aid facility Provision	0.00	0.02
	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	0.17	0.01

	Installation of CCTV cameras in the mines and mine entrance	0.15	0.02
Sub-Total (E)		**0.69**	**0.73**
Grant Total (A+B+C+D+E)		**13.14**	**1.99**
Total EMP Cost for 5 years is 24.14 lakhs i.e., Rs.13.14 Lakhs of Capital Cost + Rs.11 Lakhs of Recurring Cost **(For 5 Years)**			

The proposal for Corporate Environment Responsibility (CER) activities is given as follows;

PROPOSED CER ACTIVITIES	COST IN LAKHS.
Carrying out of various infrastructural development activities	5.00

The above proposed CER cost will be spent on Panchayat Union Elementary School, K. Paramathi and I assure you that the proposed CER activities will be completed before the commencement of quarrying operations.

The total project cost is as given below:

Fixed Cost		
Land Cost	:	Rs.9.96 Lakhs
First Aid Room	:	Rs.1.000 Lakh
Rest Shelter	:	Rs.1.000 Lakh
Sanitary Facility	:	Rs.1.000 Lakh
		Total (A)– Rs.12.96 Lakhs
Operational Cost		
Machineries	:	Rs.50.000 Lakhs
Fencing cost	:	Rs.1.500 Lakhs
		Total (B) – Rs. 51.50 Lakhs
EMP Cost		
Air Environment, Noise Environment, Mine Closure, Implementation of EC, Mining Plan & DGMS Condition	**:**	**Total(C)–Rs.24.14 Lakhs**
CER Cost		

Plantation, Providing A4 papers, Scanner cum printer and Painting the school building	:	**Total (F)– Rs.5.00 Lakhs**
Grand Total (A+B+C+D+E+F)	**:**	**Rs. 93.60 Lakhs**

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 24.14 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

Tmt. M. Raziya, has obtained Precise Area communication letter from the Assistant Director, Department of Geology and Mining, Karur to quarry out Mineable reserves of 196480 Cu.m of Rough Stone and 23408 Cu.m of Gravel up to 42m BGL. Proposed production quantity for first five years 196480 Cu.m of Rough Stone and 23408 Cu.m of Gravel up to 42m BGL (below ground level) for the period of first five years over an extent of 1.66.0 ha., located at the Survey No. 85/2 of Nadanthai Village, Aravakurichi Taluk, Karur District, Tamil Nadu State.

As per EIA notification, 2006 and its subsequent amendments the proposed "Rough Stone and Gravel Quarry of Tmt. M. Raziya mines cluster falls under Schedule 1(a) of EIA Notification and its subsequent amendments the project comes under Category B1. The ToR for preparation of EIA/EMP report of the project was approved vide ToR Identification No. TO26B0108TN5540061N, dated 15/06/2026 This report has been prepared in line with the approved TOR for production of maximum excavation of 196480 Cu.m of Rough Stone and 23408 Cu.m of Gravel

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	Fresh
5.	Extent of the lease	1.66.0 Ha
6.	Proposed depth of mining	42m BGL
7.	Method of mining	Opencast Semi-mechanized.
8.	Proposed lease period	5 Years
9.	Proposed Environmental Clearance	5 Years
10.	Mineable reserves (upto 42m BGL) (Quantity in Cu.m)	196480 Cu.m of Rough Stone and 23408 Cu.m of Gravel
11.	Proposed production quantity for first five years (upto 42m BGL)	196480 Cu.m of Rough Stone and 23408 Cu.m of Gravel

The Tmt. M. Raziya is with sound experience in the identification, quarrying and marketing of Rough Stone and Gravel. The proposed land is a Patta land and attached as **Annexure 6.**

1.1.1 LOCATION

The proposed project site is located in Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu State and its Latitude: 10°56'34.57"N to 10°56'39.51"N and Longitude: 77°52'55.14"E to 77°53'00.74"E with Survey of India Topo Sheet No. 58- F/13. To conduct the study, the proposed mine lease area (core zone) and an impact zone of 10 km radius (called buffer zone) around the proposed mine site were considered. The EIA report is based on three months baseline data (i.e. March 2026 to May 2026)

11.1.2 GEOLOGY

The rock type noticed in the area for lease is Charnockite which contains mostly Quartz and Feldspar with some ferromagnesian minerals. The Charnockite is part of peninsular Gneisses, a high-grade metamorphic rock. The strike of the Charnockite formation is $N45^0E$ –$S45^0W$ with dipping towards $SE80^0$.

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 42m below ground level. The geological reserves are estimated to be 669600 m3 of Rough Stone and 33480 m3 of Gravel. The mineable reserve calculated by deducting 7.5m safety distance and bench loss. The mineable reserves are 196480 m3 of Rough Stone and 23408 m3 of Gravel which will be recovered at the rate of 100% recovery upto a depth of 42 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	Proposed
3	Category	B1
4	Nature of mineral	Fresh Quarry
5	Life of the mine	05 years
6	Geological reserves (upto 42m BGL)	669600 m^3 of Rough Stone and 33480 m^3 of Gravel
	Mineable reserves (upto 42 m BGL)	196480 m3 of Rough Stone and 23408 m3 of Gravel
	Proposed production quantity for first five years (upto 42m BGL)	196480 m3 of Rough Stone and 23408 m3 of Gravel
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 9 Nos.
9	Ultimate pit depth	42m 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 4.2 KLD which will be procured from the outside agencies. Out of 1.2 KLD drinking water requirement, Green belt development is 1.4 KLD and dust suppression is 1.6 KLD.
2	Power requirement	No electricity is needed for mining operations, for office demands, it will be met from the state grid. Total Fuel requirement is 161.085 KL of HSD for entire life of the project**.**
3	Manpower requirement	This project will give employment opportunities to 27 people

4	Financial requirement	The total project cost as per PFR will be INR . Rs. 64.46 Lakhs excluding EMP cost and CER 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 Noyyal River / 8.76km / NW Neernilaivilaku / Adjacent / NW Odai / 330m / S Noyal River / 8.5 km / NW
B	Coastal zone, biospheres,	Nil within 10km radius
C	Mountains, forests	Nil within 10km radius
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	Densely Populated K.Paramathi – 3.2km (NE)
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Densely Populated K.Paramathi – 3.2km (NE)
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Nil
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	Nil
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earth quakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions) similar effects	No. The area is not prone to earthquakes, floods, etc.

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

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

11.2 EXPLANATION OF HOW ADVERSE EFFECTS HAVE BEEN MITIGATED

11.2.1 AIR ENVIRONMENT

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

Table 11.2: Details Of Ambient Air Quality Monitoring Locations

S. No.	Station Code	Locations	Distance & Direction	Latitude	Longitude
1	AAQ 1	Project site	Core Zone	10°56'36.39"N	77°52'58.01"E
2	AAQ 2	Semandampalayam	2.84km, E	10°56'32.13"N	77°54'31.06"E
3	AAQ 3	Thennilai East	1.62km, W	10°56'28.83"N	77°52'5.13"E
4	AAQ 4	K. Paramathi	3.24km, NE	10°57'33.41"N	77°54'28.00"E
5	AAQ 5	Velliyampalyam	4.30km, SW	10°55'10.67"N	77°51'6.10"E
6	AAQ 6	Kattumunnur	2.26km, N	10°57'49.55"N	77°53'8.42"E
7	AAQ 7	Nadanthai	2.22km, S	10°55'27.94"N	77°52'37.04"E

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

Station ID	Min	Max	Avg.
Particulate matter PM-$_{2.5}$ (µg/m^3)			
AAQ-1	27.4	37.7	32.6
AAQ-2	23.1	30.3	26.7
AAQ-3	23.9	32.7	28.3
AAQ-4	23.0	31.1	27.1
AAQ-5	20.8	28.2	24.5
AAQ-6	20.2	25.1	22.7
AAQ-7	19.8	24.7	22.3
CPCB NAAQS 2009 for PM $_{2.5}$ - 60 µg/m^3			
Particulate matter PM-$_{10}$ (µg/m^3)			
AAQ-1	55.3	77.0	66.2
AAQ-2	49.1	63.0	56.1
AAQ-3	51.0	70.0	60.5
AAQ-4	47.3	64.1	55.7
AAQ-5	42.9	57.2	50.1
AAQ-6	43.4	53.7	48.6
AAQ-7	42.5	52.7	47.6
CPCB NAAQS 2009 for PM $_{10}$ - 100 µg/m^3			
Sulphur Di-oxide as SO_2 (µg/m^3)			
AAQ-1	6.5	8.7	7.6
AAQ-2	5.6	7.9	6.8
AAQ-3	6.2	9.9	8.1
AAQ-4	5.8	8.5	7.2
AAQ-5	5.6	8.2	6.9
AAQ-6	5.2	7.9	6.6
AAQ-7	4.5	7.3	5.9
CPCB NAAQS 2009 for SO_2 – 80 µg/m^3			
Oxide of Nitrogen as NO_2 (µg/m^3)			
AAQ-1	10.1	13.1	11.6
AAQ-2	10.8	13.4	12.1
AAQ-3	11.4	15.5	13.5
AAQ-4	10.7	13.8	12.3
AAQ-5	10.0	13.5	11.8
AAQ-6	10.3	12.8	11.6
AAQ-7	9.5	12.0	10.8
CPCB NAAQS 2009 for NO_2 – 80 µg/m^3			

11.2.2 WATER ENVIRONMENT

PARAMETERS	GW1	GW2	GW3	GW4	GW5	GW6	GW7	**Limits**
								Permissible Limits
Odour	AGREEABLE	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	**Agreeable**

Turbidity	<1	<1	<1	<1	<1	<1	<1	**5**
pH at 25 °C	7.52	7.61	7.21	7.74	7.87	7.34	7.55	**6.5- 8.5**
Electrical Conductivity	912.6	980.6	642.3	890.5	532.6	975.2	420.6	**-**
Total Dissolved Solids	550	590	386	535	322	586	254	**2000**
Total hardness as $CaCO_3$	292	414	225	301	167	390	156	**600**
Calcium as Ca	62.8	92.8	32.24	70	39	94.4	36.16	**200**
Magnesium as Mg	32.4	43.7	34.7	30.2	16.7	37.0	15.7	**100**
Calcium as $CaCO_3$	157	232	80.6	175	97.5	236	90.4	**-**
Magnesium as $CaCO_3$	135	182	144	126	69.5	154	65.6	**-**
Total alkalinity as $CaCO_3$	266	330	274	320	260	295	236	**600**
Chloride as Cl^-	72.2	198	120	141	56.2	190	40.3	**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)	**1**
Sulphates as SO_4^{2-}	175	43.2	34.6	35.6	24.6	50.3	13.9	**400**
Iron as Fe	0.06	0.05	0.03	0.05	BDL(D.L - 0.01)	0.07	BDL(D.L - 0.01)	**0.3**
Nitrate as NO_3	5.32	2.55	1.72	1.95	BDL(D.L – 1.0)	2.36	BDL(D.L – 1.0)	**45**
Fluoride as F	0.51	0.56	0.34	0.44	BDL(D.L – 0.1)	0.47	BDL(D.L – 0.1)	**1.5**
Manganese as Mn	BDL (D.L - 0.05)	BDL(D.L -0.05)	BDL(D.L -0.05)	BDL(D.L -0.05)	BDL(D.L -0.05)	BDL(D.L -0.05)	BDL(D.L-0.05)	**0.3**

All the values were found to be within permissible limits

11.2.3 NOISE ENVIRONMENT

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

Table 11.3 Noise monitoring results

S. No	Location	Day equivalent	Night equivalent	Day equivalent limits by CPCB	Night equivalent limits by CPCB
1	Project site	50.6	39.8	75	70
2	Semandampalayam	45.7	39.6		
3	Thennilai East	49.2	43.8		
4	K. Paramathi	46.2	40.5		
5	Velliyampalayam	50.1	38.8		
6	Kattumunnur	48.5	42.2		
7	Nadanthai	46.2	40.5		

11.2.4 SOIL ENVIRONMENT

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

Table 11.4 - Result of Soil Analysis

PARAMETER	S1	S2	S3	S4	S5	S6	S7
PH	7.52	7.45	7.84	7.32	7.11	6.96	7.44
EC	52.4	36.9	75.6	120.2	113.5	94.6	76.59
DRY CONTENT	97.45	97.25	95.66	95.68	96.32	96.55	94.78
WATER CONTENT	2.55	2.75	4.34	4.32	3.68	3.45	5.22
ORGANIC MATTER	0.68	1.11	0.74	2.11	2.36	1.86	0.72
PHOSPHOROUS	1.86	2.11	1.42	1.55	1.69	1.21	1.45
TEXTUER	Clay loam	Clay loam	Silt loam	SILT LOAM	SILT LOAM	SILT LOAM	Silt loam
SAND	29.81	31.69	21.55	40.32	36.11	36.89	21.56
SILT	34.26	39.54	52.55	55.74	54.63	52.74	52.66
CLAY	35.93	28.77	25.9	3.94	9.26	10.37	25.78
Total Nitrogen	132	190	116	715	580	699	236
SODIUM	490	496	336	245	256	212	346
POTASSIUM	756	840	673	786	690	656	672
Total Sulphur	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)
Water Holding Capacity	38	35	38	40	38	38	36
Porosity	18.9	19.4	18.6	18.2	19.6	18.2	18.4

11.2.5 BIOLOGICAL ENVIRONMENT

FLORA

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

FAUNA

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

11.2.6 LAND USE

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

Table No. 11.5: Major Land Use Units of the Study Area in Percentage

Sl.No.	Land Use / Land Cover	Area in Sq.Km	Area in Percentage
1	Built-up land	3.8	1.2
2	Crop land	268.02	85.31
3	Existing Quarry	2.79	0.88
4	Fallow land	0.38	0.12
5	Land with scrub	19.52	6.21
6	Land without scrub	2.6	0.82
7	Plantations	15.04	4.78
8	Salt Affected Land	0.39	0.12
9	Water bodies	1.62	0.56
	Total Area	**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.
- Amenities available.

The expert visited 5 villages in the study area namely Nadanthai village, K. Paramathi, Thennilai East, Semandipalayam village and Kattumunnur village. 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 centres and Nalmukkal. 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 k. Paramathi. Major schools with higher secondary and senior secondary schools are located in Nadanthai. Facilities like petrol pump stations, ATM facility are available in Nadanthai.

11.2.8 HYDROGEOLOGY OF THE LEASE AREA

There is Noyyal River is located at a distance of 8.5 km in NW direction of lease area, the hydrological and hydrogeological pattern of the study area is studied in detail using satellite imagery.

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

11.2.9 GROUND WATER STUDY

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

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

As far as the mining lease area is considered, the area is rocky and no major seepage is envisaged. The production quantity is very less and the depth proposed is 42 m 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 42 m BGL. Other than quarrying of minerals, no other change will be done since there is no dumping. To prevent soil erosion during monsoon season, garland drain will be constructed with silt traps. At the mine closure stage, 1.18.5 Ha of lease area will be left as rain water harvesting pond. 0.45.5 Ha will be developed with green belt. For this, plants like Pongamia pinnata, Syzigium cumini, Albizia lebbeck, Thespesia populnea, Bauhinia racemose, Cassia siamea, Azadirachta indiaca are selected. A total of 455 trees are planned to be planted. Spacing will be 3m x 3m.

11.2.11 WATER ENVIRONMENT: IMPACT AND MITIGATION MEASURES

There is no water body present inside the lease area. The entire water requirement for the project is 4.2 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 42m (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 7.5HP 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
Neernilaivilaku	Adjacent	NW
Odai	330m	S
Noyal River	8.5 km	NW

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

11.2.12 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.

11.2.13 AIR ENVIRONMENT: IMPACT AND MITIGATION MEASURES

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

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

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

11.2.14 NOISE ENVIRONMENT: IMPACT AND MITIGATION MEASURES

Impacts

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

Mitigation measures

- As the distance between the source and receptor increases, the noise level also decreases. Hence, there will be a natural attenuation

- The proposed has planned to develop green belt in the periphery of the lease area, which diminishes sound volume by dampening them.
- All the equipment/machinery/trucks involved will be properly maintained to control noise generation
- Conducting regular health checkups for employees involved
- Employees will be made to work on shifts to reduce their exposure time
- Providing earplugs to all employees

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

11.2.15 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

11.2.16 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.

11.2.17 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.

11.2.18 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 24.14 Lakhs is allocated.

11.2.19 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 27 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 an 24.14 lakhs for the 05 years has been allocated as EMP cost. The EMP is dynamic, flexible and subjected to periodic review. For project where the major environmental impacts are associated, EMP will be under regular review. Thus, the proper steps will be taken to accomplish all the goals mentioned in the EMP and the project will bring the positive impact in the study area.

*****

CHAPTER 12

DISCLOSURE OF CONSULTANTS

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

Declaration by Experts contributing to the proposed Rough Stone and Gravel Quarry over an extent 1.66.0 Ha, while total cluster area of 6.55.5 Ha at Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu State.

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

EIA Coordinator Name: M. Manikandan

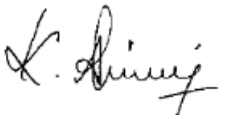
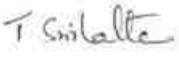


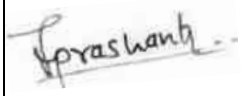
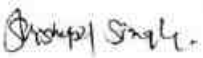
Signature & Date

Period of involvement: March 2026 to May 2026.

Contact information:

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

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

			ground level concentration of the dust. Suggesting suitable mitigation measures. <u>*Period: March 2026 to May 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: March 2026 to May 2026.*</u>	
9	*LU*	*Dhanalakshmi Ramanathan*	*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: March 2026 to May 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.* <u>*Period: March 2026 to May 2026.*</u>	
11	*SC*	*Shisupal Sing*	*Soil monitoring, secondary data collection on soil type, soil management practices, utilization of topsoil.* <u>*Period: March 2026 to May 2026.*</u>	
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.* <u>*Period: March 2026 to May 2026.*</u>	

TM-FAE:

S.No	Name of TM (FAE)	Functional Area	Approved FAE (to work under)	Period of involvement	Type of work	Signature
1	M.Prabu	LU	T.Srilatha	*March 2026 to May 2026.*	Associated with FAE in preparing Land use map based on satellite imagery, Land use classification and analysis, Impact prediction on surrounding land environment	
		HG	Ashok Kumar		Associated with FAE in studying hydrogeological pattern of study area, Studying ground water and the impact of the project on ground water	
2	M. Manikandan	EB	S.Saravanan	*March 2026 to May 2026*	Associated with the expert in baseline data collection related to ecology of the study area	
		SC	Shishupal Singh		Associated with the expert in Soil monitoring, secondary data collection on soil type, soil management practices, utilization of top soil	

TM-FAA:

S. No	Name of TM (FAA)	Functional Area	Approved FAE (to work under)	Period of involvement	Type of work	Signature
1	Suresh	WP	*Abirami Kaliaperumal*	*March 2026 to May 2026*	Associated with the expert in assessing existing water quality, studying impact of the project on surface and ground water quality, suggesting mitigation measures for minimizing impact	M.Suresh
		AP	*Dhanalakshmi Ramanathan*		Associated with expert in assessing existing air quality, impact of the project on ambient air and suggesting mitigation measures for air pollution	
2	S. Kamaraj	SC	Shishupal Singh	*March 2026 to May 2026*	Associated with the expert in Soil monitoring, secondary data collection on soil type, soil management practices, utilization of top soil	S. Kamaraj
		RH	S.V.Prashant		Associated with the expert in Identification of the Risk related to the mining activities. Preparation of emergency disaster management plan. Plan for supply of safety equipment for the workers	
3.	S. Asan Ali	WP	*Abirami Kaliaperumal*	*March 2026 to May 2026*	Associated with the expert in assessing existing water quality, studying impact of the project on surface and ground water	

					quality, suggesting mitigation measures for minimizing impact	
		GEO	*Valliappan Meyyappan*		Associated with the expert in preparing Geological map, assessing stability of quarry slope faces and dump, management plan for mine stability, after use of mining quarry and geological features of the area	S. Asan ali
		AP	Dhanalakshmi Ramanathan		Associated with expert in assessing existing air quality, impact of the project on ambient air and suggesting mitigation measures for air pollution	
		NV	Dhanalakshmi Ramanathan		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.	
4.	Mownica. B	AP	Dhanalakshmi Ramanathan	*March 2026 to May 2026*	Associated with expert in assessing existing air quality, impact of the project on ambient air and suggesting mitigation measures for air pollution	

		NV	Dhanalakshmi Ramanathan		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.	Monica
5.	G.Balasubramani	GEO	*Valliappan Meyyappan*	*March 2026 to May 2026*	with the expert in preparing Geological map, assessing stability of quarry slope faces and dump, management plan for mine stability, after use of mining quarry and geological features of the area	
			Dhanalakshmi Ramanathan		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.	

ANNEXURE-1

सत्यमेव जयते

File No: 13642

State Environment Impact Assessment Authority (SEIAA), Tamil Nadu

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

Dated: **15/06/2026**

To,

RAZIYA PUTHAN PEEDIKAKKAL
Favourit House, Morayur, Mongam, Malappuram, Ernad, Kerala - 673642, MALAPPURAM,.
faisalfavourite@gmail.com

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

Sir/Madam,

Sub: SEIAA- TN Proposed Rough stone & Gravel Quarry over an Extent of 1.66.0 Ha at S.F.No. 85/2 of Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu by Tmt.M.Raziya - under project category – "B1" of Item 1(a) "Mining of Minerals" of the Schedule to the EIA Notification, 2006 as amended– ToR issued along with Public Hearing- preparation of EIA report – Regarding.

Ref:

1. Online proposal No. SIA/TN/MIN/575050/2026, Dated 10/04/2026
2. Minutes of the 712th SEAC-II meeting held on 08.05.2026.
3. Minutes of the 1011th meeting of SEIAA held on 09.06.2026.

2. The particulars of the proposal are as below:

(i) TOR Identification No.	TO26B0108TN5540061N
(ii) File No.	13642
(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 Tmt.M.Raziya
(vii) Name of Company/Organization	RAZIYA PUTHAN PEEDIKAKKAL
(viii) Location of Project (District, State)	KARUR, 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 09.06.2026. 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 **Tmt.M.Raziya** 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 T**ORs with public hearing prescribed shall be valid for a period of three years** from the date of issue, for submission of the EIA/EMP report as per OMNo.J-11013/41/2006-IA-II(I)(part) dated 29th August, 2017.

Copy To

N/A

Annexure 1

Specific Terms of Reference s for (Mining Of Minerals)

1. Seac Conditions - Site Specific

S. No	Terms of Reference
1.1	**Major Conditions:** 1. The stream located within the proposed project site shall be diverted only after obtaining the necessary approvals from the competent authority, and appropriate mitigation measures shall be incorporated into the Environmental Management Plan (EMP). 2. The Project Proponent shall submit a groundwater study / hydrological report along with the Environmental Impact Assessment report. **General Conditions:** 1. **A Cluster Management Committee (CMC) shall be constituted including all the mines in the cluster as Committee Members for the effective management of the mining operation in the cluster through systematic & scientific approach with appointment of statutory personnel, appropriate environmental monitoring, good maintenance of haul roads and village/panchayat roads, authorized blasting operation etc. The PP shall submit the following details in the form of an Affidavit during the EIA appraisal:** **(i) Copy of the agreement forming CMC.** **(ii) The Organisation chart of the Committee with defining the role of the members** **(iii) The 'Standard Operating Procedures' (SOP) executing the planned activities**. 2. The Geo referenced Boundary pillars to be erected on the field as per the mine rules and the evidence should be submitted along with the EIA report.

S. No	Terms of Reference
	3. The details of enumeration of structures including schools, colleges, primary health centres should be submitted along with the EIA report. 4. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300m & up to 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc. and spell out the mitigation measures to be proposed for the protection of the above structures, if any during the quarrying operations. 5. The proponent shall furnish photographs of adequate fencing; garland drainage built with siltation tank & green belt along the periphery including replantation of existing trees; maintaining the safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan. 6. The Proponent shall carry out Bio diversity study as a part of EIA study and the same shall be included in the Report. 7. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine. 8. The PP shall carry out the comprehensive studies on the cumulative environmental impacts of the existing & proposed quarries which included drilling & blasting, loading & hauling on the surrounding village and structures. 9. The PP shall prepare a conceptual working plan accommodating the inclusion of haul road accessibility keeping the benches intact, by ensuring the slope stability of the working benches to be constructed and existing quarry wall. 10. The PP shall install the CCTV camera for the continuous surveillance of mining activity & furnish the photographic/video graphic evidence along with the EIA report.

2. Seiaa Specific Conditions :

S. No	Terms of Reference
2.1	After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing for the quantity of **1,96,480m^3 of Rough Stone & 23,408m^3 Gravel up to the depth of 42m BGL and the annual peak production shall not exceed 39,380 m^3 of Rough Stone & 17,402 m^3 Gravel** as per the approved mining plan, under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions & the SEIAA Standard conditions.

3. Seiaa Standard Conditions :

S. No	Terms of Reference
3.1	**<u>Cluster Management Committee</u>** 1. Cluster Management Committee shall be framed which must include all the proponents in the cluster as members including the existing as well as proposed quarry. 2. The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc., 3. The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease and the same shall be updated every year to the AD/Mines. 4. Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network.

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

S. No	Terms of Reference
	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. **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 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

S. No	Terms of Reference
	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 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)

S. No	Terms of Reference
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
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

S. No	Terms of Reference
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
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

S. No	Terms of Reference
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

SEAC Standard Conditions;

1. In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following:
    (i) Original pit dimension
    (ii) Quantity achieved Vs EC Approved Quantity
    (iii) Balance Quantity as per Mineable Reserve calculated.
    (iv) Mined out Depth as on date Vs EC Permitted depth
    (v) Details of illegal/illicit mining
    (vi) Violation in the quarry during the past working.
    (vii) Quantity of material mined out outside the mine lease area
    (viii) Condition of Safety zone/benches
    (ix) Revised/Modified Mining Plan showing the benches of not exceeding 6 m height and ultimate depth of not exceeding 50m.
2. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
4. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the water bodies like lake, water tanks, etc are located within 1 km of the proposed quarry.
5. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
6. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall the PP shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel

Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC.

8. However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
13. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
14. Quantity of minerals mined out.
    - Highest production achieved in any one year
    - Detail of approved depth of mining.
    - Actual depth of the mining achieved earlier.
    - Name of the person already mined in that leases area.
    - If EC and CTO already obtained, the copy of the same shall be submitted.
    - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.

15. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc.,
17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same.
19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
20. The Project Proponent shall conduct t he hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds, etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & *flora/fauna including traffic/vehicular movement study*.
22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.

23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
28. Impact on local transport infrastructure due to the Project should be indicated.
29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
32. *The purpose of Green belt around the project is to capture the fugitive emissions, carbo*n sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.

33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
34. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
35. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detail ed.
37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
41. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.

43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

STANDARD TERMS OF REFERENCE

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

stakeholders at large, may also be detailed in the EIA Report.

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

required, should be worked out with cost implications and submitted.

17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.

18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.

19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.

20) Similarly, for Coastal Projects, a CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease with respect to CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).

21) *R&R Plan/compensation details for the Project Affected People (PAP) should be* furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the

mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.

22) One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.

23) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of Vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.

24) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.

25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.

26) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.

27) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.

28) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the

aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.

29) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.

30) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.

31) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted cle arly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.

32) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.

33) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.

34) *Conceptual post mining land use and Reclamation and Restoration of mined out area*s (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 -11013/77/2004-IA-II(I) dated 2nd December, 2009, 18th March 2010, 28th May 2010, 28th June 2010, 31st December 2010 & 30th September 2011 posted on the Ministry's website http://www.moef.nic.in/ may be referred.

- After preparing the EIA (as per the generic structure prescribed in Appendix-III of the EIA Notification, 2006) covering the above mentioned points, the proponent willtake further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.

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

Validity unknownSignature valid

Digitally Signed by : Mrs Asha Ajith IAS
Member Secretary, SEIAA

Date: 22/06/2026

ANNEXURE-2

ANNEXURE 1

நக.எண். 22/கனிமம்/2026

மாவட்ட ஆட்சியர் அலுவலகம்
புவியியல் மற்றும் சுரங்கத்துறை
கரூர்

நாள்:05.03.2026

குறிப்பாணை

பொருள்: **கனிமங்களும் குவாரிகளும்** - கரூர் மாவட்டம், அரவக்குறிச்சி வட்டம், நடந்தை வடக்கு கிராமம், பட்டா புல எண்.85/2 1.66.0 ஹெக்டோஸ் - சாதாரணகற்கல் மற்றும் கிராவல் குவாரி குத்தகை உரிமம் வேண்டி திருமதி.M.ரஷியா என்பவர் விண்ணப்பம் செய்தது - வருவாய் கோட்டாட்சியர் நிலயிருப்பு அறிக்கை வரப்பெற்றது - தகுதியான நிலப்பரப்பாக கருதி ஏற்பளிக்கப்பட்ட சுரங்க திட்டம் மற்றும் மாநில சுற்றுச்சூழல் தாக்கல் மதிப்பீட்டு ஆணைய இசைவினை பெற்று சமர்பிக்கக் கோருதல் - தொடர்பாக.

