DRAFT EIA & EMP FOR
PROPOSED ROUGH STONE & GRAVEL QUARRY
CATEGORY B1 - CLUSTER (CLUSTER AREA – 6.13.65 Ha.)

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

ToR Identification No. TO26B0108TN5944134N (F. No. 13506), Dated: 13.04.2026

PROPOSED QUARRY LEASE DETAILS	
SURVEY NOS	**127/2(P), 127/4A(P), 127/7A(P) & 127/8A(P)**
VILLAGE	**ATHIPALAYAM**
TALUK	**PUGALUR**
DISTRICT	**KARUR**
EXTENT	**1.19.25 Ha**
CLUSTER EXTENT	**6.13.65**
PROPOSED PRODUCTION FOR 5 Years	**95,750 m^3 OF ROUGH STONE AND 10,440 m^3 OF GRAVEL**
LAND	**PATTA LAND**

(Sector No. 1(a) Sector No.1 as per NABET)
Category of the Project: B1 Cluster Mining, Total Cluster Area – 6.13.65 Ha
Baseline Monitoring Period – December 2025 to February 2026

APPLICANT

THIRU.K.NAGARAJ,

S/O.KUMAR,

NO.12/1A, PORKODI COMPOUND, PUTHUKADU 2ND STREET,

TIRUPPUR T.C. MARKET, TIRUPPUR -641604**.**

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

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 Thiru. Thiru.k.Nagaraj, Lessee for the confidence and trust placed on the organization for carrying out Environmental Impact Assessment (EIA) study for the proposed Rough Stone and Gravel quarry over a lease extent of 1.19.25 Ha., & Cluster extent of 6.13.65 Ha., located at Athipalayam Village, Pugalur 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 Athipalayam Village and the nearby villages for their whole hearted cooperation and constant involvement during the entire field study without which the study would not have been possible.

For: M/s. Global Mining Solutions



(M. Prabu)

Managing Director

UNDERTAKING

In line with MoEFCC OM No. J – 11013/41/2006-IA.II (I) dated 5th October 2011, we hereby give our undertaking for owning the content and information in the EIA/EMP report submitted for EC of the proposed Rough Stone and Gravel quarry over a lease extent of 1.19.25 Ha., & Cluster extent of 6.13.65 Ha located at Athipalayam Village, Pugalur 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. TO26B0108TN5944134N (F.No. 13506), dated 13.04.2026 of Draft EIA/EMP report for the proposed Stone and Gravel Quarry over a lease extent of 1.19.25 Ha., & Cluster extent of 6.13.65 Ha., located at Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State for the production of 2,63,312.50Ts/95,750m3 of Rough Stone & 20,880Ts /10440 m3 of Gravel from the proposed lease area and the details has been complied in the Draft EIA/EMP report is factually correct.

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

For: M/s. Global Mining Solutions



Name: M.Manikandan

EIA Coordinator – Mining

भारतीय गुणवत्ता परिषद्
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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 X), for the preparation of EIA/EMP reports in the sectors listed below, as per the specified categories*

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

Note: Names of approved experts and sectors are mentioned in RAAC minutes dated February 05, 2026, posted on QCI-NABET website.

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

Valid up to
January 03, 2029

Issue Date
February 16, 2026

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

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

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

DECLARATION BY EXPERTS

Declaration by Experts contributing to the proposed Rough Stone and Gravel Quarry over a lease extent of 1.19.25 Ha. & Cluster extent of 6.13.65 Ha located at Athipalayam Village, Pugalur 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

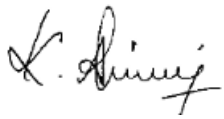
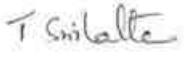


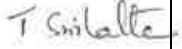
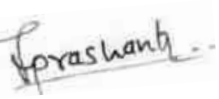
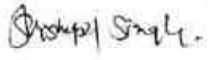
Signature & Date

Period of involvement: December 2025 to February 2026.

Contact information:

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

S. No.	*Functional areas*	*Name of the expert/s*	*Involvement (period and task**)*	*Signature and Date*
1	*AP*	*Dhanalakshmi Ramanathan*	*Assessment of existing air quality, Impact of the project on ambient air and suggested mitigation measures for air pollution.* *Period: December 2025 to February 2026.*	
2	*WP*	*Abirami Kaliaperumal*	*Assessment of existing water quality, impact of the project on surface and ground water quality, suggested mitigation measures for minimizing the impact.* *Period: December 2025 to February 2026.*	
3	*SHW*	*Ramadoss N*	*Assessment of waste generated from the project, suggested waste management practices.* *Period: December 2025 to February 2026.*	
4	*SE*	*Sarasvathy K*	*Baseline SE studies. Data compilation and assessment. Impact of the project on SE status of the area. Formulation of CER plan.* *Period: December 2025 to February 2026.*	
5	*EB*	*Saravanan S*	*Baseline data collection of related to ecology of the area.* *Period: December 2025 to February 2026.*	
6	*HG*	*Ravinthiran N*	*Hydrogeological feature of the area. Ground water depth and impact of project on ground water of the area.* *Period: December 2025 to February 2026.*	
7	*AQ*	*Srilatha Thiruveedhula*	*Air quality modeling utilizing the area source model. Predication of the ground level concentration of the dust. Suggesting suitable mitigation measures.*	

			Period: December 2025 to February 2026.	
8	*NV*	*Dhanalakshmi Ramanathan*	*Ambient noise study of the area. Incremental noise generation due to quarry operation and impact of the noise due to the project.* *Period: December 2025 to February 2026.*	
9	*LU*	*Srilatha Thiruveedhula*	*Preparation of land use map based on satellite imagery. Land use classification and analysis. Impact prediction of the project on the surrounding land environment.* *Period: December 2025 to February 2026.*	
10	*RH*	*S.V. Prashant*	*Identification of the Risk related to the mining activities. Preparation of emergency disaster management plan. Plan for supply of safety equipment for the worker.* *Period: December 2025 to February 2026.*	
11	*SC*	*Shisupal Sing*	*Soil monitoring, secondary data collection on soil type, soil management practices, utilization of topsoil.* *Period: December 2025 to February 2026.*	
12	*GEO*	*Valliappan Meyyappan*	*Geological map, stability of quarry and dump, management plan for mine stability, after use of mining quarry and geological feature of the area.* *Period: December 2025 to February 2026.*	

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COMPLIANCE TO TERMS OF REFERENCE

S.No	TOR Points	Reply	Page No
SEAC Conditions - Site Specific			
1	The PP shall mark the DGPS reference pillars and shall also erect fencing all around the boundary of the proposed area with gates for entry/exit and shall furnish the latest photographic/videographic proof showing the same during EIA appraisal.	Agreed.	-
2	A Cluster Management Committee (CMC) shall be constituted including all the mines in the cluster as Committee Members for the effective management of the mining operation in the cluster through systematic & scientific approach with appointment of statutory personnel, appropriate environmental monitoring, good maintenance of haul roads and village/panchayat roads, authorized blasting operation etc. The PP shall submit the following details in the form of an Affidavit during the EIA appraisal: (i) Copy of the agreement forming CMC. (ii) The Organization chart of the Committee with defining the role of the members (iii) The 'Standard Operating Procedures' (SoP) executing the planned activities.	A cluster management committee including all the proponents of the rough stone quarrying projects within the cluster of 500 m radius will be constituted for the effective implementation of appropriate environmental management plan. Affidavit in this regard will be submitted during final EIA/EMP Report.	-
3	The Geo referenced Boundary pillars to be erected on the field as per the	Agreed. Boundary Pillars will be laid in the project premises and photographic	-

	mine rules and the evidence should be submitted along with the EIA report.	proof of the same will be given in the EIA Report.	
4	The details of enumeration of structures including schools, colleges, primary health centres should be submitted along with the EIA report.	There are no School, College and health centers within 500 m radius from the proposed project site.	**-**
5	The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300m & 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.	A Site survey will be conducted to identify and list structures located within a 500 m radius from the proposed Quarry and structures located within 500 m radius and the details are elaborated in the EIA Report.	**-**
6	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 0.37.35 Ha will be under greenbelt and plantation.	**-**
7	The Proponent shall carry out Bio diversity study as a part of EIA study and the same shall be included in the Report.	The bio diversity study will be carried out by our FAE is given in section 3.10 of Chapter 3.	**131**
8	The PP shall prepare the EMP for the entire life of mine and also furnish the	The affidavit for EMP will be furnished during the final EIA report.	**-**

	sworn affidavit stating to abide the EMP for the entire life of mine.		
9	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.	Cumulative impact study due to mining operations in cluster are given in Section 7.4 of Chapter 7. Anticipated impacts and its mitigation measures for various attributes are detailed in Chapter 4.	**196 & 157**
10	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	The conceptual action plan is detailed in chapter 2.	**91**
11	The PP shall install the CCTV camera for the continuous surveillance of mining activity & furnish the photographic/ videographic evidence along with the EIA report.	Agreed, we will install the CCTV camera for the continuous surveillance of mining activity & furnish the photographic / videographic evidence along with the Final EIA report.	**-**
SEAC Conditions - Standard			
1	In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following: (i) Original pit dimension (ii) Quantity achieved Vs EC Approved Quantity (iii) Balance Quantity as per Mineable Reserve calculated. (iv) Mined out Depth as on date Vs EC Permitted depth (v) Details of illegal/illicit mining (vi) Violation in the	Not Applicable This is a proposed new project. No mining has been carried out in this lease area so far.	-

	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.	VAO certificate regarding the location of habitations within 300 m radius from the periphery of the site is attached as Annexure. There are no approved Structures within 300 m Radius.	-
3	The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (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.	A Site survey will be conducted to identify and list structures located within a 500 m radius from the Proposed Quarry and structures located within 500 m radius are given in the EIA Report.	-
4	The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc located within 1 km of the proposed quarry.	A detailed hydro-geological report of the proposed project will be incorporated in the Final EIA/EMP Report.	149

5	The Proponent shall carry out Bio diversity study through Department of Ecology and Environmental Sciences. Pondicherry University and the same shall be included in EIA Report.	The bio diversity study will be carried out by our FAE is given in section 3.10 of Chapter 3. Study report through reputed institute will be incorporated in the final EIA / EMP report.	131
6	The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.	There are no Reserved Forest / Wild Life Sanctuary within a radius of 10 Km. the R.F in the buffer zone (10 km radius) are detailed below. Nil within a 10Km radius. Arachalur R.F. – 28.24 km (NW)	-
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.	Not Applicable It is fresh quarry lease applied area.	-

8	However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.	Slope stability study through reputed institute will be conducted once the depth reaches 25 m.	-
9	The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.	Affidavit for blasting operation will be incorporated in the Final EIA/EMP report.	-
10	The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.	Controlled blasting techniques using delay detonators and optimum charge per delay will be implemented in this quarry. The details on blasting parameters are given in section 2.9.2 of Chapter 2.	88
11	The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.	Prior to this project, the PP had not carried out any quarrying operations.	-
12	If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines.	Not Applicable It is fresh quarry lease applied area.	-

13	What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?		
14	Quantity of minerals mined out. · Highest production achieved in any one year · Detail of approved depth of mining. · Actual depth of the mining achieved earlier. · Name of the person already mined in that leases area. · If EC and CTO already obtained, the copy of the same shall be submitted. · Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.		
15	All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).	Project coordinates superimposed in satellite imagery and topo map given as Figure No – 3.2 and Figure 3.3. Geology and Geomorphology map are provided in Figure No – 3.24 and Figure No – 3.25, Chapter 3.	106 & 110 152 & 153
16	The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc.,	It will be complied after commencement of the mining operation.	-
17	The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the	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	-

	adjacent quarries & water bodies nearby provided as per the approved mining plan.	aesthetic in the safety zone area. In the post mining stage, an area of 0.37.35 Ha will be under greenbelt and plantation.	
18	The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same.	Geological reserves – 3,57,600 m3 of Rough Stone and 23,840 m3 of Gravel and Mineable Reserves is estimated at 95,750 m3 of Rough Stone and 10,440 m3 of Gravel. The proposed production of rough stone is estimated as 95,750 m3 and Gravel is 10,440 m3 of Gravel for Five years. Methodology and Justification are presented in chapter 2. The anticipated impact and its mitigation measures are detailed in Chapter 4.	71 & 157
19	The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.	Complied. Please refer figure 10.1 of Chapter 10.	204
20	The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface	Hydro-geological study report will be incorporated in the Final EIA / EMP report.	149

	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.	The baseline data were collected (December 2025 to February 2026) for the environmental components including land, soil, water, air, noise, biology, socio-economy, and the results have been discussed in Chapter 3.	112
22	The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.	Detailed cumulative impact study has been carried and the same is incorporated in the Chapter 7. Accordingly, a detailed Environment Management Plan is prepared considering air, water, noise and soil environment and the details are given in Chapter 10.	190 204
23	Rain water harvesting management with recharging details along with	Runoff water during rainy season will be collected in the bottom quarry through	159

	water balance (both monsoon & non-monsoon) be submitted.	proper drainage pattern and the collected water will be used for plantation and dust suppression during dry season. Rain water harvesting Plan is given in section 4.3.2 of chapter 4. The water balance is given in chapter 4.	
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.	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 has been discussed in Section 3.10 of Chapter 3. The land use plan of the project area showing per-operational, operational and post-operational phases are discussed in section 2.4 of Chapter 2.	137 & 79
25	Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.	As per the mining plan, there is no overburden anticipated during the entire Rough Stone quarrying operation. The excavated rough stone will be directly loaded into a tipper to the needy crusher/other buyers. Top soil will be preserved in the safety zone and utilized for plantation purpose.	-
26	Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the	Not applicable. The project is not located in any of the said areas mentioned in the condition.	-

	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.	Rain water falling in the quarry will be harvested in the sump at the lowest level of the quarry. This sump will act as a settling pond to prevent solids escaping along with discharge, before outlet. etc. Towards surface runoff management, a garland drain will be constructed around the quarry and will be connected to a settling pond with silt traps. The supernatant clear water from the settling pond will be flow to the downstream users. Rain water harvesting plan is given in section 4.3.2 of Chapter 4.	159
28	Impact on local transport infrastructure due to the Project should be indicated.	There is no significant impact on the local traffic due to the proposed project. The traffic density study is given in Chapter 2, Sec 2.11.6.	92
29	A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.	Flora species within 300 m radius is given in section 3.10.	131
30	A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.	Detailed Mine Closure plan is given in Chapter 2, sec 2.8.	80

31	As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.	Accepted. It will be done.	-
32	The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.	The Greenbelt plan is detailed in Chapter 4, Sec 4.4.	164
33	Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.	Accepted. Green belt development work is in progress. Proof photographs on green belt will be incorporated in the Final EIA / EMP report.	-

34	A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.	A disaster management plan is prepared and details are given in Chapter 7, Sec 7.3.	194
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.	A Risk Assessment and management Plan is prepared and given in Chapter 7, Sec 7.2.	190
36	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.	Anticipated Occupational Health impacts of the project is given detailed in Chapter 4. Sec 4.7.4.	179
37	Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.	No major impact on public health will be there since the villages are located more than 1km from the lease area. Details of CER are discussed under Chapter No. 8	202
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	Detailed Socio-Economic study is carried out and it is given in Chapter 3, Sec 3.12.	145

	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.	There is no litigation pending against the project.	-
40	Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.	The project benefits are given in Chapter 8.	202
41	If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.	Not Applicable It is fresh quarry lease applied area	-
42	The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.	Affidavit for considering EMP for the entire life will be incorporated in the Final EIA/ EMP Report.	-
43	Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of	Noted and agreed.	-

	Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.		
SEIAA Specific Conditions			
1	The Authority accepts the recommendation of SEAC and decided to grant 1.1 Terms of Reference (ToR) along with Public Hearing for the quantity 95,750m3 of Rough Stone & 10,440m3 of Gravel up to a depth of 32m BGL and annual peak production shall not exceed 20,170m3 of Rough Stone & 6,048m3 of Gravel as per the approved mining plan, under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions & SEIAA Specific & Standard conditions.	Agreed	
SEIAA Standard Conditions			
Cluster Management Committee			
1	Cluster Management Committee shall be framed which must include all the proponents in the cluster as members including the existing as well as proposed quarry.	There are two existing quarries and this proposed quarry within a 500-metre radius. The proponent will take the initiative to form a cluster management committee once environmental clearance is obtained for this quarry.	-
2	The members must coordinate among themselves for the effective implementation of EMP as committed	Agreed and will be complied.	-

	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.	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 one quarry proposed in the cluster area.	-
5	The committee shall deliberate on risk management plan pertaining to the cluster in a holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan.	Risk management plan for the individual quarry is given in this report. As far as cluster working condition is concerned, once the committee is formed, risk management as a cluster including inundation of clusters and the evacuation plan will be elaborated.	-
6	The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the environmental policy devised shall be given in detail.	Environmental policy for the cluster will be framed by the cluster management committee and the policy will be in accordance with EPA Act, 1986 and its amendments, guidelines by MoEFCC/ SEIAA and other regulatory bodies. This policy will be displayed in the quarry.	-
7	The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry	Agreed. It will be complied as mentioned in the Point No.4	-

	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.	Agreed. It will be complied as mentioned in the Point No.4	-
Agriculture & Agrobiodiversity			
9	Impacts on surrounding agricultural fields around the proposed mining Area.	There are no Agriculture, forest area and traditional practices within the project area. However, there are some agricultural lands around the project site. It may be affected due to the quarry operation as such dust particles sedimentation in the agricultural land. It will be controlled at the source level by proper dust suppression as such wet drilling, controlled blasting and water sprinkling on the project roads and project surrounding roads. As per Air Quality Modelling, the impact of the air quality limited to 400m radius. So, there is no impact for the Agriculture, Forestry & Traditional practices located within 10km radius.	-
10	impacts on soil flora & vegetation around the project site.	The chemical and physical characteristics of the soil is given in Chapter 3. The anticipated impact and its mitigation measures for soil environment and biological environment are detailed in section 4.4 of Chapter 4 respectively.	101 157

11	Details of type of vegetations including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetations all along the boundary of the proposed mining area shall committed mentioned in EMP.	The details on flora have been provided in Section 3.10 under Chapter 3. There is no schedule I species of animals observed within study area as per Wildlife Protection Act, 1972 and no species falls in vulnerable, endangered or threatened category as per IUCN. There is no endangered red list species found in the study area.	131
12	The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.	The ecological details have been provided in Section 3.10 under Chapter 3 and measures have been provided in Section 4.4 under Chapter 4.	131 & 164
13	Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.	All the essential environmental protective measures will be followed by the proponent to manage the surrounding environment and restore the ecosystem, as discussed in Chapter 4.	157
14	The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.	The impact of project on the land environment has been discussed in Section 4.2 under Chapter 4.	158
Forests			
15	The project proponent shall detailed study on impact of mining on Reserve forests free ranging wildlife	There are no Reserved Forest / Wild Life Sanctuary within a radius of 10 Km. the R.F in buffer zone Nil within a 10Km radius, but Arachalur R.F. is in 28.24 km (NW). The anticipated impact and its mitigation measures for biological environment are detailed in section 4.4	164

		of Chapter 4. The project proponent shall do barbed wire fencing work and develop a green belt around the lease area to prevent wildlife from entering the site.	
16	The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.	The impacts of the project on ecology and biodiversity have been discussed in Section 4.4 under Chapter 4.	164
17	The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.	Not Applicable.	-
18	The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.	There are no Reserved Forest / Wild Life Sanctuary within a radius of 10 Km. The R.F in buffer zone: Nil within a 10Km radius, but Arachalur R.F. is in 28.24 km (NW). Vellode Bird Sanctuary – 36.58 km (NW). Impact and its mitigation measures are detailed in Chapter 4.	-
Water Environment			
19	Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within I km (radius)	A detailed hydrogeological report will be included in the final EIA/EMP report.	-

	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.	There is no waste generation (OB) in this quarry has been envisaged. However, there may be erosion due the rainy season and that is limited within quarry area. Gravel will be preserved in safety zone and utilized for plantation purpose. The control measures are explained in Chapter 4.	-
21	Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas	Complied. The study details are incorporated in Chapter 3. Anticipated impacts and its mitigation measures are detailed in Chapter 4.	101 & 157
22	The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.	There is no wastewater generation from this Quarry, so this is not applicable.	-
23	The project proponent shall study and furnish the details on potential fragmentation impact on natural environment by the activities.	Fragmentation impact on the environment may be due to drilling. The anticipated impacts and mitigation measures are discussed in Chapter 4.	157
24	The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape,	The Flora and Fauna study covering 10 km radius are detailed in section 3.10 of chapter 3.	101

	damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts	The impacts anticipated with respect to the environment of the project area is very negligible and it will be minimized within the project area. Greenbelt / Plantation will be carried out to enhance the vegetative growth and aesthetic in the safety zone area.	
25	The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.	The impact of mining on soil environment has been discussed in Section 4.2 under Chapter 4.	158
26	The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.	The anticipated impact and its mitigation measures for Water Environment are detailed in section 4.3.2 of Chapter 4.	159
27	The EIA shall include the impact of mining activity on the following: a) Hydrothermal/Geothermal effect due to destruction in the Environment. b) Bio-geochemical processes and its foot prints including Environmental stress. c) Sediment geochemistry in the surface streams.	The proposed quarry operation is Opencast method of semi mechanized mining with 5.0m height 5m width the bench. So, the effect of Hydrothermal/Geothermal is not envisaged.	-
Energy			
28	The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilize the Energy shall be furnished.	The measures taken to control noise, air, water, and dust have been given under Chapter 4.	157
Climate Change			
29	The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the	This proposed quarry will adopt Opencast method of semi mechanized of mining with less equipment.	-

	measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities.	However, only the best equipment will be used, and it will be properly and regularly maintained. Regular vehicular emission tests will be conducted on the transport vehicles to ensure minimal carbon emissions. To further reduce carbon emissions, a good greenbelt plan has been planned.	
30	The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock, soil health and physical, chemical & biological soil features.		
31	Impact of mining on pollution leading to GHGs emissions and the impact of the same on the local livelihood.		
Mine Closure Plan			
32	Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued.	Detailed mine closure plan is given in section 2.10 of Chapter 2.	91
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.	204
34	The Environmental Impact Assessment should hold detailed study on EMP with budget for Greenbelt development and mine closure plan including disaster management plan.	Total EMP Cost for 5 years is 19.96 lakhs i.e., Rs.9.90 Lakhs of Capital Cost+ Rs.10.06 Lakhs of Recurring Cost (For 5 Years) have been allocated under the EMP budget. The breakup of the same is given in Table 10.2 of Chapter 10.	204

Risk Assessment			
35	To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.	Risk assessment and Management plan are detailed in section 7.2, chapter 7.	190
Disaster Management Plan			
36	To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid,/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities covering the entire mine lease period as per precise area communication order issued.	Disaster Management plan are detailed in section 7.3, Chapter 7.	194
Others			
37	The project Proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc.	There are no historical places, schools, cemeteries, temples, bird sanctuaries, and wildlife sanctuaries within 300 meters of the proposed project area. In this regard, the project proponent has received an official letter from the Village Administrative Officer, the letter copy enclosed as Annexure.	-
38	As per the MoEFCC office memorandum F.No.z2-6512017-tA.III dated: 30.09.2020 and 20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities	The concerns raised during the public consultation and all the activities proposed will be updated in the final EIA report.	-

	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.	Complied. We have framed detail solid waste management system for the project are and the same will be executed by proper awareness and sign boards. The sign boards will be in two language i.e., Vernacular language (Tamil) and common language (English). The plastic waste generation is very negligible and it will be collected from the source level in specific dustbin and disposed through the municipal bins.	-
C. Standard ToR			
1	Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force. w.r.t. the highest production achieved prior to 1994.	Not applicable.	-
2	A copy of the document in support of the fact that the proponent is the rightful lessee of the mine should be given.	It is a patta land registered in the name of Thiru.Kannappan, Tmt.Pushpavalli and Thiru.Thirumalairaj vide patta no. 7253, the applicant has obtained consent from the pattadar.	-
3	All documents including approved mine plan, EIA and public Hearing should be compatible with one another	Noted & agreed. All documents including approved mine plan, EIA and Public Hearing are compatible with one	-

	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.	another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and is in the name of the lessee.	
4	All comer coordinates of the mine lease area, superimposed on a High - Resolution Imagery/ topo sheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).	Project area is superimposed on Satellite imagery is enclosed in Figure No. 3.17. Project area boundary coordinates superimposed on Toposheet & Surface Features around the project area covering 10km radius. Geology map of the project area covering 10km radius. Geomorphology Map of the Study Area covering 10 km radius of section 3.13.3 in Chapter 3.	149
5	Information should be provided in Survey of India Topo sheet in l:50,000 scare indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.	The following map in 1:50,000 Scale: Geology map of the project area covering 10km radius. Geomorphology Map of the Study Area covering 10 km radius of section 3.13.3 in Chapter 3.	149
6	Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.	The proposed mining area is Patta land. The Precise Area Communication letter and approved Mining Plan have been obtained from the competent authority and are enclosed as Annexure–2 and Annexure–3 respectively. The proposed mining activity conforms to the prevailing land use regulations and applicable State land use policies.	-

7	It should be clearly stated whether the proponent company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be 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.	The proposed quarry is small scale magnitude operation and controlled by the lessee individually by engaging optimum statutory personals. Based on the magnitude of the operation, the PP has framed Environmental Policy and the same is incorporated in section 10.1.4 of Chapter 10. The Mines Manager will undertake effective monitoring and implementation of various environmental control measures promptly and effectively and to oversee various environmental management schemes for air quality control, water quality status, noise level control, plantation program, social development schemes, etc in the mine. The organizational chart for the same has been provided in Figure No.10.1, Chapter-10.	204
8	Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.	Various risks likely to arise due to mining activities are detailed under section 7.2, Chapter-7. This being an opencast mine, subsidence is not applicable. The impact due to ground vibrations due to blasting is given in para 4.7.2, Chapter-4.	190 & 179
9	The study area will comprise of l0 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc.	Noted & Agreed The study area considered for this study is 10 km radius and all data contained in the EIA report such as waste	-

	should be for the life of the mine / lease period.	generation etc., is 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.	Satellite imagery has been used to study land use and the details of land use in the core and buffer zone is given in figure 3.1 of Chapter 3.	106
11	Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.	There is no waste generation anticipated in this quarry operation since the entire excavated material will be utilized. Hence, there is no external overburden dump involved.	-
12	Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable	There is no Forest Land involved in the proposed project area. The proposed project area is a Consent Patta land. Approved Mining Plan is enclosed in Annexure – 2.	-

	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.	Not Applicable. The proposed project area does not involve any Forest Land.	-
14	Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act,2006 should be indicated.	Not Applicable. The project doesn't attract Recognition of Forest Rights Act, 2006.	-
15	The vegetation in the RF / PF areas in the study area, with necessary details, should be given.	Nil within a 10Km radius. Arachalur R.F. – 28.24 km (NW) The impact and its mitigation measures for biological environment are detailed in chapter 4.	-
16	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.	The mining lease area and the 10 km buffer zone from the periphery of the core zone is devoid of declared ecologically sensitive features like national parks, biospheres, sanctuaries, etc.	-
17	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/	Not Applicable. There are No National Parks, Biosphere Reserves, Wildlife Corridors, and Tiger/Elephant Reserves	-

	Elephant Reserves/(existing as well as proposed), if any, within l0 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.	within 10 km Radius from the periphery of the project area.	
18	A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present' In case of any scheduled fauna found in the study area. the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.	Flora and fauna composition in the core and buffer zone of the project has been studied through primary field surveys. The details are furnished in section 3.10 of Chapter 3.	131

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.	Not Applicable	-
20	Similarly, for coastal projects, a CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease with respect to CRZ, Coastal features such as mangroves, if any, should be furnished. (Note: The Mining projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).	Not Applicable	-
21	R&R Plan/compensation details for the project Affected people (PAP) should be furnished. While preparing the R&R Plan, the relevant State/ National Rehabilitation & Resettlement policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their	The mining activities will be carried out within the mine lease area only. The entire mine lease area of 1.19.25 Ha is a Consent Patta Land. There is no population within the ML area. Hence, the question of R& R does not arise.	-

	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 of2009, water quality, noise revel, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical	Baseline Data were collected for One Season (December 2025 to February 2026) as per CPCB Notification and MoEFCC Guidelines and Detailed in Chapter - 3.	112

	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.	Modelling is done using AERMOD and the projected values are found to be within the norms. Hence, there is no major impact due to this mining project. The cumulative impact of mining is also studied and the same is found to be within norms. The details are given in section 4.5.6 of Chapter 4 and Chapter 7.	165 & 190
24	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.	The entire water requirement for the project is 3 KLD which will be sourced from outside agencies. The water balance diagram is shown in Chapter 4	157
25	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.	Not Applicable. The required water will be outsourced from the nearby village.	-
26	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.	Details of the water conservation plan are given in chapter 10. Rainwater harvesting plan are detailed in section 4.3.2 of Chapter 4.	159

<table>
<tr><td>27</td><td>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.</td><td>Impact Studies and Mitigation Measures of Water Environment including Surface Water and Ground Water are discussed in Section 4.3.2</td><td>159</td></tr>
<tr><td>28</td><td>Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-ali4 shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.</td><td>The quarrying activity will not intersect ground water table as quarrying is proposed upto a depth of 32 m Below Ground Level and water table is found at a depth of 78 m BGL.</td><td>-</td></tr>
<tr><td>29</td><td>Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.</td><td>Not Applicable
No stream passing through the mine lease area.</td><td>-</td></tr>
<tr><td>30</td><td>Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.</td><td><table><tr><td>Altitude of the area</td><td>172 m from MSL</td></tr><tr><td>Ultimate Depth</td><td>32 m BGL</td></tr><tr><td>Ground water</td><td>78 m BGL.</td></tr></table></td><td>-</td></tr>
</table>

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.	Greenbelt Development Plan & Recommended Species proposed for Greenbelt Development are detailed in Section 4.4. 0.37.35 hectares of land are allotted for greenbelt development.	164
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	The Traffic density survey was carried out to analyse the impact of transportation in the study area as per IRC guidelines 1961 and it is inferred that there is no significant impact due to the proposed transportation from the project area.	-

	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.	Temporary Infrastructure & other facilities will be provided to the Mine Workers after the grant of quarry lease and the same has been discussed in Section 2.11.5 of Chapter 2.	92
34	Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.	At the conceptual stage the quarried-out land will be fenced and lower benches will be allowed to collect rain water to act as a temporary reservoir and Greenbelt development will be carried out on the top bench, unutilized areas and haul roads. Mine closure plan is detailed in Section 2.10 of Chapter 2.	91
35	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.	Details of occupational health and safety aspects are given under the Section 4.7.4 & Section 10.4.	179 & 204
36	Public health implications of the Project and related activities for the population in the impact zone should	No major impact on public health will be there since the villages are located more than 1km from the lease area.	-

	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.	This project provides employment to 25 Nos. Local people will be hired for unskilled labour. Through CSR, nearby schools, hospitals will be benefitted. For CSR, INR 3.0 Lakh is allocated. Based on the demand of the people during public hearing, further funds will be allocated, if necessary.	-
38	Detailed Environmental Management Plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.	Environmental Management plan details are given in Chapter 10.	204
39	Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.	During public hearing process, the opinions and demands of the people will be noted. The replies and commitment made by the proponent along with time bound action plan wherever applicable will be provided in Final EIA/EMP report.	-
40	Details of litigation pending against the project, if any, with direction /order paced by any Court of Law against the Project should be given.	There is no litigation pending against the project.	-
41	The cost of the Project (capital cost and recurring cost) as well as the cost	Project Cost is Rs. 84.60 Lakhs CER Cost is Rs. 3.0 lakhs	-

	towards implementation of EMP should be clearly spelt out.	EMP Cost: Total EMP Cost for 5 years is 19.96 lakhs i.e., Rs.9.90 Lakhs of Capital Cost+ Rs.10.06 Lakhs of Recurring Cost (For 5 Years)	
42	A Disaster management Plan shall be prepared and included in the EIA/EMP Report.	Disaster management plan are provided under section 7.3 of Chapter-7.	194
43	Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.	Detailed in Chapter 8.	202
44	Besides the above, the below mentioned general points are also to be followed.		
A	Executive Summary of the EIA/EMP Report		
B	All documents to be properly referenced with index and continuous page numbering.	Yes, Complied.	-
C	Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.	Yes, Complied.	-
D	Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/ NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.	Yes, Complied.	-
E	Where the documents provided are in a language other than English, an English translation should be provided.	Yes, Complied.	-

F	The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.	Yes, Complied.	-
G	While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J- l 1013/41/2006-IA.11 0) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.	Noted & agreed	-
H	Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the ToR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the pH again with the revised documentation.	Yes, Complied.	-
I	As per the circular no. J-11011/1618/2010-IA.ll (l) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the Environment Clearance the existing operations of the project, should be obtained from	Yes, Complied.	-

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

CHAPTER 1

INTRODUCTION

1.1 PURPOSE OF THE REPORT

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

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

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

Thiru.k.Nagaraj proposes to operate Rough Stone and Gravel Quarry over an extent of 1.19.25 Ha Consent Patta Land in S.F.No. 127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) in Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State and ToR obtained vide ToR Identification No. TO26B0108TN5944134N, Dated: 13.04.2026.

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

Table 1.1 – Details of Quarries within 500m Radius

S.No	Name of the Quarry Owner	S.F. Nos & Village	Lease Status	Area in Ha
a. Existing Quarries:				
1.	Thiru.K. Manisekaran S/o. Krishnasamy No.10/1 Ram Nagar Gandhigramam south Karur Taluk & District	S.F.Nos. 140/1(P), 140/2A(P),140/3A(P), 141/1A (P), 141/2A(P), 141/3A(P) Athipalayam Village, Pugalur Taluk	Lease Period – 01.02.2023 to 31.01.2028	1.69.40
2.	Thiru.T.S.P. Kannappan, VN Puthur, Athipalayam P.O, Pugalur Taluk, Karur District	S.F.Nos.127/3C(P), 127/5(P),127/6(P),127/9(P),130/A,130/B Athipalayam Village, Pugalur Taluk	Lease Period – 11.09.2023 to 10.09.2028	3.25.00
b. Abandoned/Expired Quarry - Nil				
c. Present Proposed Quarry				
1.	Thiru.k.Nagaraj, S/o.Kumar, No.12/1A, Porkodi Compound, Puthukadu 2nd Street, Tiruppur T.C. Market, Tiruppur Disrict.	S.F.Nos. 127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) Athipalayam Village, Pugalur Taluk	Applied Area (Rough Stone)	1.19.25
Total Area of Cluster		**6.13.65 Ha**		

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

As per MoEFCC OM: F.No. L-11011/175/2018-IA-II(M), dated 12.12.2018, the EIA/EMP report has to be prepared for the cluster area based on ToR recommended by SEIAA. Therefore, the applicant applied for ToR through Parivesh website vide online proposal no. SIA/TN/MIN/571189/2026, Dated 04/03/2026. The ToR proposal was placed in 697th SEAC meeting, dt 26.03.2026 and 990th SEIAA meeting, dated 07.04.2026. Then ToR has been issued by the SEIAA vide ToR Identification No. TO26B0108TN5944134N, Dated: 13.04.2026 to prepare the draft EIA report as per the recommended ToR for conducting Public hearing and obtaining Environmental Clearance from the SEIAA.

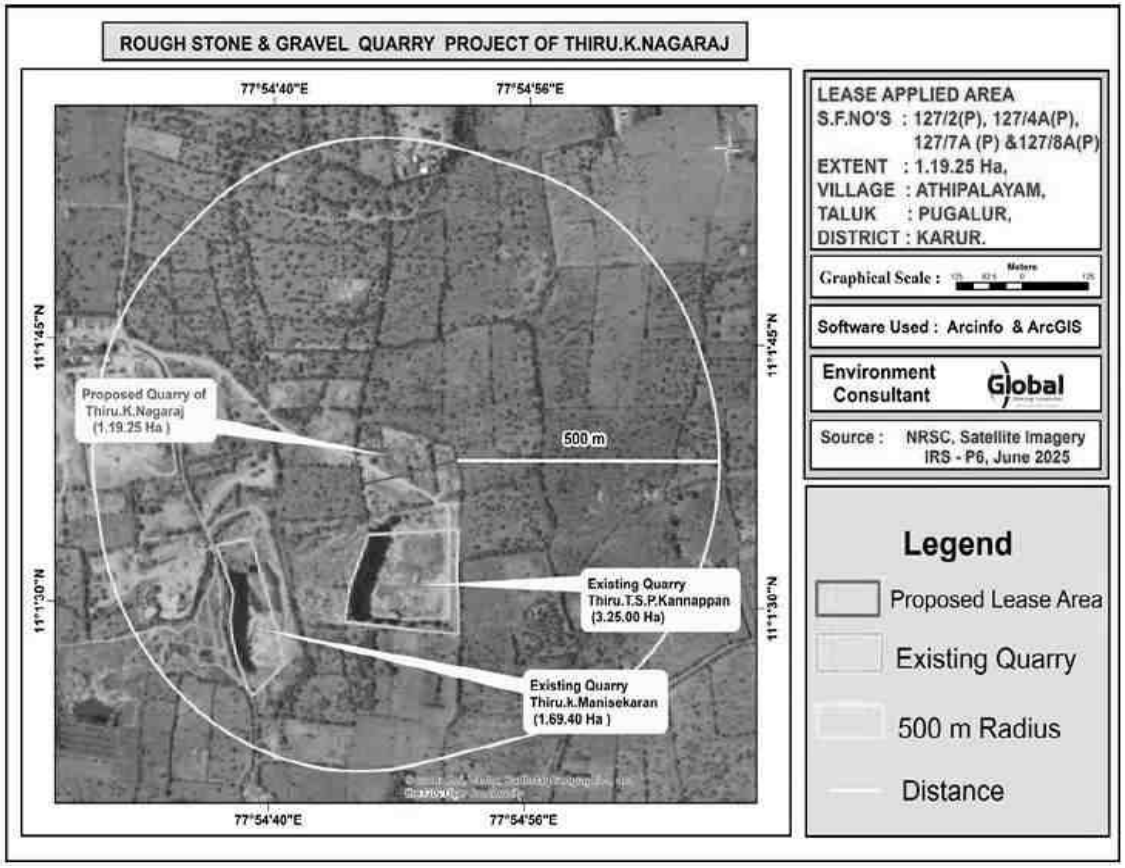


Figure.1.1 Satellite Image showing cluster quarries

1.2 IDENTIFICATION OF PROJECT AND PROJECT PROPONENT

1.2.1 IDENTIFICATION OF PROJECT

Table -1.2 Project Identification

Name of the Project	Rough Stone and Gravel Quarry of Thiru. K. Nagaraj
S.F No.	127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P)
Location of the Project	Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Extent	1.19.25 Ha
Type of Land	Consent Patta Land

1.2.2 IDENTIFICATION OF PROJECT PROPONENT

Table -1.3- Details of Project Proponent

Name of the Project Proponent	Thiru.K.Nagaraj
Communication address	Thiru.K.Nagaraj, S/o.Kumar, No.12/1A, Porkodi Compound, Puthukadu 2nd Street, Tiruppur T.C. Market, Tiruppur -641604.
Mobile No.	96553 85490

1.3 BRIEF DESCRIPTION OF THE PROJECT

1.3.1 NATURE AND SIZE OF THE PROJECT

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

Table – 1.4 Brief Descriptions of the Project

Name of the Quarry	Rough Stone and Gravel Quarry of Thiru. K. Nagaraj
Toposheet No	58 E/16
Latitude	11°01'36.76"N to 11°01'40.32"N
Longitude	77°54'45.61"E to 77°54'51.99"E
Altitude of the area	172 m (MSL)
Proposed depth of mining (for five years)	32m (Below Ground Level)
Geological Resources	3,57,600 m3 of Rough Stone and 23,840 m3 of Gravel
Mineable Reserves	95,750 m3 of Rough Stone and 10,440 m3 of Gravel
Proposed production quantity for five years (32 m below ground level)	95,750 m3 of Rough Stone and 10,440 m3 of Gravel for Five years
Ultimate Pit Depth	170m (L) x 47m (W) x 32m (Below Ground Level)
Water Level in the area	78 m BGL
Method of Mining	Opencast Mechanized Mining Method with Drilling and Blasting

Topography	The area applied for quarry lease is exhibits almost plain covered by gravel formation. The massive Charnockite formation is noticed below 2 m Gravel Formation and sloping towards southeastern side of the area, the altitude of the area is above 172m (maximum) from MSL.	
Machinery Proposed	Jack Hammer – 32 mm Dia	2 Nos
	Compressor	1 No
	Excavator – 0.9 Cu.m	1 No
	Tipper (10/20Ts)	3 Nos
Environmental Setting within 500m Radius	1. Seasonal odai – 50m (NW) 2. Seasonal odai – 50m (S) 3. Seasonal odai – 160m (E) 4. Noyyal River – 1.49km (NW) 5. Kaveri River – 4.91km (N)	
Details of Habitation	Athipalayam Village – 799m (N)	
Proposed Manpower Development	25 Nos.	
Water Requirement & Source	The water requirement for drinking & domestic – 1.0 KLD, dust suppression – 1.0 KLD and green belt – 1.0 KLD is about 3.0 KLD of water is required. The required water will be procured from outside agencies.	
Greenbelt Development	The safety zone of 0.37.35 Ha will be developed with about 373 Nos. of plantation.	
Fuel Requirement	78,340 (L) (Entire Project Life)	
Project Cost	Rs. 84.60 Lakhs (Including operational + Fixed Asset + EMP cost + CER cost).	
EMP Cost	Total EMP Cost for 5 years is 19.96 lakhs i.e., Rs.9.90 Lakhs of Capital Cost+ Rs.10.06 Lakhs of Recurring Cost (For 5 Years)	
CER Cost	Rs. 3.0 Lakhs	
Applicability of CRZ Clearance	Not Applicable	

1.3.2 NATURE OF THE PROJECT

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

1.3.3 LOCATION OF PROJECT

The proposed Quarry lease area is situated at S.F.No. 127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) over an extent of 1.19.25 Ha., in Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State. The area lies in the northern Latitude: 11°01'36.76"N to 11°01'40.32"N eastern Longitude: 77°54'45.61"E to 77°54'51.99"E. Location of the proposed project is shown in Figure 2.1 and the satellite imagery of the project site is shown in Fig 2.2. The details of Environmental Sensitivity within 1km radius are shown below:

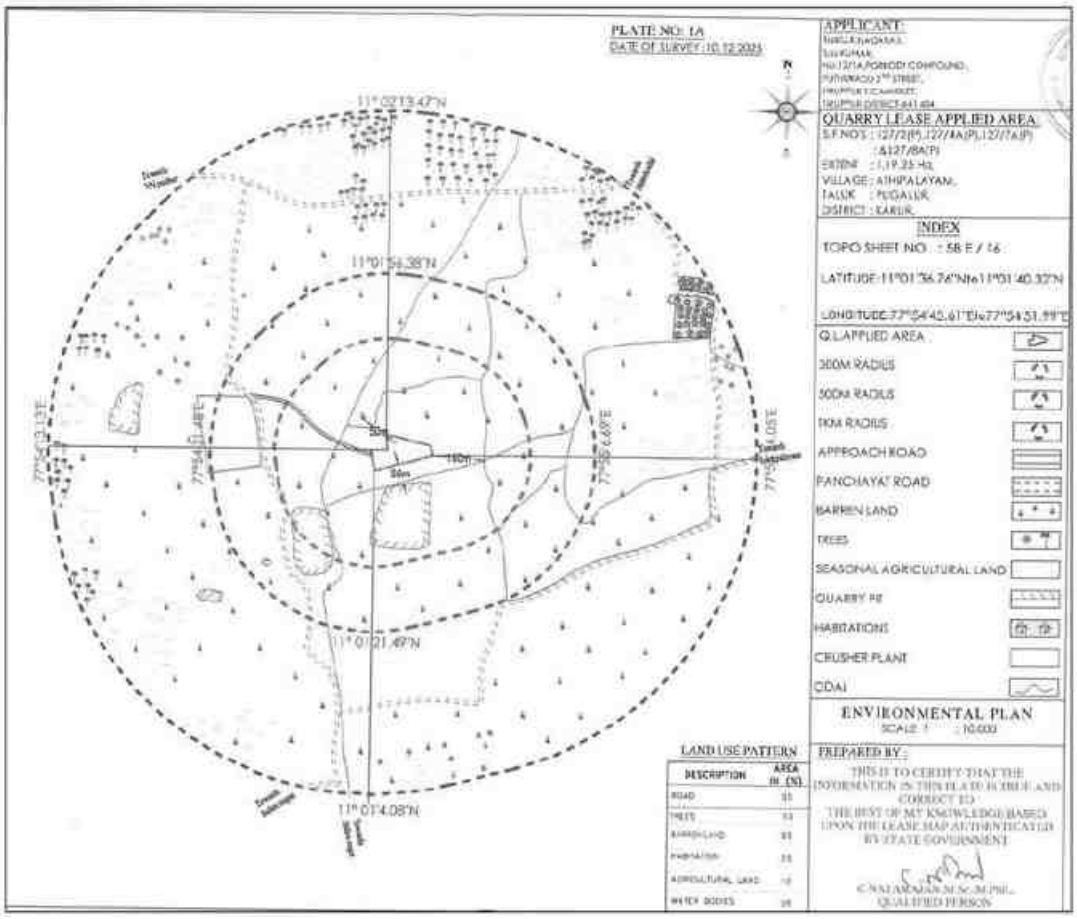


Figure 1.2 – Environmental Settings Map

1.4 IMPORTANCE OF THE PROJECT TO THE REGION

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

1.5 REGULATORY COMPLIANCES

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

- Environment protection Act, 1986
- EIA Notification, 2006 & Subsequent amendments
- Water Pollution (Prevention & Control) Act, 1974
- Air Pollution (Prevention & Control) Act, 1981
- Noise Pollution (Regulation 7 Control) Rules, 2000
- Mines Act,1952
- Tamil Nadu Minor Mineral Concession Rules, 1959
- Mines and Minerals (development and regulation) Act,1957
- Minor Minerals Conservation and Development Amendment Rules 2018
- State Minor Mineral Concession Rules (GMMCR), 2017
- Explosive Act ,1884
- Explosive Rules,2008
- Hazardous and other Wastes (management and Transboundry Movement) Rules, 2016
- Batteries (Management and Handling) Rules 2010
- Solid Waste Management Rule 2016

1.5.1 PRESENT LEGAL STATUS

Table 1.5 – Present Legal Status

Description	Issuing Authority	Status	Letter number	Reference
Precise Area Communication	Assistant Director, Department of Geology and Mining, Karur	Received	Rc.No.170/ Kanimam/ 2024 dated 09.12.2025	Annexure - 1
Mine Plan Approval Letter	Assistant Director, Department of Geology and Mining, Karur	Approved	Rc.No.170/ Kanimam/ 2024 dated 02.01.2026	Annexure-2
500m radius Cluster Letter	Assistant Director, Department of Geology and Mining, Karur	Obtained	Rc.No.170/ Kanimam/ 2024 dated 02.01.2026	Annexure-3
VAO NOC for features within 300m radius	VAO, Athipalayam	Obtained	-	Annexure-4

1.5.2 SCREENING

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

1.5.3 SCOPING

The proposal was placed in the 697th meeting of SEAC-II held on 26.03.2026. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Terms of Reference (ToR) to SEIAA and SEIAA recommended ToR in its 990th meeting held on 07.04.2026.

1.5.4 SCOPE OF THE STUDY

In line with the prescribed Terms of Reference (TOR), the area comprising 10 km radius around the proposed mine lease boundary is considered as the study area. The EIA/EMP report has been prepared following the generic structure specified in the EIA Notification 2006. The detailed studies have been conducted as per prescribed Standard TOR issued by SEIAA, Tamil Nadu vide ToR Identification No. TO26B0108TN5944134N, dated: 13.04.2026. The point wise compliance for the ToR has been incorporated in this EIA/EMP report.

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

model and all other aspects of pollution like effluent discharge, Dust generation etc., have been discussed in this report. The baseline monitoring study has been carried out during the Period of December 2025 – February 2026 for various environmental components so as to assess the anticipated impacts due the cluster quarry projects on the environment and suggest suitable mitigation measures for likely adverse impacts due to this proposed project.

The scope of study broadly covered as below,

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

1.6 NEED AND JUSTIFICATION OF THE PROJECT

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

1.7 STRUCTURE OF THE REPORT

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

1. Introduction

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

2. Project Description

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

3. Description of the Environment

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

4. Anticipated Environmental Impacts & Mitigation Measures

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

5. Analysis of Alternatives (Site and Technology)

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

6. Environmental Monitoring Program

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

7. Additional Studies

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

8. Project Benefits

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

9. Environmental Cost Benefit Analysis

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

10. Environmental Management Plan

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

11. Summary and Conclusion

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

12. Disclosure of Consultant Engaged

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

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CHAPTER 2

PROJECT DESCRIPTION

2.1 TYPE OF THE PROJECT

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

This project proposed to produce 95,750 m3 of Rough Stone and 10,440 m3 of Gravel for the period of 5 years with ultimate depth up to 32 m below ground level.

2.2 NEED FOR THE PROJECT

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

2.3 LOCATION OF THE PROJECT

This is a Rough Stone and Gravel Quarry located in Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State. The area lies in the north latitude of 11°01'36.76"N to 11°01'40.32"N and eastern longitude of 77°54'45.61"E to 77°54'51.99"E and toposheet number 58 E/16. Location of the proposed project is shown in Figure 2.1 the satellite imagery of the project site is shown in Figure 2.2.