பார்வை:

1. திருமதி.M.ரஷியா, க/பெ.முஹமது, பேவரிட் ஹவ்ஸ், மொறையூர், மோன்கம், மலப்புரம், எர்நாடு, கேரளா-673642 குவாரி குத்தகை உரிமம் வழங்கக் கோரும் இணையவழி விண்ணப்பம் நாள்: 24.11.2025.
2. வருவாய் கோட்டாட்சியர், கரூர் அவர்களின் நில இருப்பு அறிக்கை ந.க.எண். அ1/55/2026, நாள்:02.02.2026
3. திருமதி.M.ரஷியா, க/பெ.முஹமது, என்பவரின் கடித நாள்:02.02.2026
4. உதவி புவியியலாளர் மற்றும் தனிவருவாய் அலுவலர், புவியியல் மற்றும் சுரங்கத்துறை கரூர் ஆகியோரின் கூட்டு புலத்தணிக்கை அறிக்கை நாள்: 06.02.2026 மற்றும் 04.03.2026
5. துணை இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை, கரூர் அவர்களின் அறிவிப்பு நக.எண்/கனிமம்/2026, நாள்: 11.02.2026.
6. திருமதி.M.ரஷியா, க/பெ.முஹமது, என்பவரின் கடித நாள்:03.03.2026
7. அரசாணை (பல்வகை) எண். 169, தொழில் (எம்எம்.சி-1) துறை நாள்: 04.08.2020 இணைத்து வரப்பெற்றுள்ளது. (தமிழ்நாடு அரசிதழ் சிறப்பு வெளியீடு எண். 315 நாள்: 04.08.2020).

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கரூர் மாவட்டம், அரவக்குறிச்சி வட்டம், நடந்தை வடக்கு கிராமம், பட்டா புல எண்.85/2, 1.66.0 ஹெக்டோஸ் பரப்பு நிலத்திலிருந்து பத்து ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க பேவரிட் ஹவ்ஸ், மொறையூர், மோன்கம், மலப்புரம் , எர்நாடு, கேரளா-673642 என்ற முகவரியில் வசித்து வரும் திருமதி.M.ரஷியா, க/பெ.முஹமது என்பவர் பார்வை 1-இல் கண்டுள்ளவாறு விண்ணப்பம் செய்துள்ளார்.

மேற்படி விண்ணப்பம் தொடர்பாக, பார்வை -2 இல் வருவாய் கோட்டாட்சியர், கரூர் அவர்கள் புலத்தணிக்கை மேற்கொண்டு அரவக்குறிச்சி வட்டம், நடந்தை வடக்கு கிராமம், பட்டா புல எண்.85/2, 1.66.0 ஹெக்டோஸ் பரப்பில் மட்டும் தமிழ்நாடு சிறு கனிமச்சலுகை விதிகளில் விதி எண்கள்.19-(1), 20 மற்றும் 22-இன் கீழ் திருமதி.M.ரஷியா என்பவருக்கு 10 ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்க நிபந்தனைகளுக்குட்பட்டு அனுமதி வழங்கலாம் என பரிந்துரை செய்துள்ளார்.



பார்வை-3 இல் காணும் கடிதத்தில் திருமதி.M.ரஷியா, க/பெ.முஹமது என்பவர் விண்ணப்பபுலத்தின் நடுவே சென்ற நீரிநிலை விளக்கியினை மாவட்ட வருவாய் அலுவலர், கரூர் அவர்களின் செயல்முறை ஆணை ப.மு.ஆ1/11164/2025, நாள்:05/12.2025-இன்படி விண்ணப்பபுலத்திற்கு வெளியில் வடமேற்கு திசையில் மாற்றி அமைக்கப்பட்டுள்ளது என தெரிவித்துள்ளார்.

பார்வை-5 இல் வருவாய் கோட்டாட்சியர், கரூர் மற்றும் உதவி புவியியலாளர், புவியியல் மற்றும் சுரங்கத்துறை, கரூர் ஆகியோரின் பரிந்துரைகள் மற்றும் நிபந்தனைகளின் அடிப்படையில் கரூர் மாவட்டம், அரவக்குறிச்சி வட்டம், நடந்தை வடக்கு கிராமம், பட்டா புல எண்.85/2 1.66.0 ஹெக்டோஸ் பரப்பில் 1959-ம் வருட தமிழ்நாடு சிறுகனிம விதிகள், விதி எண். 19(1), 20 மற்றும் 22-இன்படி நிபந்தனைகளுக்கு உட்பட்டு பத்து வருட காலத்திற்கு திருமதி.M.ரஷியா, எனபவருக்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்குவதற்கு கீழ்கண்ட சிறப்பு நிபந்தனைகளுக்குட்பட்டு தகுதியான நிலப்பரப்பாக கருதி தமிழ்நாடு சிறு கனிம சலுகை விதிகள்-1959 விதி எண்.41-இன்படி குவாரிப்பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்க திட்டத்தினை 90 தினங்களுக்குள் சமர்ப்பிக்க அறிவுறுத்தப்பட்டது.

சிறப்பு நிபந்தனைகள்:-

1) விண்ணப்ப புலத்திற்கு மேற்கில் புல எண் 86-இல் தென்வடலாக செல்லும் வண்டிப்பாதைக்கு 10 மீட்டரும் மற்றும் தென்வடலாக செல்லும் தாழ்வழுத்த மின்பாதைக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு யாதொரு சேதமுமின்றி குவாரிப் பணி செய்ய வேண்டும்
2) விண்ணப்ப புலத்திற்கு வடமேற்கில் செல்லும் நீரிநிலைவிளக்கிக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு யாதொரு சேதமுமின்றி குவாரிப் பணி செய்ய வேண்டும்.

பார்வை-6 இல் காணும் கடிதத்தில் திருமதி.M.ரஷியா, க/பெ.முஹமது என்பவர் விண்ணப்பபுலத்திற்கு மேற்கில் தென்வடலாக செல்லும் தாழ்வழுத்த மின்பாதையினை குத்தகை உரிமம் கோரும் புல எண்ணிற்கு 50 மீட்டருக்கு அப்பால் அகற்றிவிட்டதாக தெரிவித்துள்ளார். மேலும், மின்பதைக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு குவாரிப்பணி செய்ய வேண்டும் என்று பார்வை -5 -இல் கண்டுள்ள குறிப்பாணையில் தெரிவிக்கப்பட்டுள்ள சிறப்பு நிபந்தனைகளிலிருந்து நீக்கம் செய்தும் மற்றும் 5 வருட காலத்திற்கு மட்டும் திருத்திய அறுதியிட்ட பரப்பாக கருதி குறிப்பாணை வழங்க கோரியுள்ளார்.

மேற்படி விண்ணப்பதாரரின் கோரிக்கையினை ஏற்று உதவி புவியியலாளர், மற்றும் தனி வருவாய் ஆய்வாளர், புவியியல் மற்றும் சுரங்கத்துறை, கரூர் ஆகியோர் கூட்டாக புலத்தணிக்கை மேற்கொண்டதில் விண்ணப்பபுலதிற்கு மேற்கில் தென்வடலாக சென்ற தாழ்வழுத்த மின்பாதையினை குத்தகை உரிமம் கோரும் புல எண்ணிற்கு 50 மீட்டருக்கு அப்பால் நகர்த்தப்பட்டுள்ளது எனத் தெரியவருகிறது. எனவே, கரூர் மாவட்டம், அரவக்குறிச்சி வட்டம், நடந்தை வடக்கு கிராமம், பட்டா புல எண்.85/2, 1.66.0 ஹெக்டோஸ் பரப்பில் மட்டும் தமிழ்நாடு சிறு கனிமச்சலுகை விதிகளில் விதி எண்கள்.19-(1), 20 மற்றும் 22-இன் கீழ் திருமதி.M.ரஷியா எனபவருக்கு 5 ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி உரிமம் கீழ்கண்ட நிபந்தனைகளுக்குட்பட்டு வழங்கலாம் என பரிந்துரை செய்துள்ளனர்.

சிறப்பு நிபந்தனைகள்:-

1) விண்ணப்ப புலத்திற்கு மேற்கில் புல எண் 86-இல் தென்வடலாக செல்லும் வண்டிப்பாதைக்கு 10 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு யாதொரு சேதமுமின்றி குவாரிப் பணி செய்ய வேண்டும்

2) விண்ணப்ப புலத்திற்கு வடமேற்கில் செல்லும் நீர்நிலைவிளக்கிக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு யாதொரு சேதமுமின்றி குவாரிப் பணி செய்ய வேண்டும்.

வருவாய் கோட்டாட்சியர், கரூர் மற்றும் உதவி புவியியலாளர், புவியியல் மற்றும் சுரங்கத்துறை, கரூர் ஆகியோரின் பரிந்துரைகள், விண்ணப்பதாரரின் கோரிக்கை மற்றும் நிபந்தனைகளின் அடிப்படையில் கரூர் மாவட்டம், அரவக்குறிச்சி வட்டம், நடந்தை வடக்கு கிராமம், பட்டா புல எண்.85/2 1.66.0 ஹெக்டோஸ் பரப்பில் 1959-ம் வருட தமிழ்நாடு சிறுகனிம விதிகள், விதி எண். 19(1), 20 மற்றும் 22-இன்படியும் மேலும் கீழ்கண்ட நிபந்தனைகளுக்கு உட்பட்டு ஐந்து வருட காலத்திற்கு திருமதி.M.ரஷியா, எனபவருக்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்குவதற்குரிய தகுதியான நிலப்பரப்பாக கருதப்படுகிறது.

சிறப்பு நிபந்தனைகள்:-

1) விண்ணப்ப புலத்திற்கு மேற்கில் புல எண் 86-இல் தென்வடலாக செல்லும் வண்டிப்பாதைக்கு 10 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு யாதொரு சேதமுமின்றி குவாரிப் பணி செய்ய வேண்டும்

2) விண்ணப்ப புலத்திற்கு வடமேற்கில் செல்லும் நீர்நிலைவிளக்கிக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு யாதொரு சேதமுமின்றி குவாரிப் பணி செய்ய வேண்டும்.

நிபந்தனைகள்:-

1. விண்ணப்ப புலத்திற்கு அருகில் உள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டர் மற்றும் புறம்போக்கு நிலத்திற்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு யாதொரு சேதமுமின்றி முறையாக குவாரிப்பணி செய்ய வேண்டும்.

2. குத்தகைக்காலத்தில் கைத்துளைப்பான் கருவி கொண்டு பாறைகளை துளையிட்டும், மிதமான வெடிபொருள் பயன்படுத்தியும், பொதுமக்களுக்கோ, பொது சொத்துக்களுக்கோ சேதம் ஏற்படாத வண்ணம் குவாரிப்பணி செய்ய வேண்டும்.

3. குவாரித் தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்ய Mettaliferrous Mines, விதிகளின்படி அகலமானதும், பாதுகாப்பானதுமான Benches அமைத்து பாதுகாப்பான முறையில் குவாரிக்குள் வாகனங்கள் சென்றுவரவும் மற்றும் குவாரி தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்தும் குவாரிப்பணி செய்ய வேண்டும்.

4. குவாரி குத்தகை வழங்க ஏதுவாக துணை இயக்குநர் (சுரங்கம்) அவர்களால் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தினையும், மாநில அளவிலான சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் (SEIAA) அனுமதி பெற்று மாவட்ட நிர்வாகத்திற்கு விண்ணப்பதாரரால் சமர்ப்பிக்கப்பட வேண்டும்.

எனவே, தமிழ்நாடு சிறு கனிம சலுகை விதிகள்-1959 விதி எண்.41-இன்படி குவாரிப்பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்க திட்டத்தினை 90 நாட்களுக்குள் சமர்ப்பிக்குமாறு திருமதி.M.ரஷியா, எனபவர் கேட்டுக்கொள்ளப்படுகிறார். மேலும் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தின் தொடர்ச்சியாக 1959-ஆம் வருடத்திய தமிழ்நாடு சிறுகனிம சலுகை விதிகள், விதி எண்.42-இன்படி சுற்றுச்சூழல் தாக்கல் மதிப்பீட்டு ஆணையத்தின் இசைவினைப் பெற்று சமர்பிக்கும் பட்சத்தில் மட்டுமே குவாரி உரிமம் வழங்கப்படும் என இதன் மூலம் தெரிவிக்கப்படுகிறது.

05/03/26

துணை இயக்குநர்,
புவியியல் மற்றும் சுரங்கத்துறை,
கரூர்.

பெறுநர்
திருமதி.M.ரஷியா
க/பெ.முஹமது,பேவரிட் ஹவ்ஸ்
மொறையூர், மோன்கம்,
மலப்புரம் , எர்நாடு,
கேரளா-673 642.

நகல்:-

1. மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையம், சென்னை.
2. ஆணையர், புவியியல் மற்றும் சுரங்கத்துறை, கிண்டி, சென்னை.

ANNEXURE-3

From
Dr.P.Jayapal M.Sc., Ph.D.,
Deputy Director,
Geology and Mining,
Karur.

To
Tmt.M.Raziya,
W/o. Mohammed,
Favourit House,
Marayur, Mongam,
Malappuram,
Ernad, Kerala - 673642

Rc.No.22/Mines/2026, Dated:12.03.2026

Sir,

Sub: Mines and Minerals – Minor Mineral – Karur District – Aravakurichi Taluk – Nadanthai North Village - Patta land in S.F.No. 85/2 Over an extent of 1.66.0 hectares - Quarry lease application preferred by Tmt.M.Raziya for quarrying Rough Stone and Gravel – Land availability report received from Revenue Divisional Officer, Karur - Precise area communicated - mining plan submitted for approval – Mining Plan Approved – Regarding.

Ref:
1. Quarry lease Online application for quarrying Rough stone and Gravel preferred by Tmt.M.Raziya, W/o. Mohammed, Favourit House, Marayur, Mongam, Malappuram, Ernad, Kerala, dated: 24.11.2025.
2. Order of the Hon'ble Supreme Court of India in I.A.Nos.12-13/2011 in SLP (C) No.19628-19629/2009, dt: 27.02.2012.
3. Government of India, Ministry of Environment and Forest Office Memorandum, Dated:18.05.2012.
4. The Chairman, State Level Environment Impact Assessment Authority, Tamil Nadu D.O.Lr.No.SEIAA-TN/Minor Minerals/2012, Dated: 17.09.2012.
5. The Commissioner of Geology and Mining, Chennai letter Rc.No.3868/LC/2012, dt: 19.11.2012.
6. The Revenue Divisional Officer, Karur, Land availability Report vide Rc.No.A1/55/2026, dt: 02.02.2026.
7. Deputy Director, Geology and Mining, Karur Notice Rc.No.22/Mines/2026, Dated:11.02.2026
8. Tmt.M.Raziya, request letter dt: 03.03.2026

9. Deputy Director, Geology and Mining, Karur Revised Notice Rc.No.22/Mines/2026, Dated:05.03.2026
10. Mining Plan submitted by Tvl Tmt.M.Raziya, letter received in this office on 09.03.2026

****

In the reference 1st cited Tmt.M.Raziya, W/o. Mohammed, Favourit House, Marayur, Mongam, Malappuram, Ernad, Kerala has preferred an online application for the grant of Ten years lease to quarry Rough Stone and Gravel over an extent of 1.66.0 hectares of patta land in S.F.No. 85/2 of Nadanthai North Village, Aravakurichi Taluk, Karur District under Rule 19(1) of Tamil Nadu Minor Mineral Concession Rule 1959.

The Precise area has been communicated by the Deputy Director, Geology and Mining, Karur to the applicant for the period of Ten years based on the recommendation of the Revenue Divisional Officer, Karur and Assistant Geologist and Special Revenue Inspector, Geology and Mining, Karur in the reference 7th cited.

In the reference 8th cited Tmt.M.Raziya, has submitted request letter to the Deputy Director, Geology and Mining, Karur stated that the Low tension powerline has been shifted beyond 150m away from the lease area and also requested for revise precise area over an extent of 1.66.0 hectares of patta land in S.F.No. 85/2 of Nadanthai North Village, Aravakurichi Taluk, Karur District for the period of Five years to quarry Rough Stone and Gravel. In this regard, the revised precise area has been communicated by the Deputy Director, Geology and Mining, Karur to the applicant for the period of Five years in the above said field in the reference 9th cited. In perusal to that the draft mining plan submitted by the applicant as per the Rule 41 in the reference 10th cited.

The above submitted mining plan for the grant of Rough stone and Gravel quarry lease patta land in S.F.No.85/2 Over an extent of 1.66.0

hectares of Nadanthai North Village, Aravakurichi Taluk, Karur District has been examined in detail.

Scrutiny remarks on the draft Mining Plan are furnished below.

a. The Rough Stone & Gravel quarry has been planned to be operated for a period of 5 years.
b. The Geological reserve in the subject area is assessed 6,69,600m^3/18,41,400 MT of Rough Stone and 33,480 m^3/66,960 MT of Gravel upto a depth of 42m below ground level only.
c. The Mineable reserve is estimated as 1,96,480 m^3/5,40,320 MT of Rough Stone and 23,408 m^3/46,816 MT of Gravel upto a depth of 42m below ground level only.
d. The total quantity proposed to quarry 1,96,480 m^3/5,40,320 MT of Rough Stone for 5 years and 23,408 m^3/46,816 MT of Gravel first Two years only upto a depth of 42m below ground level only.
e. Machineries like compressor, jack hammers, excavators with Rock breaker attachment are proposed for quarrying operation.
f. Water table level in the area applied is about 85m below the ground level.
g. As per the Rule 111 of Metalliferrous Mining Regulations 1961, the boundary barrier zone of 7.5 meters is ear-marked as neutral zone.
h. The draft Mining plan is submitted within the prescribed time limit of 90 days from the date of receipt of the precise area communication and stipulations made in the rule 36 of the TNMMCR, 1959 are adhered.
i. The plates including Topo sketch of quarry lease applied area for 10Km Radius (1:1,00,000), Quarry lease and Surface plan (1:1,000), Topography and Geological plan & sections (1:1,000), Conceptual plan and sections (1:1000), Geological, Mineable & Year wise development & Production plan & Sections (1: 1000) and Environmental plan (1:5,000) were verified with reference to the field evidences.

As per the guidelines/ instructions issued by the Commissioner of Geology and Mining, Chennai vide letter Rc.No.3868/LC/2012, date:

19.11.2012. The mining plan submitted by the applicant is hereby approved, subject to the following conditions:

(I) The mining plan is approved without prejudice to any other Law applicable to the quarry lease from time to time whether such laws are made by the Central Government, State Government or any other authority.

(II) This approval of the mining plan does not in any way imply the approval of the Government in terms or any other provisions of the Mines and Minerals (Development and Regulation) Act, 1957, or any other connected laws including Forest (Conservation) Act, 1980, Forest Conservation Rules, 1981, Environment Protection Act, 1980, Explosives Act, 1884 (Central Act IV of 1884) Minor Mineral Concession and Development Rules, 2010 and the Rules made there under and the Tamil Nadu Minor Mineral Concession Rules, 1959.

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

(IV) The approval is valid up to five years from the date of execution of lease deed and the applicant should submit scheme of mining at lease 180 days before the expiry of the mining plan period.

(V) As per the Deputy Director, Geology and Mining, Karur notice in Rc.No.22/Mines/2026, Dated.05.03.2026 the following conditions are incorporated in the Mining Plan plates.

சிறப்பு நிபந்தனைகள்:-

1) விண்ணப்ப புலத்திற்கு மேற்கில் புல எண் 86-இல் தென்வடலாக செல்லும் வண்டிப்பாதைக்கு 10 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு யாதொரு சேதமுமின்றி குவாரிப் பணி செய்ய வேண்டும்

2) விண்ணப்ப புலத்திற்கு வடமேற்கில் செல்லும் நீர்நிலைவிளக்கிக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு யாதொரு சேதமுமின்றி குவாரிப் பணி செய்ய வேண்டும்.

நிபந்தனைகள்:-

1. விண்ணப்ப புலத்திற்கு அருகில் உள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டர் மற்றும் புறம்போக்கு நிலத்திற்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு யாதொரு சேதமுமின்றி முறையாக குவாரிப்பணி செய்ய வேண்டும்.

2. குத்தகைக்காலத்தில் கைத்துளைப்பான் கருவி கொண்டு பாறைகளை துளையிட்டும், மிதமான வெடிபொருள் பயன்படுத்தியும், பொதுமக்களுக்கோ, பொது சொத்துக்களுக்கோ சேதம் ஏற்படாத வண்ணம் குவாரிப்பணி செய்ய வேண்டும்.

3. குவாரித் தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்ய Mettaliferrous Mines, விதிகளின்படி அகலமானதும், பாதுகாப்பானதுமான Benches அமைத்து பாதுகாப்பான முறையில் குவாரிக்குள் வாகனங்கள் சென்றுவரவும் மற்றும் குவாரி தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்தும் குவாரிப்பணி செய்ய வேண்டும்.

4. குவாரி குத்தகை வழங்க ஏதுவாக துணை இயக்குநர் (சுரங்கம்) அவர்களால் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தினையும், மாநில அளவிலான சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் (SEIAA) அனுமதி பெற்று மாவட்ட நிர்வாகத்திற்கு விண்ணப்பதாரரால் சமர்ப்பிக்கப்பட வேண்டும்.

(VI) Quarrying shall be done as per the approved Mining Plan and that 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.

(VII) If anything is found to be concealed as required by the Mines Act in the contents of the Mining Plan and the proposal for rectification has not been made, the approval shall be deemed to have been withdrawn with immediate effect.

Encl: Two copies of Approved Mining Plan.

12/03/26

Deputy Director,
Geology and Mining,
Karur.

12/03/26

APPROVAL MINING PLAN

MINING PLAN FOR NADANTHAI NORTH ROUGH STONE AND GRAVEL QUARRY

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

LOCATION OF THE QUARRY LEASE APPLIED AREA

STATE	:	**TAMIL NADU**
DISTRICT	:	**KARUR**
TALUK	:	**ARAVAKURICHI**
VILLAGE	:	**NADANTHAI NORTH**
S.F.NO	:	**85/2**
EXTENT	:	**1.66.0Ha**

ECO-FRIENDLY

SUSTAINABILITY

SAFETY



FOR

APPLICANT

Tmt.M.Raziya,
W/o.Mohammed,
Favourit House, Morayur,
Mongam, Malappuram, Ernad,
Kerala -673642.

this Mining Plan is approved subject to the conditions/stipulations indicated in the Mining Plan approval Letter No: 22/mins/2026, Dated: 12.03.2026.

PREPARED BY

E.SARAVANAN, M.Sc (GEO)., M.Sc (EVS)., M.Tech.,
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



(PPE)

M.Raziya,
W/o.Mohammed,
Favourit House,
Morayur, Mongam,
Malappuram,
Ernad, Kerala -673642.

CONSENT LETTER FROM THE APPLICANT

The Mining Plan in respect of **Rough Stone and Gravel** quarry over an extent of 1.66.0hectares of Patta lands in S.F.No.85/2 of Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu State has been prepared by

E.SARAVANAN, M.Sc(GEO)., M.Sc(EVS)., M.Tech.,
Qualified Person

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

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

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

Signature of the Applicant

M.Raziya,

Place: Kerala
Date: 05.03.2026

M.Raziya,
W/o.Mohammed,
Favourit House,
Morayur, Mongam,
Malappuram,
Ernad, Kerala -673642.

DECLARATION

The Mining Plan in respect of **Rough Stone and Gravel** quarry over an extent of 1.66.0hectares of Patta lands in S.F.No.85/2 of Nadanthai North Village, Aravakurichi Taluk, Karur 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.Raziya,

Place: Kerala
Date: 05.03.2026

E.SARAVANAN, M.Sc(GEO)., M.Sc(EVS)., M.Tech.,
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

CERTIFICATE

This is to certify that, the provisions of under rules 41 & 42 as Amended in under Tamil Nadu Minor Mineral Concession Rules, 1959, have been observed in the Mining Plan for the grant of **Rough Stone and Gravel** quarry lease over an extent of 1.66.0hectares of Patta lands in S.F.No.85/2 of Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu State applied by Tmt.M.Raziya, 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.

E.SARAVANAN, M.Sc(GEO)., M.Sc(EVS)., M.Tech.,
Qualified Person

Place: Salem
Date: 06.03.2026

E.SARAVANAN, M.Sc(GEO)., M.Sc(EVS)., M.Tech.,
Qualified Person

E.SARAVANAN, M.Sc(GEO)., M.Sc(EVS)., M.Tech.,
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

CERTIFICATE

Certified that, in preparation of Mining Plan for **Rough Stone and Gravel** quarry over an extent of 1.66.0hectares of Patta lands in S.F.No.85/2 of Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu State for Tmt.M.Raziya, 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.

E.SARAVANAN, M.Sc(GEO)., M.Sc(EVS)., M.Tech.,
Qualified Person

Place: Salem
Date: 06.03.2026

E.SARAVANAN, M.Sc(GEO)., M.Sc(EVS)., M.Tech.,
Qualified Person

CERTIFICATE

Certified that I, E.SARAVANAN, 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., Applied Geology) from Periyar University and more than five years of experience in mining Field.

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

Accordingly I prepared this Mining Plan in respect of Rough Stone and Gravel quarry lease applied for an extent of 1.66.0Ha of (Patta land) in S.F.No.85/2 of Nadanthai North Village, Aravakurichi Taluk, Karur District, by Thiru.M.Raziya, 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.

E.SARAVANAN, M.Sc(GEO)., M.Sc(EVS)., M.Tech.,

Qualified Person

E.SARAVANAN, M.Sc(GEO)., M.Sc(EVS)., M.Tech.,
Qualified Person

Place: Salem

Date: 06.03.2026

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MINING PLAN FOR MINOR MINERALS

ROUGH STONE AND GRAVEL

Over an extent of 1.66.0hectares of Patta land in S.F.No. 85/2 of Nadanthai North Village, Aravakurichi Taluk, Karur 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 Tmt.M.Raziya, W/o. Mohammed, Favourit House, Morayur, Mongam, Malappuram, Ernad, Kerala -673642.
2. The application was processed by the Deputy Director, Department of Geology and Mining, Karur, and passed an order vide Rc.No.22/Kanimam/2026 dated 05.03.2026 directing the applicant to produce approved Mining Plan under Rule 41(5) of the Tamil Nadu Minor Mineral Concession Rules, 1959 and Environmental Clearance Certificate under Rule 42 from the State Level Environmental Impact Assessment Authority (SEIAA) for the grant of quarry lease to quarry Rough Stone and Gravel over an extent of 1.66.0 hectares of Patta land in S.F.No.85/2 of Nadanthai North Village, Aravakurichi Taluk, Karur 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.

Special conditions:

a) A 10 meters of safety distance should be left out to the cart track passing north – south direction on thc west side of the lease applied area's S.F.No.86, while quarrying operations.

b) A 50 meters of safety distance should be left out to the Neernilaivilakki passing on the northwest side of the lease applied area, while quarrying operations.

this Mining Plan is approved subject to the conditions/stipulations indicated in the Mining Plan approval Letter No: 22/Mines/2026. Dated: 12-03-2026.

General conditions:

a) A 7.5 meters of safety distance should be left out for the adjacent patta lands and 10 meters of safety distance should be left out for the adjacent government lands while quarrying operation should not cause any damage while quarrying operations.

b) The applicant should use jackhammers and mild explosives during blasting in the quarry, and the applicant should not cause any hindrance or damage during the quarry operations.

c) The applicant ensures labours safety and vehicles safely passing within the quarry as per the Metalliferous Mines Rule, should keep widening and safety benches.

d) The quarry lease will grant after the applicant getting approval for draft mining plan from Deputy Director (Mines) and Environmental clearance from the State Level Environmental Impact Assessment Authority (SEIAA).