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

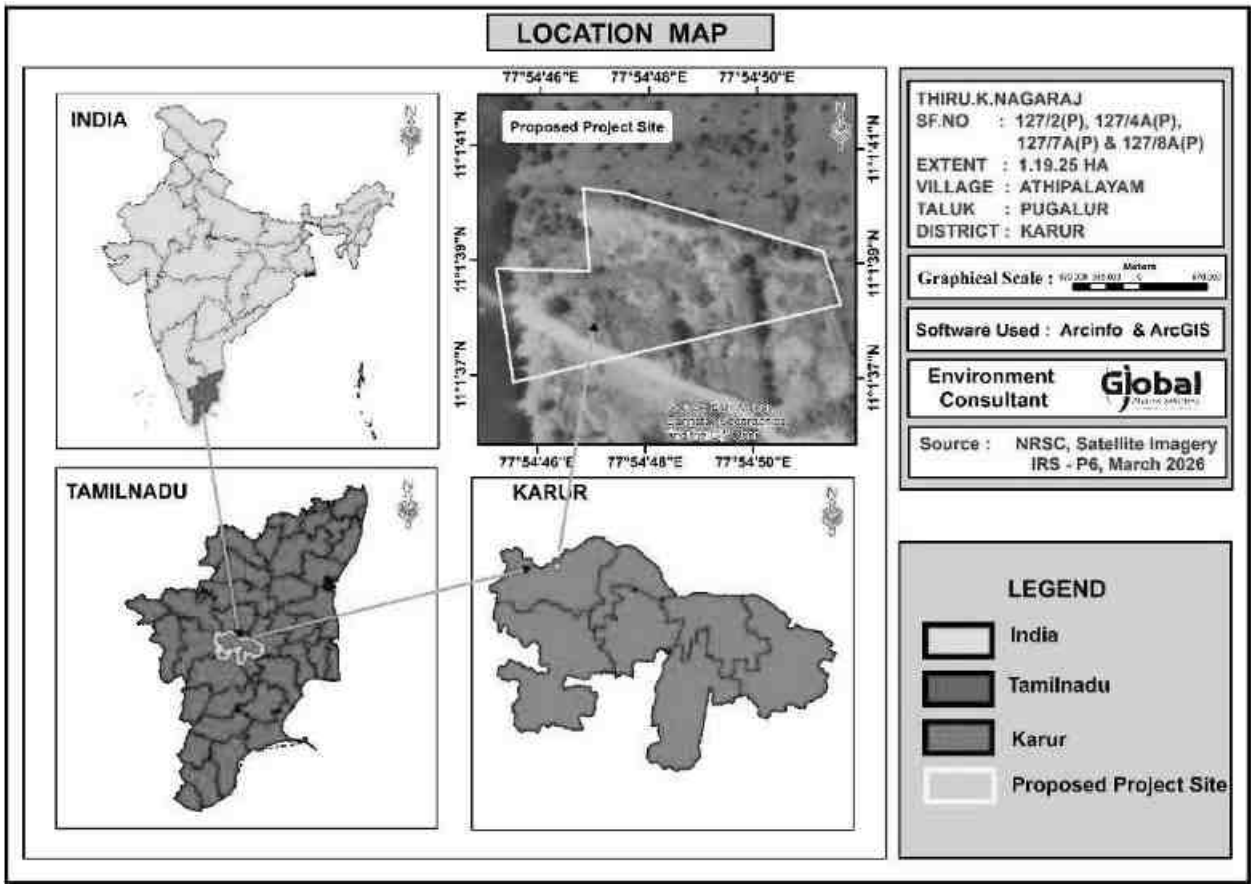


Figure 2.1 Location Map

Table 2.1 Boundary Coordinates of the Project Site

Corners	Co- ordinates		Distance between the corners
	Latitude	Longitude	
1	11° 01' 36.76"N	77° 54' 45.94"E	1-2 = 61.8m
2	11° 01' 38.74"N	77° 54' 45.62"E	2-3 = 2.8m
3	11° 01' 38.84"N	77° 54' 45.61"E	3-4 = 52.0m
4	11° 01' 38.80"N	77° 54' 47.33"E	4-5 = 46.8m
5	11° 01' 40.32"N	77° 54' 47.19"E	5-6 = 24.2m
6	11° 01' 40.23"N	77° 54' 47.98"E	6-7 = 116.0m
7	11° 01' 39.21"N	77° 54' 51.66"E	7-8 = 31.6m
8	11° 01' 38.24"N	77° 54' 51.99"E	8-1 = 189.6m

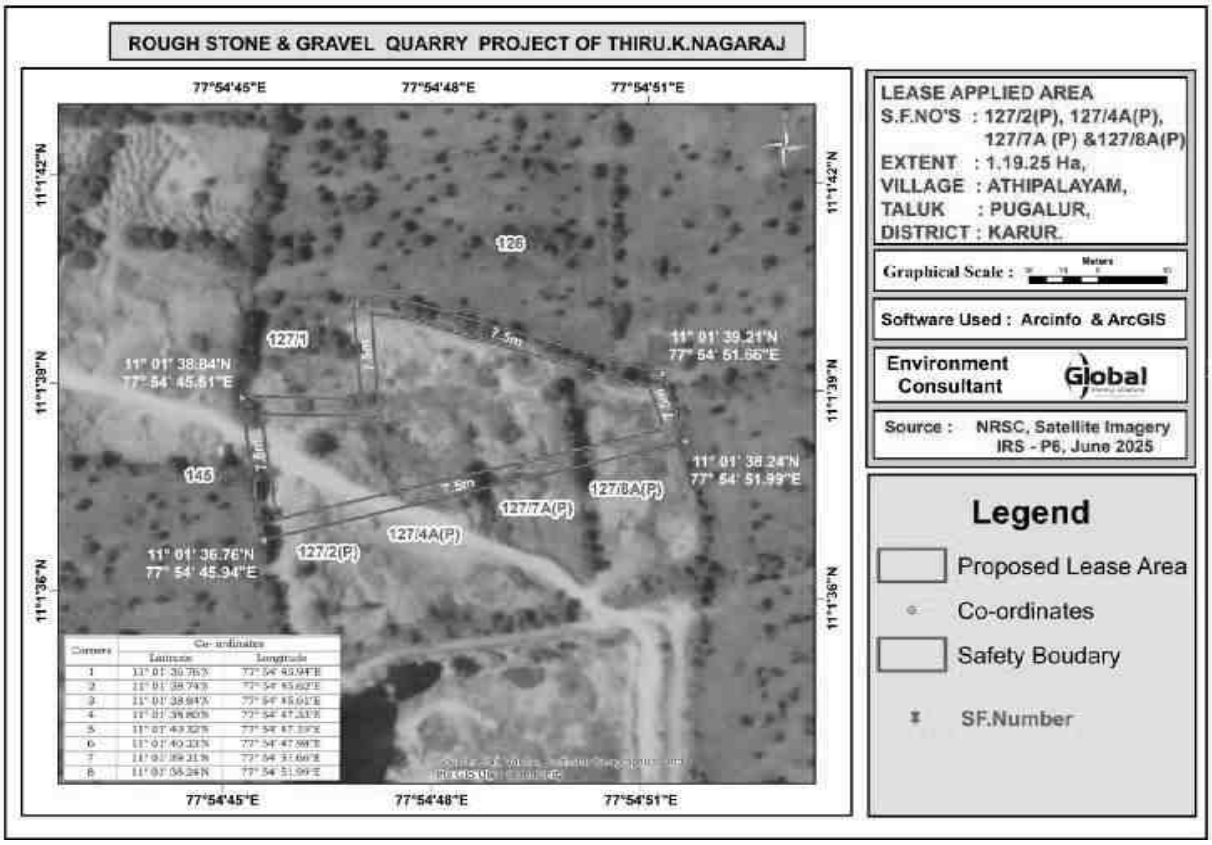


Figure 2.2 Google Image of the project site with Boundary Coordinates

Table 2.2 Mine Lease Area and its Ownership

Location	S.F. No	Area in Ha	Patta No	Patta Name
Athipalayam Village, Pugalur Taluk, Karur District	127/2(P) 127/4A(P) 127/7A(P) 127/8A(P)	**1.19.25**	7253	Thiru.Kannappan, Tmt.Pushpavalli and Thiru.Thirumalairaj (The applicant has obtained consent from the pattadar for a period of 5 years and got it registered)
Total		**1.19.25**	-	

Table 2.3 Site Connectivity

Nearest Roadway	(SH-84) Karur – Noyyal Road – 2.7 km (NE) (NH-81) Karur – Coimbatore Road – 7.2 km (S)
Nearest Village	Athipalayam Village – 799m (N)
Nearest Railway	Karur – 19.5km (SE)
Nearest Airport	Coimbatore International Airport – 96.3 km (SW)

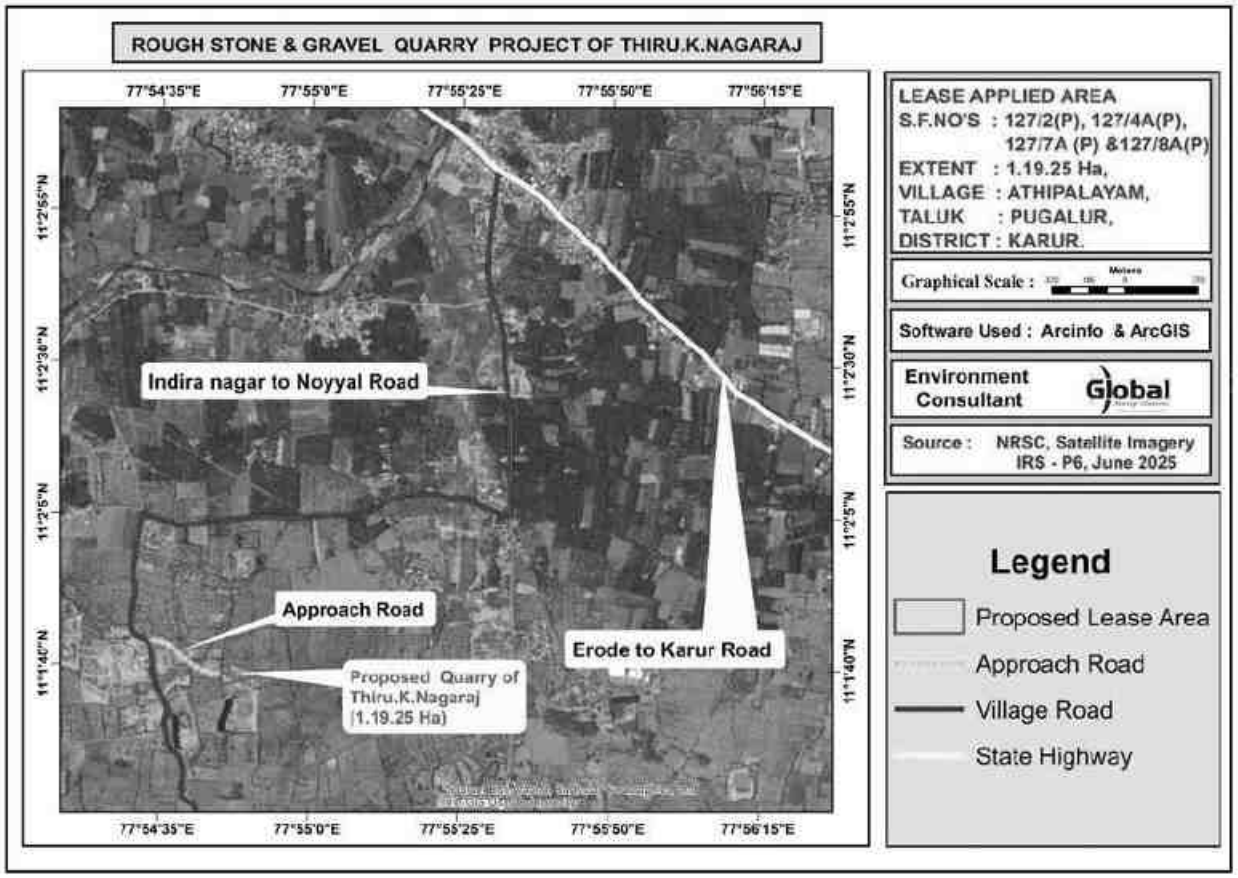


Figure 2.3 Site Connectivity Map

Table 2.4 Salient features of the Project

S. No.	Particulars	Details
1.	Proponent Name	Thiru.K.Nagaraj
2.	Proposed project	Rough Stone and Gravel Quarry of Thiru.K.Nagaraj
3.	Extent	1.19.25 Ha and the cluster area within 500 m radius including the proposed mine is 6.13.65 Ha > 5 Ha
4.	Location	S.F.No. 127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) over an extent of 1.19.25 Ha., in Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State
5.	Co-ordinates of the project site	Latitude : 11°01'36.76"N to 11°01'40.32"N Longitude : 77°54'45.61"E to 77°54'51.99"E
6.	Topography	Plain
7.	Site Elevation above MSL	172 m from MSL
8.	Topo Sheet No.	58 E/16
9.	Minerals of Mine	Rough Stone and Gravel
10.	Proposed production in m3	95,750 m3 of Rough Stone and 10,440 m3 of Gravel up to the depth of 32m below ground level for the period of 5 years.
11.	Ultimate Depth of mining	32 m below ground level
12.	Method of Mining	Opencast Mining with a bench height of 5.0 m and bench width of 5 m is proposed
13.	Drilling/Blasting	Drilling and controlled Blasting is proposed
14.	No. of Working days	300 Days
15.	Water requirement & Source	3.0 kLD and will be sourced from local vendors
16.	Manpower	25 Nos.
17.	Project Cost	Rs. 84.60 lakhs

18.	Mining Plan Approval	Assistant Director, Department of Geology and Mining vide Rc.No.170/ Kanimam/ 2024 dated 09.12.2025
19.	Safety Zone	0.37.35 Ha will be maintained as safety zone and 373 tree saplings will be planted in this area
20.	Ground water level	78 m
21.	Distance of Stone Crusher	200 m, W
22.	Previous History & CCR	Fresh Quarry. Hence CCR is not applicable.

Table 2.5 Environmental Settings of the project site

S. No.	Particulars	Details
1.	Nearest Highway	(SH-84) Karur – Noyyal Road – 2.7 km (NE) (NH-81) Karur – Coimbatore Road – 7.2 km (S)
2.	Interstate Boundary	Not Applicable
3.	Nearest Railway Station	Karur – 19.5km (SE)
4.	Nearest Airport	Coimbatore International Airport – 96.3 km (SW)
5.	Nearest Village	Athipalayam Village – 799m (N)
6.	Water bodies	1. Seasonal odai – 50m (NW) 2. Seasonal odai – 50m (S) 3. Seasonal odai – 160m (E)
7.	Reserved Forest	ARACHALUR R.F. – 28.24 km (NW)
8.	Eco Sensitive Zone and Wildlife Sanctuary (Notified)	Nil within 10km Radius VELLODE Bird Sanctuary – 36.58km (NW)
9.	Archaeological important places	Nil within 10 km radius

		Karuvoor Chera Archaeological Site Museum – 20.22 km (ES)
10.	Defense Installations	Nil within 10 km radius
11.	Nearest Port	Nil within 10 km radius
12.	Seismic Zone	Nil within 10 km radius

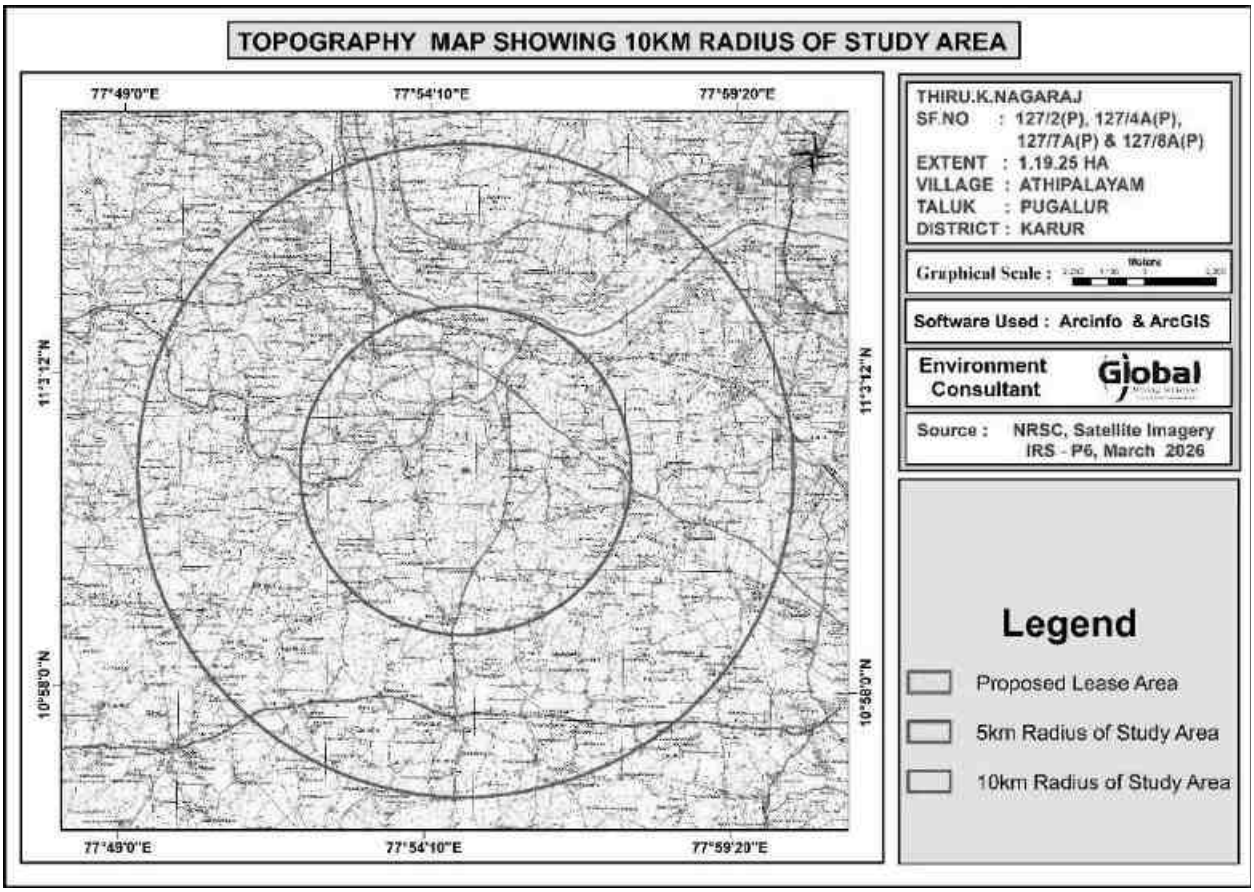


Figure 2.4 10km Radius TOPO Map

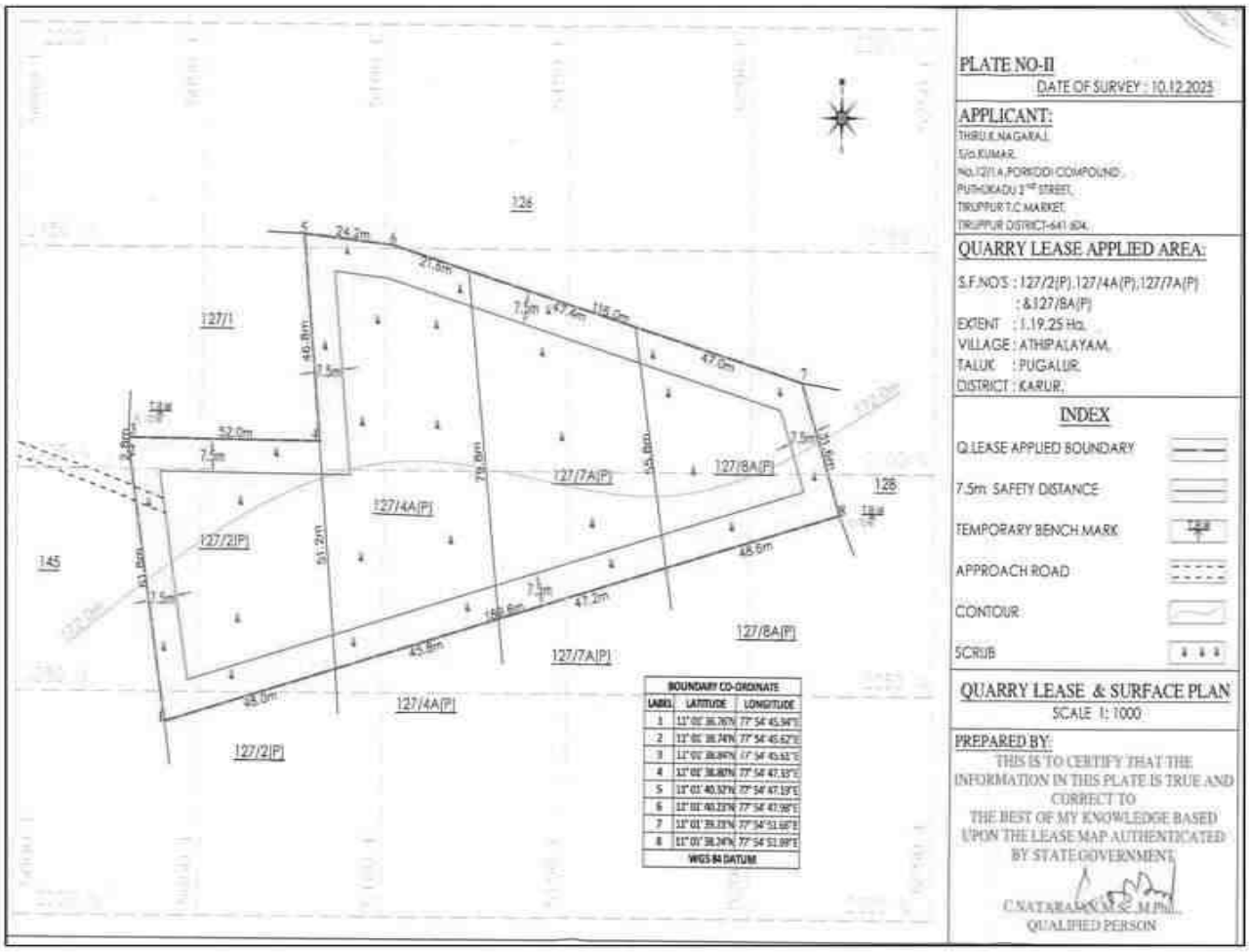


Figure 2.5 Lease Plan

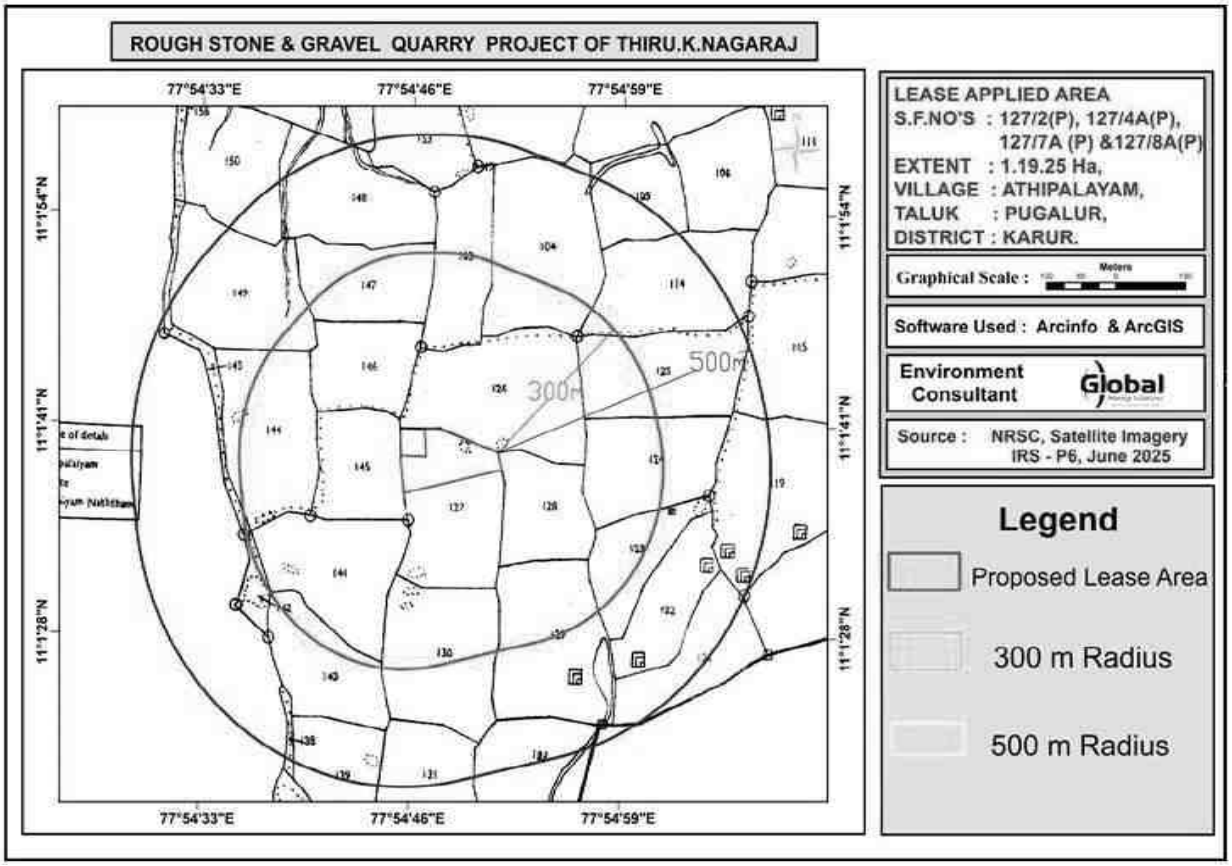


Figure 2.6 Village Map

2.4 LAND USE PATTERN OF THE PROJECT AREA

The entire project site is a Consent Patta Land jointly registered in the name of Thiru.Kannappan, Tmt.Pushpavalli and Thiru.Thirumalairaj vide Patta No. 7253. The land use pattern of the mine lease area as of today and conceptual stage given in Table No. 2.6.

Table 2.6 Land use pattern of the Project area

Description	Present Area in Ha.	Conceptual stage (Ha)
Quarrying Pit	Nil	0.79.90
Infrastructure	Nil	0.01.00
Roads	Nil	0.01.00
Safety Zone / Green Belt	Nil	0.37.35
Unutilized	1.19.25	Nil
Total	**1.19.25**	**1.19.25**

2.5 SIZE AND MAGNITUDE OF THE OPERATION

The proposed activity is the extraction of Rough Stone and Gravel by open cast mechanized mining method over an extent of 1.19.25 Ha and to produce 95,750 m3 of Rough Stone and 10,440 m3 of Gravel for Five years with ultimate depth up to 32 m Below Ground Level. The details of geological and mineable reserves in the lease area have been provided below in the subsequent sub section.

2.6 TOPOGRAPHY AND DRAINAGE

The area applied for quarry lease is exhibits almost plain covered by gravel formation. The massive Charnockite formation is noticed below 2 m Gravel Formation and sloping towards southeastern side of the area, the altitude of the area is above 172m (maximum) from MSL. No major river is found nearby the lease applied area.

2.7 GEOLOGY

2.7.1 LOCAL GEOLOGY

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

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

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

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

2.7.2 REGIONAL GEOLOGY

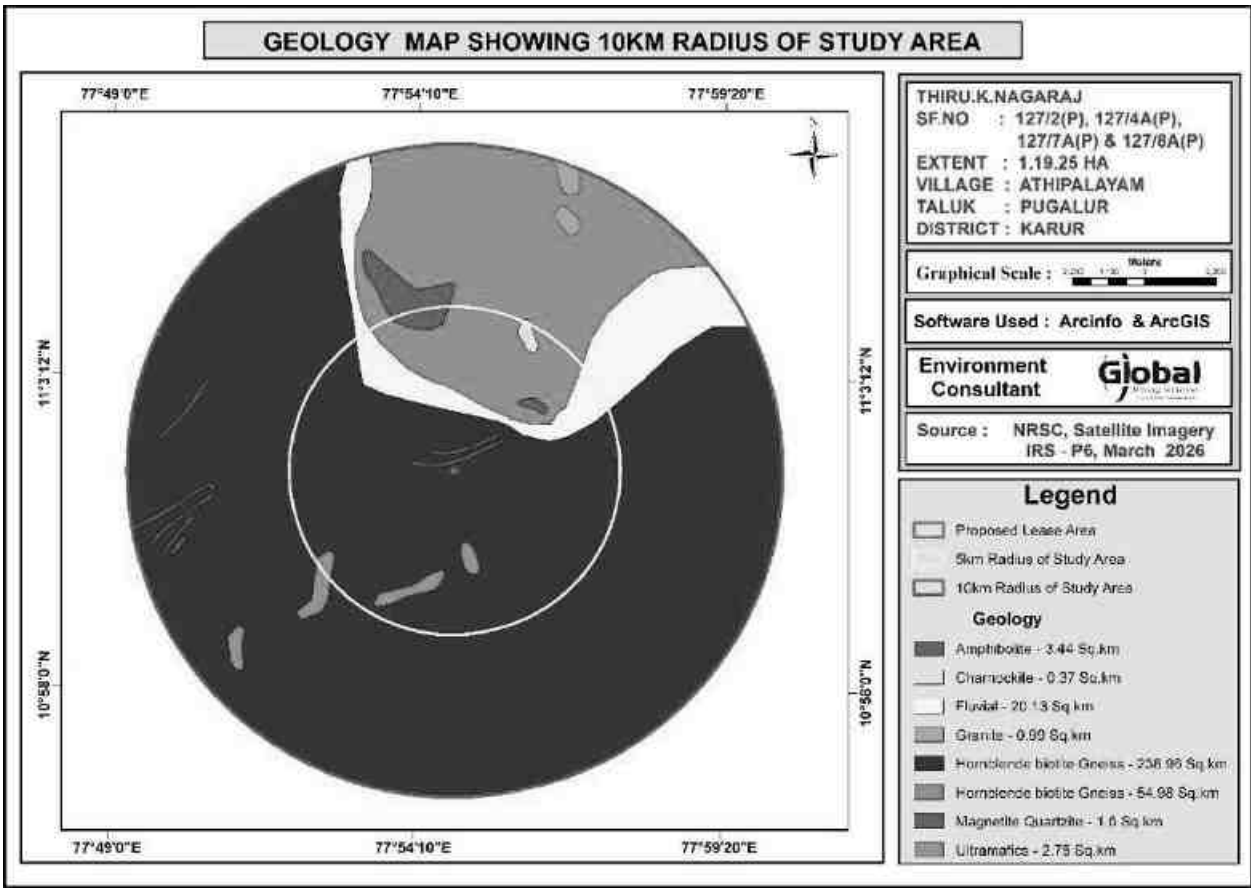


Figure 2.7 Geology Map – 10km Radius from the Project Site

The Core and 10 Km buffered zone geological features (Figure 2.28) 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).*

2.8 RESOURCES AND RESERVES

The Resources and Reserves of Rough Stone were calculated based on Cross-Section Method to cover the maximum lease area.

Table 2.7 Available Geological Resources

Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel m^3	Rough stone in m^3	Bulk Density	Gravel in Ts	Geological Resources of Rough stone in Ts
XY-AB	I	58	52	2	6032	-	2.0	12064	-
	II	58	52	5	-	15080	2.75	-	41470
	III	58	52	5	-	15080	2.75	-	41470
	IV	58	52	5	-	15080	2.75	-	41470
	V	58	52	5	-	15080	2.75	-	41470
	VI	58	52	5	-	15080	2.75	-	41470
	VII	58	52	5	-	15080	2.75	-	41470
	Total				**6032**	**90480**	**-**	**12064**	**248820**
XY-CD	I	61	88	2	10736	-	2	21472	-
	II	61	88	5	-	26840	2.75	-	73810
	III	61	88	5	-	26840	2.75	-	73810
	IV	61	88	5	-	26840	2.75	-	73810
	V	61	88	5	-	26840	2.75	-	73810
	VI	61	88	5	-	26840	2.75	-	73810
	VII	61	88	5	-	26840	2.75	-	73810
	Total				**10736**	**161040**	**-**	**21472**	**442860**
XY-EF	I	68	52	2	7072	-	2	14144	-
	II	68	52	5		17680	2.75	-	48620
	III	68	52	5		17680	2.75	-	48620
	IV	68	52	5		17680	2.75	-	48620
	V	68	52	5		17680	2.75	-	48620

	VI	68	52	5		17680	2.75	-	48620
	VII	68	52	5		17680	2.75	-	48620
Total					**7072**	**106080**	**14144**	**-**	**291720**
Grand Total					**23840**	**357600**	**-**	**47680**	**983400**

Gravel : 47,680Ts

The Geological Resources of Rough stone : 9,83,400Ts

2.8.1 MINEABLE RESERVES

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

Table 2.8 – Available Mineable Reserves

Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel m^3	Rough stone in m^3	Bulk Density	Gravel in Ts	Mineable Reserves of Rough stone in Ts
XY-AB	I	50	36	1	1800	-	2.00	3600	-
	II	47	31	5		7285	2.75	-	20033.75
	III	42	21	5		4410	2.75	-	12127.50
	Total				**1800**	**11695**	**-**	**3600**	**32161.25**
XY-CD	I	61	72	1	4392		2.00	8784	-
	II	61	67	5	-	20435	2.75	-	56196.25
	III	61	57	5	-	17385	2.75	-	47808.75
	IV	61	47	5	-	14335	2.75	-	39421.25
	V	51	37	5	-	9435	2.75	-	25946.25
	VI	41	27	5	-	5535	2.75	-	15221.25
	VII	31	17	5	-	2635	2.75	-	7246.25
	Total				**4392**	**69760**	**-**	**8784**	**191840.00**
XY-EF	I	59	36	2	4248	-	2.00	8496	-
	II	57	31	5	-	8835	2.75		24296.25
	III	52	21	5	-	5460	2.75		15015.00
	Total				**4248**	**14295**	**-**	**8496**	**39311.25**
Grand Total					**10440**	**95970**	**-**	**20880**	**263312.50**

The available mineable reserve is computed as 2,63,312.50 Ts of rough stone and 20,880 Ts of Gravel upto a depth of 32m (below ground level) only.

2.9 PROCESS DESCRIPTION AND TECHNOLOGY

2.9.1 PROCESS DESCRIPTON

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

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

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

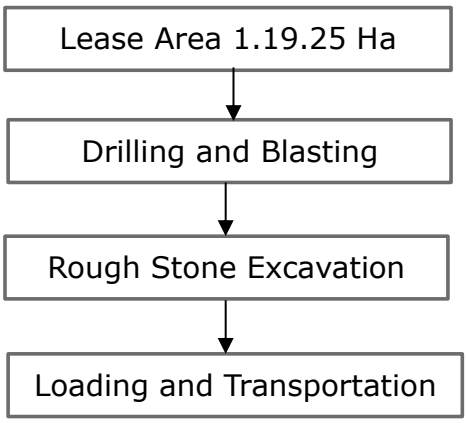


Figure 2.8 Process Flow Diagram

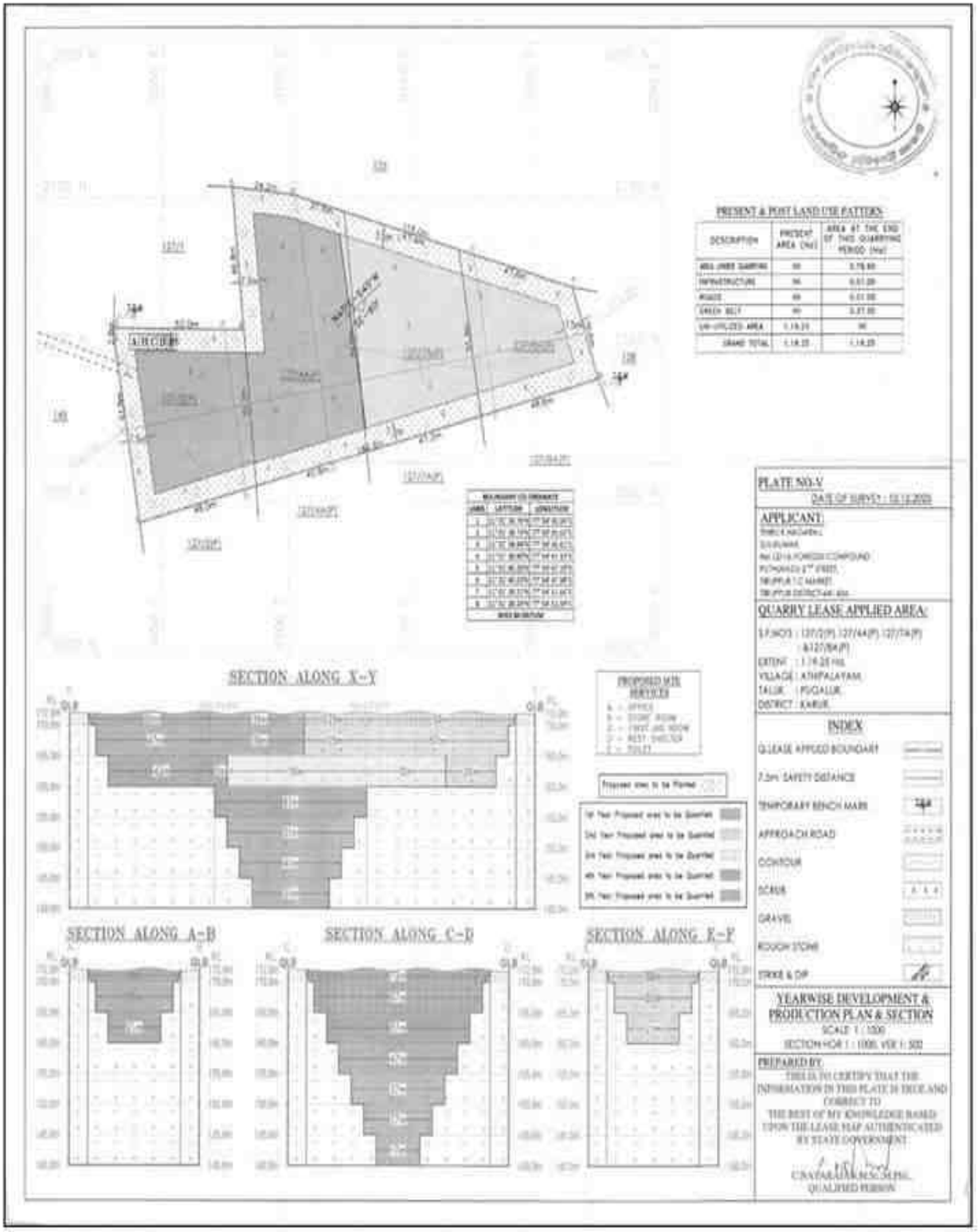


Figure 2.9 Year wise Development & Production Plan & Sections

Table 2.9 – Machinery Details

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

2.9.2 DRILLING AND BLASTING PARAMETERS

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

Table 2.10 – Details of Blasting

Diameter of the hole	32-36 mm
Spacing	0.6m
Depth	1 to 1.5 m
Burden of hole	0.6m
Pattern of hole	Zig zag
Inclination of hole	70^0 from horizontal
Number of holes	60
Powder factor	6Ts/Kg of Explosives
Total explosive required	30 Kg slurry Explosives
Charge / hole	0.5 Kg
Blasting time	12-2 Pm

2.9.3 TYPE OF EXPLOSIVE

Slurry explosive is proposed for shattering and heaving effect for removal of rough stone. No deep hole drilling or primary blasting is proposed. The Project Proponent have agreement with AR & Co to carry out the blasting operation for the proposed quarry. The Blasting Agreement is enclosed as Annexure – 6.

2.9.4 STORAGE OF EXPLOSIVES

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

2.9.5 PRODUCTION SCHEDULE

The year wise production schedule upto lease period of 5 years is given below, the year wise production plan is given in Figure 2.10.

Table 2.11 Year wise Production Plan

Year	Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel in m^3	Rough stone in m^3	Bulk Density	Gravel in (Ts)	Mineable Reserves of Rough stone in (Ts)
I	XY-AB	I	50	36	1	1800	-	2.00	3600	-
		II	47	31	5	-	7285	2.75	-	20033.75
	XY-CD	I	36	72	1	2592	-	2.00	5184	-
		II	36	67	5	-	12060	2.75	-	33165.00
Total						**4392**	**19345**	-	**8784**	**53198.75**
II	XY-CD	I	25	72	1	1800	-	2.00	3600	-
		II	25	67	5	-	8375	2.75	-	23031.25
	XY-EF	I	59	36	2	4248	-	2.00	8496	-
		II	57	31	5	-	8835	2.75	-	24296.25
		III	20	21	5	-	2100	2.75	-	5775
Total						**6048**	**19310**	-	**12096**	**53102.50**
III	XY-EF	III	32	21	5	-	3360	2.75	-	9240.00
	XY-CD	III	56	57	5	-	15960	2.75	-	43890.00
Total						-	**19320**	-	-	**53130.00**
IV	XY-CD	III	5	57	5	-	1425	2.75	-	3918.75
		IV	61	47	5	-	14335	2.75	-	39421.25
	XY-AB	III	42	21	5	-	4410	2.75	-	12127.50
Total						-	**20170**	-	-	**55467.50**
V	XY-CD	V	51	37	5	-	9435	2.75	-	25946.25
		VI	41	27	5	-	5535	2.75	-	15221.25
		VII	31	17	5	-	2635	2.75	-	7246.25
Total						-	**17605**	-	**12096**	**48413.75**
Grand Total						**10440**	**95750**	-	**20880**	**263312.50**

The applicant has proposed to carry out 95,750 m^3 of Rough Stone and 10,440 m^3 of Gravel upto depth of 32m (below ground level) for the period of five years.

2.9.6 DISPOSAL OF WASTE

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

2.10 CONCEPTUAL MINING PLAN / FINAL MINE CLOSURE PLAN

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

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

Pit dimension as per approved mining plan is given below.

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

Pit	Length in m (Max)	Width in m (Max.)	Depth in m (Max.), AGL
I	170	47	32m BGL

Table 2.13 - Land use pattern of the Project site

Description	Present Area (Ha)	Area in use during the quarrying period (Ha)
Quarrying pit	Nil	0.79.90
Infrastructure	Nil	0.01.00
Roads	Nil	0.01.00
Greenbelt	Nil	0.37.35
Unutilized	1.19.25	Nil
Total	**1.19.25**	**1.19.25**

- At the end of life of mine, the excavated mine pit / void of 0.79.90 Ha will act as artificial reservoir for collecting rain water and helps to meet out the demand or crises during drought season.
- After mine closure the greenbelt (0.37.35 Ha.) will be developed along the safety barrier and top benches and 0.02 Ha are approach road and Infrastructure.

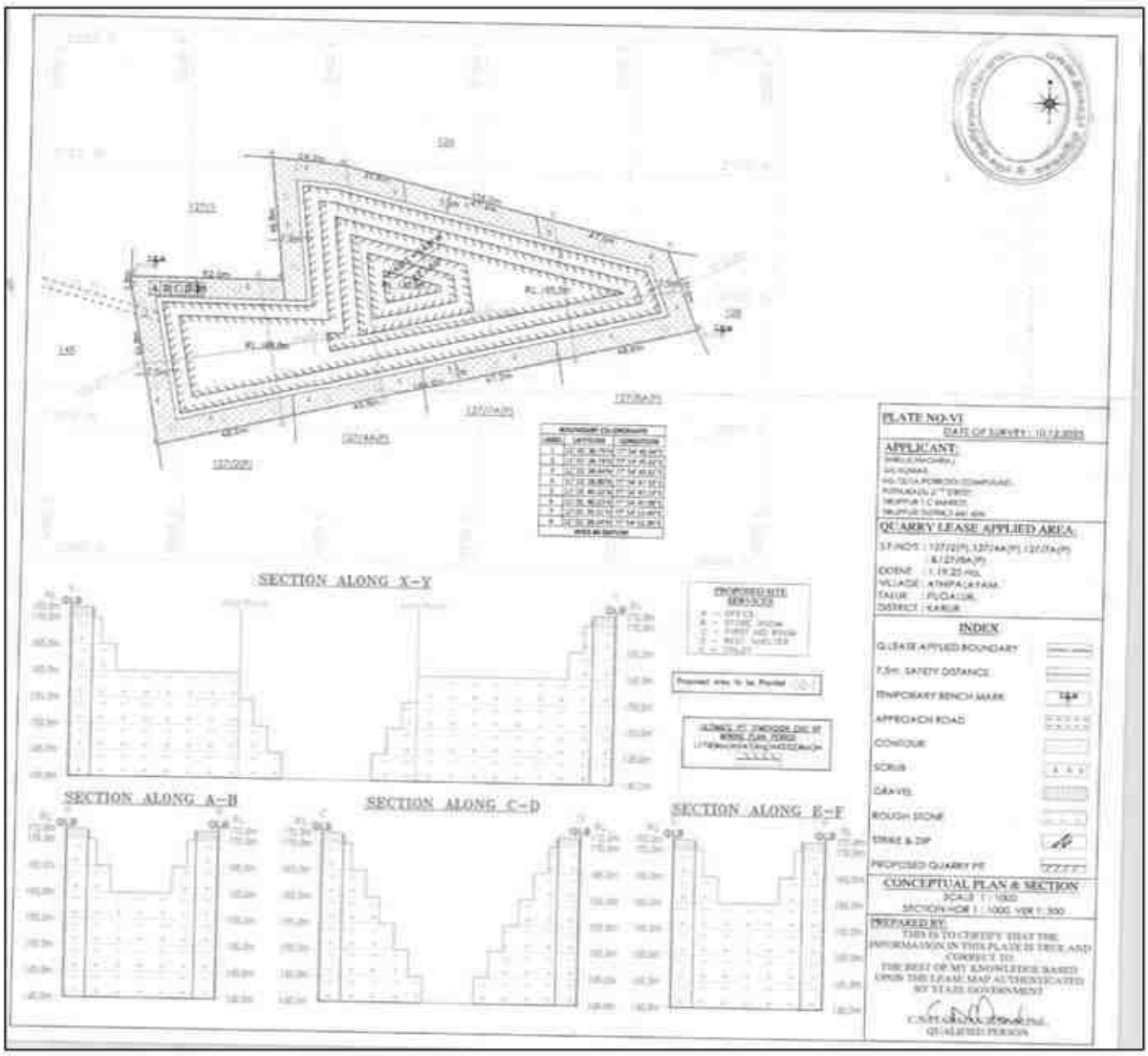


Figure 2.10 Conceptual Plan and Cross Section

2.11 PROJECT REQUIREMENT

2.11.1 WATER REQUIREMENT AND SOURCE

The total water requirement estimated for the quarry is 3.0 KLD. The required water will be procured from outside agencies initially and later rainwater harvested in the mine pit shall be used other than drinking purpose.

Table 2.14 Details of Water requirement

Activity	Water Requirement in KLD
Drinking & Domestic	1.0
Dust Suppression	1.0
Greenbelt Development	1.0
Total	**3.0**

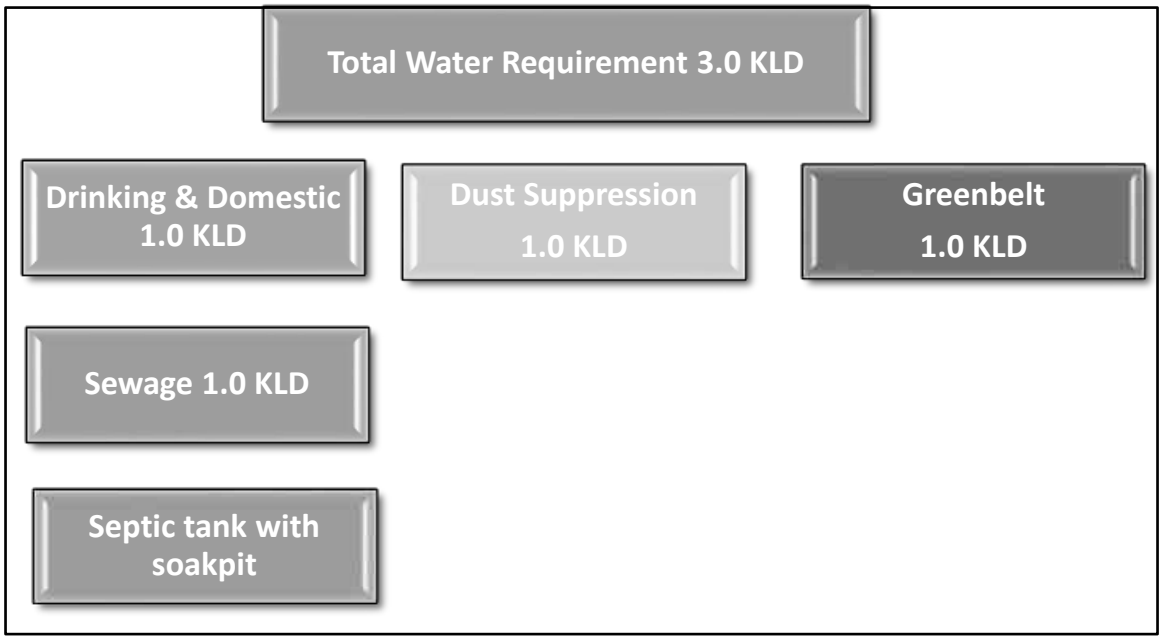


Figure 2.11 Water Balance Chart

2.11.2 POWER REQUIREMENT

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

2.11.3 FUEL REQUIREMENT

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

Table 2.15 Details of Fuel (HSD) Requirement

For Rough Stone

Per hour excavator will consume	16 liters /hr
Per hour excavator will excavate	20 m3 of Rough Stone
For 95,750 m3	95,750 /20 = 4,787.5
So, Diesel consumption	= 4,787.5 x 16 litres
	= 76,600 litres of HSD

For Gravel

Per hour excavator will consume	10 liters /hr
Per hour excavator will excavate	60 m3 of Gravel
For 10,440 m3	10,440 / 60 = 174
So, Diesel consumption	= 174 x 10 litres
	= 1,740 litres of HSD

The Total fuel consumption is around 78,340 (L) of HSD for the entire period of life (5 years).

2.11.4 EMPLOYMENT GENERATION

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

Table 2.16 Details of Manpower requirement

1.	Skilled	Mines Manager	1 No.
		Foreman / Mate	2 No.
		Operator	6 No.
		Mechanic	1 No.
2.	Semi–skilled	Driver	3 No.
3.	Unskilled	Labours	12 Nos
		Total =	25 Nos

2.11.5 GREEN BELT REQUIREMENT

The safety zone, covering an area of 0.37.35 Hectares, will be maintained as a green belt and planted with 373 Nos. of local species.

2.11.6 VEHICULAR TRAFFIC DENSITY

The proposed quarry is located in Athipalayam village. The final product from the quarry will be transported through (SH-84) Karur – Noyyal Road – 2.7 km (NE). The details of transport route from the quarry shown below:

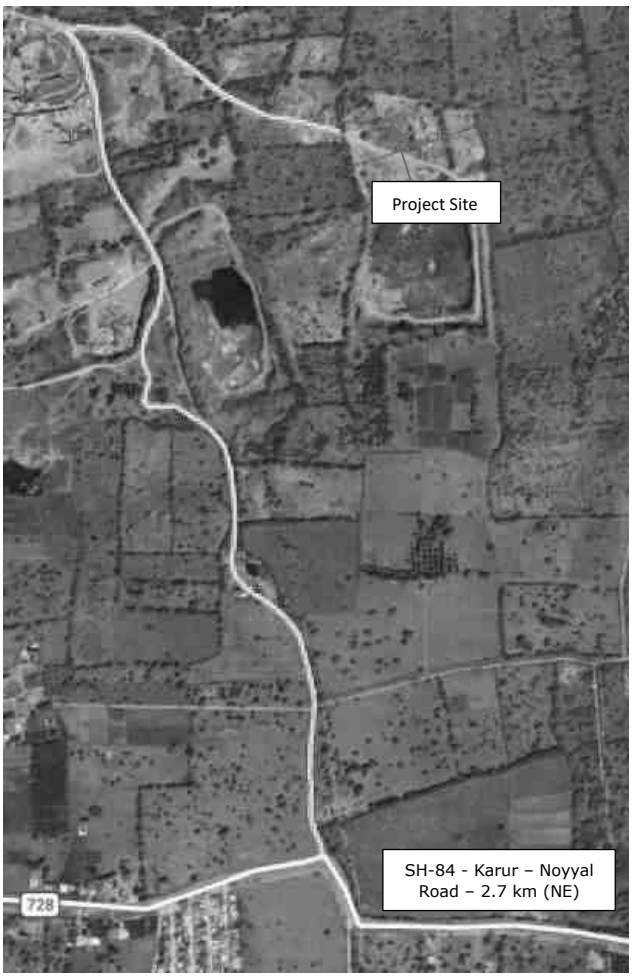
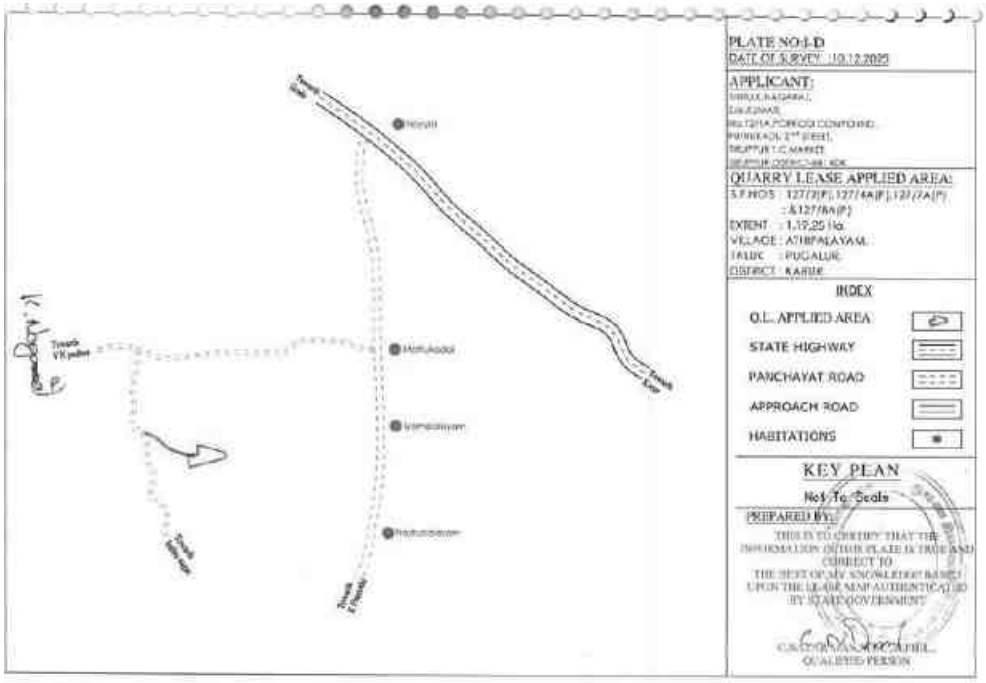


Figure 2.12 Traffic Map with Distance of nearest Crusher



Key Plan of the Project Site

Mineral Transportation

Mineral Transportation			
Production Per day in tons			
Quarry	**Quarry Name**	**Total Mineral in tons per day**	**No. of Lorry Load per day**
P1 (Proposed)	Thiru. K. Nagaraj	189	19
Total			

The proposed projects will bring 19 trips per day.