4. Geological Resources is estimated at 18,41,400Ts of Rough stone, 66,960Ts of gravel. Mineable Reserves is estimated at 5,40,320Ts of Rough Stone, 46,816Ts of gravel after leaving necessary safety distance from the lease boundary as indicated in the precise area letter and relevant mining laws in force.
5. The production schedule is proposed production of 5,40,320Ts of Rough Stone, 46,816Ts of gravel 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 10Kms 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 ooafc bench oyotcm of opcn 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	:	Nadanthai North
b.	Name of the Panchayat Union	:	K.Paramathi
c.	The proposed total Minable Reserves	:	5,40,320Ts of Rough Stone, 46,816Ts of gravel.
d.	The proposed quantity of reserves (level of production) for Five years to be mined is(Recoverable reserves)	:	5,40,320Ts of Rough Stone, 46,816Ts of gravel.
e.	Total extent of the area	:	1.66.0Ha
f.	Grant of lease period	:	Five years
g.	Existing depth	:	It is a fresh quarry lease applied area
h.	Proposed Depth	:	42m (below ground level).
i.	Method of mining/level of mechanization	:	Opencast, Semi-mechanized Mining with a bench height of 5m and bench width of 5m is proposed.
j.	Types of Machineries used in the quarry	:	Machineries like Tractor mounted compressor attached with Jack hammers, Excavators are proposed to deploy for quarrying operation.
k.	Cost of the Project A. Fixed Assets Cost B. Operational Cost C. EMP Cost		Rs. 12,96,000/- Rs. 51,50,000/- Rs. 5,00,000/- Total Project cost(A+B+C)= **Rs. 69,46,000 /-**

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

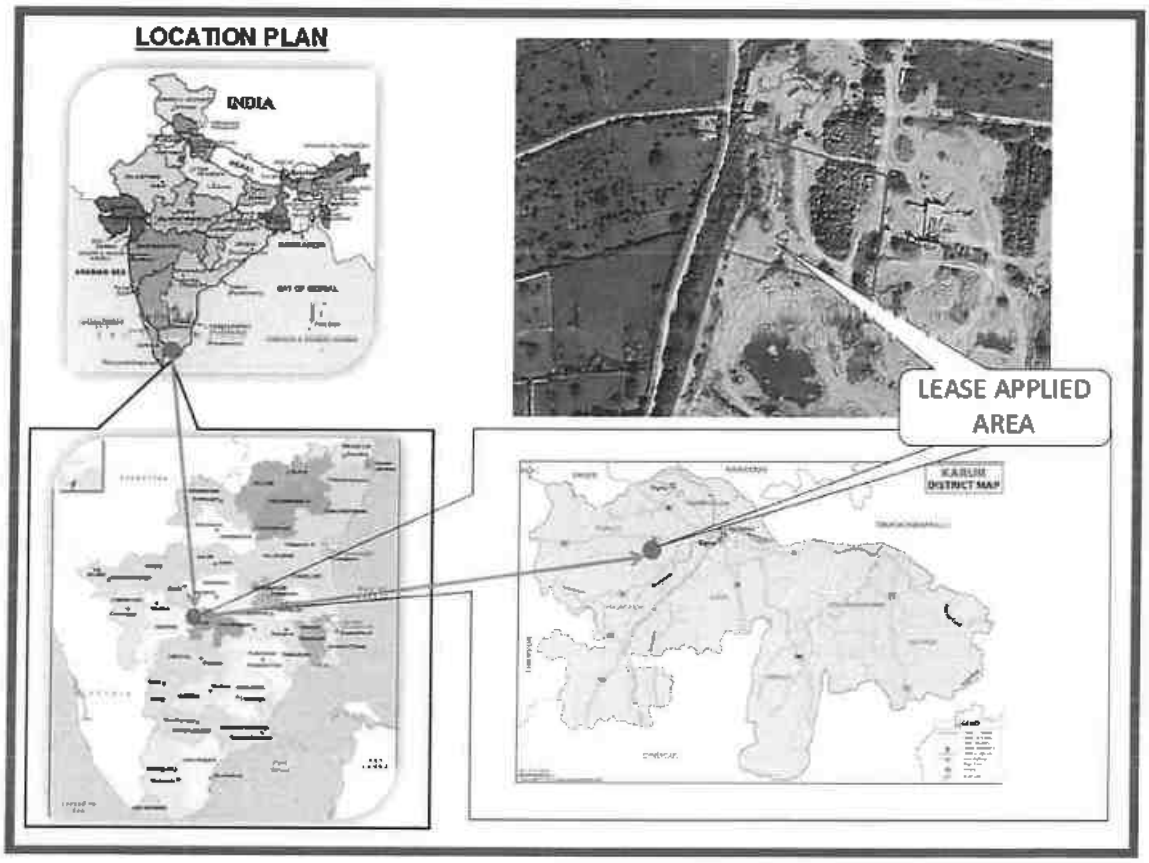
Corners	Co- ordinates		Distance between the corners		
	Latitude	Longitude			
1	10° 56' 36.11"N	77° 52' 55.14"E	1-2	=	42.6m
2	10° 56' 37.43"N	77° 52' 55.56"E	2-3	=	30.8m
3	10° 56' 38.36"N	77° 52' 55.94"E	3-4	=	35.4m
4	10° 56' 39.51"N	77° 52' 56.04"E	4-5	=	149.4m
5	10° 56' 38.10"N	77° 53' 00.74"E	5-6	=	109.4m
6	10° 56' 34.57"N	77° 53' 00.29"E	6-1	=	163.6m

2.0 General Information:

2.1	a.	Name of the Applicant	:	Tmt.M.Raziya,
	b.	Address of the Applicant with phone No and e-mail id if any	:	W/o. Mohammed, Favourit House, Morayur, Mongam, Malappuram, Ernad, Kerala. Pin code-673642. Cell No.: 9843750124
	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 Deputy Director, Department of Geology and Mining, Karur, vide Rc.No.22/Kanimam/2026 dated 05.03.2026.
	c.	Period of permission / lease granted	:	The Deputy Director, Department of Geology and Mining, Karur, has grant of lease period for **Five years.**
	d.	Name and Address of the QP preparing Mining Plan	:	**E.Saravanan, M.Sc (GEO)., M.Sc (EVS)., M.Tech.,** **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.

3.0 Location:

S.No		Details of the Area:
1	Corner Coordinates	Latitude : 10°56'34.57"N to 10°56'39.51"N Longitude: 77°52'55.14"E to 77°53'00.74"E
2	Toposheet Number	58 F/13
3	The altitude of the area	220m (MSL)
4	Extent	1.66.0Ha
5	Survey No	85/2
6	Village	Nadanthai North
7	Taluk	Aravakurichi
8	District	Karur
9	State	Tamil Nadu



a.	Classification of the Area (Ryotwari / poramboke / others)	:	Patta land
b.	Ownership / Occupancy of the Applied area (Surface rights)	:	It is a patta land registered in the name of applicant vide patta no.2491, please refer annexure no: IV.
c.	Toposheet No. with Latitude and Longitude	: : :	Topo Sheet No: 58 F/13 Latitude : 10°56'34.57"N to 10°56'39.51"N Longitude : 77°52'55.14"E to 77°53'00.74"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 K.Paramathi - Nadanthai road on north side of the area. The Nearest Railway line is Karur to Erode line which is about 13.8Km on northeast side of the area.



SATELLITE IMAGERY OF THE LEASE APPLIED AREA



TOPOGRAPHICAL VIEW OF THE 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 220m (maximum) from MSL. ➢ No major river is found nearby the lease applied area. ➢ Water table is found at a depth of 85m in summer and 82m in rainy seasons. ➢ Temperature of the area is reported to be 18°C to a maximum of 42°C during summer. ➢ Rainfall of this area is about 800mm to 900 mm during the both NE & SW monsoons.
	b.	General Geology of the Area	:	The area is underlain by the wide range of metamorphic rocks of peninsular gneissic complex. These rocks are extensively weathered and overlain by the recent valley fills and alluvium at places. The geological formations found in the district are Archaean rocks like Gneisses, Granites, Charnockites basic granulites and calc-gneisses. The younger formations are Quartz veins and pegmatite. The rock type noticed in the area for lease is Charnockite which contains mostly Quartz and Feldspar with some ferromagnesian minerals. The Charnockite is part of peninsular Gneisses, a high grade metamorphic rock. The strike of the Charnockite formation is N45°E –S45°W with dipping towards SE60°.

				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 adjacent existing quarry pit.
4.3	a.	Estimation of Reserves	:	The Geological and Recoverable reserves are estimated by cross sectional method. Totally three sections have been drawn, one section drawn length wise as (X-Y), and another two sections drawn width wise as (A-B) and (C-D) 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 42m (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	53	108	2	11448	-	2	22896.00	-
	II	53	108	5	-	28620	2.75	-	78705.00
	III	53	108	5	-	28620	2.75	-	78705.00
	IV	53	108	5	-	28620	2.75	-	78705.00
	V	53	108	5	-	28620	2.75	-	78705.00
	VI	53	108	5	-	28620	2.75	-	78705.00
	VII	53	108	5	-	28620	2.75	-	78705.00
	VIII	53	108	5	-	28620	2.75	-	78705.00
	IX	53	108	5	-	28620	2.75	-	78705.00
Total					**11448**	**228960**	**-**	**22896.00**	**629640.00**
XY-CD	I	102	108	2	22032	-	2	44064.00	-
	II	102	108	5	-	55080	2.75	-	151470.00
	III	102	108	5	-	55080	2.75	-	151470.00
	IV	102	108	5	-	55080	2.75	-	151470.00
	V	102	108	5	-	55080	2.75	-	151470.00
	VI	102	108	5	-	55080	2.75	-	151470.00
	VII	102	108	5	-	55080	2.75	-	151470.00
	VIII	102	108	5	-	55080	2.75	-	151470.00
	IX	102	108	5	-	55080	2.75	-	151470.00
Total					**22032**	**440640**	**-**	**44064.00**	**1211760.00**
Grand Total					**33480**	**669600**	**-**	**66960.00**	**1841400.00**

Gravel : 66,960Ts

The Geological Resources of Rough stone : 18,41,400Ts

b. Mineable Reserve

The mineable reserve calculated by deducing 7.5m, 10m and 50m safety distance and bench loss.

Table No-2

Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel in m^3	Rough stone in m^3	Bulk Density	Gravel in (Ts)	Mineable Reserves of Rough stone in (Ts)
XY-AB	I	42	75	2	6300	-	2	12600.00	-
	II	39	69	5	-	13455	2.75	-	37001.25
	III	34	59	5	-	10030	2.75	-	27582.50
	IV	29	49	5	-	7105	2.75	-	19538.75
	V	24	39	5	-	4680	2.75	-	12870.00
	VI	19	29	5	-	2755	2.75	-	7576.25
	VII	14	19	5	-	1330	2.75	-	3657.50
Total					**6300**	**39355**	**-**	**12600.00**	**108226.25**
XY-CD	I	94	91	2	17108	-	2	34216.00	-
	II	91	85	5	-	38675	2.75	-	106356.25
	III	86	75	5	-	32250	2.75	-	88687.50
	IV	81	65	5	-	26325	2.75	-	72393.75
	V	76	55	5	-	20900	2.75	-	57475.00
	VI	71	45	5	-	15975	2.75	-	43931.25
	VII	66	35	5	-	11550	2.75	-	31762.50
	VIII	61	25	5	-	7625	2.75	-	20968.75
	IX	51	15	5	-	3825	2.75	-	10518.75
Total					**17108**	**157125**	**-**	**34216.00**	**432093.75**
Grand Total					**23408**	**196480**	**-**	**46816.00**	**540320.00**

The mineable reserve is computed as 5,40,320Ts of Rough stone, 46,816Ts of Gravel upto a depth 42m (below ground level) only.

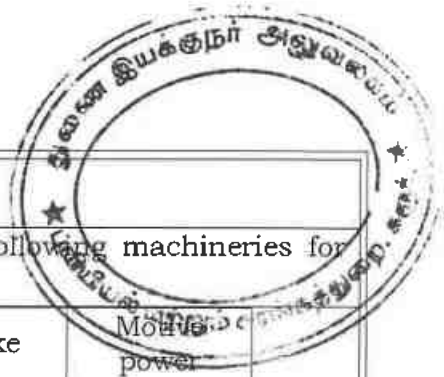
5.0	**Mining:**		
5.1	Method of Mining	:	1. Opencast method of semi mechanized mining with 5.0m height 5m width of the bench. 2. However, as far as the quarrying of Rough stones is concerned, observance of the provisions of Regulation 106(2) (b) as above is seldom possible due to various inherent petrogenetic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

The Yearwise Production and Development Table

Table No –3

Year	Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel in m^3	Rough stone in m^3	Bulk Density	Gravel in (Ts)	Mineable Reserves of Rough stone in (Ts)
I	XY-AB	I	42	75	2	6300	-	2	12600.00	-
		II	39	69	5	-	13455	2.75	-	37001.25
	XY-CD	I	61	91	2	11102	-	2	22204.00	-
		II	61	85	5	-	25925	2.75	-	71293.75
Total						**17402**	**39380**	-	**34804.00**	**108295.00**
II	XY-CD	I	33	91	2	6006	-	2	12012.00	-
		II	30	85	5	-	12750	2.75	-	35062.50
		III	71	75	5	-	26625	2.75	-	73218.75
Total						**6006**	**39375**	-	**12012.00**	**108281.25**
III	XY-CD	III	15	75	5	-	5625	2.75	-	15468.75
		IV	51	65	5	-	16575	2.75	-	45581.25
	XY-AB	III	34	59	5	-	10030	2.75	-	27582.50
		IV	29	49	5	-	7105	2.75	-	19538.75
Total						-	**39335**	-	-	**108171.25**
IV	XY-CD	IV	30	65	5	-	9750	2.75	-	26812.50
		V	76	55	5	-	20900	2.75	-	57475.00
		VI	5	45	5	-	1125	2.75	-	3093.75
	XY-AB	V	24	39	5	-	4680	2.75	-	12870.00
		VI	19	29	5	-	2755	2.75	-	7576.25
Total						-	**39210**	-	-	**107827.50**
V	XY-CD	VI	66	45	5	-	14850	2.75	-	40837.50
		VII	66	35	5	-	11550	2.75	-	31762.50
		VIII	61	25	5	-	7625	2.75	-	20968.75
		IX	51	15	5	-	3825	2.75	-	10518.75
	XY-AB	VII	14	19	5	-	1330	2.75	-	3657.50
Total						-	**39180**	-	-	**107745.00**
Grand Total						**23408**	**196480**	-	**46816.00**	**540320.00**

The applicant has proposed to carry out 5,40,320Ts of Rough Stone, 46,816Ts of gravel upto a depth of 42m (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	Mode of power
1	Jack hammer	3	32	Atlas Copco	Compressed air
2	Compressor	1	-	Atlas Copco	Diesel Drive

	b.	Loading	:	Excavator of 0.90m³ bucket capacity (with Rock breaker attachment) (1No).
	c.	Transportation	:	Tipper 3Nos (10/20Ts) capacity.
5.6		Disposal of Overburden	:	The overburden in the form of Gravel, after the excavation gravel will be directly loaded into tipper to the needy buyers for road project and construction works for filling and leveling of low lying areas.
5.7		Brief Note on Conceptual Mining Plan for the entire lease period	:	Conceptual Mining Plan is prepared with an object of 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 lease Period			
Pit No	Length (max) in (m)	Width (Avg) in (m)	Depth(max) in(m)
I	136	87	42

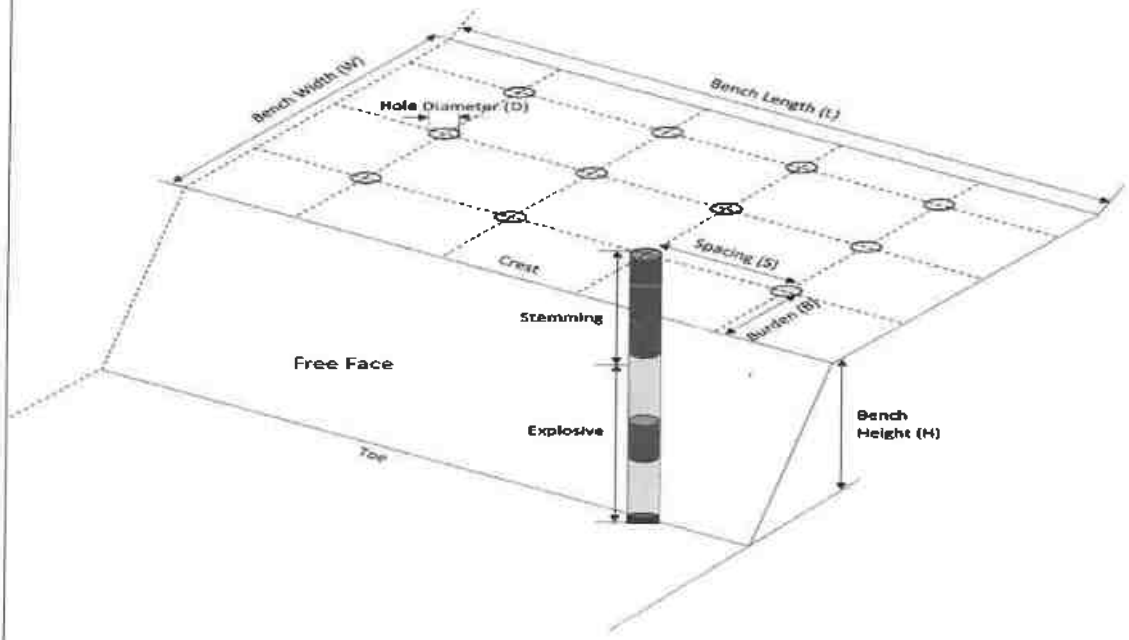
Afforestation has been proposed on all along the boundary barrier by planting trees.

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

6.0 Blasting:

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

Diameter of the hole	Spacing	Depth	Burden for hole	Pattern of hole	Inclination of hole
32-36mm	0.6m	1 to 1.5m	0.6m	Zig Zag	70° 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.

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	:	120
Powder factor	:	6Ts/Kg of explosives
Total explosive required	:	60Kg 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 85m below ground level. In the proposed mining plan only 42m (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

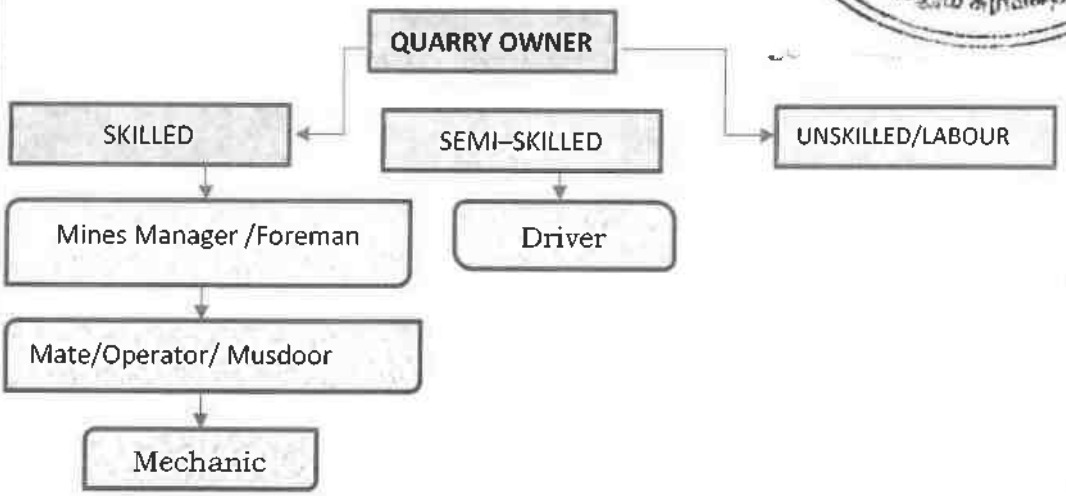
8.0 Other Permanent Structures:

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 Neernilaivilakki passing on northwest side of the area and is 50m safety distance maintained, another seasonal odai passing on south and is 330m away from the area.
8.4	Archeological / Historical Monuments	:	There are no Archaeological / Historical Monuments within a radius of 300m.
8.5	Road (NH, SH, Village Road etc)	:	The National Highway (NH-81) Karur – Coimbatore is about 2.1km on north side of the area. The State Highway (SH-21) Karur – Dharapuram is about 8.8Km on southeast 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 personnel)

The proposed organization chart



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

Allowing 10% absentee, the no. of men of roll will be around 24.

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 Nallipalayam village which is about 0.6Km on southeast 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 (35) 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 3Km (NE) in K.Paramathi 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 42m (below ground level) for the proposed mining plan period. 3. Fluctuation of Water table in this area is in between 85m and 82m 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-4

Sl. No.	Land Use	Present Area (Ha)	Area in use during the quarrying period (Ha)
1.	Quarrying Pit	Nil	1.18.5
2.	Infrastructure	Nil	0.01.0
3.	Roads	Nil	0.01.0
4.	Green Belt	Nil	0.45.5
5.	Unutilized	1.66.0	Nil
	Total =	**1.66.0**	**1.66.0**

10.2	Water Regime	:	Water table in this area is noticed at a depth of 85m and presently, in the proposed mining plan only 42m (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.



<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-5
<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>Kuppampalayam</td><td>2.1Km - NE</td><td>500</td></tr>
<tr><td>2.</td><td>Karaippalayam</td><td>2.3km - NW</td><td>400</td></tr>
<tr><td>3.</td><td>Nalipalayam</td><td>0.6km - SE</td><td>350</td></tr>
<tr><td>4.</td><td>Nadanthai</td><td>1.5km - S</td><td>600</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 42m (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 42m 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, 10m 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 4550Sqm area is proposed to use under afforestation by planting 546nos 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. 9,96,000 Rs.1,00,000 Rs.1,00,000 Rs.1,00,000 **Rs. 12,96,000/-**

	B. Operational Cost:		
	1. Machineries	:	Rs.50,00,000-
	2. Fencing cost	:	Rs. 1,50,000
	Total	:	**Rs.51,50,000/-**
	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.1,00,000/-
	2. Sanitary Arrangements		Rs. 50,000/-
	3. Safety kids		Rs. 50,000/-
	4. Water sprinkling		Rs. 1,00,000/-
	5. Afforestation		Rs. 80,000/-
	Total=		**Rs. 5,00,000/-**
	Total Project Cost (A+B+C)	:	**Rs. 69,46,000 /-**
	CSR Cost(2% of Total Project Cost)	:	**Rs. 1,38,920/-**

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

E.Saravanan, M.Sc (GEO)., M.Sc (EVS)., M.Tech.,
Qualified Person

Place: Salem
Date: 06.03.2026

E.SARAVANAN, M.Sc(GEO)., M.Sc(EVS)., M.Tech.,
Qualified Person

This Mining Plan is approved basedon Incorporation of the particulars specified in clause 7 (iv) of the Commissionerate of Geology and Mining Chennai Lr No 3585 ... 2012 dt 19-11-2012 and Draft Mine Mineral Conservation & Development Rules 2010

12/3/26

Deputy Director of Geology and Mining
Karur District

This Mining Plan is approved subject to the conditions / stipulations indicated in the Mining Plan approval Letter No: 22/Mines/2026, Dated: 12.03.2026

12/03/26

ANNEXURE 1

நக.எண். 22/கனிமம்/2026

மாவட்ட ஆட்சியர் அலுவலகம்
புவியியல் மற்றும் சுரங்கத்துறை
கரூர்

நாள்:05.03.2026

குறிப்பாணை

பொருள்: **கனிமங்களும் குவாரிகளும்** - கரூர் மாவட்டம், அரவக்குறிச்சி வட்டம், நடந்தை வடக்கு கிராமம், பட்டா புல எண்.85/2 1.66.0 ஹெக்டோஸ் - சாதாரணகற்கல் மற்றும் கிராவல் குவாரி குத்தகை உரிமம் வேண்டி திருமதி.M.ரஷியா என்பவர் விண்ணப்பம் செய்தது - வருவாய் கோட்டாட்சியர் நிலயிருப்பு அறிக்கை வரப்பெற்றது - தகுதியான நிலப்பரப்பாக கருதி ஏற்பளிக்கப்பட்ட சுரங்க திட்டம் மற்றும் மாநில சுற்றுச்சூழல் தாக்கல் மதிப்பீட்டு ஆணைய இசைவினை பெற்று சமர்பிக்கக் கோருதல் - தொடர்பாக.

பார்வை:

1. திருமதி.M.ரஷியா, க/பெ.முஹமது, பேவரிட் ஹவ்ஸ், மொறையூர், மோன்கம், மலப்புரம், எர்நாடு, கேரளா-673642 குவாரி குத்தகை உரிமம் வழங்கக் கோரும் இணையவழி விண்ணப்பம் நாள்: 24.11.2025.
2. வருவாய் கோட்டாட்சியர், கரூர் அவர்களின் நில இருப்பு அறிக்கை ந.க.எண். அ1/55/2026, நாள்:02.02.2026
3. திருமதி.M.ரஷியா, க/பெ.முஹமது, என்பவரின் கடித நாள்:02.02.2026
4. உதவி புவியியலாளர் மற்றும் தனிவருவாய் அலுவலர், புவியியல் மற்றும் சுரங்கத்துறை கரூர் ஆகியோரின் கூட்டு புலத்தணிக்கை அறிக்கை நாள்: 06.02.2026 மற்றும் 04.03.2026
5. துணை இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை, கரூர் அவர்களின் அறிவிப்பு நக.எண்/கனிமம்/2026, நாள்: 11.02.2026.
6. திருமதி.M.ரஷியா, க/பெ.முஹமது, என்பவரின் கடித நாள்:03.03.2026
7. அரசாணை (பல்வகை) எண். 169, தொழில் (எம்எம்.சி-1) துறை நாள்: 04.08.2020 இணைத்து வரப்பெற்றுள்ளது. (தமிழ்நாடு அரசிதழ் சிறப்பு வெளியீடு எண். 315 நாள்: 04.08.2020).

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கரூர் மாவட்டம், அரவக்குறிச்சி வட்டம், நடந்தை வடக்கு கிராமம், பட்டா புல எண்.85/2, 1.66.0 ஹெக்டோஸ் பரப்பு நிலத்திலிருந்து பத்து ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க பேவரிட் ஹவ்ஸ், மொறையூர், மோன்கம், மலப்புரம் , எர்நாடு, கேரளா-673642 என்ற முகவரியில் வசித்து வரும் திருமதி.M.ரஷியா, க/பெ.முஹமது என்பவர் பார்வை 1-இல் கண்டுள்ளவாறு விண்ணப்பம் செய்துள்ளார்.

மேற்படி விண்ணப்பம் தொடர்பாக, பார்வை -2 இல் வருவாய் கோட்டாட்சியர், கரூர் அவர்கள் புலத்தணிக்கை மேற்கொண்டு அரவக்குறிச்சி வட்டம், நடந்தை வடக்கு கிராமம், பட்டா புல எண்.85/2, 1.66.0 ஹெக்டோஸ் பரப்பில் மட்டும் தமிழ்நாடு சிறு கனிமச்சலுகை விதிகளில் விதி எண்கள்.19-(1), 20 மற்றும் 22-இன் கீழ் திருமதி.M.ரஷியா என்பவருக்கு 10 ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்க நிபந்தனைகளுக்குட்பட்டு அனுமதி வழங்கலாம் என பரிந்துரை செய்துள்ளார்.



பார்வை-3 இல் காணும் கடிதத்தில் திருமதி.M.ரஷியா, க/பெ.முஹமது என்பவர் விண்ணப்பபுலத்தின் நடுவே சென்ற நீரிநிலை விளக்கியினை மாவட்ட வருவாய் அலுவலர், கரூர் அவர்களின் செயல்முறை ஆணை ப.மு.ஆ1/11164/2025, நாள்:05/12.2025-இன்படி விண்ணப்பபுலத்திற்கு வெளியில் வடமேற்கு திசையில் மாற்றி அமைக்கப்பட்டுள்ளது என தெரிவித்துள்ளார்.

பார்வை-5 இல் வருவாய் கோட்டாட்சியர், கரூர் மற்றும் உதவி புவியியலாளர், புவியியல் மற்றும் சுரங்கத்துறை, கரூர் ஆகியோரின் பரிந்துரைகள் மற்றும் நிபந்தனைகளின் அடிப்படையில் கரூர் மாவட்டம், அரவக்குறிச்சி வட்டம், நடந்தை வடக்கு கிராமம், பட்டா புல எண்.85/2 1.66.0 ஹெக்டோஸ் பரப்பில் 1959-ம் வருட தமிழ்நாடு சிறுகனிம விதிகள், விதி எண். 19(1), 20 மற்றும் 22-இன்படி நிபந்தனைகளுக்கு உட்பட்டு பத்து வருட காலத்திற்கு திருமதி.M.ரஷியா, எனபவருக்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்குவதற்கு கீழ்கண்ட சிறப்பு நிபந்தனைகளுக்குட்பட்டு தகுதியான நிலப்பரப்பாக கருதி தமிழ்நாடு சிறு கனிம சலுகை விதிகள்-1959 விதி எண்.41-இன்படி குவாரிப்பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்க திட்டத்தினை 90 தினங்களுக்குள் சமர்ப்பிக்க அறிவுறுத்தப்பட்டது.

சிறப்பு நிபந்தனைகள்:-

1) விண்ணப்ப புலத்திற்கு மேற்கில் புல எண் 86-இல் தென்வடலாக செல்லும் வண்டிப்பாதைக்கு 10 மீட்டரும் மற்றும் தென்வடலாக செல்லும் தாழ்வழுத்த மின்பாதைக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு யாதொரு சேதமுமின்றி குவாரிப் பணி செய்ய வேண்டும்
2) விண்ணப்ப புலத்திற்கு வடமேற்கில் செல்லும் நீரிநிலைவிளக்கிக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு யாதொரு சேதமுமின்றி குவாரிப் பணி செய்ய வேண்டும்.

பார்வை-6 இல் காணும் கடிதத்தில் திருமதி.M.ரஷியா, க/பெ.முஹமது என்பவர் விண்ணப்பபுலத்திற்கு மேற்கில் தென்வடலாக செல்லும் தாழ்வழுத்த மின்பாதையினை குத்தகை உரிமம் கோரும் புல எண்ணிற்கு 50 மீட்டருக்கு அப்பால் அகற்றிவிட்டதாக தெரிவித்துள்ளார். மேலும், மின்பதைக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு குவாரிப்பணி செய்ய வேண்டும் என்று பார்வை -5 -இல் கண்டுள்ள குறிப்பாணையில் தெரிவிக்கப்பட்டுள்ள சிறப்பு நிபந்தனைகளிலிருந்து நீக்கம் செய்தும் மற்றும் 5 வருட காலத்திற்கு மட்டும் திருத்திய அறுதியிட்ட பரப்பாக கருதி குறிப்பாணை வழங்க கோரியுள்ளார்.