Methodology

Vehicle Count

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

Categorization of Traffic

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

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

Level of Service	General Operating conditions	Range of V/C
A	Free flow (traffic flows at or above speed limit and motorists have complete mobility between lanes)	<0.30
B	Reasonable flow (slightly more congested, with some maneuverability)	0.3 – 0.47
C	Stable flow (more congested than B, loads close to capacity)	0.48 – 0.68
D	Approaching unstable flow (speeds are somewhat reduced, example: busy corridor during middle of a weekday, or a functional urban highway during rush hour)	0.69 – 0.88
E	Unstable flow (flow becomes irregular, speed varies widely and rarely reaches speed limit)	0.88 - 1.00
F	Forced or breakdown flow (a constant traffic jam)	>1.00

Table 2.17 Existing Traffic Flow

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

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

Table 2.18 Mineral Hourly Transportation Requirement

Capacity of trucks	No Trips per day Cumulatively	Volume in PCU	PCU Per hour considering 8 HOURS
10 tonnes	19	57	7.0

Table 2.19 - Summary of Traffic Volume

Route	Existing Traffic Survey in PCU	Incremental Traffic Survey due to project	Total Traffic Survey Volume	Hourly capacity in PCU as per IRC -1960 guidelines
SH 84 - Karur – Noyyal Road	361	5.0	366	1500

As per the IRC 1960 this existing village road can handle 3600 PCU in hour hence there will not be any conjunction due to this proposed transportation.

Table 2.20 - Modified Level of Service

Sampling Location	Existing Volume (PCU/hr)	Existing Volume/ Capacity ratio	Additional Volume (PCU/hr)	Modified Volume (PCU/hr)	Modified Volume/ Capacity ratio	Modified LOS
SH 84 - Karur – Noyyal Road	361	0.24	5.0	0.001	0.24	A*

(* A – Free Flow)

2.11.7 INFRASTRUCTURE REQUIREMENT

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

2.11.8 PROJECT COST

The total project cost of this rough stone Quarry is Rs. 84.60 lakhs.

PROJECT COST DETAILS		
Fixed Cost		
Land Cost	:	Rs.7.15 Lakhs
First Aid Room and accessories	:	Rs.1.00 Lakh
Labourer Shed	:	Rs.1.00 Lakh
Sanitary Facility	:	Rs.1.00 Lakh
		Total (A)– Rs.10.15 Lakhs
Operational Cost		
Machineries	:	Rs.50.00 Lakhs
Fencing cost	:	Rs.1.50 Lakhs
		Total (B) – Rs. 51.50 Lakhs
EMP Cost		
Air Environment, Noise Environment, Mine Closure, Implementation of EC, Mining Plan & DGMS Condition	**:**	**Total(C)–Rs.19.96 Lakhs**
CER Cost		
Plantation, Providing Table and desks - 10 sets and Maintenance of the toilet for the entire lease period	:	**Total (D)– Rs.3.00 Lakhs**
Grand Total (A+B+C+D)	**:**	**Rs. 84.60 Lakhs**

2.11.9 PROJECT IMPLEMENTATION SCHEDULE

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

***

CHAPTER 3

DESCRIPTION OF THE ENVIRONMENT

3.1. STUDY AREA, PERIOD COMPONENTS AND METHODALOGY

The project area is located in in Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State over an extent of 1.19.25 Ha., The project area is considered as Core zone and the area in the surrounding 10km radius is considered as Buffer Zone. The baseline environmental monitoring was conducted by Shrient Analytical & Research Labs Private Limited, Chennai it is an NABL and MOEFCC recognized laboratory for various components of environment, viz. Air, Noise, Water, Land was carried out during Summer Season i.e. December 2025 to February 2026 in the study area covering 10 km radial distance from the rough stone mine. Other environmental data on flora and fauna, land-use pattern, forest etc. were also generated through field surveys and secondary information collected from different State Govt. departments. Sampling methods and analysis. Socio-economic survey was conducted, through interaction with the people, sarpanch and medical officers by floating questionnaires and collection of information are supported by census data for demographic structures, amenities, and infrastructure availability within the study area. Baseline values for various environmental components are discussed in this Chapter.

3.2 ENVIRONMENTAL SETTING OF THE STUDY AREA

Table 3.1 Description of the lease area		
S.No.	**Areas**	**Distance from project site**
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Nil within 15km radius
2	Areas which are important or sensitive for ecological reasons	
A	Wetlands, water courses or other water bodies,	1. Seasonal odai – 50m (NW) 2. Seasonal odai – 50m (S) 3. Seasonal odai – 160m (E) 4. Noyyal River-1.49Km (NW) 5. Kaveri River- 4.91Km (N
B	Coastal zone, biospheres,	Nil within 10km radius
C	forests	Arachalur R.F. – 28.24 km (NW)
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	There are no habitations within a radius of 300m. ATHIPALAYAM VILLAGE – 799m (N)
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	There are no habitations within a radius of 300m. ATHIPALAYAM VILLAGE – 799m (N)

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

3.3 STUDY PERIOD

The relevant information and data (both primary and secondary) were collected in core as well as buffer zone (10 km distance from the mine boundary) during December 2025 to February 2026 in accordance with the guidelines for preparation of EIA studies in order to assess the impact of the mine site within the 10 Km study area on existing physical, biological and social environment.

3.4 ESTABLISHMENT OF BASELINE FOR VALUED ENVIRONMENTAL COMPONENTS

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

- Meteorological environment
- Air environment
- Water environment
- Noise environment
- Soil environment
- Biological environment
- Land use & Land cover
- Socio economic environment

- Hydrogeology

3.4.1 BASELINE DATA COLLECTION

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

Baseline data collection during December 2025 to February 2026

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

3.4.2 INSTRUMENTS USED FOR ENVIRONMENTAL BASELINE DATA COLLECTION

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

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

3.4.3. BASE MAP OF ALL ENVIRONMENTAL COMPONENTS

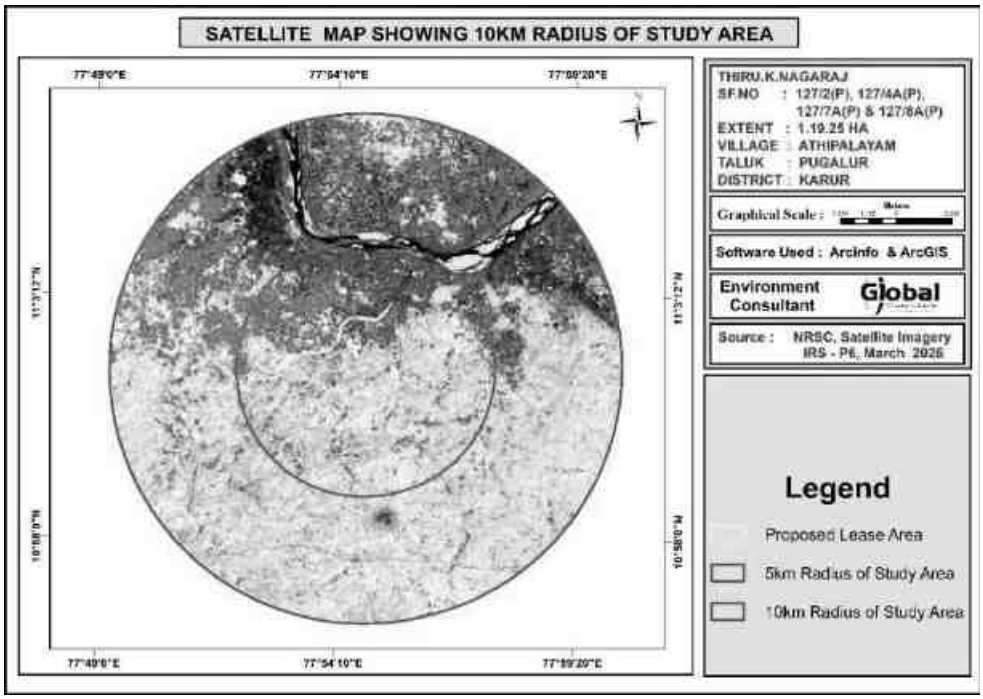


FIGURE - 3.1 SATELLITE MAP OF THE PROJECT AREA (10 KM RADIUS)

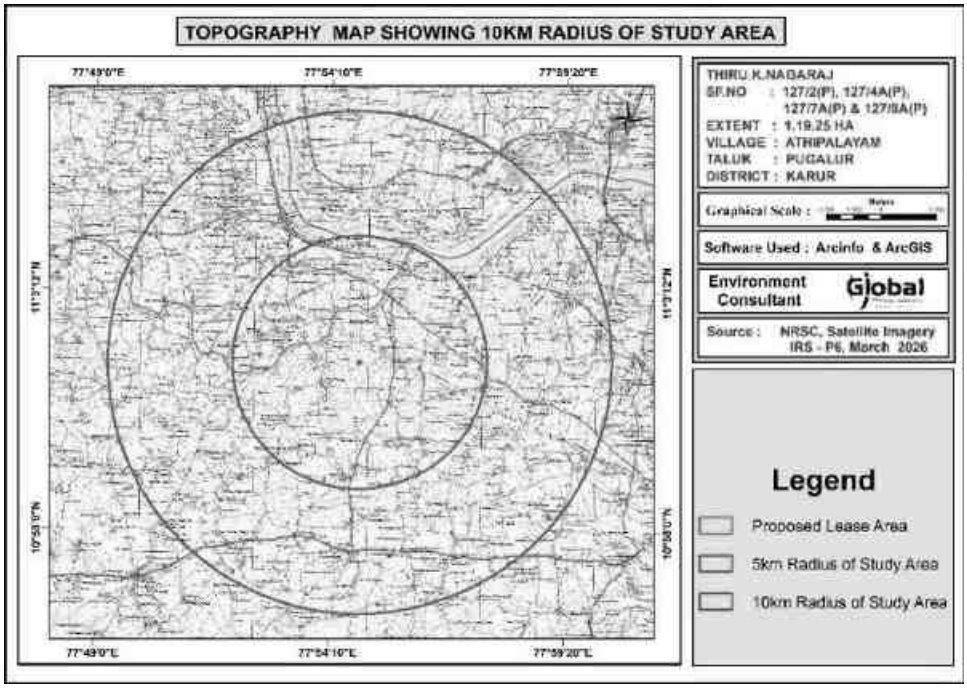


FIGURE - 3.2 Topo Map (10 KM RADIUS)

3.5 METEOROLOGICAL ENVIRONMENT

Meteorological conditions prevailing in the buffer zone is given below

3.5.1 Climate and Rainfall data

Karur District experiences a tropical semi-arid climate, characterized by high temperatures, moderate rainfall, and distinct wet and dry seasons. The district is predominantly an inland region and is influenced by both the Southwest and Northeast monsoons, with the latter contributing a larger share of the annual rainfall.

The soils of the district are mainly red loamy soils, red sandy soils, and black cotton soils, which support agriculture. Irrigation is largely dependent on rivers, tanks, canals, wells, and borewells, with groundwater serving as an important source for cultivation.

Temperature

- Summer season (March–June): Hot and dry conditions prevail.
    - Maximum temperatures commonly range between 38°C and 42°C, particularly during April and May.
- Winter season (December–February): Mild and pleasant.
    - Minimum temperatures generally range between 20°C and 22°C, with January being the coolest month.

Rainfall

- The average annual rainfall of Karur district is approximately 600 – 850 mm, which is lower than the average rainfall of many districts in Tamil Nadu.
- Rainfall is received mainly from:
    - Northeast Monsoon (October–December): Approximately 45–50% of annual rainfall.
    - Southwest Monsoon (June–September): Approximately 30–35% of annual rainfall.
    - Summer and winter rainfall: The remaining 15–20%.

Seasonal Characteristics

1. Summer (March–June):
    - High temperatures and low humidity.
    - Occasional convective thunderstorms.
2. Southwest Monsoon (June–September):
    - Moderate rainfall.
    - Contributes to groundwater recharge and agricultural activities.
3. Northeast Monsoon (October–December):
    - Principal rainy season.
    - Provides the bulk of annual rainfall and replenishes surface and groundwater resources.
4. Winter (December–February):
    - Dry and comparatively cool weather.

Climate of Pugalur Taluk

Pugalur Taluk, located in the northern part of Karur district near the Cauvery River, experiences climatic conditions similar to the rest of the district but benefits locally from the influence of the river system.

- Climate type: Semi-arid tropical
- Annual rainfall: Generally 650–750 mm
- Peak temperatures during summer: 38–41°C
- Winter minimum temperatures: 20–22°C
- Major rainfall source: Northeast Monsoon
- Agriculture is supported by a combination of canal irrigation from the Cauvery system, groundwater extraction, and seasonal rainfall.

The semi-arid climate, coupled with fertile alluvial and red soils in parts of the taluk, makes agriculture an important economic activity, although rainfall variability necessitates dependence on groundwater and irrigation infrastructure.

Table 3.2 Rainfall Data

Actual Rainfall in mm					Normal Rainfall in mm
2019	2020	2021	2022	2023	
747.3	629.2	1563.4	1043.8	737	816

3.5.2 Seismic information

The proposed project site falls in the seismic Zone II, low damage risk zone as per BMTPC, Vulnerability Atlas of Seismic zone of India IS: 1893 – 2002.

Table 3.3 Meteorological Data Recorded at Site

S.NO	Parameters		Dec 2025 to Feb 2026
1.	Temperature (^{0}C)	Min	17.0
		Max.	36.0
		Avg	24.5
2.	Relative Humidity (%)	Min	20
		Max	96
		Avg	65.9
3.	Wind Speed (m/s)	Min	0
		Max	6.2
		Avg	1.7
4.	Wind Direction	Blowing From – SE	

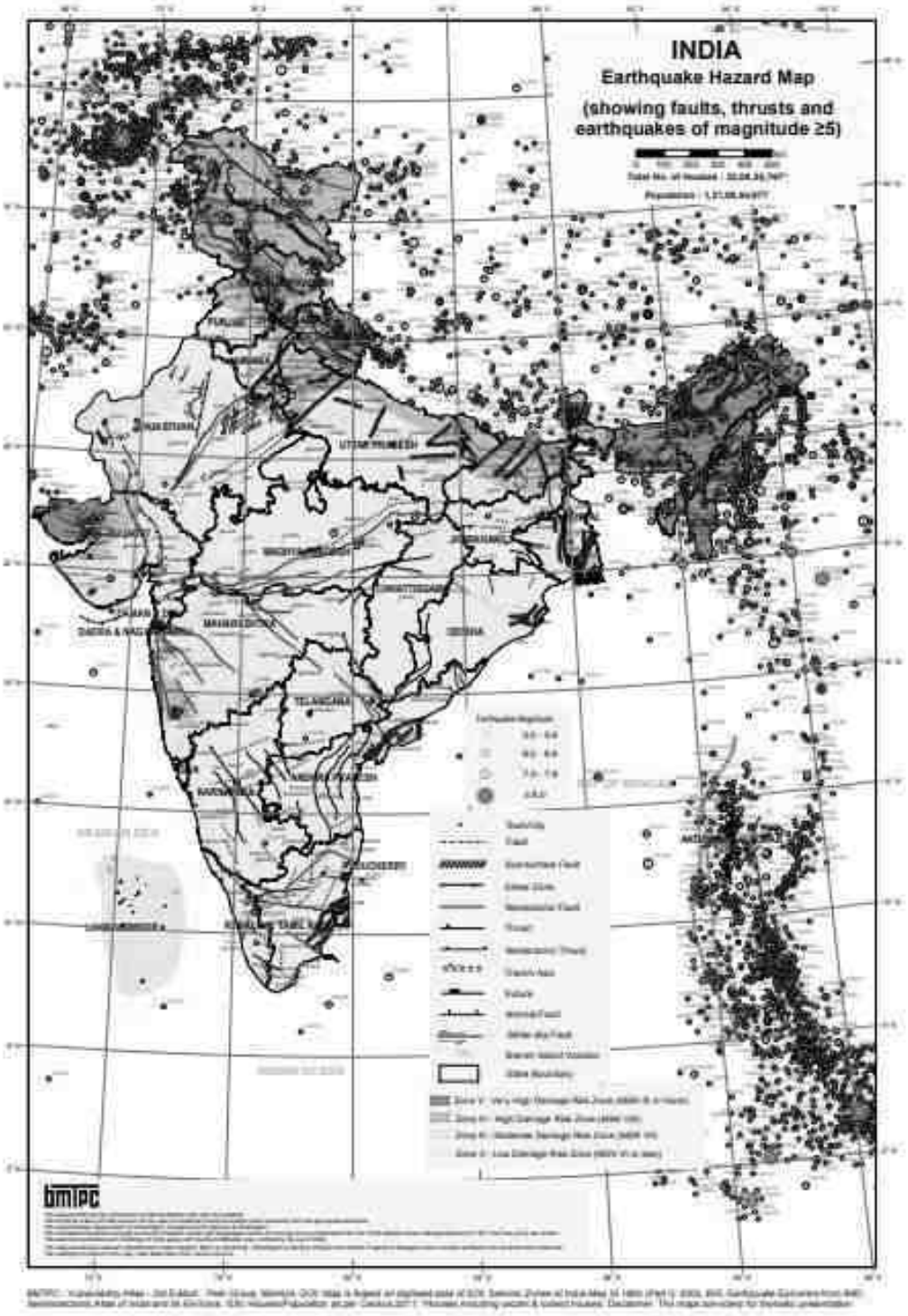


FIG 3.3 SEISMIC MAP OF INDIA

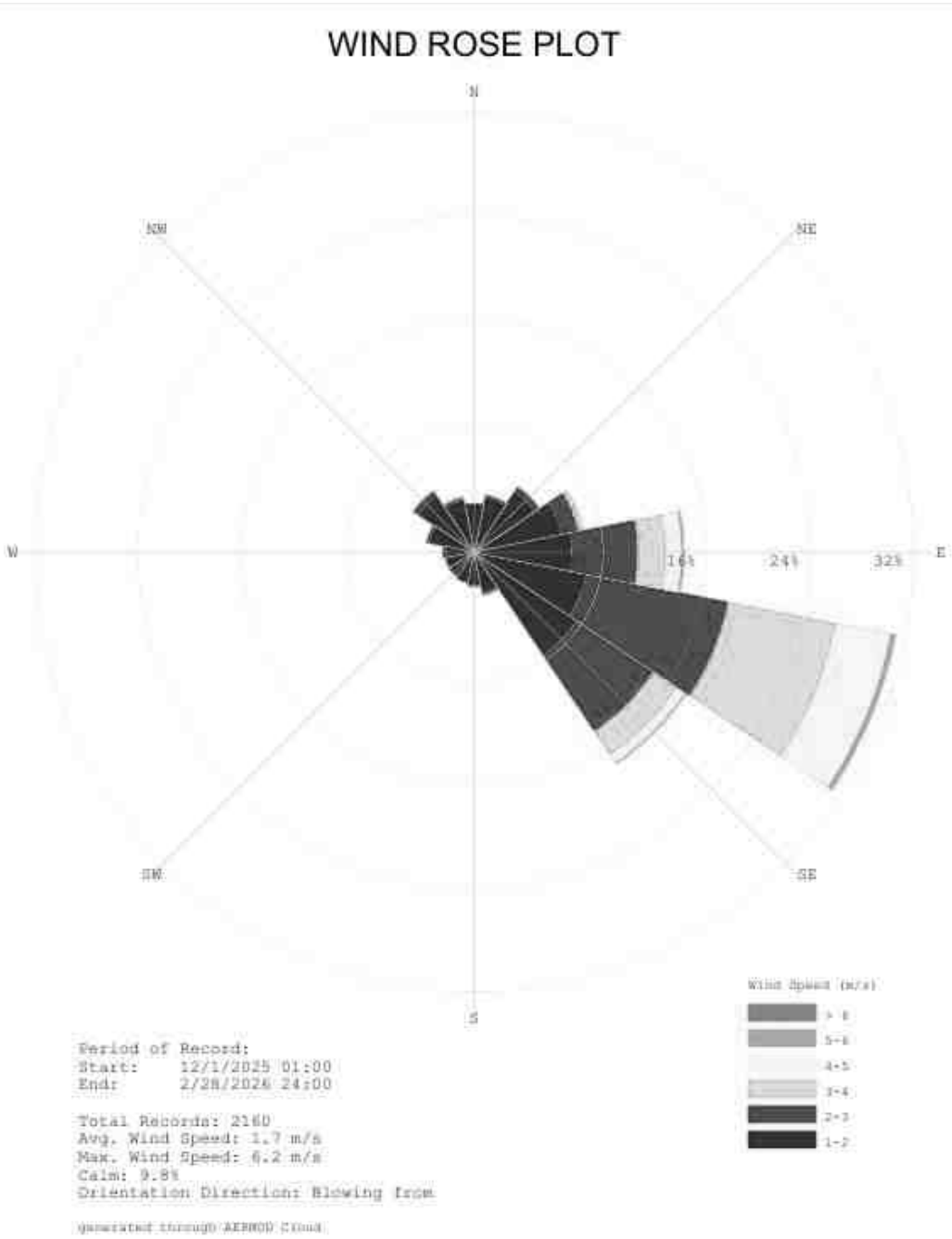


FIG 3.4 WIND ROSE PLOT DURING DECEMBER 2025 TO FEBRUARY 2026

3.5.3 Meteorological data of the project area

The meteorological data collected in the study area from December 2025 to February 2026 which includes Temperature, Wind speed and Wind direction. The predominant wind blows from South East. The temperature of the area is reported to be 38°C and 42°C during summer.

3.6 AMBIENT AIR MONITORING DATA

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

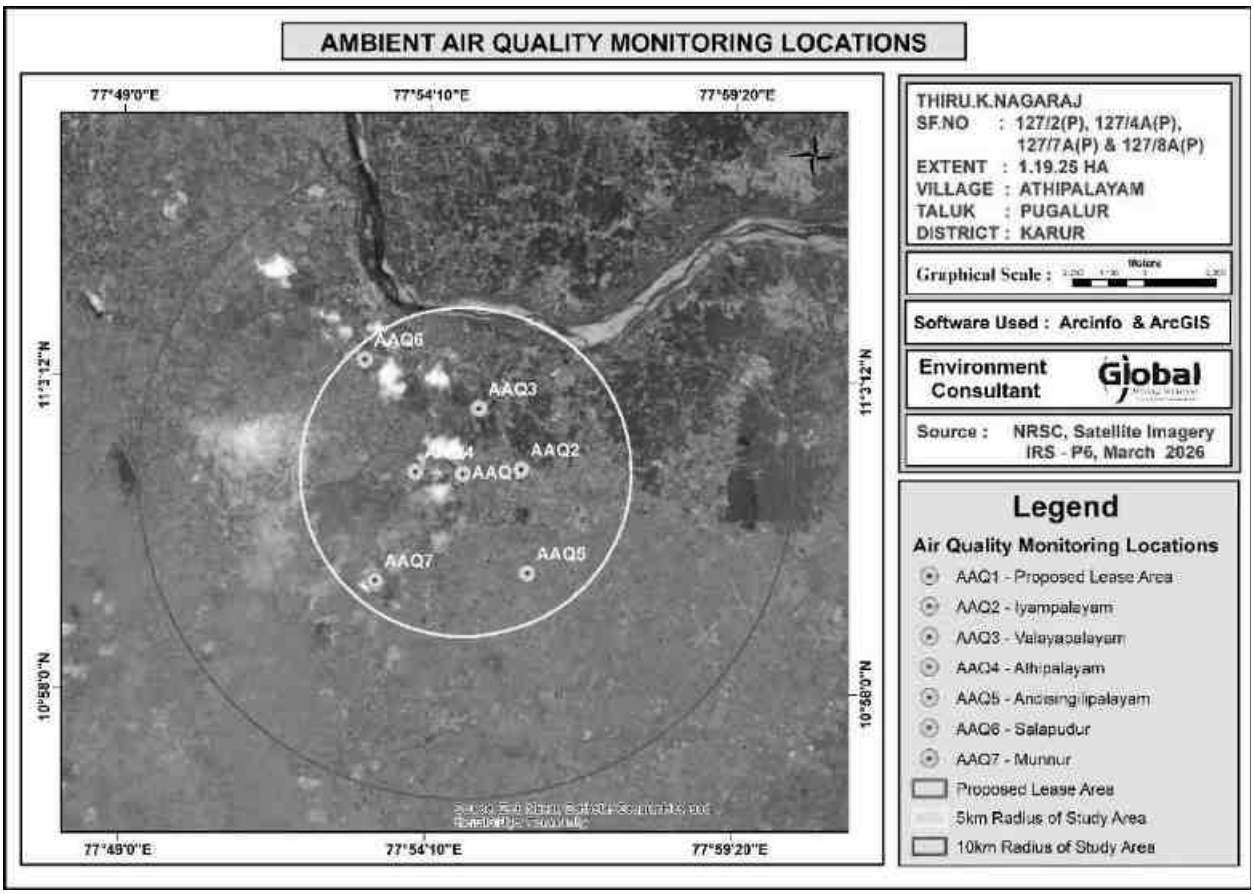
The regional climatologically data, was used as a guideline to know the predominant wind direction during study period. The locations were identified keeping in view predominant wind directions prevailing during study period, sensitive receptors, human settlements, and mining activities around.

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

Table 3.4 Details of Ambient Air Quality Monitoring Locations

S. No.	Station Code	Locations	Coordinates
1	AAQ 1	Within Mine Lease area	11° 1'38.20"N & 77°54'48.06"E
2	AAQ 2	Iyampalayam	11° 1'38.28"N & 77°55'45.70"E
3	AAQ 3	Valayapalayam	11° 2'36.50"N & 77°55'4.84"E
4	AAQ 4	Athipalayam	11° 1'32.48"N & 77°54'0.97"E
5	AAQ 5	Andisangilipalayam	10°59'54.73"N & 77°55'58.02"E
6	AAQ6	Salapudur	11° 3'31.43"N & 77°53'5.28"E
7	AAQ7	Munnur	10°59'46.18"N & 77°53'18.66"E

FIG 3.5 BASE MAP OF AMBIENT AIR MONITORING LOCATIONS



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

Table.3.5 Results of Air sampling Analysis in 7 locations

Station ID	Min	Max	Avg
Particulate matter PM-$_{2.5}$ ($\mu g/m^3$)			
AAQ-1	24.5	32.5	28.6
AAQ-2	20.3	25.9	23.1
AAQ-3	18.4	23.6	20.6
AAQ-4	18.0	24.6	21.2
AAQ-5	20.7	26.0	23.3
AAQ-6	22.7	26.8	24.6
AAQ-7	22.7	26.9	24.8
CPCB NAAQS 2009 for PM $_{2.5}$ - 60 $\mu g/m^3$			
Particulate matter PM-$_{10}$ ($\mu g/m^3$)			
AAQ-1	52.9	70.3	61.9
AAQ-2	43.2	54.9	48.6
AAQ-3	40.4	49.6	45.0
AAQ-4	39.3	53.2	46.1
AAQ-5	43.9	55.5	49.4
AAQ-6	49.8	57.8	53.1
AAQ-7	48.9	58.6	53.5
CPCB NAAQS 2009 for PM $_{10}$ - 100 $\mu g/m^3$			
Sulphur Di-oxide as SO_2 ($\mu g/m^3$)			
AAQ-1	4.4	6.1	5.4
AAQ-2	4.2	5.2	4.7
AAQ-3	4.5	9.3	6.9
AAQ-4	3.9	6.1	4.9
AAQ-5	4.2	5.8	4.9
AAQ-6	4.4	5.8	5.0
AAQ-7	4.4	6.6	5.5
CPCB NAAQS 2009 for SO_2 – 80 $\mu g/m^3$			
Oxide of Nitrogen as NO_2 ($\mu g/m^3$)			
AAQ-1	7.1	12.3	9.8
AAQ-2	7.6	10.5	9.1
AAQ-3	6.0	10.8	8.4
AAQ-4	7.0	9.3	8.2
AAQ-5	8.2	11.4	10.0
AAQ-6	9.1	12.9	10.9
AAQ-7	8.7	13.8	11.0
CPCB NAAQS 2009 for NO_2 – 80 $\mu g/m^3$			

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

FIG 3.6 AMBIENT AIR QUALITY DATA AAQ1

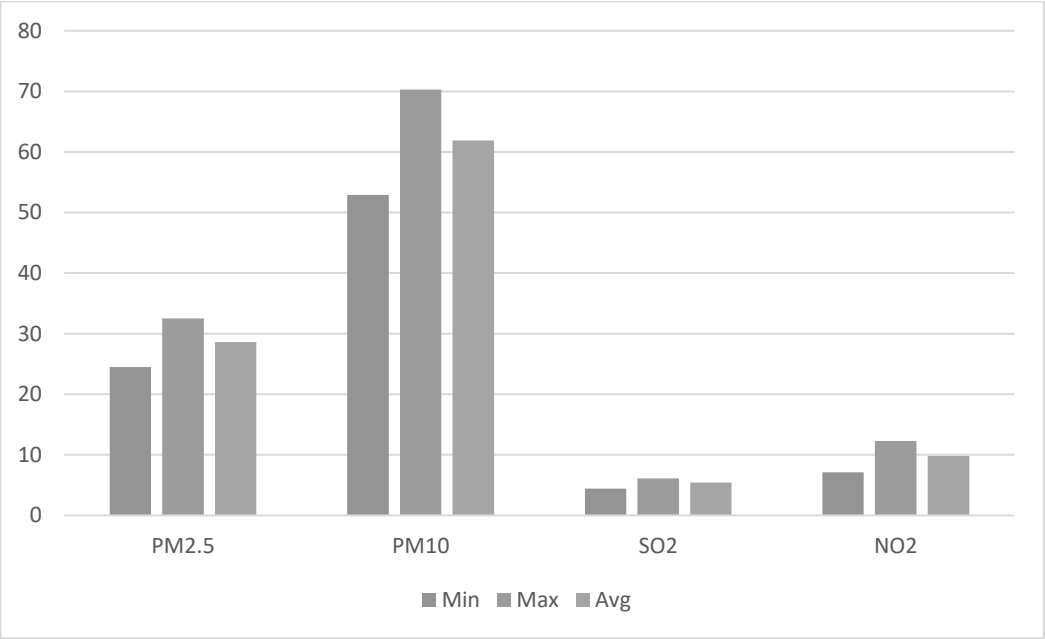


FIG 3.7 AMBIENT AIR QUALITY DATA AAQ2

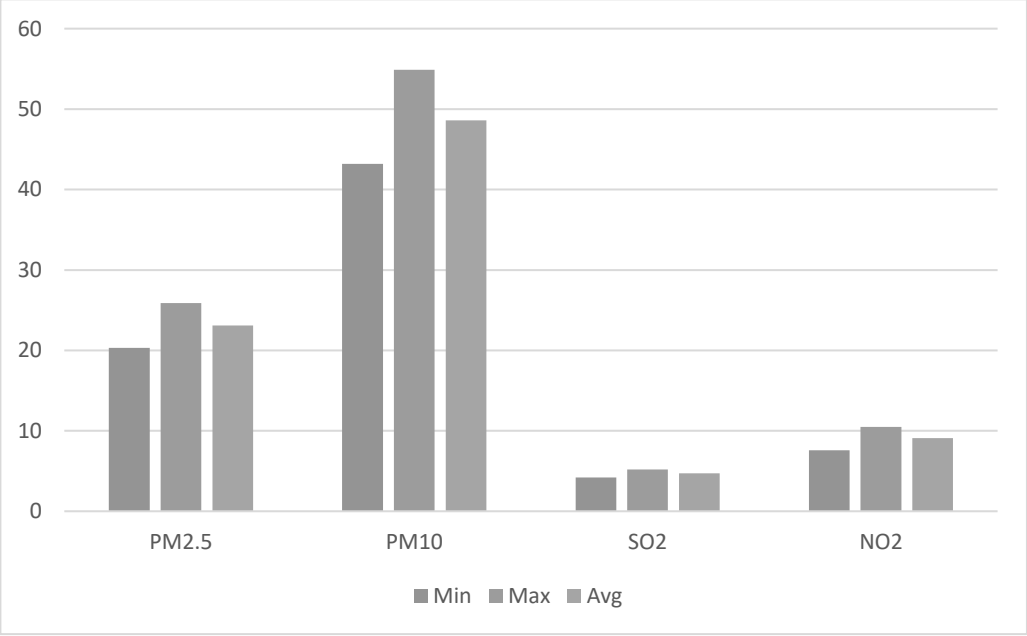


FIG 3.8 AMBIENT AIR QUALITY DATA AAQ3

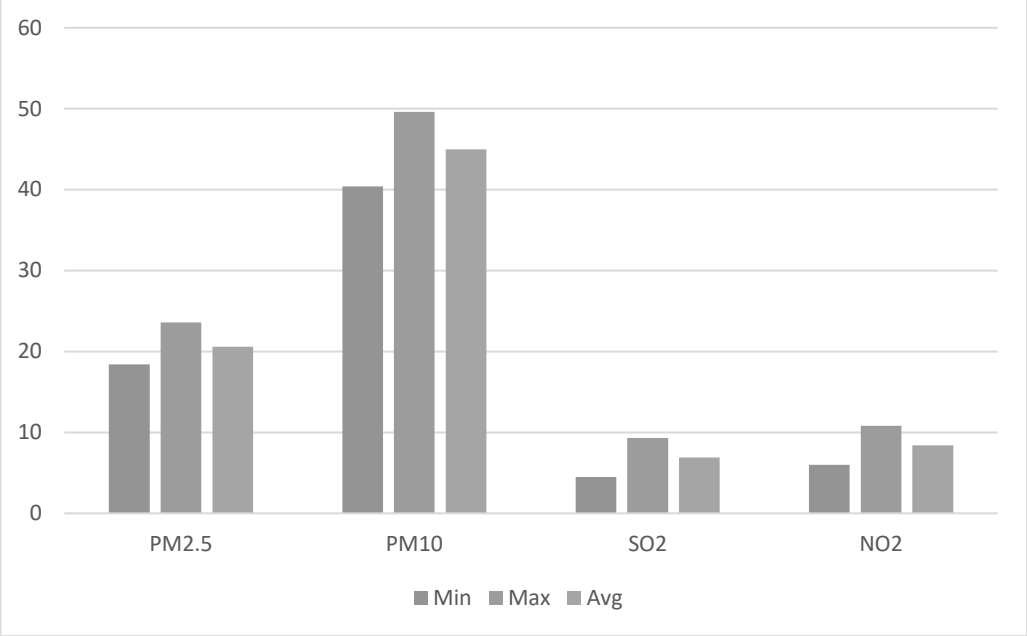


FIG 3.9 Ambient Air Quality DATA AAQ4

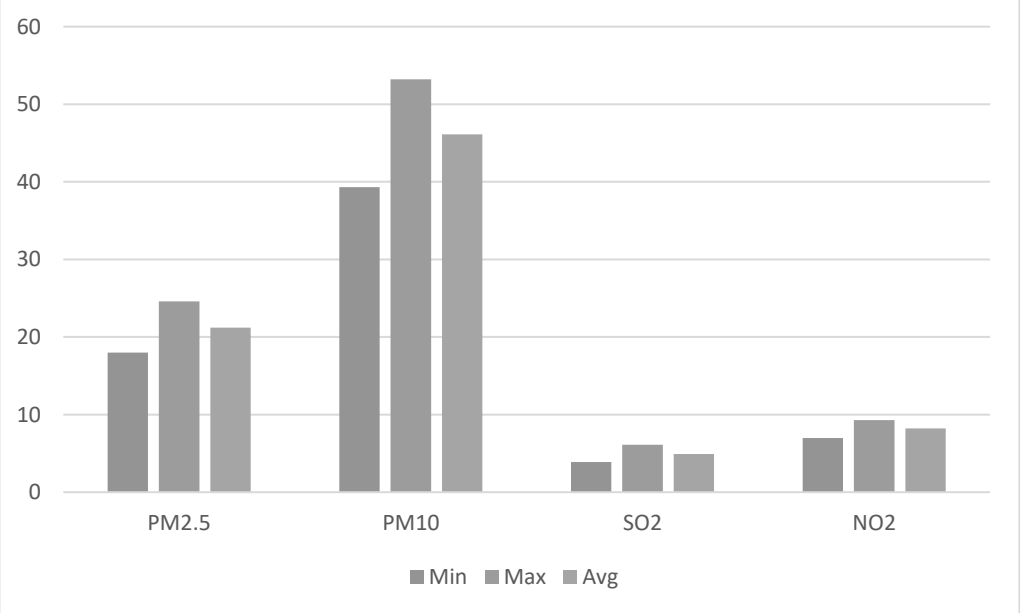


FIG 3.10 AMBIENT AIR QUALITY DATA AAQ5

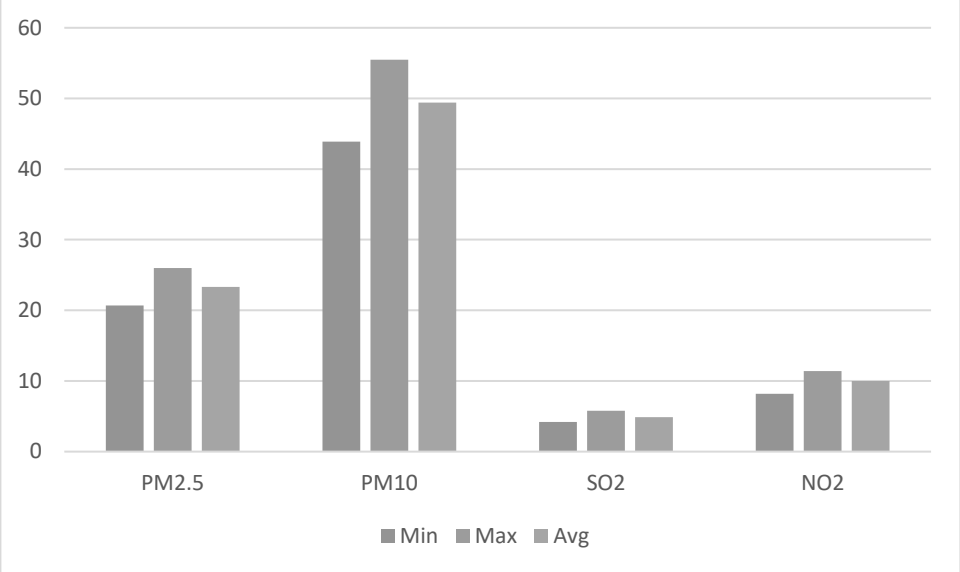


FIG 3.11 AMBIENT AIR QUALITY DATA AAQ6

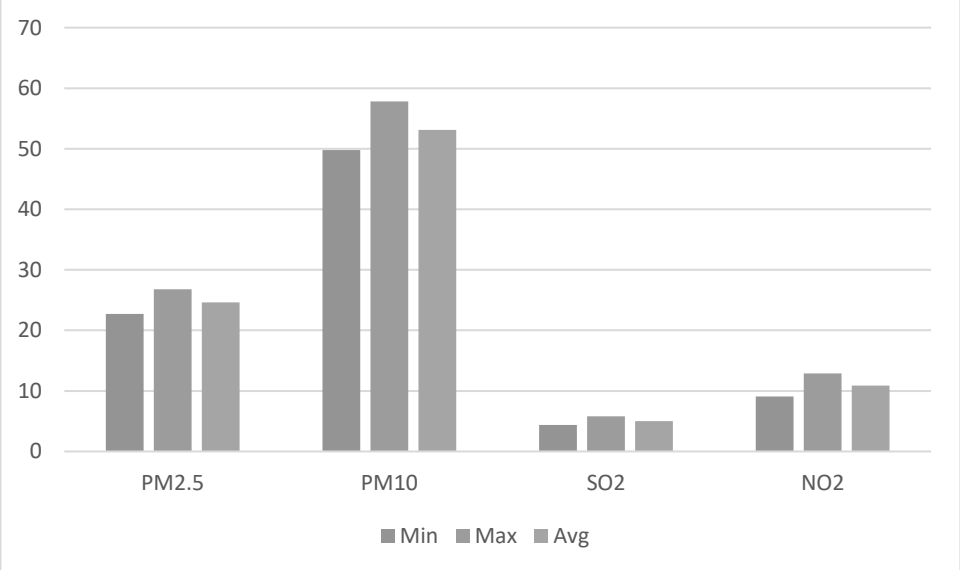
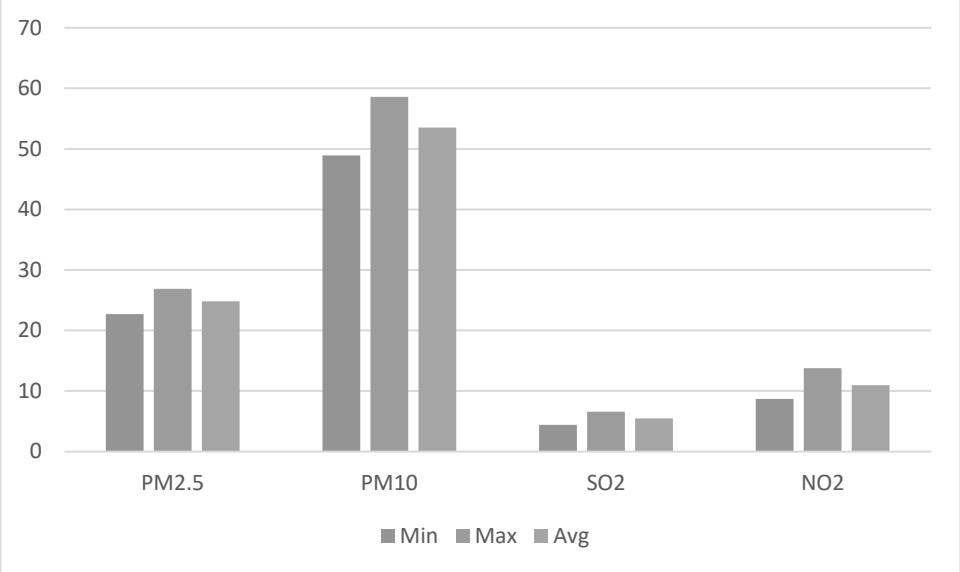


FIG 3.12 AMBIENT AIR QUALITY DATA AAQ7



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

3.6.1 DISCUSSION

From the table it is seen that, in the ambient air, the PM10 values were in the range of 45.0 – 61.9 µg/m3. PM2.5 values were in the range of 20.6 – 28.6 µg/m3. SO2 levels were ranging from 4.7 – 6.9 µg/m3. NO2 levels were ranging from 8.20 – 11.0 µg/m3. While comparing with the NAAQ Norms laid by MoEFCC, all monitored values of PM10, PM2.5, SO2, NO2 & CO were found to be well within the prescribed standards. The CO values in the all locations found to be below detectable limit.

3.7 WATER ENVIRONMENT

Assessment of baseline data on water environment includes:

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

3.7.1 Surface Water

No major river is found nearby the lease applied area.

Water bodies in buffer zone are Seasonal odai – 50m (NW), Seasonal odai – 50m (S), Seasonal odai – 160m (E), Noyyal River-1.49Km (NW), Kaveri River- 4.91Km (N). The area is studded with few tanks that serve as the source for agriculture and also their surplus feeds adjoining tanks. The rainfall over the area is moderate, the rainwater storage in open wells, trenches is in practice over the area and the stored water acts as source of freshwater. The prevailing status of surface water quality has been assessed during the study period. Surface water quality locations and results are provided in Table 3-14 and Figure 3.11.

3.7.2 Ground Water

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

3.7.3 Sampling Locations

Two surface water samples and Seven (7) ground water samples were collected from the study area and were analysed for physio-chemical, heavy metals and bacteriological parameters in order to assess the effect of mining and other activities on water bodies. The samples were analysed as per the procedures specified by CPCB,

IS-10500:2012. The water sampling locations are given in Table 3.5 and shown as Figur3.12.

The monitoring locations were selected based on:

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

Table 3.6 Water Sampling Locations

S.NO	Location Code	Monitoring Locations	Latitude and longitude
Surface Water			
1	SW1	Noyyal River - Upstream	11° 1'58.14"N & 77°53'53.48"E
2	SW2	Noyyal River – Downstream	11° 2'40.27"N& 77°55'0.19"E
Ground Water			
1	GW1	Within Mine Lease area	11° 1'38.20"N & 77°54'48.06"E
2	GW2	Iyampalayam	11° 1'38.28"N & 77°55'45.70"E
3	GW3	Valayapalayam	11° 2'36.50"N & 77°55'4.84"E
4	GW4	Athipalayam	11° 1'32.48"N & 77°54'0.97"E
5	GW5	Andisangilipalayam	10°59'54.73"N & 77°55'58.02"E
6	GW6	Salapudur	11° 3'31.43"N & 77°53'5.28"E
7	GW7	Munnur	10°59'46.18"N & 77°53'18.66"E

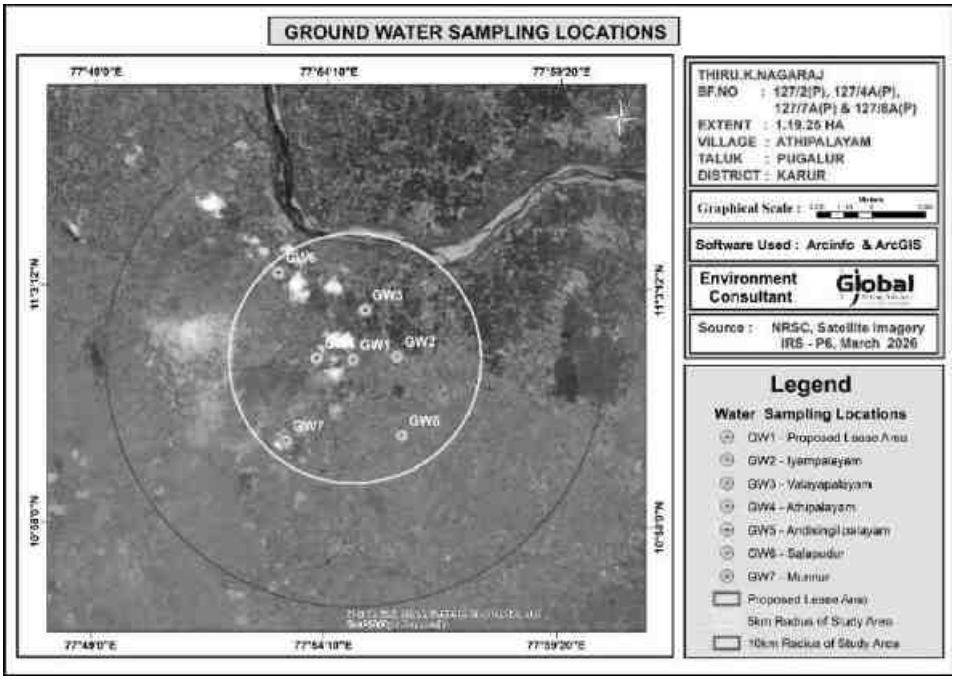


FIG 3.13 BASE MAP OF GROUND WATER SAMPLING LOCATIONS

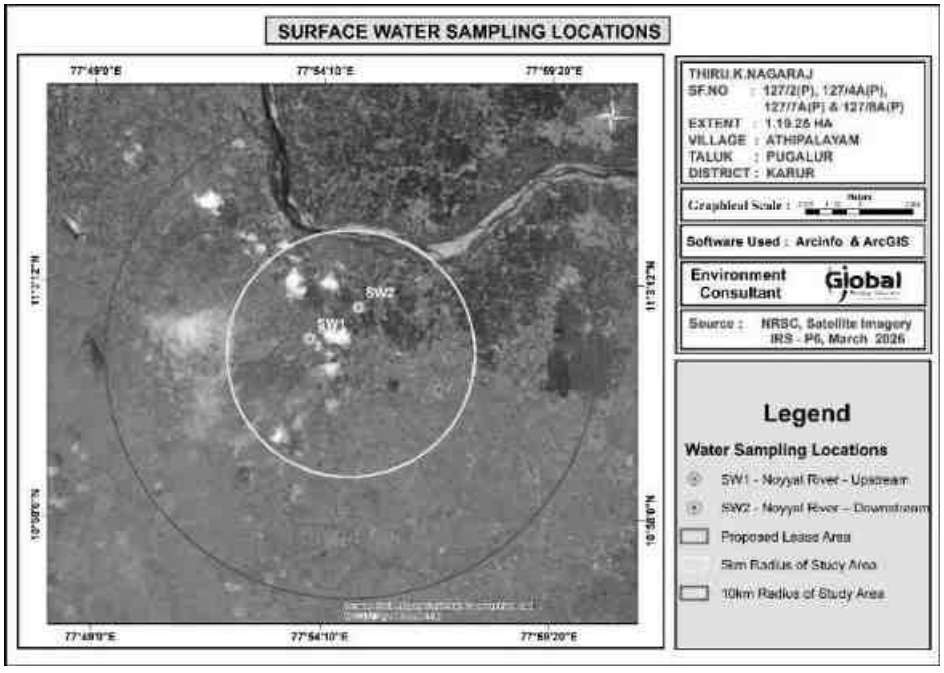


FIG 3.14 BASE MAP OF SURFACE WATER SAMPLING LOCATIONS

Table 3.7 Surface Water Analysis Results

S.No	Parameter	Unit	SW1	SW2	Surface water standards (IS 2296 Class-A)
1	Odour	-	AGREEABLE	AGREEABLE	-
2	Turbidity	NTU	2.4	4.8	1
3	pH at 25 °C	-	7.62	7.85	6.5-8.5
4	Electrical Conductivity	µs/cm	1420	1850	-
5	Total Dissolved Solids	mg/l	880	1450	500
6	Total hardness as $CaCO_3$	mg/l	310	440	-
7	Calcium as Ca	mg/l	73	90.0	300
8	Magnesium as Mg	mg/l	30.7	51.6	-
9	Calcium as $CaCO_3$	mg/l	182	225	-
10	Magnesium as $CaCO_3$	mg/l	128	215	-
11	Total alkalinity as $CaCO_3$	mg/l	245	412	-
12	Chloride as Cl^-	mg/l	256	326	-
13	Free Residual chlorine as Cl^-	mg/l	BDL (D.L - 0.2)	BDL(DL-0.2)	250
14	Sulphates as SO_4^{2-}	mg/l	112	198	400
15	Iron as Fe	mg/l	0.08	0.15	1.0
16	Nitrate as NO_3	mg/l	3.65	4.98	20
17	Fluoride as F	mg/l	0.59	0.63	1.5
18	Manganese as Mn	mg/l	BDL (D.L - 0.05)	BDL(DL-0.05)	0.5
19	TSS	mg/l	12	8	
20	DO	mg/l	6.2	5.8	
21	COD	mg/l	BDL	BDL	
22	BOD	mg/l	BDL	BDL	