மேற்படி விண்ணப்பதாரரின் கோரிக்கையினை ஏற்று உதவி புவியியலாளர், மற்றும் தனி வருவாய் ஆய்வாளர், புவியியல் மற்றும் சுரங்கத்துறை, கரூர் ஆகியோர் கூட்டாக புலத்தணிக்கை மேற்கொண்டதில் விண்ணப்பபுலதிற்கு மேற்கில் தென்வடலாக சென்ற தாழ்வழுத்த மின்பாதையினை குத்தகை உரிமம் கோரும் புல எண்ணிற்கு 50 மீட்டருக்கு அப்பால் நகர்த்தப்பட்டுள்ளது எனத் தெரியவருகிறது. எனவே, கரூர் மாவட்டம், அரவக்குறிச்சி வட்டம், நடந்தை வடக்கு கிராமம், பட்டா புல எண்.85/2, 1.66.0 ஹெக்டோஸ் பரப்பில் மட்டும் தமிழ்நாடு சிறு கனிமச்சலுகை விதிகளில் விதி எண்கள்.19-(1), 20 மற்றும் 22-இன் கீழ் திருமதி.M.ரஷியா எனபவருக்கு 5 ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி உரிமம் கீழ்கண்ட நிபந்தனைகளுக்குட்பட்டு வழங்கலாம் என பரிந்துரை செய்துள்ளனர்.

சிறப்பு நிபந்தனைகள்:-

1) விண்ணப்ப புலத்திற்கு மேற்கில் புல எண் 86-இல் தென்வடலாக செல்லும் வண்டிப்பாதைக்கு 10 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு யாதொரு சேதமுமின்றி குவாரிப் பணி செய்ய வேண்டும்

2) விண்ணப்ப புலத்திற்கு வடமேற்கில் செல்லும் நீர்நிலைவிளக்கிக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு யாதொரு சேதமுமின்றி குவாரிப் பணி செய்ய வேண்டும்.

வருவாய் கோட்டாட்சியர், கரூர் மற்றும் உதவி புவியியலாளர், புவியியல் மற்றும் சுரங்கத்துறை, கரூர் ஆகியோரின் பரிந்துரைகள், விண்ணப்பதாரரின் கோரிக்கை மற்றும் நிபந்தனைகளின் அடிப்படையில் கரூர் மாவட்டம், அரவக்குறிச்சி வட்டம், நடந்தை வடக்கு கிராமம், பட்டா புல எண்.85/2 1.66.0 ஹெக்டோஸ் பரப்பில் 1959-ம் வருட தமிழ்நாடு சிறுகனிம விதிகள், விதி எண். 19(1), 20 மற்றும் 22-இன்படியும் மேலும் கீழ்கண்ட நிபந்தனைகளுக்கு உட்பட்டு ஐந்து வருட காலத்திற்கு திருமதி.M.ரஷியா, எனபவருக்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்குவதற்குரிய தகுதியான நிலப்பரப்பாக கருதப்படுகிறது.

சிறப்பு நிபந்தனைகள்:-

1) விண்ணப்ப புலத்திற்கு மேற்கில் புல எண் 86-இல் தென்வடலாக செல்லும் வண்டிப்பாதைக்கு 10 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு யாதொரு சேதமுமின்றி குவாரிப் பணி செய்ய வேண்டும்

2) விண்ணப்ப புலத்திற்கு வடமேற்கில் செல்லும் நீர்நிலைவிளக்கிக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு யாதொரு சேதமுமின்றி குவாரிப் பணி செய்ய வேண்டும்.

நிபந்தனைகள்:-

1. விண்ணப்ப புலத்திற்கு அருகில் உள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டர் மற்றும் புறம்போக்கு நிலத்திற்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு யாதொரு சேதமுமின்றி முறையாக குவாரிப்பணி செய்ய வேண்டும்.

2. குத்தகைக்காலத்தில் கைத்துளைப்பான் கருவி கொண்டு பாறைகளை துளையிட்டும், மிதமான வெடிபொருள் பயன்படுத்தியும், பொதுமக்களுக்கோ, பொது சொத்துக்களுக்கோ சேதம் ஏற்படாத வண்ணம் குவாரிப்பணி செய்ய வேண்டும்.

3. குவாரித் தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்ய Mettaliferrous Mines, விதிகளின்படி அகலமானதும், பாதுகாப்பானதுமான Benches அமைத்து பாதுகாப்பான முறையில் குவாரிக்குள் வாகனங்கள் சென்றுவரவும் மற்றும் குவாரி தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்தும் குவாரிப்பணி செய்ய வேண்டும்.

4. குவாரி குத்தகை வழங்க ஏதுவாக துணை இயக்குநர் (சுரங்கம்) அவர்களால் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தினையும், மாநில அளவிலான சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் (SEIAA) அனுமதி பெற்று மாவட்ட நிர்வாகத்திற்கு விண்ணப்பதாரரால் சமர்ப்பிக்கப்பட வேண்டும்.

எனவே, தமிழ்நாடு சிறு கனிம சலுகை விதிகள்-1959 விதி எண்.41-இன்படி குவாரிப்பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்க திட்டத்தினை 90 நாட்களுக்குள் சமர்ப்பிக்குமாறு திருமதி.M.ரஷியா, எனபவர் கேட்டுக்கொள்ளப்படுகிறார். மேலும் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தின் தொடர்ச்சியாக 1959-ஆம் வருடத்திய தமிழ்நாடு சிறுகனிம சலுகை விதிகள், விதி எண்.42-இன்படி சுற்றுச்சூழல் தாக்கல் மதிப்பீட்டு ஆணையத்தின் இசைவினைப் பெற்று சமர்பிக்கும் பட்சத்தில் மட்டுமே குவாரி உரிமம் வழங்கப்படும் என இதன் மூலம் தெரிவிக்கப்படுகிறது.

05/03/26

துணை இயக்குநர்,
புவியியல் மற்றும் சுரங்கத்துறை,
கரூர்.

பெறுநர்
திருமதி.M.ரஷியா
க/பெ.முஹமது,பேவரிட் ஹவ்ஸ்
மொறையூர், மோன்கம்,
மலப்புரம் , எர்நாடு,
கேரளா-673 642.

நகல்:-

1. மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையம், சென்னை.
2. ஆணையர், புவியியல் மற்றும் சுரங்கத்துறை, கிண்டி, சென்னை.

ANNEXURE

District : Karur

Taluk : Arvakurichi

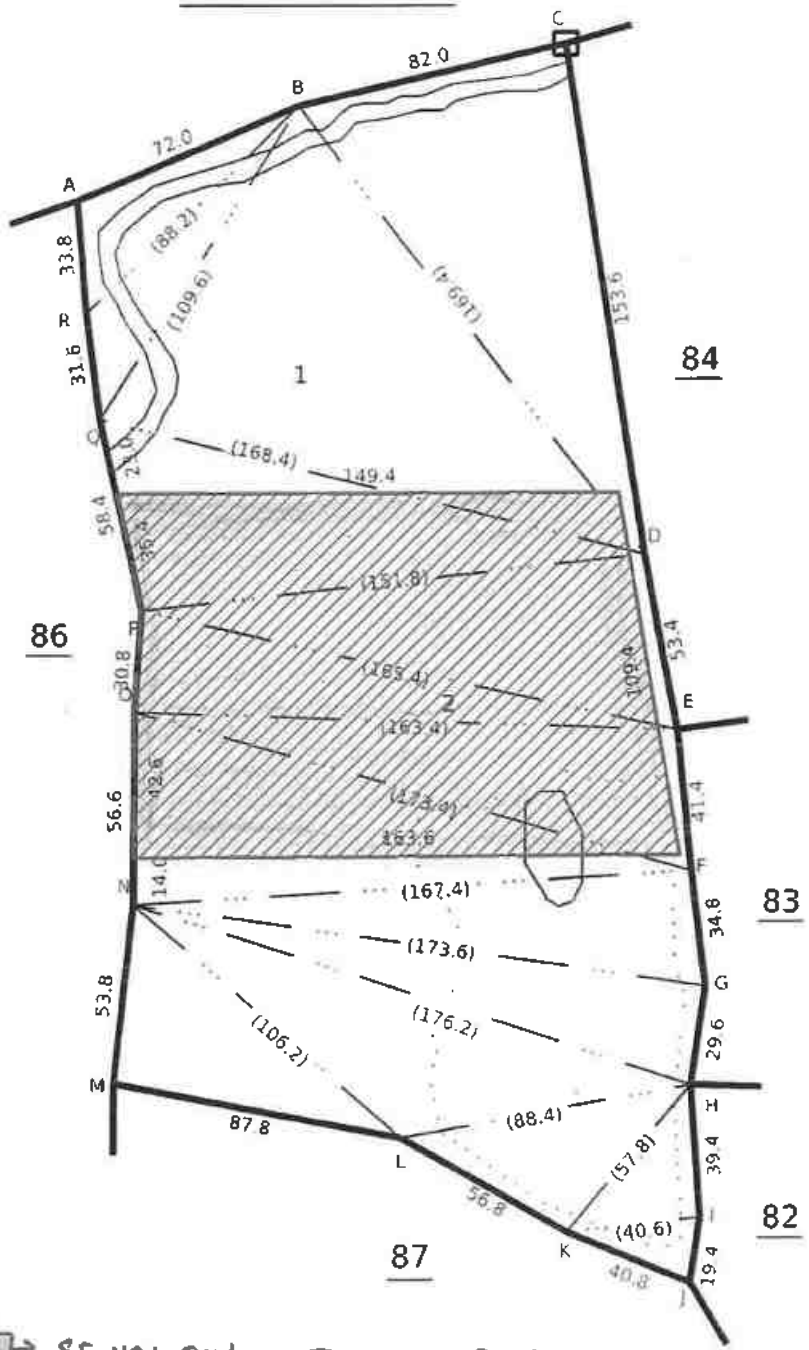
Village : Nadanthai North [13B]

Survey No : 85

Area : Hect 05 Ares 0.00

Scale : 1 : 2000

V.No.19.Paramathi



SF NO: 85/2 - தோராய பரப்பு } - மொத்த 1.66.00 ஹெக்

LEASE APPLIED AREA

Date of Issue: 22-01-2026 15:25:10

Survey and Settlement Department, Government of TamilNadu

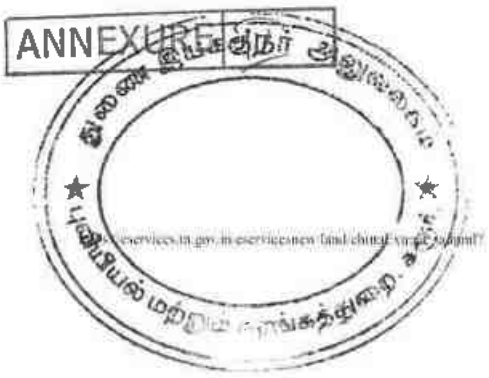
270 fv 10

ANNEXURE 11

LEASE APPLIED AREA

PARAMATHI NO.19

03, நடந்தை வடக்கு கிராமம்,
அரவக்குறிச்சி வட்டம்,
கரூர் மாவட்டம்.



தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம் : கரூர் வட்டம் : அரவக்குறிச்சி

வருவாய் இராமம் : நடந்தை வ பட்டா எண் : 2491

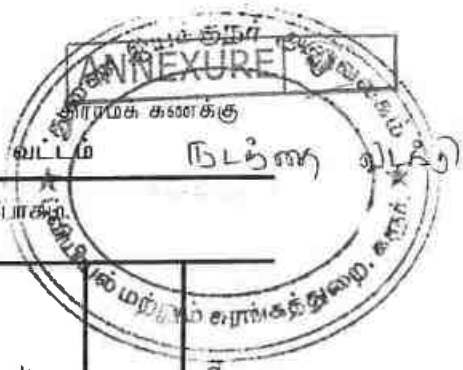
உரிமையாளர்கள் பெயர்

1. முஹமது மனைவி ரஷியா

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	
85	2	1 - 66.00	2.29	--	--	--	--	2025/0105/14/231243--2025/14/02/00009150 Digitally signed:PRABHAKAR K Tahsildar 27/12/2025 06:23:27:PM
		1 - 66.00	2.29					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் S/14/02/139/02491/20336 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 27-12-2025 அன்று 06:29:09 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்



1425 – ஆம் பசலியில் கரூர் மாவட்டம் அரவக்குறிச்சி வட்டம் நடந்தை வடக்கு கிராமம்

நில வரித் திட்டத்தின்படி புலன்களின் விபரம்.					கைப்பற்று தாரருடைய பெயரும் எண்ணும் அல்லது அனுபோக தாரருடைய பெயர்.	சாகுபடியாளரின் பெயர்.	முதல் போகம்.				
நில அளவை எண்.	உட்பிரிவு எண்.	பரப்பு.	தீர்வை.	ஒரு போகம் அல்லது இரு போகம்.		நிலத்தின் எந்த பகுதி யாவது சாகுபடியாளரால் பயிரிடப்பட்டுள்ளதா.	எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது.	பயிரின் பெயர்.	பயிரான / அறுவடையான பரப்பு.	உண்மையான பாய்ச்சல் ஆதாரம்.	விளைச்சல் அளவு விழுக்காடு.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
85	2	1.66.0	2-29	இரு	ராஜியம்	ஆம்	-	—	—	—	

இன்னம் நகல்

கிராம நிருவாக அலுவலர்
03. நடந்தை வடக்கு கிராமம்,
அரவக்குறிச்சி வட்டம்,
கரூர் மாவட்டம்.

அ-பதிவேடு விவரங்கள் - ஊரகம்

மாவட்டம் : கரூர்

வட்டம் : அரவக்குறிச்சி

கிராமம் : நடந்தை வ

1. புல எண்	**85**	9. மண் வயனமும் ரகமும்	**8 - 4**
2. உட்பிரிவு எண்	**2**	10. மண் தரம்	**6**
3. பழைய புல உட்பிரிவு எண்	**85--**	11. தீர்வை (ரூ - ஹெ)	**1.38**
4. பகுதி	**P**	12. பரப்பு (ஹெக்டேர் - ஏர்)	**1 - 66.00**
5. அரசு / ரயத்துவாரி	**ரயத்துவாரி**	13. மொத்த தீர்வை (ரூ - பை)	**2.29**
6. நிலத்தின் வகை	**புஞ்சை**	14. பட்டா எண்	**2491**
7. பாசன ஆதாரம்	**-**	15. குறிப்பு	**-**
8. இரு போகமா	**-**	16. பெயர்	**1.ரஷியா**

குறிப்பு:

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **14/02/13B/85/2/80336** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

ANNEXURE-III

ANNEXURE

ഭാരത സർക്കാർ
GOVERNMENT OF INDIA



റസിയ
Raziya

Year of Birth: 1969
Female

3401 4124 5709

ആധാർ - സാധാരണക്കാരന്റെ അവകാശം

ഭാരതീയ വിശിഷ്ട തിരിച്ചറിയൽ അതോറിറ്റി
UNIQUE IDENTIFICATION AUTHORITY OF INDIA

ആധാർ

മേൽവിലാസം W/O: മുഹമ്മദ്
ഫേവറൈറ്റ് ഹൗസ്, മൊറയൂർ, മോങ്ങം
മലപ്പുറം, കേരള, 673642

Address: W/O: Mohammed,
Favourit House, Morayur,
Mongam, Malappuram,
Ernad, Kerala, 673642

1800 180 1947

help@uidai.gov.in

www.uidai.gov.in

P.O. Box No.1947,
Bengaluru-560 001

ANNEXURE V. 1

BEACH MINERALS COMPANY PVT LTD

(100% E.O.U)

Registered Office : BMC House, 32-2, Halls Road, Egmore,
Chennai - 600 008. TN, India.
Phone+91 44 42202345 e-mail - info@bmcindia.net

Ref.No: BMC/M-11 **Date: 01-11-2018**

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. E. SARAVANAN, S/o. A. ELANGOVAN,** has worked in our Mines from 12.07.2013 to 31.10.2018 as a GEOLOGIST in a supervisory capacity with our entire satisfaction. During his working period, we found him a sincere, honest, hardworking, dedicated employee with a professional attitude and excellent job knowledge. During the above tenure of service his execution of the assigned work in exemplary and worth mentioning.

His conduct and character are good and exemplary. We wish him success in his future endeavors.

for Beach Minerals Company Pvt Ltd.
31/11/2018
Managing Director
9600524399

Reg. No. 09PGL63019
Col. Code. 106

பெரியார் பல்கலைக்கழகம்
Periyar University

அறிவியல் புலம்
FACULTY OF SCIENCE

பெரியார் பல்கலைக்கழக ஆட்சிக்குழு **2011** ஆம் ஆண்டு **ஏப்ரல்** மாதம் நடந்த **பயன்பாட்டுப்புவியமைப்பியல்** தேர்வில் அரசு கலைக் கல்லூரி, சேலம் - 636 007 (தன்னாட்சி) பயின்ற **E சரவணன்** என்பவர் **முதல் வகுப்பு - தனிச்சிறப்புடன் D தரத்தில்** தேர்ச்சி பெற்றார் என்று தக்க தேர்வாளர்கள் சான்றளித்தபடி **அறிவியல் நிறைஞர்** என்னும் பட்டத்தை அவருக்குப் பல்கலைக்கழக இலச்சினையுடன் வழங்குகிறது.

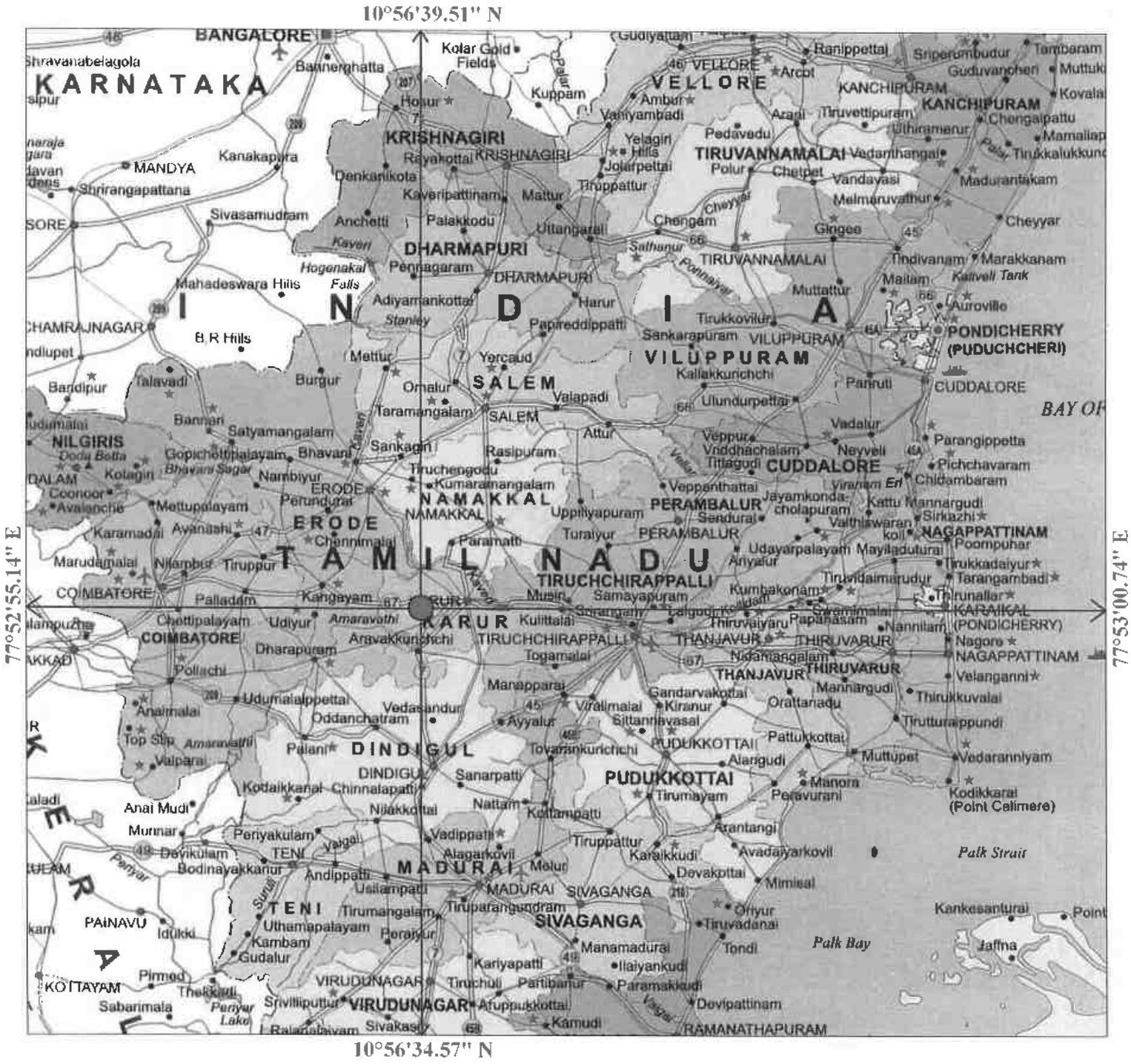
The Syndicate of the **Periyar University** *hereby makes known that* **SARAVANAN E** *has been admitted to the* **DEGREE OF MASTER OF SCIENCE in APPLIED GEOLOGY** *he/she having been certified by duly appointed Examiners to be qualified to receive the same and was placed in the* **FIRST CLASS - DISTINCTION WITH D GRADE** *at the Examination held in* **APR-2011** *through* GOVERNMENT ARTS COLLEGE, SALEM - 636 007 (AUTONOMOUS).

Given under the seal of this university

நாள்
Dated 25-11-2011
சேலம் 636011, தமிழ்நாடு, இந்தியா.
Salem 636011, Tamil Nadu, India.

பதிவாளர் (பொ)
Registrar i/c.

துணைவேந்தர்
Vice-Chancellor



N

PLATE NO-I

DATE OF SURVEY : 05.03.2026

APPLICANT:

TMT.M.RAZIYA,
W/o.MOHAMMED,
FAVOURIT HOUSE,
MORAIYUR, MONGAM,
MALAPPURAM, ERNAD,
KERALA - 673642.

QUARRY APPLIED LEASE AREA:

S.F.NO : 85/2,
EXTENT : 1.66.0 Ha,
VILLAGE : NADANTHAI NORTH,
TALUK : ARAVAKURICHI,
DISTRICT : KARUR.

INDEX

Q. LEASE APPLIED AREA :

TOPO SHEET NO : 58 F / 13

LATITUDE : 10°56'34.57"N to 10°56'39.51"N

LONGITUDE : 77°52'55.14"E to 77°53'00.74"E

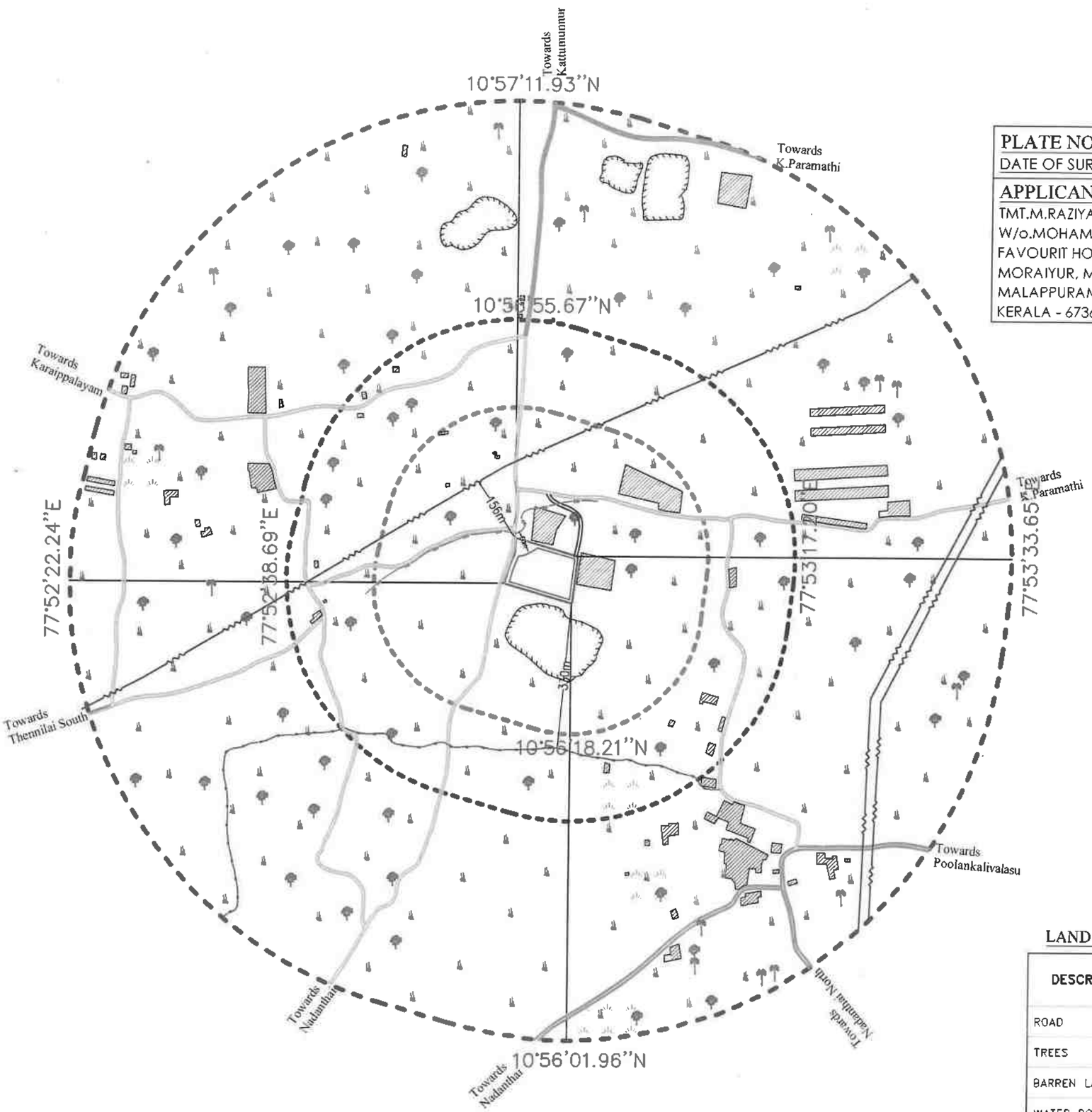
LOCATION PLAN

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.

E.SARAVANAN, M.Sc (GEO)., M.Sc (EVS)., M.Tech.,
QUALIFIED PERSON



N

PLATE NO-IA
DATE OF SURVEY : 05.03.2026

APPLICANT:
TMT.M.RAZIYA,
W/o.MOHAMMED,
FAVOURIT HOUSE,
MORAIYUR, MONGAM,
MALAPPURAM, ERNAD,
KERALA - 673642.

QUARRY APPLIED LEASE AREA:
S.F.NO : 85/2,
EXTENT : 1.66.0 Ha.
VILLAGE : NADANTHAI NORTH,
TALUK : ARAVAKURICHI
DISTRICT : KARUR.

INDEX
TOPO SHEET NO : 58 F / 13
LATITUDE : 10°56'34.57"N TO 10°56'39.51"N
LONGITUDE : 77°52'55.14"E TO 77°53'00.74"E

- Q.LEASE APPLIED AREA
- 7.5m, 10m & 50m SAFETY
- 300M RADIUS
- 500M RADIUS
- 1KM RADIUS
- APPROACH ROAD
- CART TRACK
- VILLAGE ROAD
- BARREN LAND
- TREES
- SEASONAL AGRICULTURE
- NEERNILAIVILAKKI
- ODAI
- QUARRY PIT
- HABITATIONS
- CRUSHER PLANT
- POULTRY FARM
- HT LINE

LAND USE PATTERN

DESCRIPTION	AREA IN (%)
ROAD	05
TREES	08
BARREN LAND	57
WATER BODIES	08
HABITATIONS	12
AGRICULTURE	10

ENVIRONMENTAL PLAN
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

E.SARAVANAN. M.Sc (GEO)., M.Sc (EVS)., M.Tech.,
QUALIFIED PERSON



PLATE NO-IB

DATE OF SURVEY : 05.03.2026

APPLICANT:

TMT.M.RAZIYA,
W/o.MOHAMMED,
FAVOURIT HOUSE,
MORAIYUR, MONGAM,
MALAPPURAM, ERNAD,
KERALA - 673642.

QUARRY APPLIED LEASE AREA:

S.F.NO : 85/2,
EXTENT : 1.66.0 Ha,
VILLAGE : NADANTHAI NORTH,
TALUK : ARAVAKURICHI,
DISTRICT : KARUR.