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

Table 3.8 Results of Ground Water sampling Analysis in 7 locations								Standards as Per IS 10500: 2012	
Parameter	**W1**	**W2**	**W3**	**W4**	**W5**	**W6**	**W7**	**Acceptable Limits**	**Permissible Limits**
Odour	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	Agreeable	Agreeable
Turbidity	<1	<1.0	<1.0	<1	<1.0	<1	<1	1	5
pH at 25 °C	7.76	7.82	7.78	8.28	7.69	8.34	7.57	6.5- 8.5	No Relaxation
Electrical Conductivity	1293.6	2070.6	1255.8	1076.3	1217	769.1	873.2	-	-
Total Dissolved Solids	778	1242	760	650	732	462	530	500	2000
Total hardness as CaCO3	519	365	347	152	338	229	294	200	600
Calcium as Ca	112	84.8	69.3	29.3	68.0	51.2	73.9	75	200
Magnesium as Mg	57.2	36.8	41.6	19.0	40.3	24.2	26.2	30.0	100
Calcium as CaCO3	280	212	173	73.2	170	128	185	-	-
Magnesium as CaCO3	238	153	173	79	168	101	109	-	-
Total alkalinity as CaCO3	296	483	307	199	305	215	242	200	600
Chloride as Cl-	221	523	116	248	107	137	155	250	1000
Free Residual chlorine as Cl-	BDL (D.L - 0.2)	BDL(DL-0.2)	BDL(DL-0.2)	BDL (D.L - 0.2)	BDL(DL-0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	0.2	1
Sulphates as SO42-	126	332	305	193	294	52.7	57.1	200	400
Iron as Fe	0.07	BDL(DL-0.01)	BDL(DL-0.01)	0.08	BDL(DL-0.01)	0.08	0.07	0.3	No Relaxation
Nitrate as NO3	2.57	4.88	4.08	2.88	3.74	1.56	2.22	45	No Relaxation
Fluoride as F	0.58	0.51	0.46	0.5	0.38	0.47	0.6	1	1.5
Manganese as Mn	BDL (D.L - 0.05)	BDL(DL-0.05)	BDL(DL-0.05)	BDL (D.L - 0.05)	BDL(DL-0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	0.1	0.3

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

FIG 3.15 VALUES OF FEW COMMON PARAMETERS IN GROUND WATER ANALYSIS

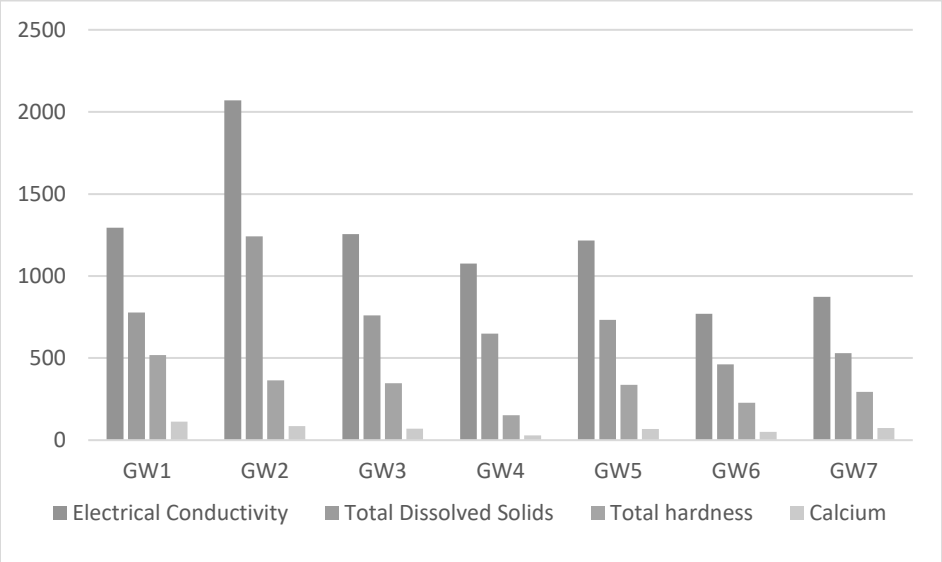
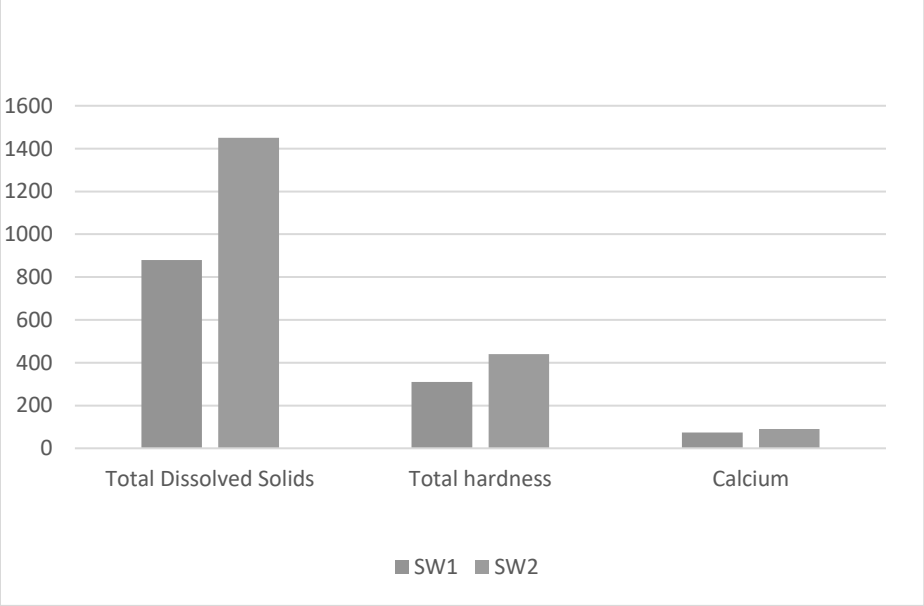


FIG 3.16 VALUES OF FEW COMMON PARAMETERS IN SURFACE WATER ANALYSIS



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

3.7.4 DISCUSSION

Surface Water

The pH varied from 7.62 to 7.85 while turbidity found within the standards (Optimal pH range for sustainable aquatic life is 6.5 to 8.5 pH). Total Dissolved Solids varied from 880 to 1450 mg/l. Chloride varied between 256 mg/l and 326 mg/l. Nitrates varied from 3.65 to 4.98 mg/l, while sulphates varied from 112 to 198 mg/l.

Ground Water

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

As Per the data it has been observed that the pH value varies from 7.57 to 8.34, Chlorides Ranges From 107 - 523 mg/l, Sulphates value found to be between 52.7 - 332 mg/l, Fluoride Ranges low in lease area i.e. 0.38 – 0.6, Hardness varies from 152 – 519 mg/l, and Total dissolved solid 462 – 1242 mg/l. The ground water has been analyzed as per IS10500: 2012 and found to be suitable for drinking purpose. So, the results of chemical and bacteriological analysis of water samples are classified under good class for drinking purpose with respect to total dissolved solids. Total hardness of the samples ranged from soft to moderately hard waters and can be fairly used for drinking. Regular ground water monitoring is suggested as the quality of ground water may fluctuate with groundwater consumption and seasonal variations.

3.8 NOISE MONITORING

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

The noise monitoring locations are given in Fig 3.14.

S.NO	Location Code	Monitoring Locations	Latitude and longitude
1	N1	Within Mine Lease area	11° 1'38.20"N & 77°54'48.06"E
2	N2	Iyampalayam	11° 1'38.28"N & 77°55'45.70"E
3	N3	Valayapalayam	11° 2'36.50"N & 77°55'4.84"E
4	N4	Athipalayam	11° 1'32.48"N & 77°54'0.97"E
5	N5	Andisangilipalayam	10°59'54.73"N & 77°55'58.02"E
6	N6	Salapudur	11° 3'31.43"N & 77°53'5.28"E
7	N7	Munnur	10°59'46.18"N & 77°53'18.66"E

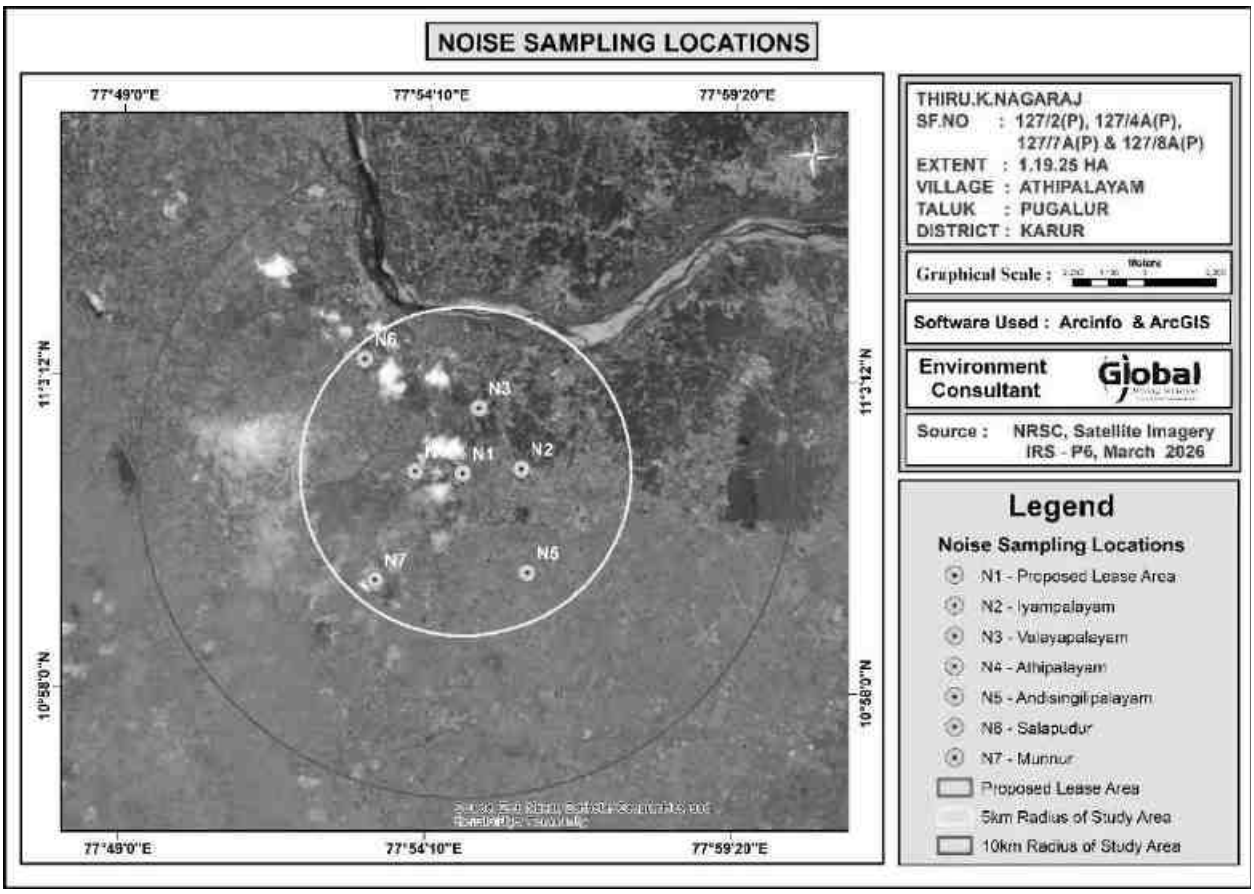


FIG 3.17 BASE MAP OF NOISE MONITORING LOCATIONS

3.8.1 METHOD OF MONITORING

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

3.8.2 NOISE MONITORING RESULT

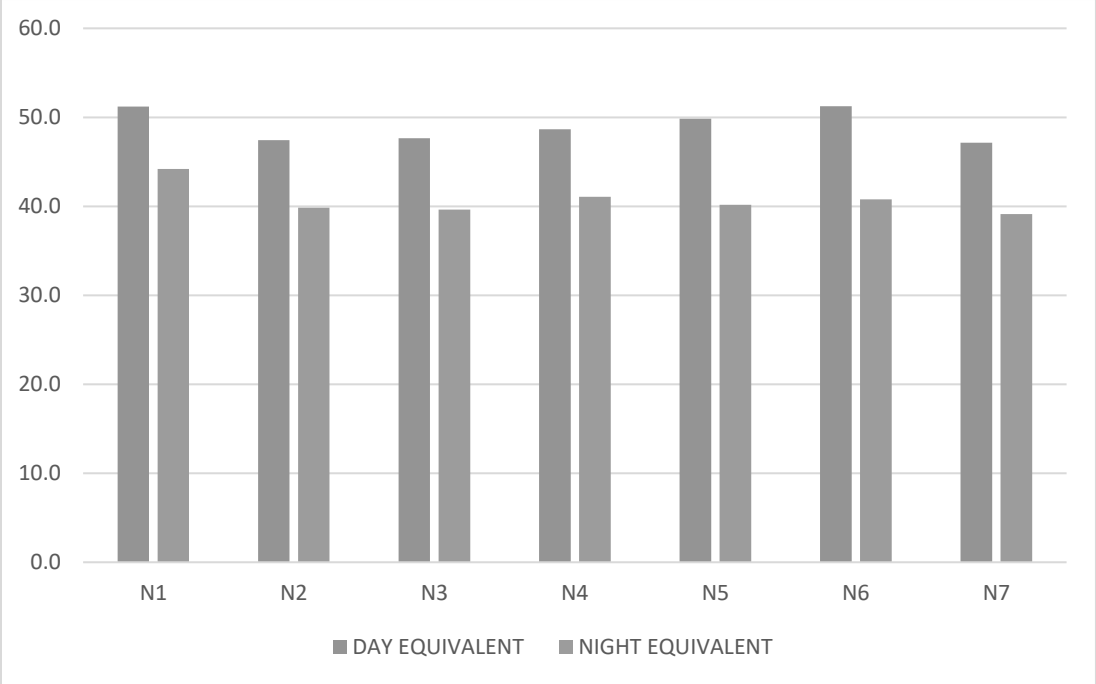
An analysis of the different Leq data obtained during the study period has been made. Variation was noted during the day-time as well as night-time. The results are given in Table below.

Table 3.9 Noise monitoring results

S. No	Location	Day equivalent	Night equivalent	Day equivalent limits by CPCB	Night equivalent limits by CPCB
1	Within Mine Lease area	51.2	44.2	55	45
2	Iyampalayam	47.4	39.8		
3	Valayapalayam	47.6	39.6		
4	Athipalayam	48.7	41.1		
5	Andisangilipalayam	49.9	40.2		
6	Salapudur	51.2	40.8		
7	Munnur	47.1	39.1		

The results are plotted as below.

FIG 3.18 DAY AND NIGHT EQUIVALENT VALUES IN 7 LOCATIONS



All the values are found to be within CPCB norms.

3.7.5 DISCUSSION

From the table it is observed that the day Equivalent Noise (Leq-d) level were ranging from 47.1 to 51.2 dB(A) and Night Equivalent Noise (Leq-n) level were ranging from 39.1 to 44.2 dB(A). Day and Night Equivalent Noise (Leq-n) level were ranging from 45.7 to 49.9 dB(A). While comparing with the MoEFCC Norm of 75 dB(A) for day time and 70 dB(A) for night time in Residential areas, the monitored ambient noise levels are within the limit values.

After commencement of mine operation the anticipated noise level will be 44.2 dB – 51.2 dB in the N1 location. (Project Site). It is very negligible and within the prescribed standards of MoEFCC and DGMS.

3.9 SOIL SAMPLING ANALYSIS

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

3.9.1 MONITORING LOCATIONS

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

S.No	Location Code	Monitoring Locations	Latitude and longitude
1	S1	Within Mine Lease area	11° 1'38.20"N & 77°54'48.06"E
2	S2	Iyampalayam	11° 1'38.28"N & 77°55'45.70"E
3	S3	Valayapalayam	11° 2'36.50"N & 77°55'4.84"E
4	S4	Athipalayam	11° 1'32.48"N & 77°54'0.97"E
5	S5	Andisangilipalayam	10°59'54.73"N & 77°55'58.02"E
6	S6	Salapudur	11° 3'31.43"N & 77°53'5.28"E
7	S7	Munnur	10°59'46.18"N & 77°53'18.66"E

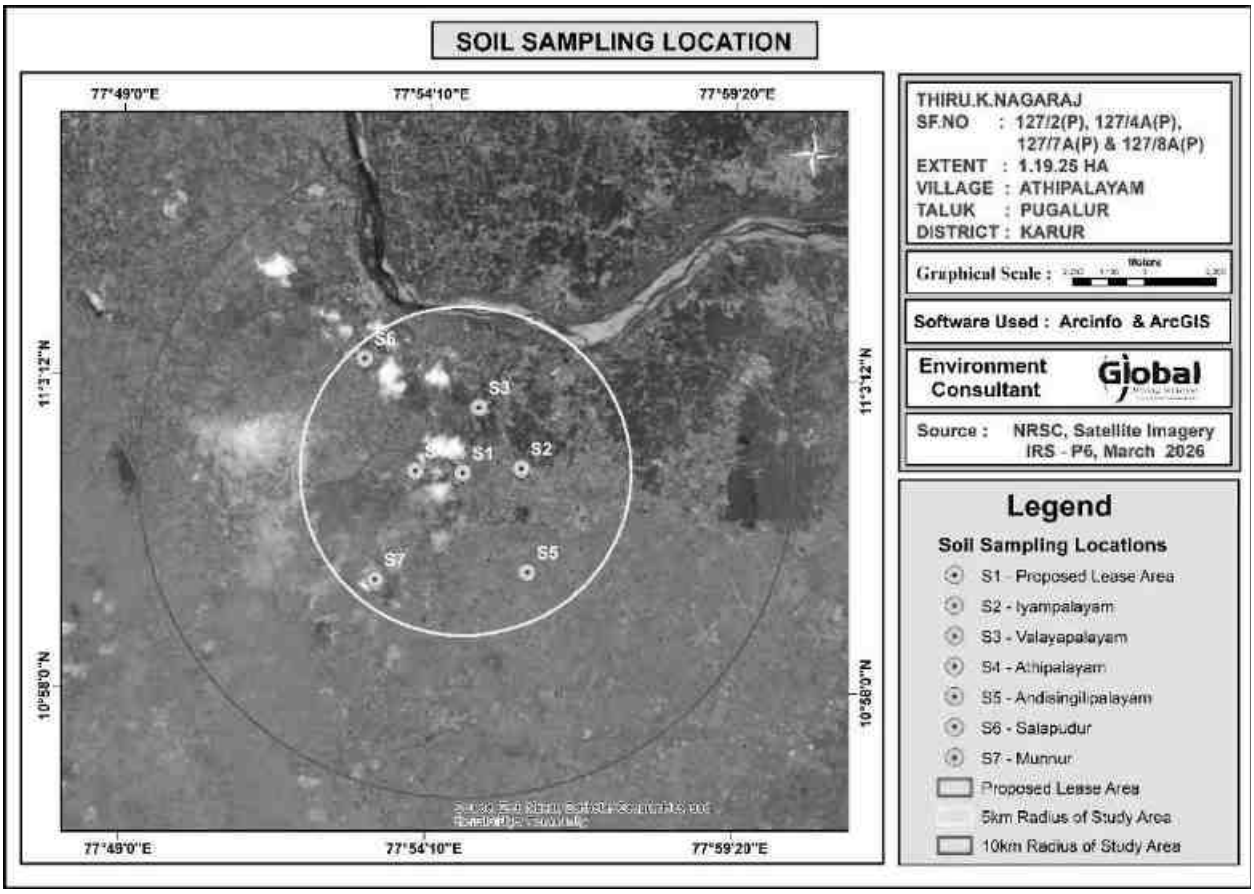


FIG 3.19 BASE MAP OF SOIL SAMPLING LOCATIONS

3.9.2 METHODOLOGY

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

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

The results are summarized in the table below.

Table 3.10 RESULTS OF SOIL SAMPLE ANALYSIS

S.No	Parameter	Unit	S1	S2	S3	S4	S5	S6	S7
1	**PH**	-	8.61	6.66	7.19	6.75	7.12	6.83	7.27
2	**EC**	µmhos/cm	100.47	51.89	172.14	81.12	197.69	69.94	95.65
3	**DRY CONTENT**	%	95.17	96.21	97.21	94.32	92.54	91.76	97.62
4	**WATER CONTENT**	%	4.83	3.79	2.79	5.68	7.46	8.24	2.38
5	**ORGANIC MATTER**	%	0.48	1.28	1.11	0.83	1.11	1	1.4
6	**TOTAL SOLUBLE SULPHATE**	-	BDL(D.L.0.02)	BDL(D.L.0.02)	BDL(D.L.0.02)	BDL(D.L.0.02)	BDL(D.L.0.02)	BDL(D.L.0.02)	BDL(D.L.0.02)
7	**PHOSPHOROUS**	mg/kg	0.92	1.89	2.25	1.42	2.93	3.15	2.55
	TEXTUER	-	SILT LOAM	silty clay	silty clay loam	silt loam	silty clay loam	silt loam	loam
8	**SAND**	%	28.17	9.48	14.15	25.83	14.16	30.79	35.76
9	**SILT**	%	62.03	50.4	50.43	72.33	51.15	56.53	52.53
10	**CLAY**	%	9.80	40.12	35.42	1.84	34.69	12.68	11.71
11	**NITROGEN & NITREGENOUS COMPOUNDS**	mg/kg	362.5	276.7	301	662.5	320.1	233.2	467.5
12	**SODIUM**	mg/kg	811	437	1094	610	1124	367	418
13	**POTASSIUM**	mg/kg	544	689	907	789	937	760	663
14	**Water Holding Capacity**	Inches/foot	43.5	40.3	44.5	42.4	44.5	43.5	44.5
15	**Porosity**	%	20.8	19.3	20.5	18.6	20.8	21	21.4

3.9.3 DISCUSSION

Results of the soil samples show that the pH values were found to be 6.66 to 8.61 and Electrical Conductivity values were ranging between 51.89 – 197.69 µmhos/cm. Soils are generally Silty Loam. Organic matter values were ranging between 0.48 – 1.4 %. Total Nitrogen values were ranging between 233.2 – 662.5 mg/kg. Phosphorus values were ranging between 0.92 – 3.15 µg/g. Potassium values were ranging between 544 – 937 mg/kg. Sodium values were ranging between 367 – 1124 mg/kg.

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

3.10 BIOLOGICAL ENVIRONMENT

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

3.10.1 FLORA

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

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

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

3.10.1.1 FLORISTIC COMPOSITION IN CORE ZONE

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

S.No	Local Name	Scientific Name	Family Name	IUCN Conservation Status
Trees				
1	Kondrai	*Cassia fistula*	Caesalpiniaceae	Not Listed
2	Seetha	*Annona squamosa*	Annonaceae	Not Listed
3	Vembu	*Azadirachta Indica*	Meliaceae	Not Listed
4	Karuvelam	*Vachellia Nilotica*	Fabaceae	Not Listed
Shrubs				
1	Erukku	*Calotropis Gigantea*	Apocynaceae	Not Listed
2	Chundai	*Solanum torvum*	Solanaceae	Not Listed
3	Thuthi	*Abutilon Indicum*	Meliaceae	Not Listed
4	Unnichedi	*Lantana camara*	Verbenaceae	Not Listed
Herbs				
1	Kuppaimeni	*Acalypha indica*	Euphorbiaceae	Not Listed
2	Nelavembu	*Andrographis paniculata*	Acanthaceae	Not Listed
3	Kovakkai	*Trichosanthes Dioica*	Cucurbitaceae	Not Listed
4	Perandai	*Cissus Quadrangularis*	Vitaceae	Not Listed
5	Thumbai	*Leucas Aspera*	Lamiaceae	Not Listed

3.10.1.2 FLORISTIC SCENARIO IN BUFFER ZONE AREA

The present report gives the review of published secondary data and the results of field sampling conducted during December 2025 to February 2026 and there are no forest blocks within 1 km radius of the project site. The detailed ecological assessment of the study area has been carried out and are presented in below Table.

3.10.2 List of Flora

Taxonomically a total of 86 species distributed among 56 families have been recorded from the buffer area. Based on habitat classification of the enumerated plants the majority of species were Trees 34 and herbs 32 followed by Shrubs (15), climbers 5. Details of flora with the scientific name were mentioned in Table No. 3.11.