INDEX

TOPO SHEET NO : 58 F / 13

LATITUDE : 10°56'34.57"N TO 10°56'39.51"N

LONGITUDE : 77°52'55.14"E TO 77°53'00.74"E

Q.LEASE APPLIED AREA	
7.5m , 10m & 50m SAFETY	
300M RADIUS	
500M RADIUS	
1KM RADIUS	
APPROACH ROAD	
CART TRACK	
VILLAGE ROAD	

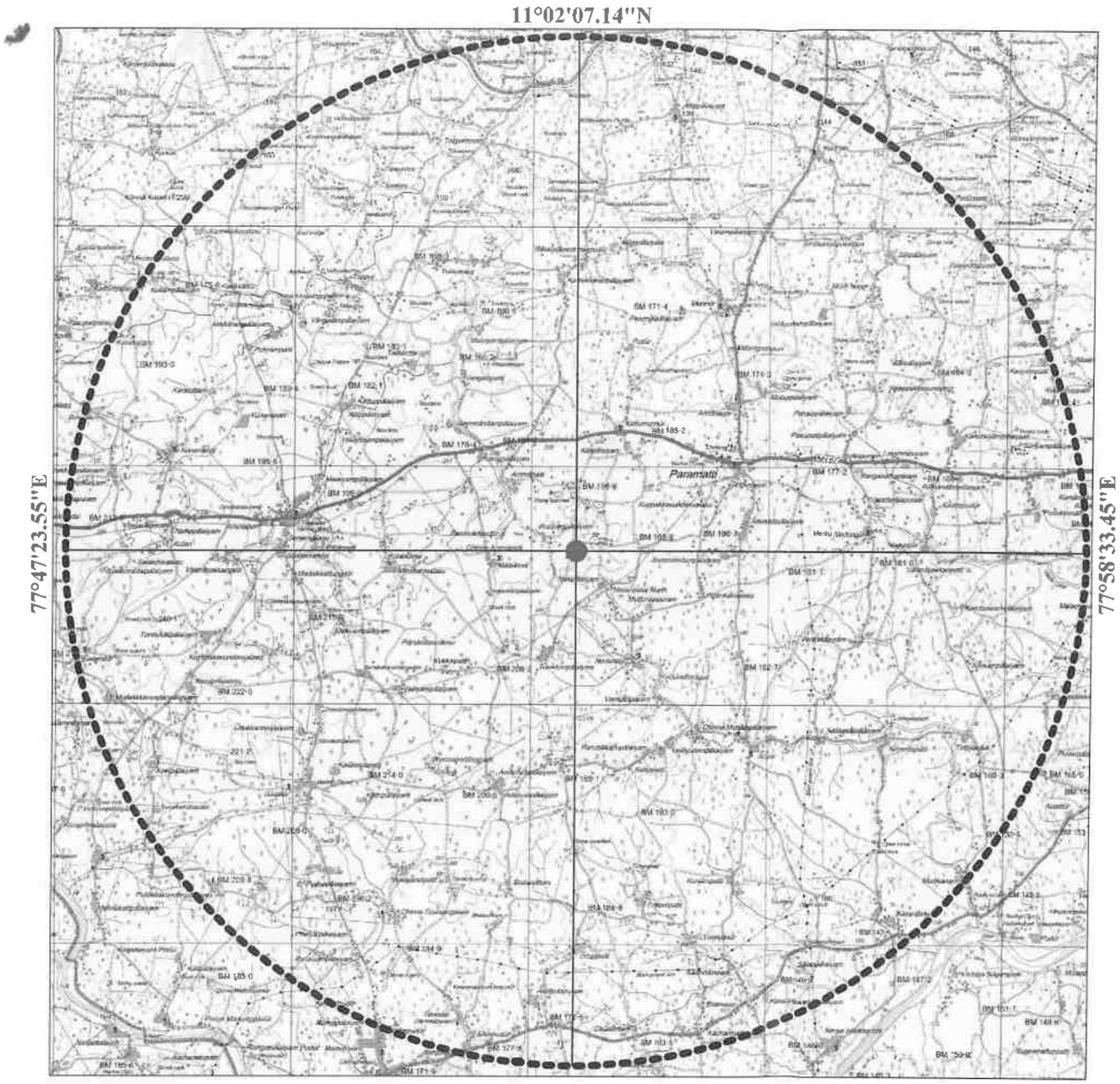
SATELLITE IMAGERY MAP

SCALE 1: 10,000

PREPARED BY :

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E.SARAVANAN, M.Sc (GEO)., M.Sc (EVS)., M.Tech.,
QUALIFIED PERSON



N

PLATE NO-IC

DATE OF SURVEY : 05.03.2026

APPLICANT:

TMT.M.RAZIYA,
W/o.MOHAMMED,
FAVOURIT HOUSE,
MORAIYUR, MONGAM,
MALAPPURAM, ERNAD,
KERALA - 673642.

QUARRY APPLIED LEASE AREA:

S.F.NO : 85/2,
EXTENT : 1.66.0 Ha,
VILLAGE : NADANTHAI NORTH,
TALUK : ARAVAKURICHI,
DISTRICT : KARUR.

INDEX

TOPO SHEET NO : 58 F / 13

LATITUDE : 10°56'34.57"N to 10°56'39.51"N

LONGITUDE : 77°52'55.14"E to 77°53'00.74"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

E.SARAVANAN, M.Sc (GEO)., M.Sc (EVS)., M.Tech.,
QUALIFIED PERSON

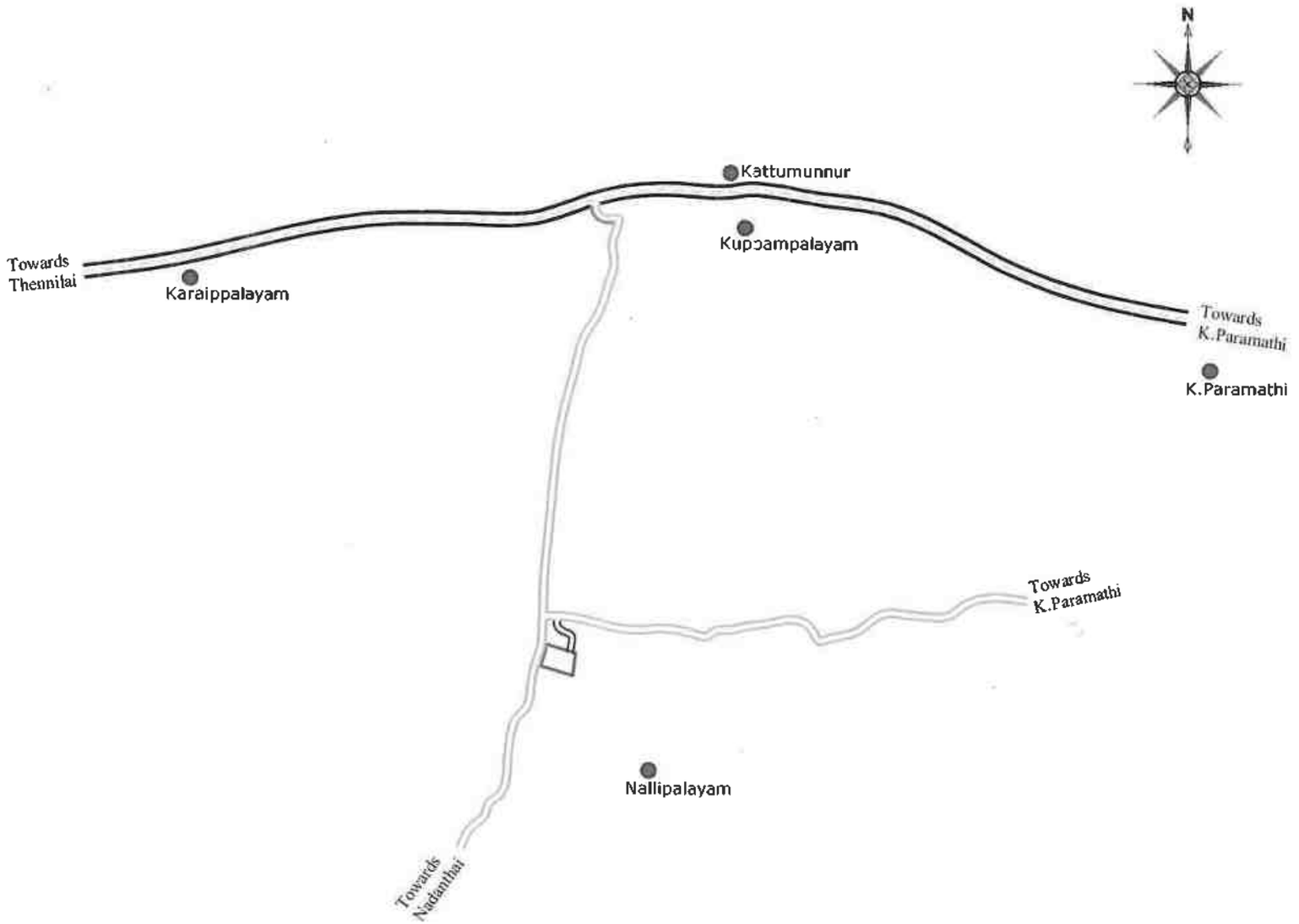


PLATE NO-ID

DATE OF SURVEY : 05.03.2026

APPLICANT:

TMT.M.RAZIYA,
W/o.MOHAMMED,
FAVOURIT HOUSE,
MORAIYUR, MONGAM,
MALAPPURAM, ERNAD,
KERALA - 673642.

QUARRY APPLIED LEASE AREA:

S.F.NO : 85/2,
EXTENT : 1.66.0 Ha,
VILLAGE : NADANTHAI NORTH,
TALUK : ARAVAKURICHI,
DISTRICT : KARUR.

INDEX

Q.LEASE APPLIED AREA	
APPROACH ROAD	
CART TRACK	
NATIONAL HIGHWAY	
HABITATIONS	

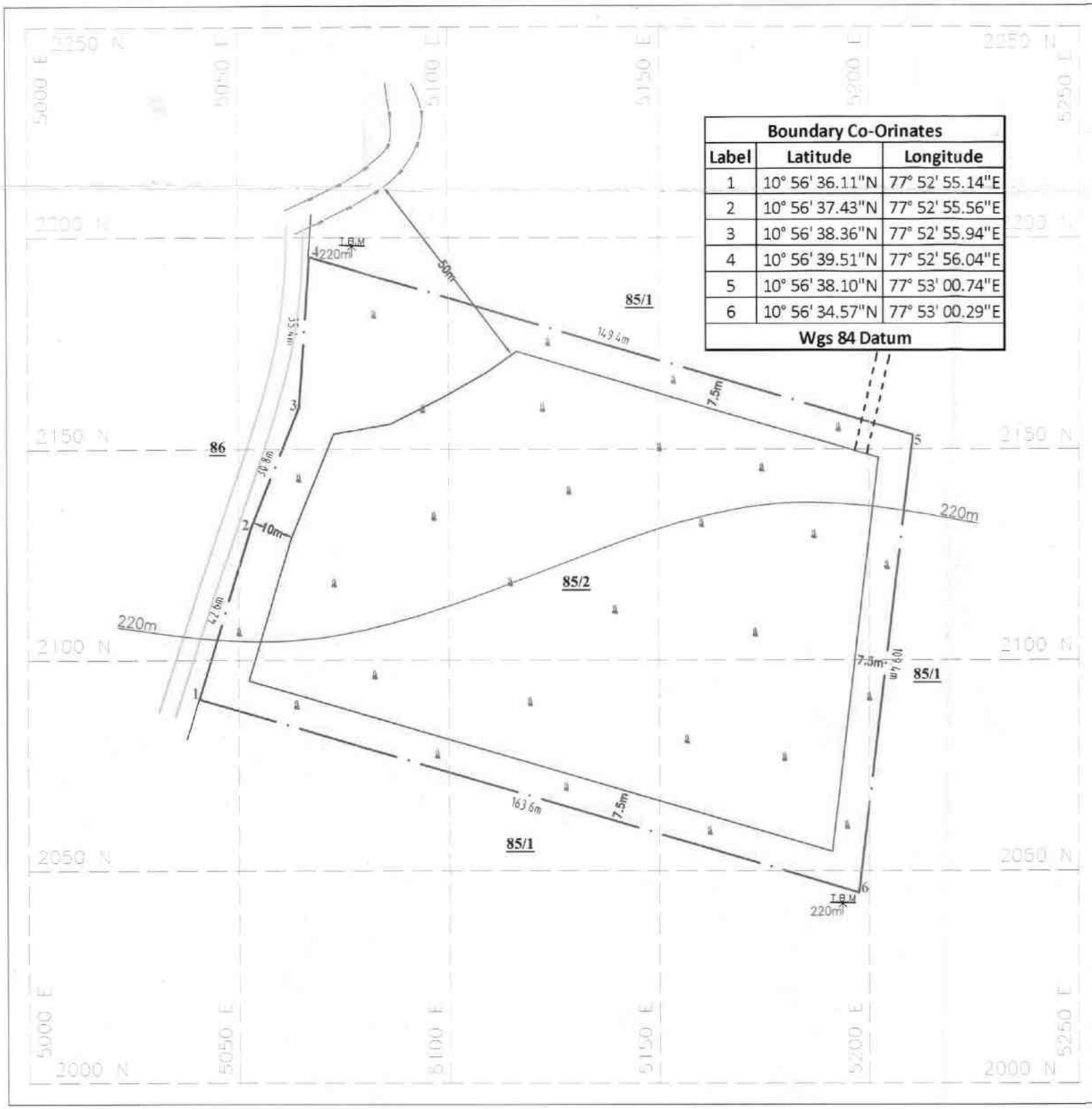
KEY PLAN

Not To Scale

PREPARED BY:

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

E.SARAVANAN, M.Sc.(GEO)., M.S.(EVS)., M.Tech.,
QUALIFIED PERSON



Boundary Co-Orinates		
Label	Latitude	Longitude
1	10° 56' 36.11"N	77° 52' 55.14"E
2	10° 56' 37.43"N	77° 52' 55.56"E
3	10° 56' 38.36"N	77° 52' 55.94"E
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5	10° 56' 38.10"N	77° 53' 00.74"E
6	10° 56' 34.57"N	77° 53' 00.29"E
Wgs 84 Datum		

PLATE NO-II

DATE OF SURVEY : 05.03.2026

APPLICANT:

TMT.M.RAZIYA,
W/o.MOHAMMED,
FAVOURIT HOUSE,
MORAIYUR, MONGAM,
MALAPPURAM, ERNAD,
KERALA - 673642.

QUARRY APPLIED LEASE AREA:

S.F.NO : 85/2,
EXTENT : 1.66.0 Ha,
VILLAGE : NADANTHAI NORTH,
TALUK : ARAVAKURICHI,
DISTRICT : KARUR.

INDEX

- Q.LEASE APPLIED BOUNDARY
- 7.5m, 10m & 50m SAFETY DISTANCE
- TEMPORARY BENCH MARK
- APPROACH ROAD
- CART TRACK
- CONTOUR
- SCRUB
- NEERNILAIVILAKKI

QUARRY LEASE & SURFACE PLAN

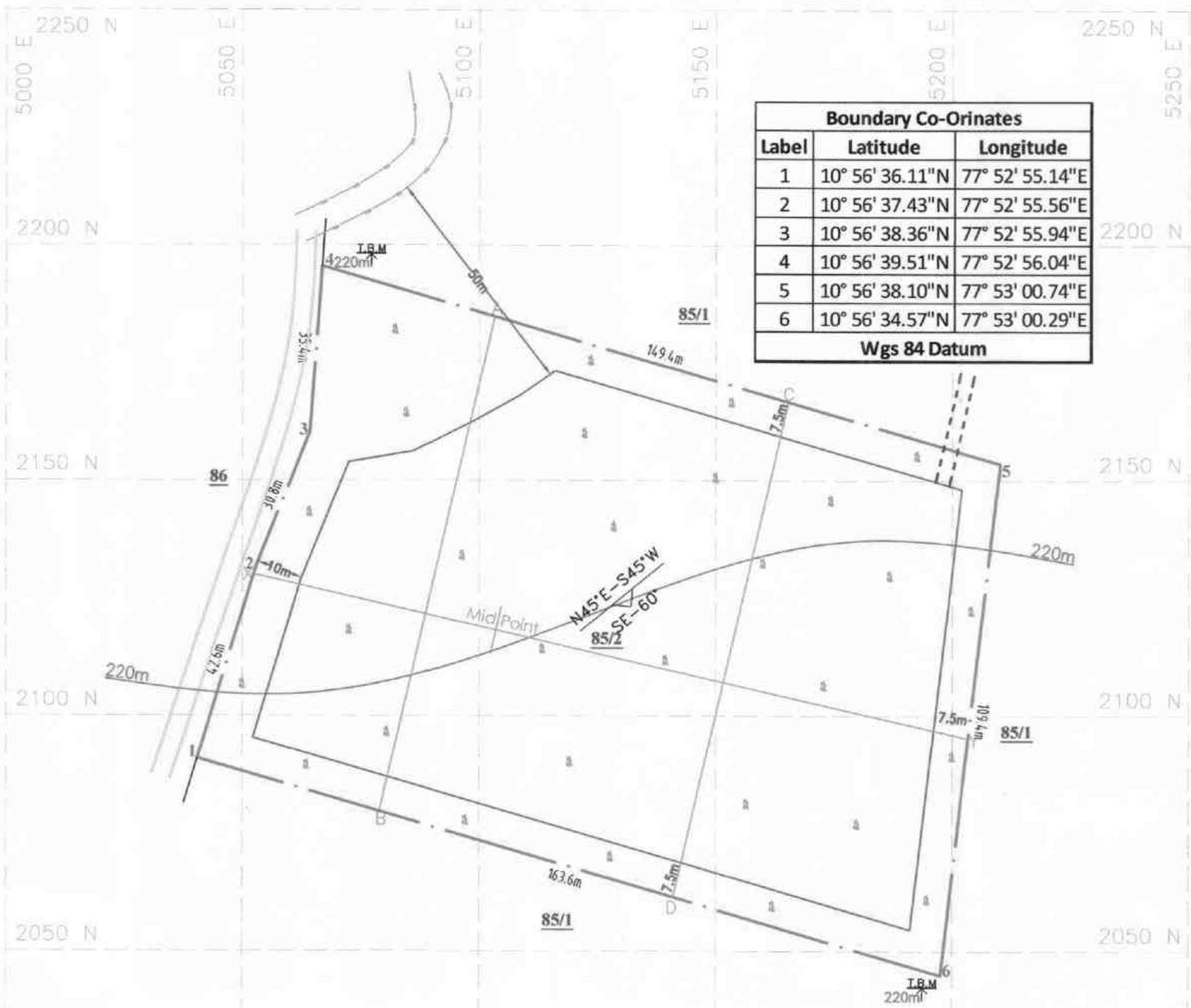
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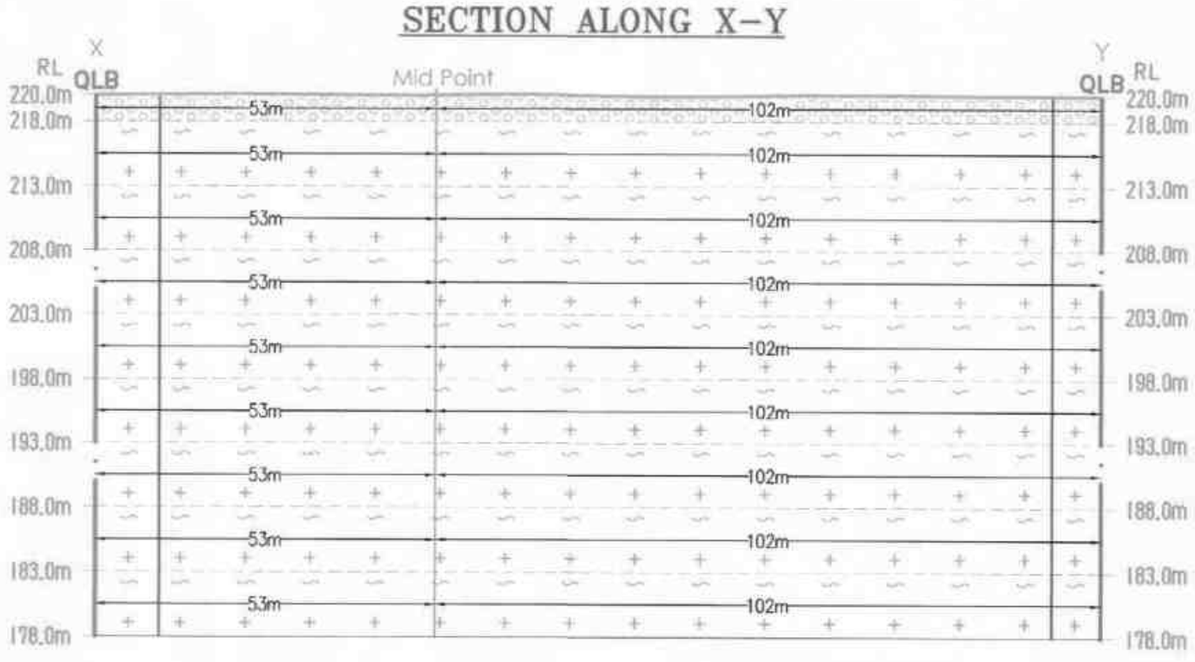
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E.SARAVANAN, M.Sc (GEO)., M.Sc (EVS)., M.Tech.,
QUALIFIED PERSON

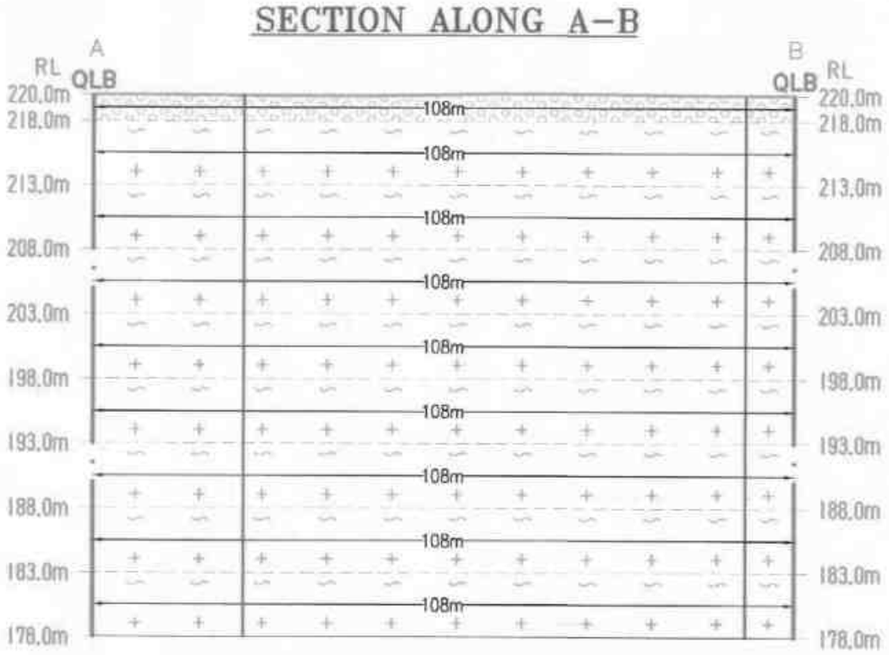
Boundary Co-Orinates		
Label	Latitude	Longitude
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6	10° 56' 34.57"N	77° 53' 00.29"E
Wgs 84 Datum		



SECTION ALONG X–Y



SECTION ALONG A–B



SECTION ALONG C–D

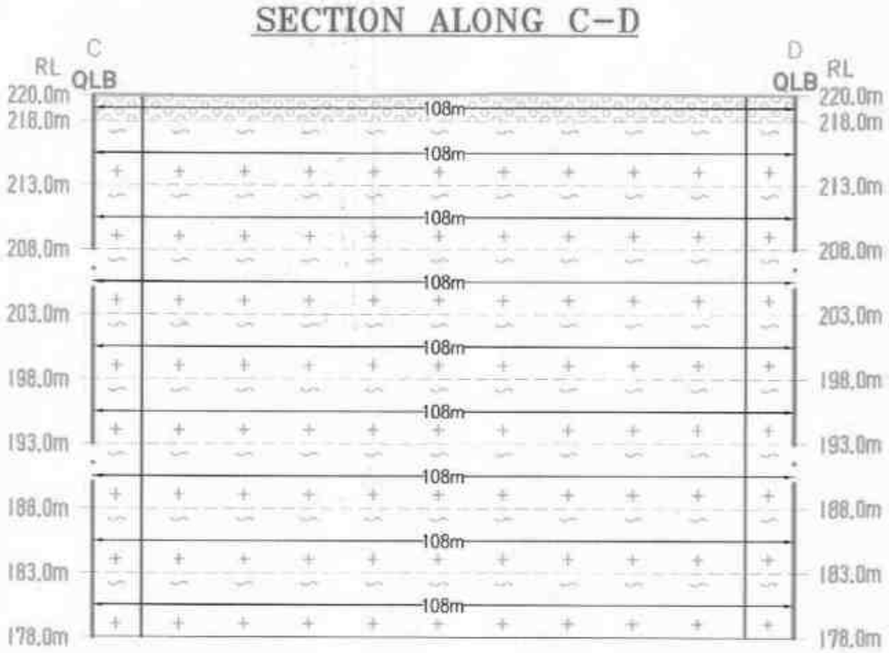


PLATE NO-III
DATE OF SURVEY : 05.03.2026

APPLICANT:
TMT.M.RAZIYA,
W/o.MOHAMMED,
FAVOURIT HOUSE,
MORAIYUR, MONGAM,
MALAPPURAM, ERNAD,
KERALA - 673642.

QUARRY APPLIED LEASE AREA:
S.F.NO : 85/2,
EXTENT : 1.66.0 Ha,
VILLAGE : NADANTHAI NORTH,
TALUK : ARAVAKURICHI,
DISTRICT : KARUR.

INDEX

- Q.LEASE APPLIED BOUNDARY
- 7.5m,10m & 50m SAFETY DISTANCE
- TEMPORARY BENCH MARK (T.B.M)
- APPROACH ROAD
- CART TRACK
- CONTOUR
- SCRUB
- NEERNILAIVILAKKI
- GRAVEL
- ROUGH STONE
- STRIKE & DIP

TOPOGRAPHY, GEOLOGICAL PLAN & SECTIONS

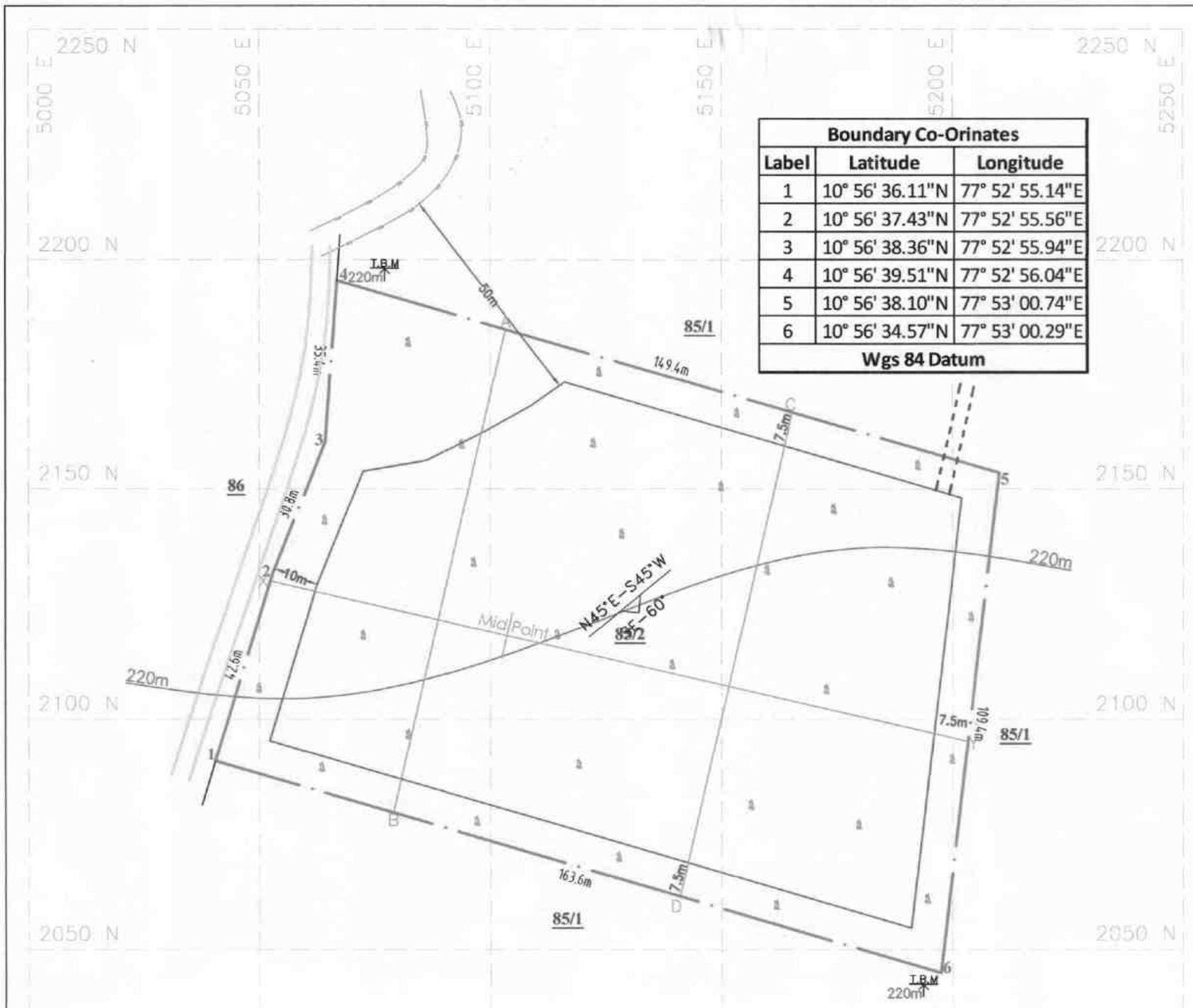
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SECTIONS HOR 1:1000, VER 1:500

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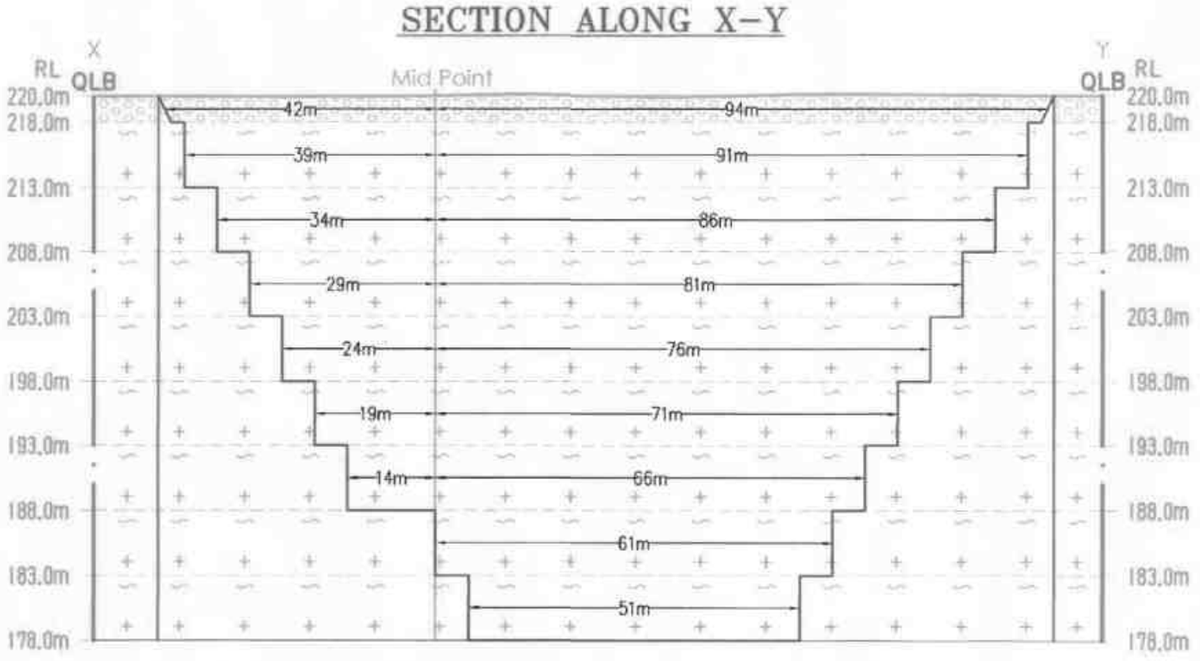
THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT

E.SARAVANAN, M.Sc (GEO)., M.Sc (EVS)., M.Tech.,
QUALIFIED PERSON

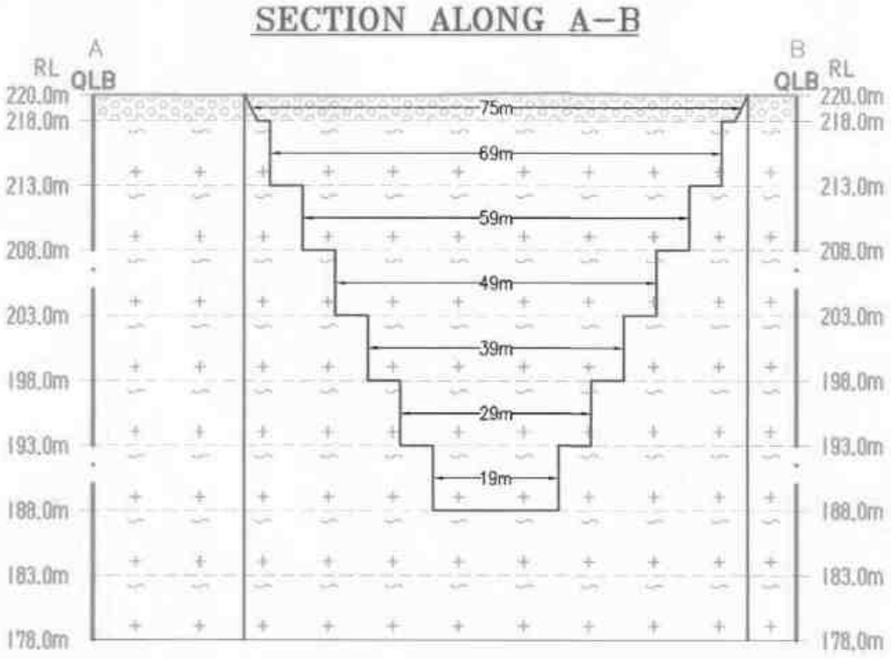
Boundary Co-Orinates		
Label	Latitude	Longitude
1	10° 56' 36.11"N	77° 52' 55.14"E
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6	10° 56' 34.57"N	77° 53' 00.29"E
Wgs 84 Datum		



SECTION ALONG X-Y



SECTION ALONG A-B



SECTION ALONG C-D

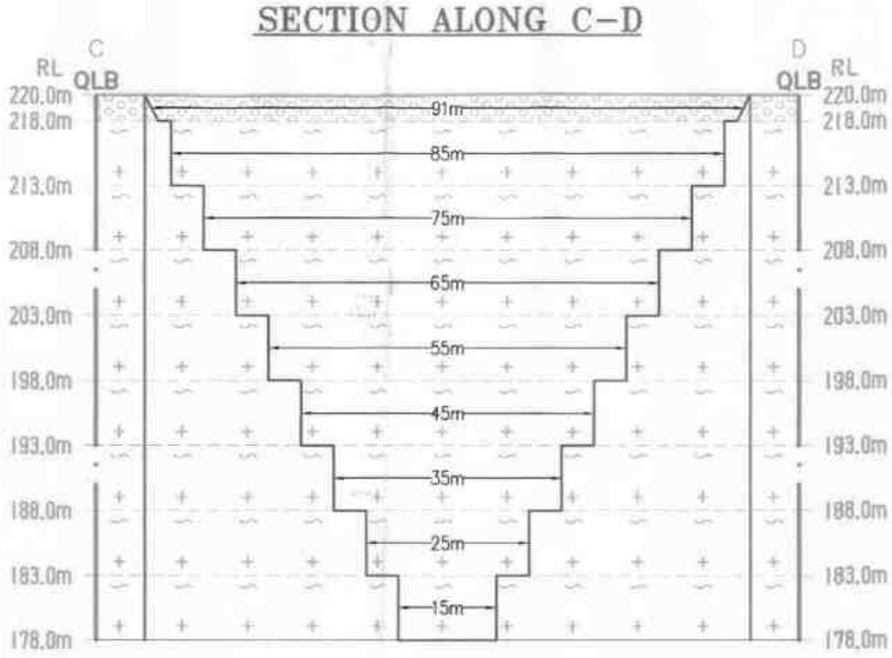


PLATE NO-IV
DATE OF SURVEY : 05.03.2026

APPLICANT:
TMT.M.RAZIYA,
W/o.MOHAMMED,
FAVOURIT HOUSE,
MORAIYUR, MONGAM,
MALAPPURAM, ERNAD,
KERALA - 673642.

QUARRY APPLIED LEASE AREA:
S.F.NO : 85/2,
EXTENT : 1.66.0 Ha,
VILLAGE : NADANTHAI NORTH,
TALUK : ARAVAKURICHI,
DISTRICT : KARUR.

INDEX

- Q.LEASE APPLIED BOUNDARY
- 7.5m,10m & 50m SAFETY DISTANCE
- TEMPORARY BENCH MARK (TBM)
- APPROACH ROAD
- CART TRACK
- CONTOUR
- SCRUB
- NEERNILAIVILAKKI
- GRAVEL
- ROUGH STONE
- STRIKE & DIP

MINEABLE PLAN & SECTIONS

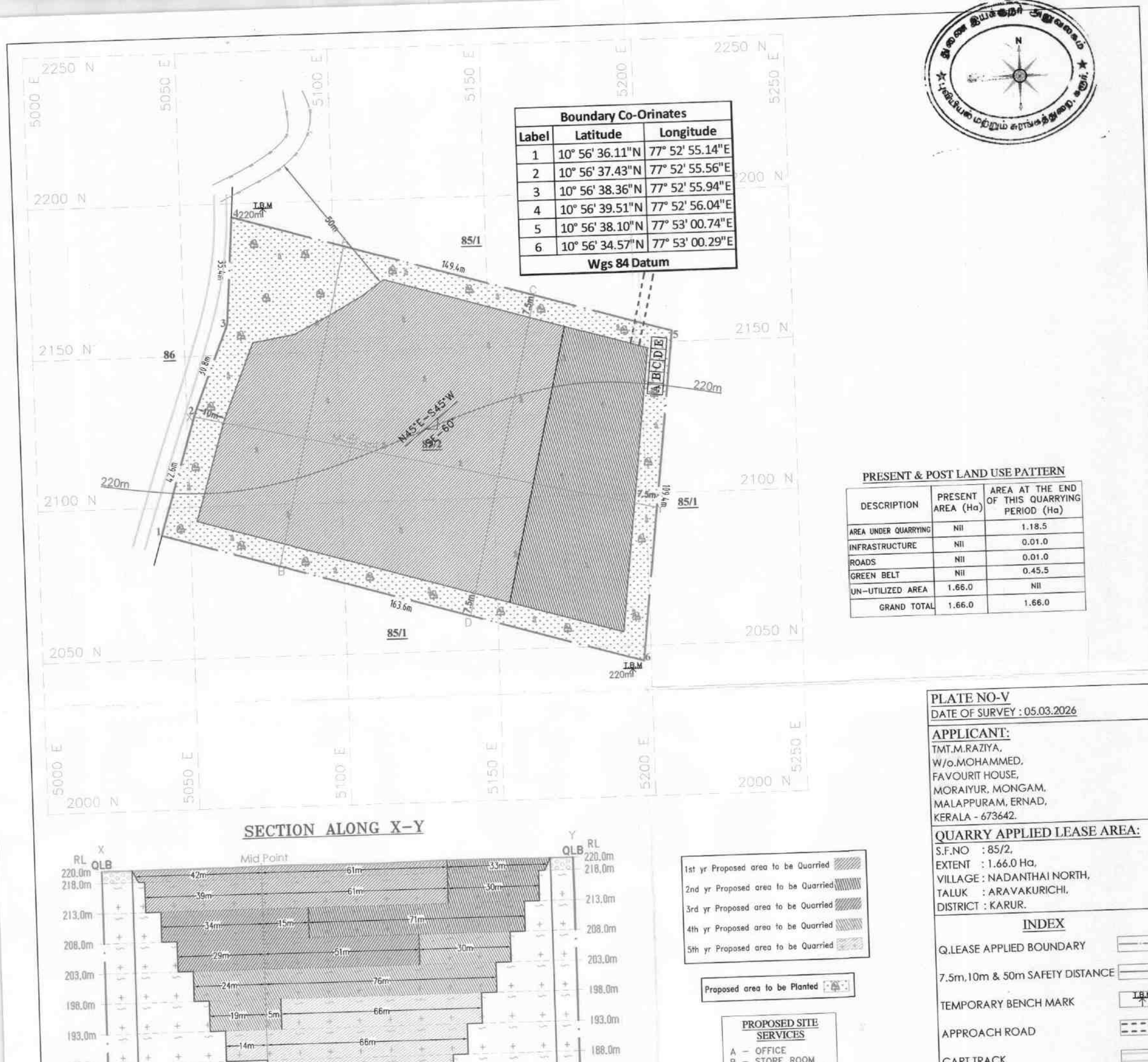
SCALE 1 : 1000
SECTIONS HOR 1:1000, VER 1:500

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.

E.SARAVANAN, M.Sc (GEO)., M.Sc (EVS)., M.Tech.,
QUALIFIED PERSON

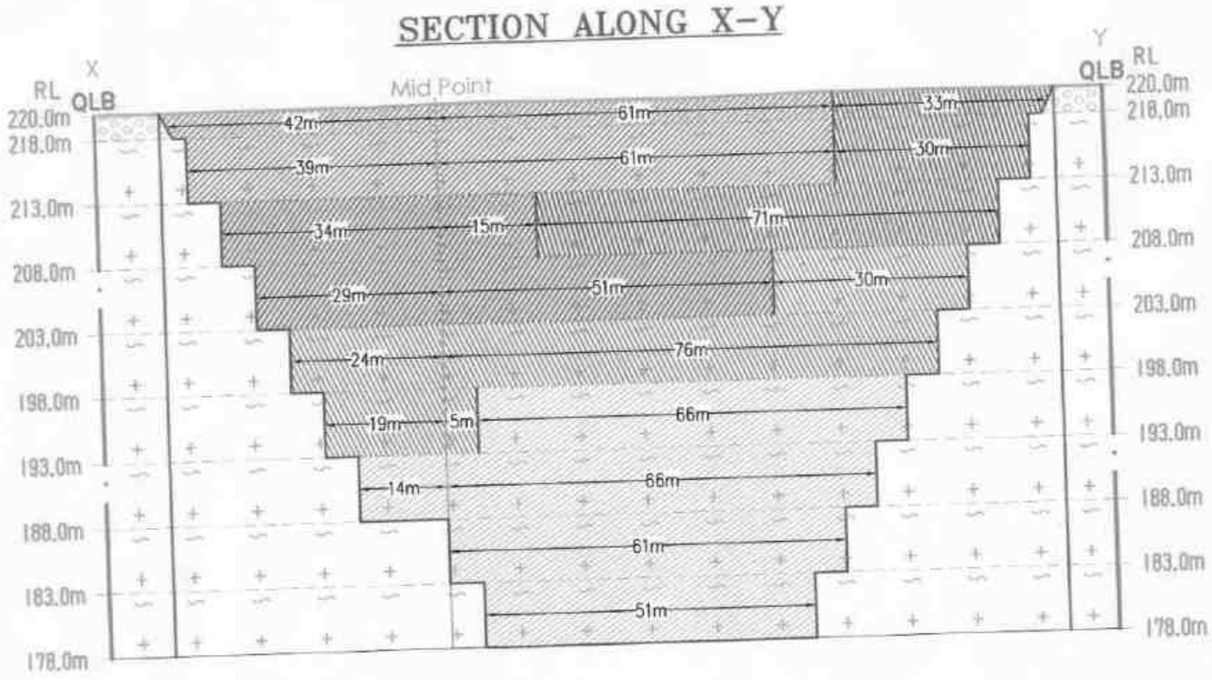
Boundary Co-Orinates		
Label	Latitude	Longitude
1	10° 56' 36.11"N	77° 52' 55.14"E
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Wgs 84 Datum		



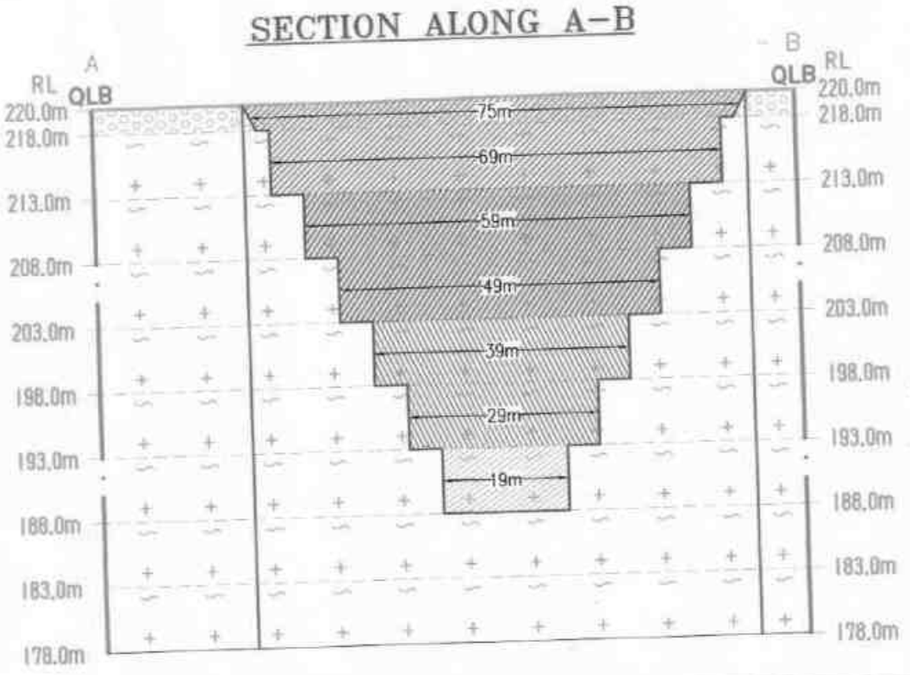
PRESENT & POST LAND USE PATTERN

DESCRIPTION	PRESENT AREA (Ha)	AREA AT THE END OF THIS QUARRYING PERIOD (Ha)
AREA UNDER QUARRYING	Nil	1.18.5
INFRASTRUCTURE	Nil	0.01.0
ROADS	Nil	0.01.0
GREEN BELT	Nil	0.45.5
UN-UTILIZED AREA	1.66.0	Nil
GRAND TOTAL	1.66.0	1.66.0

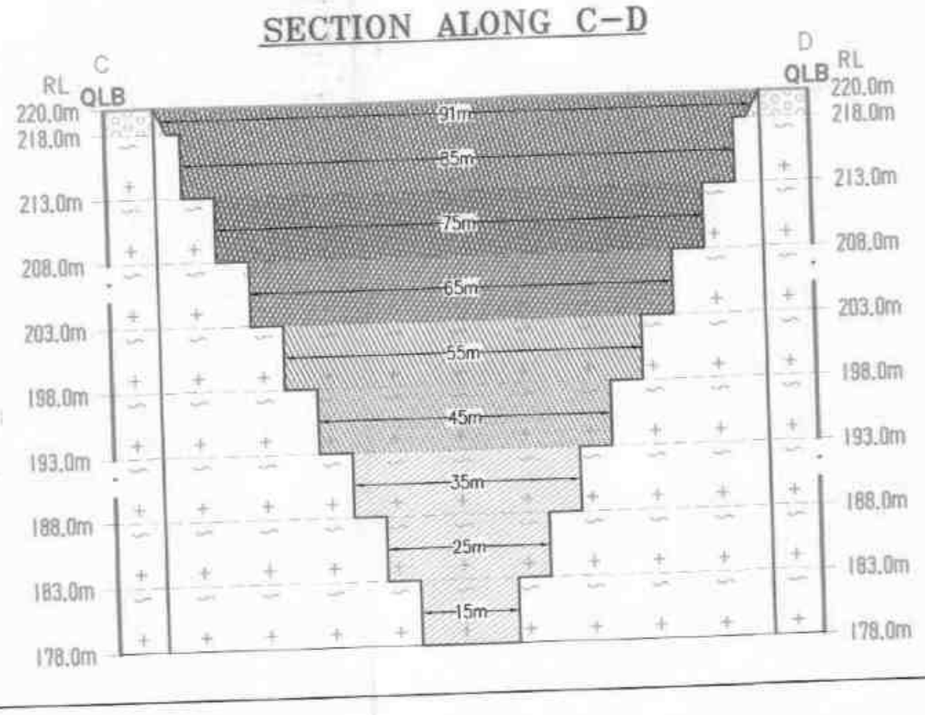
SECTION ALONG X-Y



SECTION ALONG A-B



SECTION ALONG C-D



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

Proposed area to be Planted

PROPOSED SITE SERVICES

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

PLATE NO-V
DATE OF SURVEY : 05.03.2026

APPLICANT:
TMT.M.RAZIYA,
W/o.MOHAMMED,
FAVOURIT HOUSE,
MORAIYUR, MONGAM,
MALAPPURAM, ERNAD,
KERALA - 673642.

QUARRY APPLIED LEASE AREA:
S.F.NO : 85/2,
EXTENT : 1.66.0 Ha,
VILLAGE : NADANTHAI NORTH,
TALUK : ARAVAKURICHI,
DISTRICT : KARUR.

INDEX

- Q.LEASE APPLIED BOUNDARY
- 7.5m,10m & 50m SAFETY DISTANCE
- TEMPORARY BENCH MARK (T.B.M)
- APPROACH ROAD
- CART TRACK
- CONTOUR
- SCRUB
- NEERNILAIVILAKKI
- GRAVEL
- ROUGH STONE
- STRIKE & DIP

YEARWISE DEVELOPMENT & PRODUCTION PLAN & SECTIONS

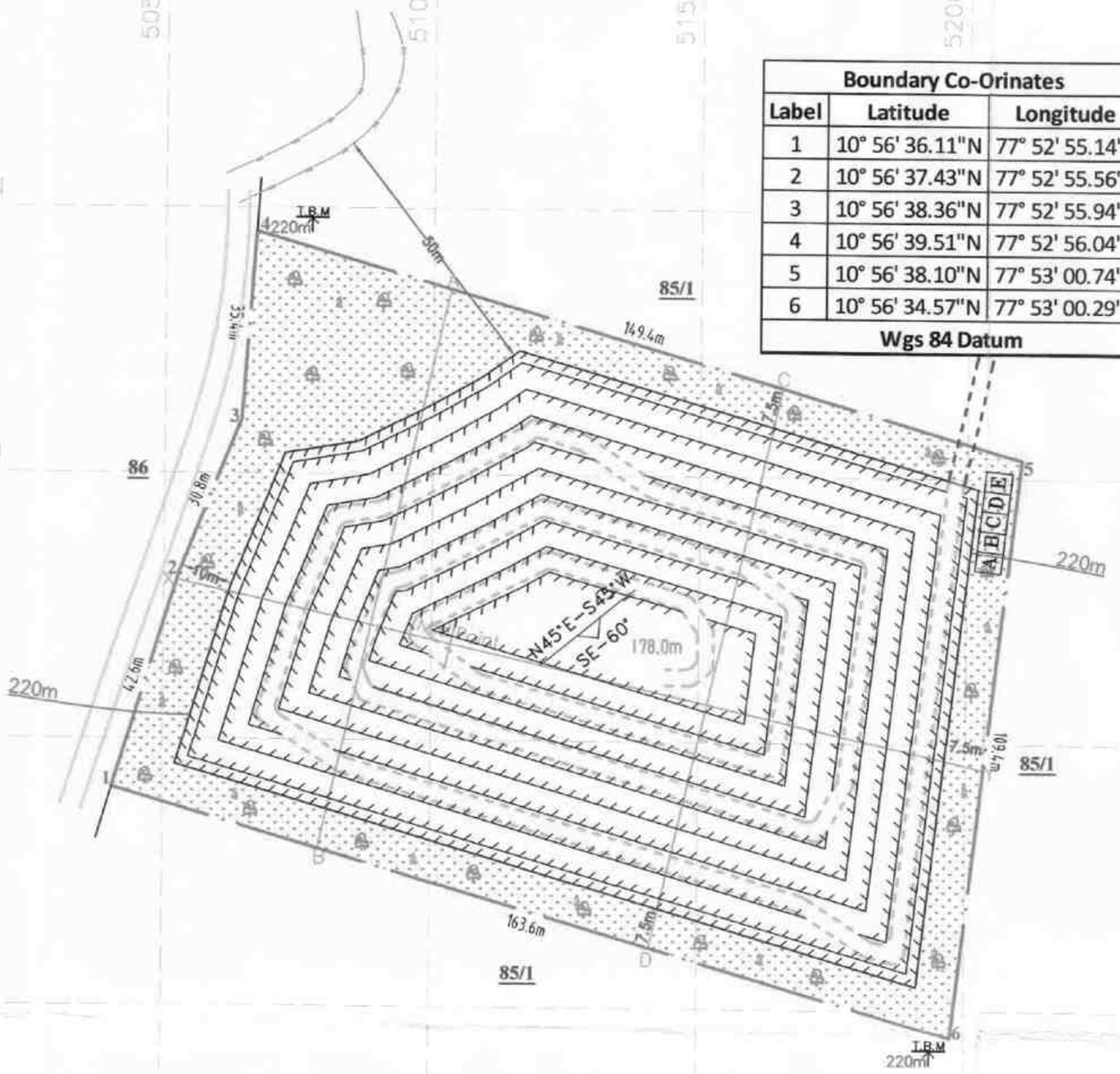
SCALE 1 : 1000
SECTIONS HOR 1:1000, VER 1:500

PREPARED BY:

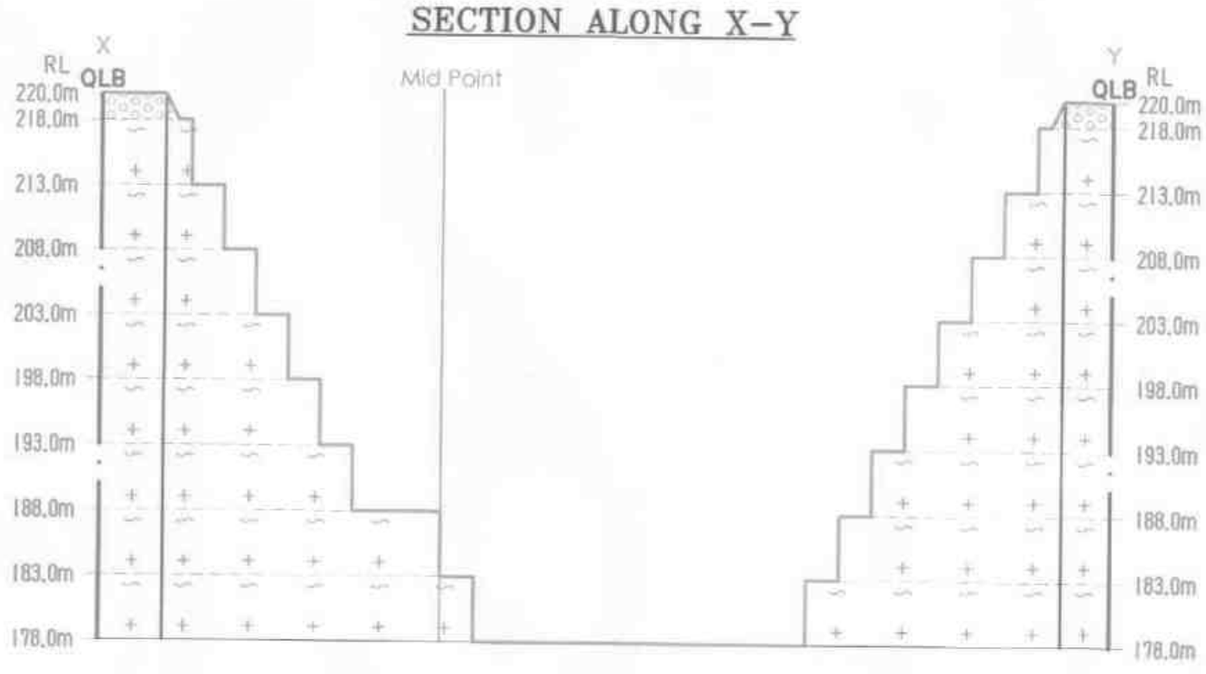
THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT

E.SARAVANAN, M.Sc (GEO)., M.Sc (EVS)., M.Tech
QUALIFIED PERSON

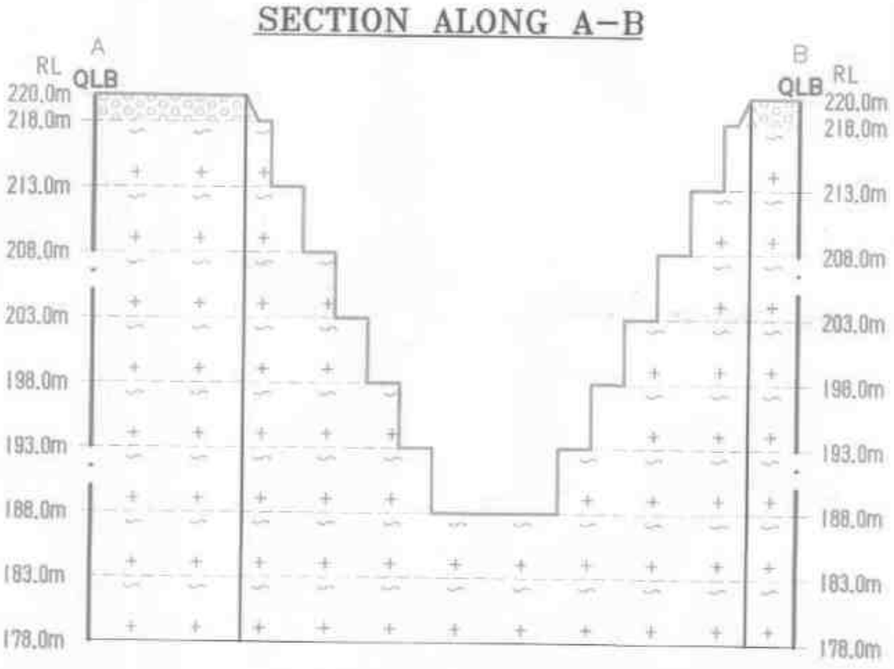
Boundary Co-Orinates		
Label	Latitude	Longitude
1	10° 56' 36.11"N	77° 52' 55.14"E
2	10° 56' 37.43"N	77° 52' 55.56"E
3	10° 56' 38.36"N	77° 52' 55.94"E
4	10° 56' 39.51"N	77° 52' 56.04"E
5	10° 56' 38.10"N	77° 53' 00.74"E
6	10° 56' 34.57"N	77° 53' 00.29"E
Wgs 84 Datum		



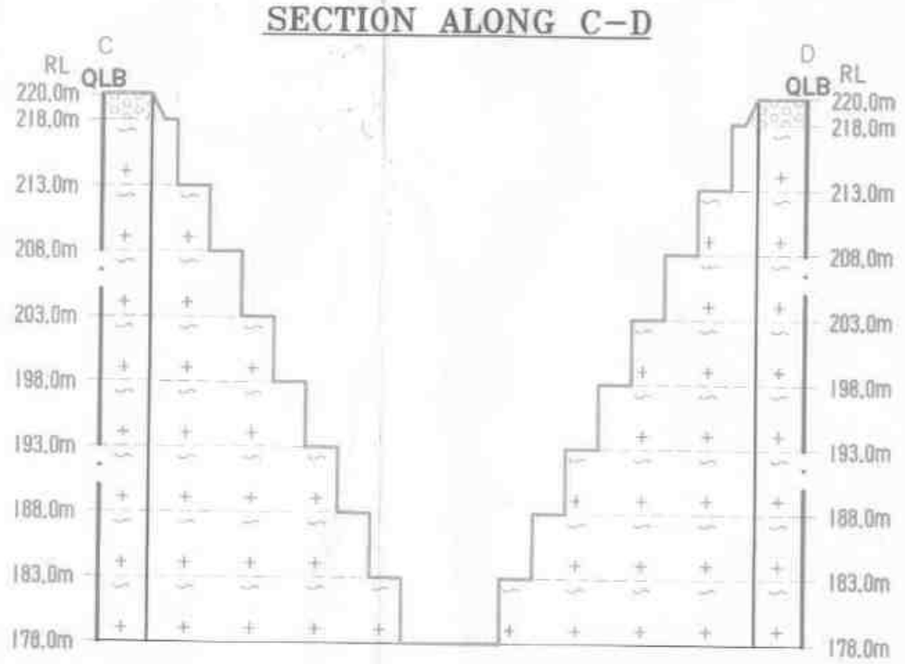
SECTION ALONG X–Y



SECTION ALONG A–B



SECTION ALONG C–D



Ultimate Pit Dimension of end of the Mining Plan Period
L136mX87m(Avg)XD42m(Max)

Proposed area to be Planted

PROPOSED SITE SERVICES

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

PLATE NO-VI
DATE OF SURVEY : 05.03.2026

APPLICANT:
TMT.M.RAZIYA,
W/o.MOHAMMED,
FAVOURIT HOUSE,
MORAIYUR, MONGAM,
MALAPPURAM, ERNAD,
KERALA - 673642.

QUARRY APPLIED LEASE AREA:
S.F.NO : 85/2,
EXTENT : 1.66.0 Ha,
VILLAGE : NADANTHAI NORTH,
TALUK : ARAVAKURICHI,
DISTRICT : KARUR.

INDEX

- Q.LEASE APPLIED BOUNDARY
- 7.5m,10m & 50m SAFETY DISTANCE
- TEMPORARY BENCH MARK
- APPROACH ROAD
- CART TRACK
- CONTOUR
- SCRUB
- NEERNILAIVILAKKI
- GRAVEL
- ROUGH STONE
- STRIKE & DIP
- PROPOSED QUARRY PIT
- INTERNAL HAUL ROAD

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

E.SARAVANAN, M.Sc (GEO)., M.Sc (EVS)., M.Tech.,
QUALIFIED PERSON

ANNEXURE-4

From
Thiru.V.Sasikumar,M.Sc.,
Deputy Director,
Geology and Mining,
Karur.

To
Tmt.M.Raziya,
W/o. Mohammed,
Favourit House,
Marayur, Mongam,
Malappuram,
Ernad, Kerala - 673642

Rc.No.22/Mines/2026, Dated: .03.2026

Sir,

Sub: Mines and Minerals – Minor Mineral – Karur District – Aravakurichi Taluk – Nadanthai North Village - Patta land in S.F.No. 85/2 Over an extent of 1.66.0 hectares - Quarry lease application preferred by Tmt.M.Raziya for quarrying Rough Stone and Gravel – Mining Plan approved - requested for the details of Existing/ Proposed/Expired and Abandoned quarries situated within 500 mts radial distance - furnished – Regarding.

Ref:
1. Quarry lease Online application for quarrying Rough stone and Gravel preferred by Tmt.M.Raziya, W/o. Mohammed, Favourit House, Marayur, Mongam, Malappuram, Ernad, Kerala, dated: 24.11.2025.
2. Deputy Director, Geology and Mining, Karur Notice Rc.No.22/Mines/2026, Dated:11.02.2026
3. Tmt.M.Raziya, request letter dt: 03.03.2026
4. Deputy Director, Geology and Mining, Karur Revised Notice Rc.No.22/Mines/2026, Dated:05.03.2026
5. Mining Plan submitted by Tmt.M.Raziya, letter received in this office on 09.03.2026
6. The Deputy Director, Geology and Mining, Karur Mining Plan approved letter Rc.No.22/Mines/2026, Dated:12.03.2026.
7. Tmt.M.Raziya, letter received in this office on: 16.03.2026.

In the reference 1st cited Tmt.M.Raziya, W/o.Mohammed, Favourit House, Marayur, Mongam, Malappuram, Ernad, Kerala has preferred an online application for the grant of Ten years lease to quarry Rough Stone and Gravel

over an extent of 1.66.0 hectares of patta land in S.F.No. 85/2 of Nadanthai North Village, Aravakurichi Taluk, Karur District. The Deputy Director of Geology and Mining, Karur had issued precise area memorandum to the proposed lease area vide reference 2nd cited.

In the reference 3rd cited Tmt.M.Raziya, has submitted request letter to the Deputy Director, Geology and Mining, Karur stated that the Low tension powerline has been shifted beyond 150m away from the lease area and also requested for revise precise area over an extent of 1.66.0 hectares of patta land in S.F.No. 85/2 of Nadanthai North Village, Aravakurichi Taluk, Karur District for the period of Five years to quarry Rough Stone and Gravel. In this regard, the revised precise area has been communicated by the Deputy Director, Geology and Mining, Karur to the applicant for the period of Five years in the above said field vide in the reference 4th cited. In perusal to that the draft mining plan submitted by the applicant as per the Rule 41 vide in the reference 5th cited and the same was approved by the Deputy Director, Geology and Mining, Karur vide reference 6th cited.

In the reference 7th cited, the applicant has requested to the Deputy Director of Geology and Mining, Karur to provide the details of existing, proposed, expired and abandoned quarries situated within 500 meter radial distance from the subject area and the same has been furnished as follows:-

I. Existing Quarries: -

Sl No.	Name of the lessee/firm it holder	Name of the Mineral	Taluk & Village	S.F.No.	Extent (hect)	Lease Period
1.	Sri Bharani Murugan Blue Metals, S.F.No.85 K.Paramathi, Nadanthai North & Post, Aravakurichi Taluk, Karur District	Rough Stone	Aravakurichi Taluk, Nadanthai North Village	82/1Part 82/2Part 83/1Part 83/2Part 83/3Part 85 Part 87/1Part 87/2Part 88/1Part 88/2Part	4.89.5	04.03.2022 to 03.03.2027

II. Proposed Quarries: -

Sl No.	Name of the lessee/firm it holder	Name of the Mineral	Taluk & Village	S.F.No.	Extent (hect)	Lease Period
1.	Tmt.M.Raziya, W/o. Mohammed, Favourit House, Marayur, Mongam, Malappuram, Ernad, Kerala -	Rough Stone and Gravel	Aravakurichi Taluk, Nadanthai North Village	85/2	1.66.0	Proposed

III. Lease Expired Quarries : -

Sl No.	Name of the lessee/firm it holder	Name of the Mineral	Taluk & Village	S.F.No.	Extent (hect)	Lease Period
1.	Vijay Blue Metals, Nallipalayam, Nadanthai Post, K.Paramathi Via., Aravakurichi Taluk, Karur.	Rough Stone	Pugalur (Erstwhile Aravakurichi) Taluk K.Paramathi Village,	491/1B 493/4B	1.97.0	17.05.2007 - 16.05.2012

IV. Abandoned Quarries : -

Sl No.	Name of the lessee/firm it holder	Name of the Mineral	Taluk & Village	S.F.No.	Extent (hect)	Lease Period
1.	-Nil-					

Deputy Director,
Geology and Mining,
Karur.

20/3/26

ANNEXURE-5

சான்று

கரூர் மாவட்டம் அரவக்குறிச்சி வட்டம் நடந்தை வடபாகம் கிராமம் புல எண் 85 / 2 ல் 1.66.0 ஹெக்டேர் பரப்பு நிலத்தில் சாதாரண உடைக்கல், கிராவல் மற்றும் குவாரி குத்தகை உரிமம் கோரி முஹம்மது என்பவரது மனைவி ரஷியா என்பவர் விண்ணப்பம் செய்துள்ளதின் பேரில்

புலத்தனிக்கையின் படி பிரஸ்தாப புலத்தினை சுற்றி 300.00 மீட்டர் சுற்றளவில் அங்கீகரிக்கப்பட்ட வீட்டு மனைகள், புராதன சின்னங்கள் ,கோவில்கள் , மசூதிகள் , பள்ளிகள் , கல்லூரிகள் ,பறவைகள் சரணாலயம் மற்றும் வனவிலங்கு சரணாலயங்கள் ஏதுமில்லை என்பதற்க்கான சான்று .

கிராம நிருவாக அலுவலர்
03. நடந்தை வடக்கு கிராமம்,
அரவக்குறிச்சி வட்டம்,
கரூர் மாவட்டம்.

TOPOGRAPHICAL VIEW OF NALLIPALAYAM - ROUGH STONE & GRAVEL QUARRY



NAME OF THE APPLICANT : RAZIYA.P

DISTRICT : KARUR

TALUK : ARAVAKURICHI

VILLAGE : NADANTHAI NORTH

S.F.NO : 85/2

EXTENT : 1.66 Ha

Place :

Date :

கிராம நிருவாக அலுவலர்
03, நடந்தை வடக்கு கிராமம்,
அரவக்குறிச்சி வட்டம்,
கரூர் மாவட்டம்.

ANNEXURE-6

ANNEXURE

District : Karur

Taluk : Arvakurichi

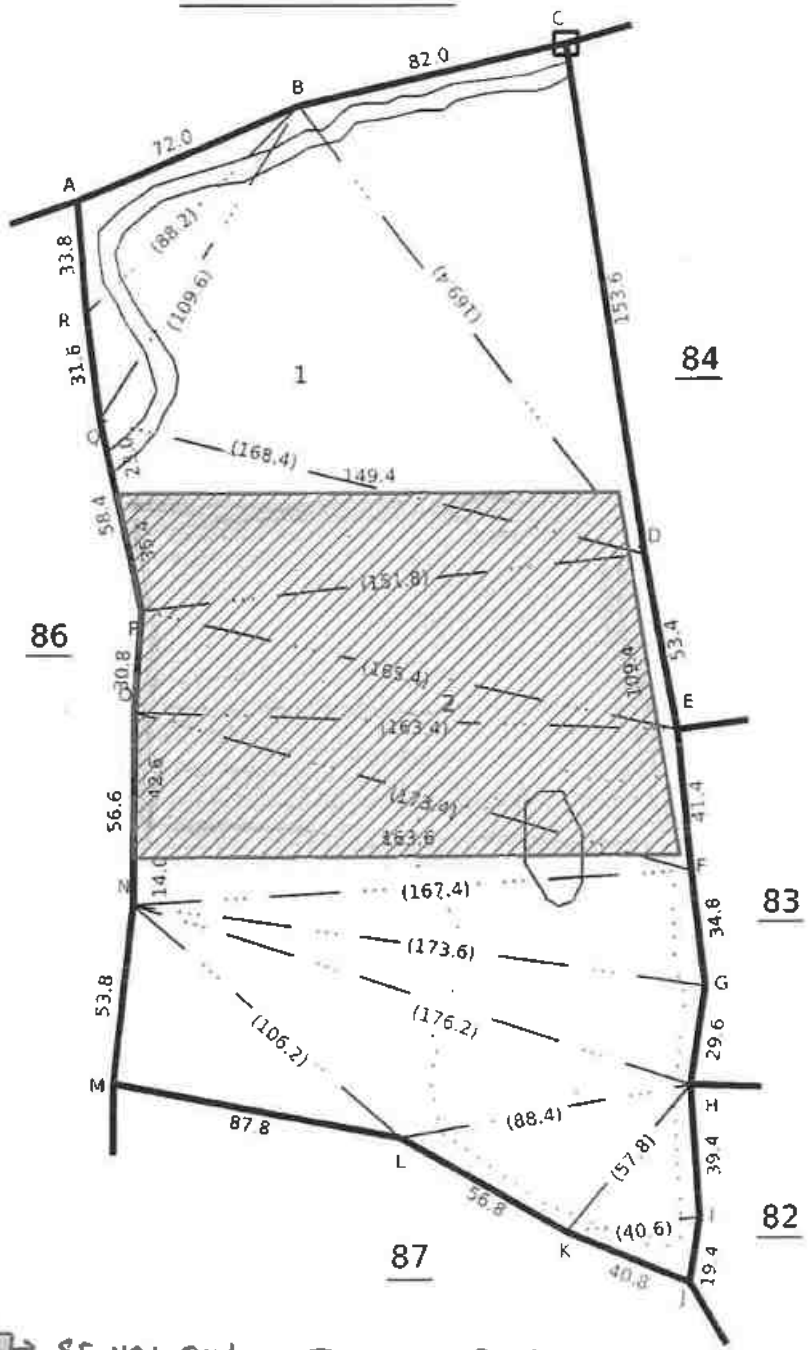
Village : Nadanthai North [13B]

Survey No : 85

Area : Hect 05 Ares 0.00

Scale : 1 : 2000

V.No.19.Paramathi



SF NO: 85/2 - தோராய பரப்பு } - மொத்த 1.66.00 ஹெக்

LEASE APPLIED AREA

Date of Issue: 22-01-2026 15:25:10

Survey and Settlement Department, Government of TamilNadu

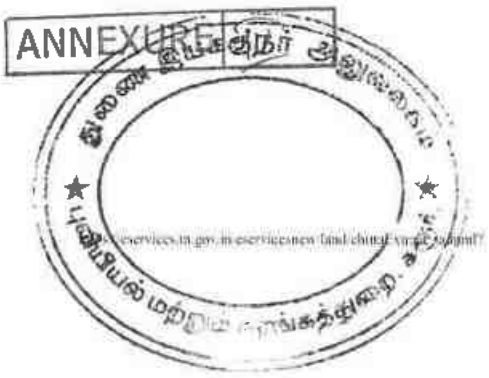
270 fv 10

ANNEXURE 11

LEASE APPLIED AREA

PARAMATHI NO.19

03, நடந்தை வடக்கு கிராமம்,
அரவக்குறிச்சி வட்டம்,
கரூர் மாவட்டம்.



தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம் : கரூர் வட்டம் : அரவக்குறிச்சி

வருவாய் இராமம் : நடந்தை வ பட்டா எண் : 2491

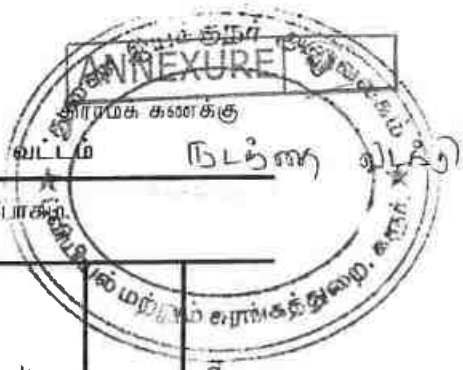
உரிமையாளர்கள் பெயர்

1. முஹமது மனைவி ரஷியா

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	
85	2	1 - 66.00	2.29	--	--	--	--	2025/0105/14/231243--2025/14/02/00009150 Digitally signed:PRABHAKAR K Tahsildar 27/12/2025 06:23:27:PM
		1 - 66.00	2.29					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் S/14/02/139/02491/20336 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 27-12-2025 அன்று 06:29:09 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்



1425 – ஆம் பசலியில் கரூர் மாவட்டம் அரவக்குறிச்சி வட்டம் நடந்தை வடக்கு கிராமம்

நில வரித் திட்டத்தின்படி புலன்களின் விபரம்.					கைப்பற்று தாரருடைய பெயரும் எண்ணும் அல்லது அனுபோக தாரருடைய பெயர்.	சாகுபடியாளரின் பெயர்.	முதல் போகம்.				
நில அளவை எண்.	உட்பிரிவு எண்.	பரப்பு.	தீர்வை.	ஒரு போகம் அல்லது இரு போகம்.		நிலத்தின் எந்த பகுதி யாவது சாகுபடியாளரால் பயிரிடப்பட்டுள்ளதா.	எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது.	பயிரின் பெயர்.	பயிரான / அறுவடையான பரப்பு.	உண்மையான பாய்ச்சல் ஆதாரம்.	விளைச்சல் அளவு விழுக்காடு.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
85	2	1.66.0	2-29	இரு	ராஜியம்	ஆம்	-	—	—	—	

இன்னம் நகல்

கிராம நிருவாக அலுவலர்
03. நடந்தை வடக்கு கிராமம்,
அரவக்குறிச்சி வட்டம்,
கரூர் மாவட்டம்.

அ-பதிவேடு விவரங்கள் - ஊரகம்

மாவட்டம் : கரூர்

வட்டம் : அரவக்குறிச்சி

கிராமம் : நடந்தை வ

1. புல எண்	**85**	9. மண் வயனமும் ரகமும்	**8 - 4**
2. உட்பிரிவு எண்	**2**	10. மண் தரம்	**6**
3. பழைய புல உட்பிரிவு எண்	**85--**	11. தீர்வை (ரூ - ஹெ)	**1.38**
4. பகுதி	**P**	12. பரப்பு (ஹெக்டேர் - ஏர்)	**1 - 66.00**
5. அரசு / ரயத்துவாரி	**ரயத்துவாரி**	13. மொத்த தீர்வை (ரூ - பை)	**2.29**
6. நிலத்தின் வகை	**புஞ்சை**	14. பட்டா எண்	**2491**
7. பாசன ஆதாரம்	**-**	15. குறிப்பு	**-**
8. இரு போகமா	**-**	16. பெயர்	**1.ரஷியா**

குறிப்பு:

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **14/02/13B/85/2/80336** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

ANNEXURE-III

ANNEXURE-7

Shrient Analytical and Research Labs Pvt. Ltd

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Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2026/1057	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1057	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	03.03.2026	Test Completed on	13.03.2026
Temperature	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	$\mu g/m^3$	68.9	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	$\mu g/m^3$	7.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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Please Contact:
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TEST REPORT

Report No.	SARL/2026/1058	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1058	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	03.03.2026	Test Completed on	13.03.2026
Temperature	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	$\mu g/m^3$	49.1	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	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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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/2026/1059	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1059	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	04.03.2026	Test Completed on	13.03.2026
Temperature	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	$\mu g/m^3$	72.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	35.1	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	$\mu g/m^3$	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/1060	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1060	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	04.03.2026	Test Completed on	13.03.2026
Temperature	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	$\mu g/m^3$	59.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1061	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1061	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	05.03.2026	Test Completed on	13.03.2026
Temperature	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	$\mu g/m^3$	68.1	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	$\mu g/m^3$	9.3	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(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/2026/1062	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1062	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	05.03.2026	Test Completed on	13.03.2026
Temperature	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	$\mu g/m^3$	61.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.2	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

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TEST REPORT

Report No.	SARL/2026/1063	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1063	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	06.03.2026	Test Completed on	13.03.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	63.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.9	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	$\mu g/m^3$	14.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1064	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1064	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	06.03.2026	Test Completed on	13.03.2026
Temperature	35°C	Relative Humidity	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	$\mu g/m^3$	57.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1065	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1065	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	07.03.2026	Test Completed on	13.03.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.3	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	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1066	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1066	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	07.03.2026	Test Completed on	13.03.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	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(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/2026/1067	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1067	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	07.03.2026	Test Completed on	13.03.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1068	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1068	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	08.03.2026	Test Completed on	13.03.2026
Temperature	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	$\mu g/m^3$	53.5	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	$\mu g/m^3$	7.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(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/2026/1069	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1069	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	08.03.2026	Test Completed on	13.03.2026
Temperature	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	$\mu g/m^3$	52.5	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	$\mu g/m^3$	7.4	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(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/2026/1070	Report Date.	13.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1070	Sample Received on	09.03.2026
Sample Collected by	LABORATORY	Test Commenced on	09.03.2026
Sample Collected on	08.03.2026	Test Completed on	13.03.2026
Temperature	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	$\mu g/m^3$	51.5	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	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1147	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1147	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	10.03.2026	Test Completed on	20.03.2026
Temperature	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	$\mu g/m^3$	57.2	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	$\mu g/m^3$	8.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1148	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1148	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	10.03.2026	Test Completed on	20.03.2026
Temperature	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	$\mu g/m^3$	43.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/1149	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1149	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	10.03.2026	Test Completed on	20.03.2026
Temperature	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	$\mu g/m^3$	42.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	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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TEST REPORT

Report No.	SARL/2026/1150	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1150	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	11.03.2026	Test Completed on	20.03.2026
Temperature	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	$\mu g/m^3$	52.9	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	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1151	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1151	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	11.03.2026	Test Completed on	20.03.2026
Temperature	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	$\mu g/m^3$	45.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	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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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/1152	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1152	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	11.03.2026	Test Completed on	20.03.2026
Temperature	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	$\mu g/m^3$	44.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	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/2026/1153	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1153	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	12.03.2026	Test Completed on	20.03.2026
Temperature	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	$\mu g/m^3$	57.4	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	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/1154	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1154	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	12.03.2026	Test Completed on	20.03.2026
Temperature	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	$\mu g/m^3$	51.5	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	$\mu g/m^3$	6.5	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/2026/1155	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1155	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	13.03.2026	Test Completed on	20.03.2026
Temperature	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	$\mu g/m^3$	28.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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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TEST REPORT

Report No.	SARL/2026/1156	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1156	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	13.03.2026	Test Completed on	20.03.2026
Temperature	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	$\mu g/m^3$	52.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.7	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/2026/1157	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1157	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	14.03.2026	Test Completed on	20.03.2026
Temperature	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	$\mu g/m^3$	67.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/1158	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1158	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	14.03.2026	Test Completed on	20.03.2026
Temperature	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	$\mu g/m^3$	55.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.8	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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Technical Manager

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TEST REPORT

Report No.	SARL/2026/1159	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1159	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	15.03.2026	Test Completed on	20.03.2026
Temperature	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	$\mu g/m^3$	55.3	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	$\mu g/m^3$	6.7	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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For Shrient Analytical and Research Labs Pvt. Ltd

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/1160	Report Date.	20.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1160	Sample Received on	16.03.2026
Sample Collected by	LABORATORY	Test Commenced on	16.03.2026
Sample Collected on	15.03.2026	Test Completed on	20.03.2026
Temperature	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	$\mu g/m^3$	50.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	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/2026/1237	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guidelines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1237	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	17.03.2026	Test Completed on	27.03.2026
Temperature	35°C	Relative Humidity	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	$\mu g/m^3$	60.8	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	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2026/1238	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1238	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	17.03.2026	Test Completed on	27.03.2026
Temperature	35°C	Relative Humidity	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	$\mu g/m^3$	54.5	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	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1239	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1239	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	18.03.2026	Test Completed on	27.03.2026
Temperature	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	$\mu g/m^3$	66.3	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	$\mu g/m^3$	7.5	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(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/2026/1240	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1240	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	18.03.2026	Test Completed on	27.03.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	63.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(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/2026/1241	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1241	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	19.03.2026	Test Completed on	27.03.2026
Temperature	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	$\mu g/m^3$	52.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1242	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1242	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	19.03.2026	Test Completed on	27.03.2026
Temperature	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	$\mu g/m^3$	47.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1243	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1243	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	20.03.2026	Test Completed on	27.03.2026
Temperature	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	$\mu g/m^3$	57.0	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	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1244	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1244	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	20.03.2026	Test Completed on	27.03.2026
Temperature	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	$\mu g/m^3$	55.0	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	$\mu g/m^3$	7.0	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(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/2026/1245	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1245	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	21.03.2026	Test Completed on	27.03.2026
Temperature	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	$\mu g/m^3$	44.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/1246	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1246	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	21.03.2026	Test Completed on	27.03.2026
Temperature	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	$\mu g/m^3$	52.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/1247	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1247	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	21.03.2026	Test Completed on	27.03.2026
Temperature	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	$\mu g/m^3$	51.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	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(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/2026/1248	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1248	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	22.03.2026	Test Completed on	27.03.2026
Temperature	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	$\mu g/m^3$	46.9	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	$\mu g/m^3$	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(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/2026/1249	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1249	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	22.03.2026	Test Completed on	27.03.2026
Temperature	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	$\mu g/m^3$	49.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1250	Report Date.	27.03.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1250	Sample Received on	23.03.2026
Sample Collected by	LABORATORY	Test Commenced on	23.03.2026
Sample Collected on	22.03.2026	Test Completed on	27.03.2026
Temperature	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	$\mu g/m^3$	48.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1327	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1327	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	24.03.2026	Test Completed on	03.04.2026
Temperature	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	$\mu g/m^3$	54.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/1328	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1328	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	24.03.2026	Test Completed on	03.04.2026
Temperature	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	$\mu g/m^3$	44.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	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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TEST REPORT

Report No.	SARL/2026/1329	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1329	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	24.03.2026	Test Completed on	03.04.2026
Temperature	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	$\mu g/m^3$	43.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	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/2026/1330	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1330	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	25.03.2026	Test Completed on	03.04.2026
Temperature	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	$\mu g/m^3$	45.7	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	$\mu g/m^3$	6.2	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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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/1331	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1331	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	25.03.2026	Test Completed on	03.04.2026
Temperature	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	$\mu g/m^3$	47.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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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Technical Manager

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TEST REPORT

Report No.	SARL/2026/1332	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1332	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	25.03.2026	Test Completed on	03.04.2026
Temperature	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	$\mu g/m^3$	46.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	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/2026/1333	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1333	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	26.03.2026	Test Completed on	03.04.2026
Temperature	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	$\mu g/m^3$	62.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.3	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	$\mu g/m^3$	13.6	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/2026/1334	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1334	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	26.03.2026	Test Completed on	03.04.2026
Temperature	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	$\mu g/m^3$	60.9	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	$\mu g/m^3$	7.9	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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TEST REPORT

Report No.	SARL/2026/1335	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1335	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	27.03.2026	Test Completed on	03.04.2026
Temperature	36°C	Relative Humidity	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	$\mu g/m^3$	58.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.2	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/2026/1336	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1336	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	27.03.2026	Test Completed on	03.04.2026
Temperature	36°C	Relative Humidity	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	$\mu g/m^3$	53.7	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	$\mu g/m^3$	6.8	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/2026/1337	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1337	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	28.03.2026	Test Completed on	03.04.2026
Temperature	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	$\mu g/m^3$	74.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	36.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.7	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/2026/1338	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1338	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	28.03.2026	Test Completed on	03.04.2026
Temperature	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	$\mu g/m^3$	53.7	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	$\mu g/m^3$	6.0	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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TEST REPORT

Report No.	SARL/2026/1339	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1339	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	29.03.2026	Test Completed on	03.04.2026
Temperature	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	$\mu g/m^3$	70.7	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	$\mu g/m^3$	8.0	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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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/2026/1340	Report Date.	03.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1340	Sample Received on	30.03.2026
Sample Collected by	LABORATORY	Test Commenced on	30.03.2026
Sample Collected on	29.03.2026	Test Completed on	03.04.2026
Temperature	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	$\mu g/m^3$	49.9	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	$\mu g/m^3$	6.6	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/2026/1417	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1417	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	31.03.2026	Test Completed on	10.04.2026
Temperature	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	$\mu g/m^3$	57.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1418	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1418	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	31.03.2026	Test Completed on	10.04.2026
Temperature	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	$\mu g/m^3$	60.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1419	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1419	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	01.04.2026	Test Completed on	10.04.2026
Temperature	35°C	Relative Humidity	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	$\mu g/m^3$	62.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1420	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1420	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	01.04.2026	Test Completed on	10.04.2026
Temperature	35°C	Relative Humidity	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	$\mu g/m^3$	28.3	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	$\mu g/m^3$	11.3	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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TEST REPORT

Report No.	SARL/2026/1421	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1421	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	02.04.2026	Test Completed on	10.04.2026
Temperature	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	$\mu g/m^3$	51.0	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	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1422	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1422	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	02.04.2026	Test Completed on	10.04.2026
Temperature	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	$\mu g/m^3$	48.8	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	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1423	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1423	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	03.04.2026	Test Completed on	10.04.2026
Temperature	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	$\mu g/m^3$	59.0	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	$\mu g/m^3$	7.3	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(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/2026/1424	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1424	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	03.04.2026	Test Completed on	10.04.2026
Temperature	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	$\mu g/m^3$	26.4	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	$\mu g/m^3$	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/1425	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1425	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	04.04.2026	Test Completed on	10.04.2026
Temperature	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	$\mu g/m^3$	42.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(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
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TEST REPORT

Report No.	SARL/2026/1426	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1426	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	04.04.2026	Test Completed on	10.04.2026
Temperature	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	$\mu g/m^3$	50.5	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	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(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/2026/1427	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1427	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	04.04.2026	Test Completed on	10.04.2026
Temperature	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	$\mu g/m^3$	49.5	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	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1428	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1428	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	05.04.2026	Test Completed on	10.04.2026
Temperature	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	$\mu g/m^3$	47.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	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(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/2026/1429	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1429	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	05.04.2026	Test Completed on	10.04.2026
Temperature	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	$\mu g/m^3$	45.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1430	Report Date.	10.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1430	Sample Received on	06.04.2026
Sample Collected by	LABORATORY	Test Commenced on	06.04.2026
Sample Collected on	05.04.2026	Test Completed on	10.04.2026
Temperature	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	$\mu g/m^3$	44.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1507	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1507	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	07.04.2026	Test Completed on	17.04.2026
Temperature	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	$\mu g/m^3$	43.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/1508	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1508	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	07.04.2026	Test Completed on	17.04.2026
Temperature	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	$\mu g/m^3$	43.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/1509	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1509	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	07.04.2026	Test Completed on	17.04.2026
Temperature	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	$\mu g/m^3$	42.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.8	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	$\mu g/m^3$	9.5	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/2026/1510	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1510	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	08.04.2026	Test Completed on	17.04.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/1511	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1511	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	08.04.2026	Test Completed on	17.04.2026
Temperature	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	$\mu g/m^3$	46.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	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/2026/1512	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1512	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	08.04.2026	Test Completed on	17.04.2026
Temperature	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	$\mu g/m^3$	45.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	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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TEST REPORT

Report No.	SARL/2026/1513	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1513	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	09.04.2026	Test Completed on	17.04.2026
Temperature	36°C	Relative Humidity	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	$\mu g/m^3$	69.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.7	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 (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/2026/1514	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1514	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	09.04.2026	Test Completed on	17.04.2026
Temperature	36°C	Relative Humidity	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	$\mu g/m^3$	64.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.8	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/2026/1515	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1515	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	10.04.2026	Test Completed on	17.04.2026
Temperature	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	$\mu g/m^3$	64.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.0	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/2026/1516	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1516	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	10.04.2026	Test Completed on	17.04.2026
Temperature	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	$\mu g/m^3$	59.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1517	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1517	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	11.04.2026	Test Completed on	17.04.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.1	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	$\mu g/m^3$	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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TEST REPORT

Report No.	SARL/2026/1518	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1518	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	11.04.2026	Test Completed on	17.04.2026
Temperature	36°C	Relative Humidity	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	$\mu g/m^3$	54.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/1519	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1519	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	12.04.2026	Test Completed on	17.04.2026
Temperature	36°C	Relative Humidity	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	$\mu g/m^3$	61.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/1520	Report Date.	17.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1520	Sample Received on	13.04.2026
Sample Collected by	LABORATORY	Test Commenced on	13.04.2026
Sample Collected on	12.04.2026	Test Completed on	17.04.2026
Temperature	36°C	Relative Humidity	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	$\mu g/m^3$	52.3	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	$\mu g/m^3$	7.4	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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Technical Manager

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TEST REPORT

Report No.	SARL/2026/1597	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1597	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	14.04.2026	Test Completed on	24.04.2026
Temperature	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	$\mu g/m^3$	68.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	33.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1598	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1598	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	14.04.2026	Test Completed on	24.04.2026
Temperature	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	$\mu g/m^3$	56.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	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(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/2026/1599	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1599	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	15.04.2026	Test Completed on	24.04.2026
Temperature	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	$\mu g/m^3$	73.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	35.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1600	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1600	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	15.04.2026	Test Completed on	24.04.2026
Temperature	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	$\mu g/m^3$	57.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1601	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1601	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	16.04.2026	Test Completed on	24.04.2026
Temperature	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	$\mu g/m^3$	60.1	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	$\mu g/m^3$	7.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1602	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1602	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	16.04.2026	Test Completed on	24.04.2026
Temperature	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	$\mu g/m^3$	49.4	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	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1603	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1603	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	17.04.2026	Test Completed on	24.04.2026
Temperature	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	$\mu g/m^3$	66.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	14.6	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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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/2026/1604	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1604	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	17.04.2026	Test Completed on	24.04.2026
Temperature	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	$\mu g/m^3$	56.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.2	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(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/2026/1605	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1605	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	18.04.2026	Test Completed on	24.04.2026
Temperature	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	$\mu g/m^3$	45.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1606	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1606	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	18.04.2026	Test Completed on	24.04.2026
Temperature	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	$\mu g/m^3$	51.3	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	$\mu g/m^3$	7.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1607	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1607	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	18.04.2026	Test Completed on	24.04.2026
Temperature	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	$\mu g/m^3$	23.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1608	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1608	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	19.04.2026	Test Completed on	24.04.2026
Temperature	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	$\mu g/m^3$	49.9	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	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1609	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1609	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	19.04.2026	Test Completed on	24.04.2026
Temperature	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	$\mu g/m^3$	48.5	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	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1610	Report Date.	24.04.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1610	Sample Received on	20.04.2026
Sample Collected by	LABORATORY	Test Commenced on	20.04.2026
Sample Collected on	19.04.2026	Test Completed on	24.04.2026
Temperature	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	$\mu g/m^3$	47.5	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	$\mu g/m^3$	5.9	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(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/2026/1687	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1687	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	21.04.2026	Test Completed on	01.05.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/1688	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1688	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	21.04.2026	Test Completed on	01.05.2026
Temperature	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	$\mu g/m^3$	44.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	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/2026/1689	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1689	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	21.04.2026	Test Completed on	01.05.2026
Temperature	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	$\mu g/m^3$	43.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	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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For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/2026/1690	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1690	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	22.04.2026	Test Completed on	01.05.2026
Temperature	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	$\mu g/m^3$	52.3	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	$\mu g/m^3$	7.4	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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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/1691	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1691	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	22.04.2026	Test Completed on	01.05.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/1692	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1692	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	22.04.2026	Test Completed on	01.05.2026
Temperature	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	$\mu g/m^3$	47.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	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/2026/1693	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1693	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	23.04.2026	Test Completed on	01.05.2026
Temperature	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	$\mu g/m^3$	54.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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/2026/1694	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1694	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	23.04.2026	Test Completed on	01.05.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	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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TEST REPORT

Report No.	SARL/2026/1695	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1695	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	24.04.2026	Test Completed on	01.05.2026
Temperature	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	$\mu g/m^3$	61.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.6	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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TEST REPORT

Report No.	SARL/2026/1696	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1696	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	24.04.2026	Test Completed on	01.05.2026
Temperature	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	$\mu g/m^3$	52.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1697	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1697	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	25.04.2026	Test Completed on	01.05.2026
Temperature	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	$\mu g/m^3$	59.0	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	$\mu g/m^3$	6.7	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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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/1698	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1698	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	25.04.2026	Test Completed on	01.05.2026
Temperature	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	$\mu g/m^3$	51.1	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	$\mu g/m^3$	7.2	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/2026/1699	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1699	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	26.04.2026	Test Completed on	01.05.2026
Temperature	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	$\mu g/m^3$	64.4	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	$\mu g/m^3$	7.4	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/2026/1700	Report Date.	01.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1700	Sample Received on	27.04.2026
Sample Collected by	LABORATORY	Test Commenced on	27.04.2026
Sample Collected on	26.04.2026	Test Completed on	01.05.2026
Temperature	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	$\mu g/m^3$	24.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.8	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/2026/1777	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1777	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	28.04.2026	Test Completed on	08.05.2026
Temperature	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	$\mu g/m^3$	69.8	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	$\mu g/m^3$	8.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1778	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1778	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	28.04.2026	Test Completed on	08.05.2026
Temperature	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	$\mu g/m^3$	51.0	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	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1779	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1779	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	29.04.2026	Test Completed on	08.05.2026
Temperature	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	$\mu g/m^3$	36.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1780	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1780	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	29.04.2026	Test Completed on	08.05.2026
Temperature	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	$\mu g/m^3$	51.5	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	$\mu g/m^3$	7.3	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(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/2026/1781	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1781	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	30.04.2026	Test Completed on	08.05.2026
Temperature	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	$\mu g/m^3$	53.4	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	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(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/2026/1782	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1782	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	30.04.2026	Test Completed on	08.05.2026
Temperature	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	$\mu g/m^3$	62.0	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	$\mu g/m^3$	8.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(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/2026/1783	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1783	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	01.05.2026	Test Completed on	08.05.2026
Temperature	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	$\mu g/m^3$	55.0	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	$\mu g/m^3$	6.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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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/2026/1784	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1784	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	01.05.2026	Test Completed on	08.05.2026
Temperature	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	$\mu g/m^3$	58.5	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	$\mu g/m^3$	12.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1785	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1785	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	02.05.2026	Test Completed on	08.05.2026
Temperature	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	$\mu g/m^3$	43.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1786	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1786	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	02.05.2026	Test Completed on	08.05.2026
Temperature	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	$\mu g/m^3$	53.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	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(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/2026/1787	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1787	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	02.05.2026	Test Completed on	08.05.2026
Temperature	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	$\mu g/m^3$	52.7	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	$\mu g/m^3$	7.3	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(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/2026/1788	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1788	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	03.05.2026	Test Completed on	08.05.2026
Temperature	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	$\mu g/m^3$	50.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(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/2026/1789	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1789	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	03.05.2026	Test Completed on	08.05.2026
Temperature	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	$\mu g/m^3$	50.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1790	Report Date.	08.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1790	Sample Received on	04.05.2026
Sample Collected by	LABORATORY	Test Commenced on	04.05.2026
Sample Collected on	03.05.2026	Test Completed on	08.05.2026
Temperature	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	$\mu g/m^3$	49.0	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	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(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/2026/1867	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1867	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	05.05.2026	Test Completed on	15.05.2026
Temperature	36°C	Relative Humidity	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	$\mu g/m^3$	55.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/1868	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1868	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	05.05.2026	Test Completed on	15.05.2026
Temperature	36°C	Relative Humidity	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	$\mu g/m^3$	46.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	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/2026/1869	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1869	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	05.05.2026	Test Completed on	15.05.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/1870	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1870	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	06.05.2026	Test Completed on	15.05.2026
Temperature	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	$\mu g/m^3$	51.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/1871	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1871	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	06.05.2026	Test Completed on	15.05.2026
Temperature	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	$\mu g/m^3$	47.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1872	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1872	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	06.05.2026	Test Completed on	15.05.2026
Temperature	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	$\mu g/m^3$	46.7	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	$\mu g/m^3$	5.7	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/2026/1873	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1873	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	07.05.2026	Test Completed on	15.05.2026
Temperature	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	$\mu g/m^3$	70.0	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	$\mu g/m^3$	9.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	15.5	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/2026/1874	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1874	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	07.05.2026	Test Completed on	15.05.2026
Temperature	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	$\mu g/m^3$	50.1	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	$\mu g/m^3$	6.3	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/2026/1875	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1875	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	08.05.2026	Test Completed on	15.05.2026
Temperature	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	$\mu g/m^3$	65.4	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	$\mu g/m^3$	8.2	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/2026/1876	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1876	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	08.05.2026	Test Completed on	15.05.2026
Temperature	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	$\mu g/m^3$	56.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	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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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/1877	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1877	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	09.05.2026	Test Completed on	15.05.2026
Temperature	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	$\mu g/m^3$	71.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	34.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.1	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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Technical Manager

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TEST REPORT

Report No.	SARL/2026/1878	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1878	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	09.05.2026	Test Completed on	15.05.2026
Temperature	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	$\mu g/m^3$	55.5	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	$\mu g/m^3$	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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Technical Manager

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TEST REPORT

Report No.	SARL/2026/1879	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1879	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	10.05.2026	Test Completed on	15.05.2026
Temperature	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	$\mu g/m^3$	59.9	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	$\mu g/m^3$	6.8	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/2026/1880	Report Date.	15.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1880	Sample Received on	11.05.2026
Sample Collected by	LABORATORY	Test Commenced on	11.05.2026
Sample Collected on	10.05.2026	Test Completed on	15.05.2026
Temperature	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	$\mu g/m^3$	49.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.0	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/2026/1957	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1957	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	12.05.2026	Test Completed on	22.05.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	63.5	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	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1958	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1958	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	12.05.2026	Test Completed on	22.05.2026
Temperature	35°C	Relative Humidity	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	$\mu g/m^3$	54.2	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	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1959	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1959	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	13.05.2026	Test Completed on	22.05.2026
Temperature	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	$\mu g/m^3$	58.1	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	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1960	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1960	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	13.05.2026	Test Completed on	22.05.2026
Temperature	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	$\mu g/m^3$	56.4	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	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1961	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1961	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	14.05.2026	Test Completed on	22.05.2026
Temperature	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	$\mu g/m^3$	24.3	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	$\mu g/m^3$	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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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/2026/1962	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1962	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	14.05.2026	Test Completed on	22.05.2026
Temperature	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	$\mu g/m^3$	50.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/1963	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1963	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	15.05.2026	Test Completed on	22.05.2026
Temperature	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	$\mu g/m^3$	56.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	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(DL-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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Technical Manager

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TEST REPORT

Report No.	SARL/2026/1964	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1964	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	15.05.2026	Test Completed on	22.05.2026
Temperature	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	$\mu g/m^3$	57.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.4	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(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/2026/1965	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1965	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	16.05.2026	Test Completed on	22.05.2026
Temperature	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	$\mu g/m^3$	46.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1966	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1966	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	16.05.2026	Test Completed on	22.05.2026
Temperature	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	$\mu g/m^3$	44.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	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(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/2026/1967	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1967	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	16.05.2026	Test Completed on	22.05.2026
Temperature	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	$\mu g/m^3$	43.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/2026/1968	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1968	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	17.05.2026	Test Completed on	22.05.2026
Temperature	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	$\mu g/m^3$	54.1	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	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/1969	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1969	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	17.05.2026	Test Completed on	22.05.2026
Temperature	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	$\mu g/m^3$	46.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	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(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/2026/1970	Report Date.	22.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1970	Sample Received on	18.05.2026
Sample Collected by	LABORATORY	Test Commenced on	18.05.2026
Sample Collected on	17.05.2026	Test Completed on	22.05.2026
Temperature	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	$\mu g/m^3$	45.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-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/2026/2047	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2047	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	19.05.2026	Test Completed on	29.05.2026
Temperature	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	$\mu g/m^3$	55.9	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	$\mu g/m^3$	8.2	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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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/2048	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2048	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	19.05.2026	Test Completed on	29.05.2026
Temperature	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	$\mu g/m^3$	52.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.3	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	$\mu g/m^3$	12.4	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/2026/2049	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2049	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	19.05.2026	Test Completed on	29.05.2026
Temperature	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	$\mu g/m^3$	51.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.7	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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Technical Manager

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TEST REPORT

Report No.	SARL/2026/2050	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2050	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	20.05.2026	Test Completed on	29.05.2026
Temperature	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	$\mu g/m^3$	51.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	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/2026/2051	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2051	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	20.05.2026	Test Completed on	29.05.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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/2026/2052	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2052	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	20.05.2026	Test Completed on	29.05.2026
Temperature	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	$\mu g/m^3$	47.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	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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TEST REPORT

Report No.	SARL/2026/2053	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2053	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	21.05.2026	Test Completed on	29.05.2026
Temperature	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	$\mu g/m^3$	67.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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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TEST REPORT

Report No.	SARL/2026/2054	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2054	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	21.05.2026	Test Completed on	29.05.2026
Temperature	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	$\mu g/m^3$	63.4	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	$\mu g/m^3$	8.4	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 (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/2026/2055	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2055	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	22.05.2026	Test Completed on	29.05.2026
Temperature	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	$\mu g/m^3$	29.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.8	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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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/2056	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-K. Paramathi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2056	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	22.05.2026	Test Completed on	29.05.2026
Temperature	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	$\mu g/m^3$	59.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.6	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/2026/2057	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2057	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	23.05.2026	Test Completed on	29.05.2026
Temperature	36°C	Relative Humidity	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	$\mu g/m^3$	77.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	37.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.7	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/2026/2058	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2058	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	23.05.2026	Test Completed on	29.05.2026
Temperature	36°C	Relative Humidity	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	$\mu g/m^3$	52.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	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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TEST REPORT

Report No.	SARL/2026/2059	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Project Site
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2059	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Temperature	36°C	Relative Humidity	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	$\mu g/m^3$	73.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	35.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.0	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/2026/2060	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2060	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Temperature	36°C	Relative Humidity	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	$\mu g/m^3$	55.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	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/2026/2152

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	WATER
Sample Mark	W1- Project Site

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2152	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.52	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	912.6	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	550	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	292	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	62.8	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	32.4	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	157	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	135	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	266	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	72.2	1000

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TEST REPORT

Report No.	SARL/2026/2152

Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	175	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.06	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	5.32	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.51	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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Technical Manager

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TEST REPORT

Report No.	SARL/2026/2153

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	WATER
Sample Mark	W2-Semandampalayam

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2153	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.61	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	980.6	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	590	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	414	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	92.8	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	43.7	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	232	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	182	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	330	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	198	1000

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TEST REPORT

Report No.	SARL/2026/2153

Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	43.2	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	2.55	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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J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

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Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
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TEST REPORT

Report No.	SARL/2026/2154

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	WATER
Sample Mark	W3-Thennillai East

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2154	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.21	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	642.3	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	386	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	225	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	32.24	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	34.7	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	80.6	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	144	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	274	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	120	1000

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TEST REPORT

Report No.	SARL/2026/2154

Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	34.6	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.03	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	1.72	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.34	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/2155

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	WATER
Sample Mark	W4-K. Paramathi

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2155	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.74	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	890.5	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	535	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	301	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	70	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	30.2	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	175	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	126	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	320	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	141	1000

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TEST REPORT

Report No.	SARL/2026/2155

Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	35.6	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.05	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	1.95	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.44	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/2026/2156

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	WATER
Sample Mark	W5- Velliyampalayam

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2156	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.87	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	532.6	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	322	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	167	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	39.0	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	16.7	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	97.5	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	69.5	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	260	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	56.2	1000

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TEST REPORT

Report No.	SARL/2026/2156

Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	24.6	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL (D.L - 0.01)	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	BDL (D.L - 1.0)	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	BDL (D.L - 0.1)	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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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/2157

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	WATER
Sample Mark	W6-Kattumunnur

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2157	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.34	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	975.2	-
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	390	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	94.4	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	37.0	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	236	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	154	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	295	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	190	1000

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TEST REPORT

Report No.	SARL/2026/2157

Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	50.3	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	2.36	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.47	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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TEST REPORT

Report No.	SARL/2026/2158	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	WATER
Sample Mark	W7-Nadanthai

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2158	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.55	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	420.6	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	254	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	156	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	36.16	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	15.7	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	90.4	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	65.6	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	236	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	40.3	1000

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TEST REPORT

Report No.	SARL/2026/2158

Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	13.9	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL (D.L - 0.01)	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	BDL (D.L - 1.0)	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	BDL (D.L - 0.1)	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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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/2159	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	SOIL
Sample Mark	S1- Project Site

Customer Reference	By Mail	Sampling Procedure	EPA/600/R-92/128
Sample Reference No	SARL/SO/CHE-2159	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.52
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	52.4
3	Dry matter content	IS 15106: 2002	%	97.45
4	Water Content	IS 15106: 2002	%	2.55
5	Organic Matter	IS 2720: Part 22: 1972	%	0.68
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	132
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	%	29.81
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	34.26
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	35.93
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.86
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	490
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	756
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	%	18.9
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	38.0

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/2026/2160

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	SOIL
Sample Mark	S2-Semandampalayam

Customer Reference	By Mail	Sampling Procedure	EPA/600/R-92/128
Sample Reference No	SARL/SO/CHE-2160	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.45
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	36.9
3	Dry matter content	IS 15106: 2002	%	97.25
4	Water Content	IS 15106: 2002	%	2.75
5	Organic Matter	IS 2720: Part 22: 1972	%	1.11
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	190
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	%	31.69
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	39.54
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	28.77
9	Phosphorus as P	IS 10158: 1982	mg/kg	2.11
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	496
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	840
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	%	19.4
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	35.0

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/2026/2161	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	SOIL
Sample Mark	S3-Thennillai East

Customer Reference	By Mail	Sampling Procedure	EPA/600/R-92/128
Sample Reference No	SARL/SO/CHE-2161	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.84
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	75.6
3	Dry matter content	IS 15106: 2002	%	95.66
4	Water Content	IS 15106: 2002	%	4.34
5	Organic Matter	IS 2720: Part 22: 1972	%	0.74
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	116
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silt Loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	21.55
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	52.55
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	25.9
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.42
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	336
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	673
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	%	18.6
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	38.0

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/2026/2162	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	SOIL
Sample Mark	S4-K. Paramathi

Customer Reference	By Mail	Sampling Procedure	EPA/600/R-92/128
Sample Reference No	SARL/SO/CHE-2162	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.32
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	120.2
3	Dry matter content	IS 15106: 2002	%	95.68
4	Water Content	IS 15106: 2002	%	4.32
5	Organic Matter	IS 2720: Part 22: 1972	%	2.11
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	715
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silt Loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	40.32
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	55.74
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	3.94
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.55
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	245
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	786
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	%	18.2
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	40.0

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/2026/2163	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	SOIL
Sample Mark	S5- Velliyampalayam

Customer Reference	By Mail	Sampling Procedure	EPA/600/R-92/128
Sample Reference No	SARL/SO/CHE-2163	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.11
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	113.5
3	Dry matter content	IS 15106: 2002	%	96.32
4	Water Content	IS 15106: 2002	%	3.68
5	Organic Matter	IS 2720: Part 22: 1972	%	2.36
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	580
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silt Loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	36.11
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	54.63
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	9.26
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.69
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	256
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	690
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	%	19.6
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	38.0

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/2026/2164	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	SOIL
Sample Mark	S6-Kattumunnur

Customer Reference	By Mail	Sampling Procedure	EPA/600/R-92/128
Sample Reference No	SARL/SO/CHE-2164	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.96
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	94.6
3	Dry matter content	IS 15106: 2002	%	96.55
4	Water Content	IS 15106: 2002	%	3.45
5	Organic Matter	IS 2720: Part 22: 1972	%	1.86
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	699
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silt Loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	36.89
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	52.74
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	10.37
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.21
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	212
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	656
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	%	18.2
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	38.0

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/2026/2165	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	SOIL
Sample Mark	S7-Nadanthai

Customer Reference	By Mail	Sampling Procedure	EPA/600/R-92/128
Sample Reference No	SARL/SO/CHE-2165	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.44
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	76.59
3	Dry matter content	IS 15106: 2002	%	94.78
4	Water Content	IS 15106: 2002	%	5.22
5	Organic Matter	IS 2720: Part 22: 1972	%	0.72
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	236
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silt Loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	21.56
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	52.66
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	25.78
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.45
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	346
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	672
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	%	18.4
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	36.0

BDL – Below Detectable limit (DL - Detectable limit).

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/2026/2166	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	WATER
Sample Mark	SW1-Noyyal River - Upstream

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/SW/CHE-2166	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result
A.	**Physical parameters**			
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	2.5
3	pH at 25 °C	APHA 24th Edition 4500 – H+ B: 2023	-	7.64
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1410
B.	**Chemical parameters**			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	846
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	312
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	73.6
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	30.72
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	184
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	128
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	252
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	262

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TEST REPORT

Report No.	SARL/2026/2166	Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	120
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.09
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	3.72
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	Biochemical 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	14
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

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/2026/2167	Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	WATER
Sample Mark	SW2-Noyyal River – Downstream

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/SW/CHE-2167	Sample Received on	25.05.2026
Sample Collected by	LABORATORY	Test Commenced on	25.05.2026
Sample Collected on	24.05.2026	Test Completed on	29.05.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result
A.	**Physical parameters**			
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	5.2
3	pH at 25 °C	APHA 24th Edition 4500 – H+ B: 2023	-	7.89
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1840
B.	**Chemical parameters**			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1108
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	426
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	92.4
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	46.8
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	231
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	195
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	410
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	326

Shrient Analytical and Research Labs Pvt. Ltd

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Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
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TEST REPORT

Report No.	SARL/2026/2167	Report Date.	29.05.2026

Sl. No.	Parameters	Protocol	Unit	Result
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	196
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.16
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	4.86
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.65
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	Biochemical 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	5.7

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

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

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TEST REPORT

Report No.	SARL/2026/2168

Report Date.	29.05.2026

Customer Name & Address	Rough stone & Gravel Quarry of Tmt.M.Raziya, Extent of 1.66.0 Ha at S.F.No. 85/2, Nadanthai North Village, Aravakurichi Taluk, Karur District, Tamil Nadu
Sample Description	NOISE LEVEL DATA

Customer Reference	By Mail	Sampling Method	SARL/IOP/023
Sample Reference No	SARL/N/CHE-2168	Date of Monitoring	24.05.2026
Sample Collected by	LABORATORY		

Time in hrs	N1	N2	N3	N4	N5	N6	N7
06.00	44.6	42.0	43.3	41.4	46.8	46.4	41.4
07.00	52.3	52.8	51.2	47.7	50.3	51.2	47.7
08.00	53.4	47.2	49.3	44.9	48.6	49.4	44.7
09.00	52.2	46.0	49.7	47.1	53.2	48.7	47.1
10.00	52.7	45.7	48.6	45.9	49.7	47.9	45.9
11.00	51.3	44.2	47.3	43.1	48.4	48.4	43.1
12.00	47.1	41.3	45.8	44.8	47.3	45.0	44.8
13.00	46.7	43.6	47.8	44.4	52.6	45.3	44.4
14.00	49.6	45.2	53.4	46.0	47.7	45.0	46.0
15.00	52.8	43.3	47.2	50.7	53.8	47.7	50.6
16.00	53.7	44.7	49.3	42.8	51.1	49.4	42.8
17.00	53.3	46.6	48.9	40.9	50.2	48.7	40.9
18.00	48.9	44.7	50.1	46.6	50.9	49.9	46.6
19.00	43.7	41.6	51.6	49.1	50.4	51.8	49.1
20.00	41.0	42.3	46.2	47.0	45.6	46.4	47.0
21.00	37.3	37.1	46.7	45.1	42.8	46.7	45.1
22.00	39.0	38.8	50.6	43.9	36.8	48.2	43.9
23.00	40.6	39.2	43.4	41.3	36.9	40.0	41.3
24.00	38.8	38.7	42.2	40.6	36.7	41.3	40.6
01.00	38.9	38.4	38.0	39.4	37.3	40.3	39.4
02.00	38.1	41.1	40.4	38.3	38.8	39.6	38.3
03.00	40.4	39.0	37.3	37.8	38.1	37.8	37.8
04.00	40.0	37.6	36.6	38.6	39.8	38.9	38.6
05.00	41.3	42.0	40.7	40.9	42.3	40.2	40.9

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TEST REPORT

Report No.	SARL/2026/2168

Report Date.	29.05.2026

	N1	N2	N3	N4	N5	N6	N7
DAY EQUIVALENT	**50.6**	**45.7**	**49.2**	**46.2**	**50.1**	**48.5**	**46.2**
NIGHT EQUIVALENT	**39.8**	**39.6**	**43.8**	**40.5**	**38.8**	**42.2**	**40.5**
DAY & NIGHT EQUIVALENT	**49.0**	**44.4**	**48.0**	**45.0**	**48.5**	**47.2**	**45.0**

Remarks:

LOCATIONS:

N1- Project Site
N2-Semandampalayam
N3-Thennillai East
N4-K. Paramathi
N5- Velliyampalayam
N6-Kattumunnur
N7-Nadanthai

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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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

அனுப்புதல் : தலைமை ஆசிரியர்,
ஊராட்சி ஒன்றிய தொடக்கப்பள்ளி,
க.பரமத்தி,
கரூர் - மாவட்டம் - 639111

பெறுதல் : திருமதி ரஷியா.P
க/பெ முஹம்மது
SF.NO : 85 / 2 நல்லிபாளையம்,
நடந்தை வடக்கு கிராமம்,
அரவக்குறிச்சி - தாலுக்கா
கரூர் - மாவட்டம் - 639111

பொருள் : பள்ளி கட்டமைப்பு மேம்பாட்டு வசதி வேண்டி விண்ணப்பம் - சார்பு

ஐயா,

நமது பள்ளிக்கு பொருட்கள் பாதுகாப்பு அறை ஒன்றும் குழந்தைகள் அமர்ந்து உணவு உண்ண உணவுக்கூடம் ஒன்றும் அமைத்துக்கொடுக்கும்படி அன்புடன் கேட்டுக்கொள்கிறேன்.

இப்படிக்கு

11.03.2026.
தலைமை ஆசிரியர்,
ஊ. ஒ. தொ. பள்ளி,
க. பரமத்தி - 639 111
கரூர் மாவட்டம்

இடம் : க.பரமத்தி

நாள் : 11.03.2026

நகல் : 1. க.பரமத்தி வட்டாரக் கல்வி அலுவலர் அவர்களுக்கு பணிந்து சமர்ப்பிக்கப்படுகிறது.

2. க.பரமத்தி வட்டார வளர்ச்சி அலுவலர் அவர்களுக்கு பணிந்து சமர்ப்பிக்கப்படுகிறது.