Table 3.11 List of Flora

S.No	Local Name	Scientific Name	Family Name
	Trees		
1	Lemon	*Citrus limon*	Rutaceae
2	Krishna Fig	*Ficus benghalensis*	Moraceae
3	Karuvelam	*Acacia nilotica*	Fabaceae
4	chokla	*Agalaia elaeagnoidea*	Meliaceae
5	Vagai	*Albizia lebbeck*	Caesalpiniaceae
6	Seetha maram	*Annona Squamosa*	Annonaceae
7	kattu elumichai	*Atalantia monophyla*	Rutaceae
8	Vaeppa maram	*Azadirachta indica*	Meliaceae
9	vazhai	*Musa paradisiaca*	Musaceae
10	Guava	*Psidium gujava*	Myrtaceae
11	Karuvali	*Cassine glauca*	Celastraceae
12	Naruvizhi maram	*Cordia monoica*	Boraginaceae
13	Kattunochchi	*Debregaesia velutina*	Urticaceae
14	Neruppu Kondrai	*Delonix regia*	Minosaceae
15	Nagai	*Syzygium cumini*	Myrtaceae
16	mull kalyanamurungai	*Erythrina stricta*	Fabaceae
17	Kallichi	*Ficus microcarpa*	Moraceae
18	atti	*Ficus racemosa*	Moraceae
19	Kattarasu	*Ficus tomentosa*	Moraceae
20	Kambimaram	*Gardenia resinifera*	Rubiaceae
21	Kumalaa maram	*Gmelina arborea*	Verbenaceae
22	Tambachi	*Holoptelea integrifolia*	Ulmaceae
23	Kunnancholai	*Mallotus Philippensis*	Euphorbiaceae
24	Peyimurungai	*Moringa concanensis*	Moringaceae
25	Malaithekku	*Premna tomentosa*	Verbenaceae
26	Peymiratti	*Schefflera stellata*	Araliaceae
27	Thaan-dri kaai	*Terminalia bellirica*	*Bahera*

	Shrubs		
1	Seethaatthazhai	*Acalypha fruiticosa*	Euphorbiaceae
2	peyimarutti	*Anisomeles malabarica*	Lamiaceae
3	Barleria paniculata	*Barleria tomentosa*	Acanthaceae
4	Turatti	*Capparis divaricate*	Capparidaceae
5	Sirukilaa	*Carissa spinarum*	Apocynaceae
6	Kodikalai	*Carmona retusa*	Boraginaceae
7	Virali	*Dodonaea viscosa*	Sapindaceae
8	Manjal Thutthi	*Hibiscus vitifolia*	Malvaceae
9	Karuppu avuri	*Indigofera longiracemosa*	Fabaceae
10	Velimungil	*Justicia betonica*	Acanthaceae
11	Sirunelli	*Phyllanthus polyphyllus*	Euphorbiaceae
12	Ottu Pullu	*Triumfetta pentandra*	Tiliaceae
	Herbes		
1	Kuppaimeni	*Acalypha indica*	Euphorbiaceae
2	perumpeelai	*Aerva persica*	Amaranthaceae
3	Katthaalai	*Aloe vera*	Agavaceae
4	Nilaccurunki	*Biophytum sensitivum*	Oxalidaceae
5	Nattai-churi	*Borreria pusilla*	Rubiaceae
6	Malaiyavarai	*Cassia hirsute*	Caesalpiniaceae
7	Cuvarnaciri Taivelai	*Cleome felina*	Caryophyllaceae
8	korai kizhangu	*Cyperus rotundus*	Cyperaceae
9	Karungurundhu	*Dicliptera cuneata*	Acanthaceae
10	Chinnammanpacharisi	*Euphorbia thymifolia*	Euphorbiaceae
11	Narina	*Indigofera cassioides*	Fabaceae
12	Nai Tulasi	*Ocimum canum*	Lamiaceae
13	Water peper	*Polygonum hydropiper*	Polygonaceae
	Climbers		
1	Mudakathan	*Cardiospermum halicacabum*	Sapin

2	Kattuppirantai	*Cayratia trifoliata*	Vitaceae
3	Pirantai	*Cissus bicolr*	Vitaceae
4	Kovai	*Coccinia indica*	Cucurbitaceae
5	Iviralkovai	*Diplocyclos palmatus*	Cucurbitaceae
6	Adambu	*Ipomoea pescarpae*	Convolvulaceae
	Grasses		
1	bread grass	*Brachiaria remota*	Poaceae
2	feather fingergrass	*Chloris dolichostachya*	Poaceae
3	spear grass	*Heteropogon contortus*	Poaceae

3.10.4 LIST OF FAUNA

A total of 52 species belonging were recorded in the buffer zone. Based on habitat classification the majority of species were 25 Aves, followed by 11 Reptiles, 8 Mammals, 5 Fishes and 3 Amphibians. The list of fauna within the study area is given in Table No – 3.12.

Table 3.12 List of Fauna

S.No	Common name	Scientific name	Family	IUCN / WPA schedule
MAMMALS				
1	Indian Palm squirrel	Funambulus palmarum	Squirrel	IV
2	Hare	Lepus nigricollis	Leporids	IV
3	House rat	Rattus rattus	Murids	IV
4	Mannuli paambu	Eryxjohni	Boidae	-
5	Indian Grey Mongoose	Herpestes edwardsii	Mongoose	IV
6	Field mouse	Rattus norvegicus	Murids	IV
7	Rusty spotted Cat	Felis rubiginosa	Felidae	IV
REPTILES				
1	Common Garden lizard	Calotes versicolor	Agamid lizards	IV
2	Rough tailed Sand boa	Gongylophis conicus	Boidae	IV

3	Indian Cobra	Naja naja	elapid snakes	II
4	Indian mud turtle	Lissemys punctate	Softshell turtles	IV
5	Common Green Snake	Passerita mycterizaris	Colubrid Snakes	IV
6	Common rat snake	Ptyas mucosus	Colubrid Snakes	II
BIRDS				
1	Grey Partridge	Francolinus pondicerianus	Phasianidae	IV
2	Indian Ring Dove	Streptopelia decaocto	Pigeons and doves	IV
3	Red collared dove	Streptopelia tranquebarica	Pigeons and doves	IV
4	Astur badius	Shikra	Accipitridae	IV
5	Black Drongo	Dicrurus macrocerus	Drongos	IV
6	House Sparrow	Passer domesticus	Sparrow	IV
7	Weaver bird	Ploceus Philippines	Ploceidae	IV
8	Rose Ringed Parakeet	Psittacula krameria	Parrots	IV
9	Little egret	Egretta garzetta	Heron	IV
10	Redvented BulBul	Pycnonotus cafer	Bulbul	IV
FISH				
1	Common carp	Cyprirus earpio	Minnows and Carps	IV
2	Tilapia	Oreochromis mossambicus	Cichlid	IV
3	Carplet	Amblypharyngodon Sp	Cyprinidae	IV
4	Trout	Chela sp	-	IV
5	Punctatus	Ophiocephalus	Snakehead	IV

The core zone of the area is Consent Patta land, No forest land is involved in the project area. The proposed quarry area is covered by thorny bushes. There is no Wild Life Sanctuary or National Park within the study area of 10km. There is no schedule I species of animals observed within study area as per Wildlife Protection Act 1972

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

3.11 LAND USE

3.11.1 Remote Sensing Satellite Data Used for the Study

For Land-use and land cover study, sensing satellite data of Geo EYE has been used as per Figure No. 1. A land use map showing 10 Km radial distance. The geographical coordinates of the project are Latitude :11°06'48.41"N to 11°06'52.70"N Longitude:78°50'48.24"E to 78°50'53.13"E.

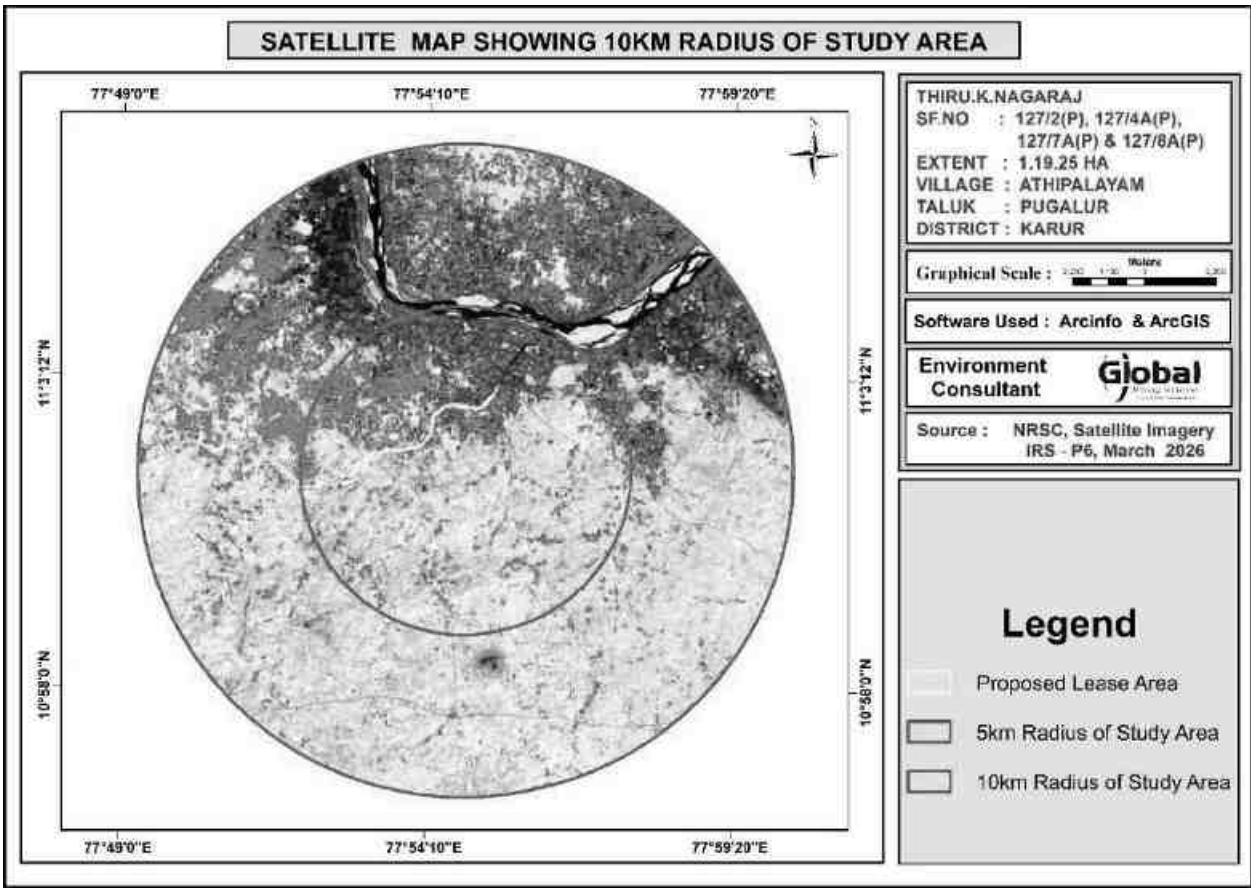


FIG 3.20 REMOTE SENSING SATELLITE IMAGE

Selection of remote sensing satellite image (RSI) is on the availability of cloud free data and interpretability of predominant landuse and land cover (LULC) category. The examination of satellite data showed that the region is always covered by clouds with lesser percentage during summer due to cluster habitation. But rained crops are cultivated during southwest monsoon and hence a data acquired during first onset of precipitation is preferred so as to delineate crop and fallow land parcels of agricultural category. Delineation of scrub land is also possible since land with scrub could be easily distinguished from crop vegetation and separated. This may be an arduous task during monsoon since the entire area would be witnessed with sudden sprout of lush natural vegetation, mostly *prosopis*, with first onset of precipitation.

3.11.2 Methodology Adopted for the Land Use Study

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

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

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

Using the image elements such as color, tone, texture, size, shape and associated elements various landuse units are delineated following the categorization and nomenclature adopted for the national level landuse classification system as recommended by National Remote Sensing Centre (NRSC), Department of Space,

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

3.11.3 Field Verification

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

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

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

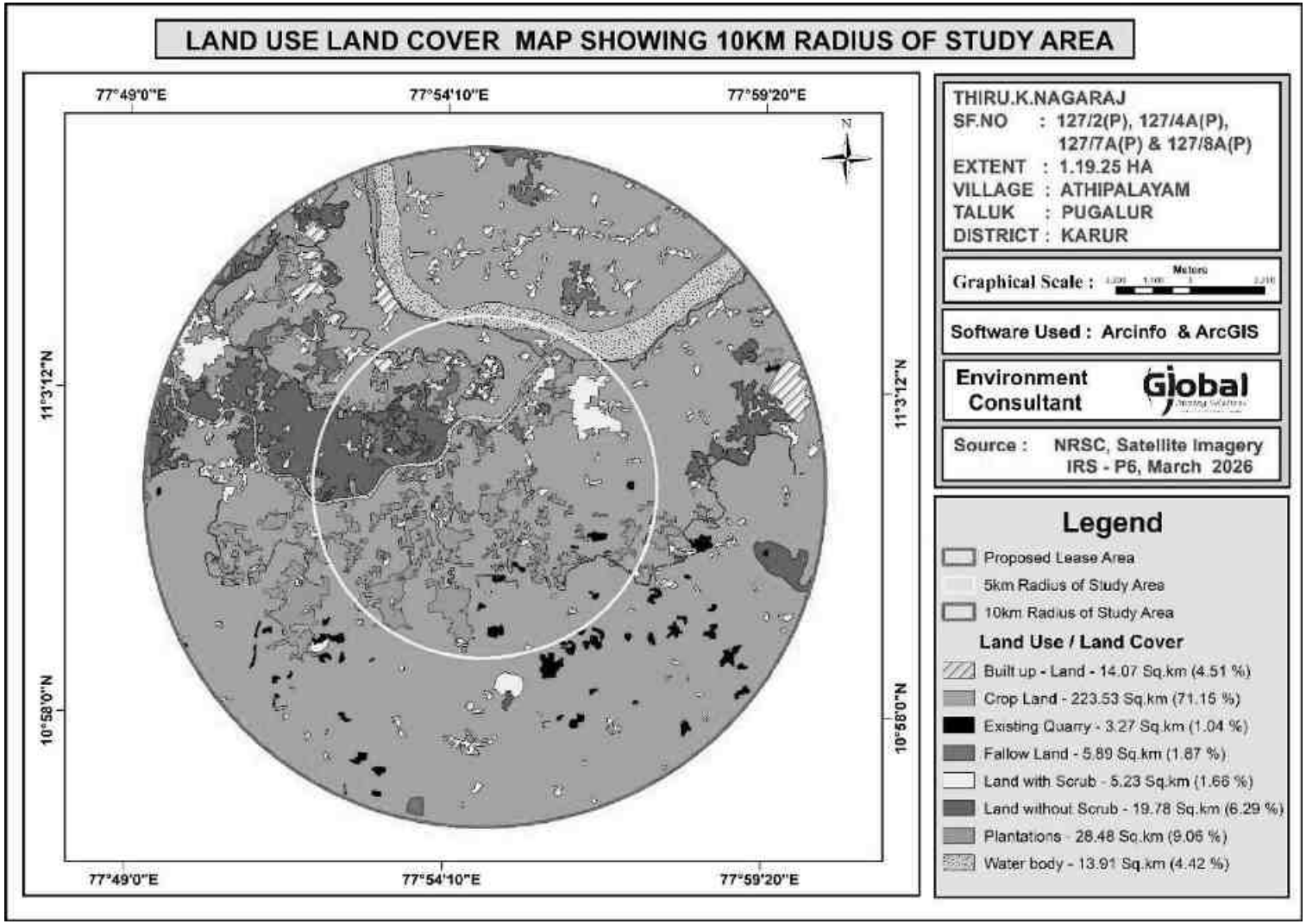
3.11.4 Land Use Pattern of 10 km Radial Buffer Area of Project Site

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

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

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

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



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

Built-up / Settlements

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

Interpretation of settlement from the satellite image is based upon the image elements such as color, tone, texture and association. It is delineated by their typical red color. Association with linear features such as roads reaffirmed the presence of delineation of settlements. The spatial extent of settlement is estimated as 14.07 sq.km representing 4.51 % of the study area.

Agricultural Land

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

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

category estimated at 223.53 Sq.km representing 71.15 % of the buffer area.

Wasteland

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

Next to agricultural area, natural vegetation such as land with scrub forms the predominant LULC category of the buffer area. Land with scrub is sparse and delineated as patches scattered in all the parts of the buffer area. The spatial pattern of scrub suggests it is closely associated with water courses. This category occupies land with scrub an area of 5.23 sq.km representing 1.66 % of the total core and buffer area.

Land without scrub, on the other hand is interpreted using brown to white color, medium tone and medium texture and is generally restricted around land covered with scrub and fallow land. They occur as small patches and very minimal area covering 19.78 sq.km representing 6.29 % of the buffer area.

Water bodies

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

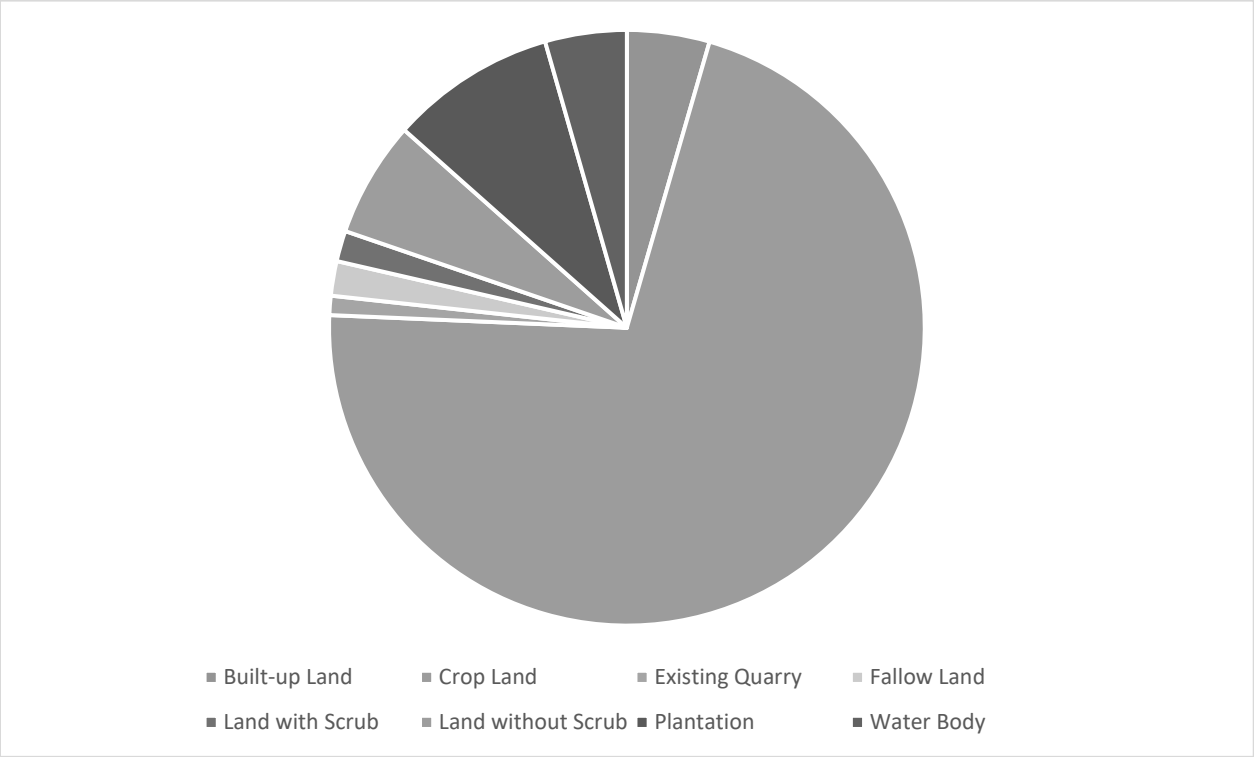
Most of the water bodies retain water for a shorter period after precipitation due to the soil constraint and hence go dry soon. Spatial extent of rivers, stream and water bodies is estimated at 13.91 sq.km and 4.42 %.

Mining area

Mining area seen in the study area distributed all over the study area. Major domestic income from mining business. Spatial extent of mining is estimated at 3.27 sq.km 1.04 %.

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

S. No	1st Level Classification	Area in (sq.km)	Percentage (%)
1	Built-up Land	14.07	4.51
2	Crop Land	223.53	71.15
3	Existing Quarry	3.27	1.04
4	Fallow Land	5.89	1.87
5	Land with Scrub	5.23	1.66
6	Land without Scrub	19.78	6.29
7	Plantation	28.28	9.06
8	Water Body	13.91	4.42
Total		**314.16**	**100.0**



3.12 SOCIOECONOMIC ENVIRONMENT

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

- Demographic pattern.
- Health pattern
- Occupational structure.

3.12.1 DETAILS OF VILLAGES

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

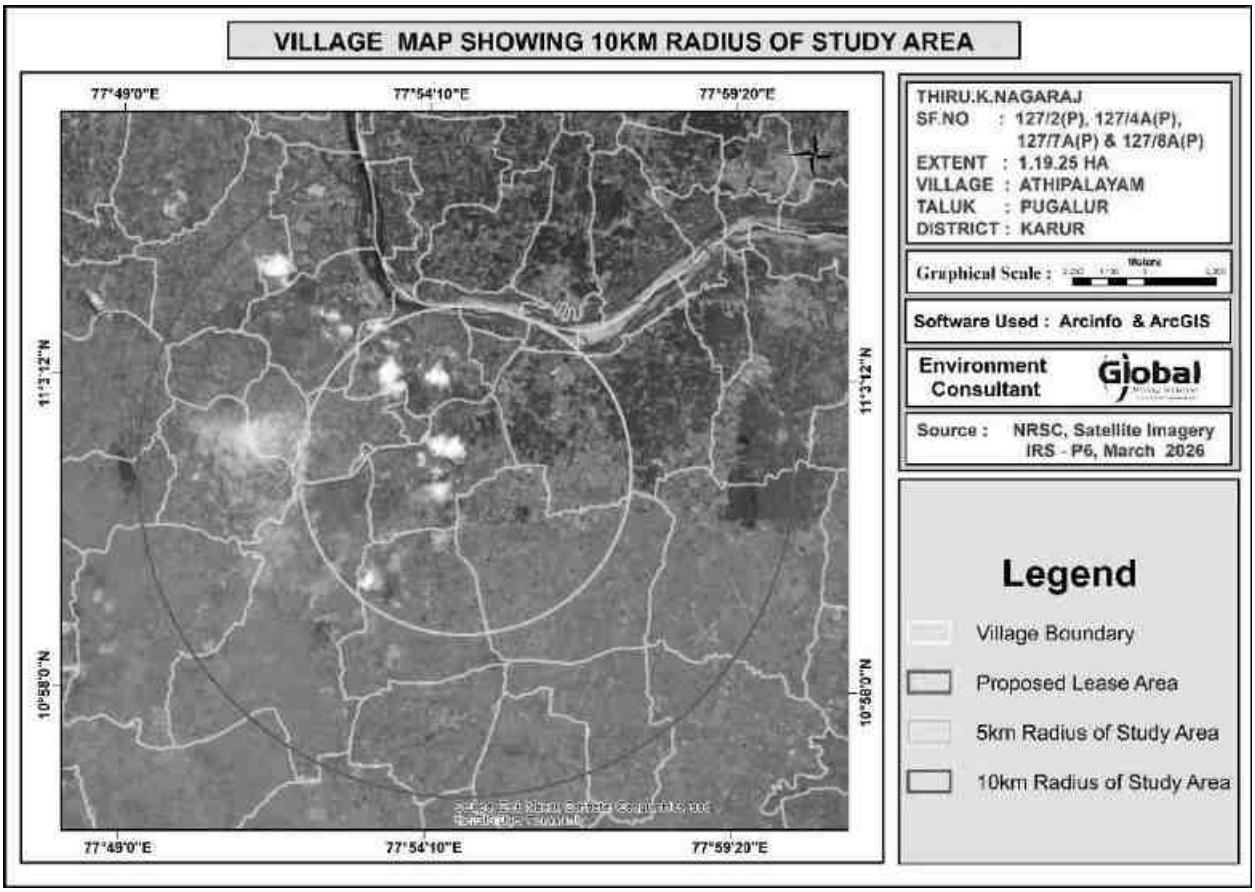


FIG 3.22 VILLAGE MAP OF THE STUDY AREA

The project is located in **Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu**. As per the Census 2011, Athipalayam Village has a total population of **2,062 persons**, comprising **1,014 males** and **1,048 females**. The village contains **730 households** and is administered through the Athipalayam Gram Panchayat.

Table 3.17 Population profile of the study area

Particulars	No. of Population	Percentage (%)
A. Population Break-up by Gender		
Male Population	528,184	49.62
Female Population	536,309	50.38
Total Population	1,064,493	100.00
B. Population Break-up by Social Category		
Scheduled Caste (SC)	221,385	20.80
Scheduled Tribe (ST)	575	0.05
Others	842,533	79.15
Total Population	1,064,493	100.00
C. Literacy Level		
Literate Population	727,044	68.30
Illiterate Population	337,449	31.70
Total Population	1,064,493	100.00
D. Occupational Structure		
Main Workers	5,08,507	47.77
Marginal Workers	34,791	3.27
Total Workers	5,43,298	51.04
Non-workers	5,21,195	48.96
Total Population	**1,064,493**	**100.00**

Table 3.18 Population profile – Athipalayam Village		
Particulars	**No of Population**	**Percentage (%)**
A. Population break-up by Gender		
Male Population	1,014	49.18
Female Population	1,048	50.82
Total	**2,062**	**100**
B. Population break-up by Caste		
Scheduled Caste	**762**	36.95
Scheduled Tribes	**0**	0
Others	1,300	63.05
Total	**2,062**	**100**
C. Literacy Level		
Literate Population	1,271	61.64
Illiterate Population	791	38.36
Total	**2,062**	**100**
D. Occupational structure		
Main workers	1,309	63.48
Marginal workers	63	3.06
Total Workers	1,372	66.65
Total Non-workers	690	33.46
Total	**2,062**	**100**

3.12.2 INFRASTRUCTURE FACILITIES IN THE STUDY AREA

Education

Table 3.19 Educational infrastructure -10 km radius from proposed mine lease		
S. No.	**Particulars**	**Available in village (Nos)**
1	Govt. Primary School	22
2	Govt. Middle School	12
3	Govt. Secondary School	20
4	Govt. Senior Secondary School	36
5	Govt. Arts and Science Degree College	42
6	Govt. Engineering College	0
7	Govt. Medicine College	0
8	Govt. Management Institute	0
9	Govt. Polytechnic	0
10	Govt. Vocational Training School/ITI	0

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

Healthcare

In the study area, the following facilities are available.

Table 3.20 Medical Infrastructure-10 km radius from proposed mine lease		
S.No.	**Particulars**	**Available in village (Nos)**
1	Community Health Centre	9
2	Primary Health Centre	8
3	Primary Health Sub Centre	13
4	Maternity and Child Welfare Centre	8
5	TB Clinic	5
6	Hospital Allopathic	0

Other Infrastructure

The other infrastructure facilities available are given below.

Table 3.21 Other Infrastructure-10 km radius from proposed mine lease		
S.No.	**Particulars**	**Available in village**
1	Tap Water-Treated	24
2	Covered Well	27
3	Hand Pump	27
4	Tube Wells/Borehole	23
5	Post office	39
6	Public bus services	22
7	Commercial Bank	38
8	Cooperative bank	36

Sample Survey

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

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

3.13 HYDROGEOLOGY OF THE STUDY AREA

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

3.13.1 HYDROGEOLOGICAL STUDY

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

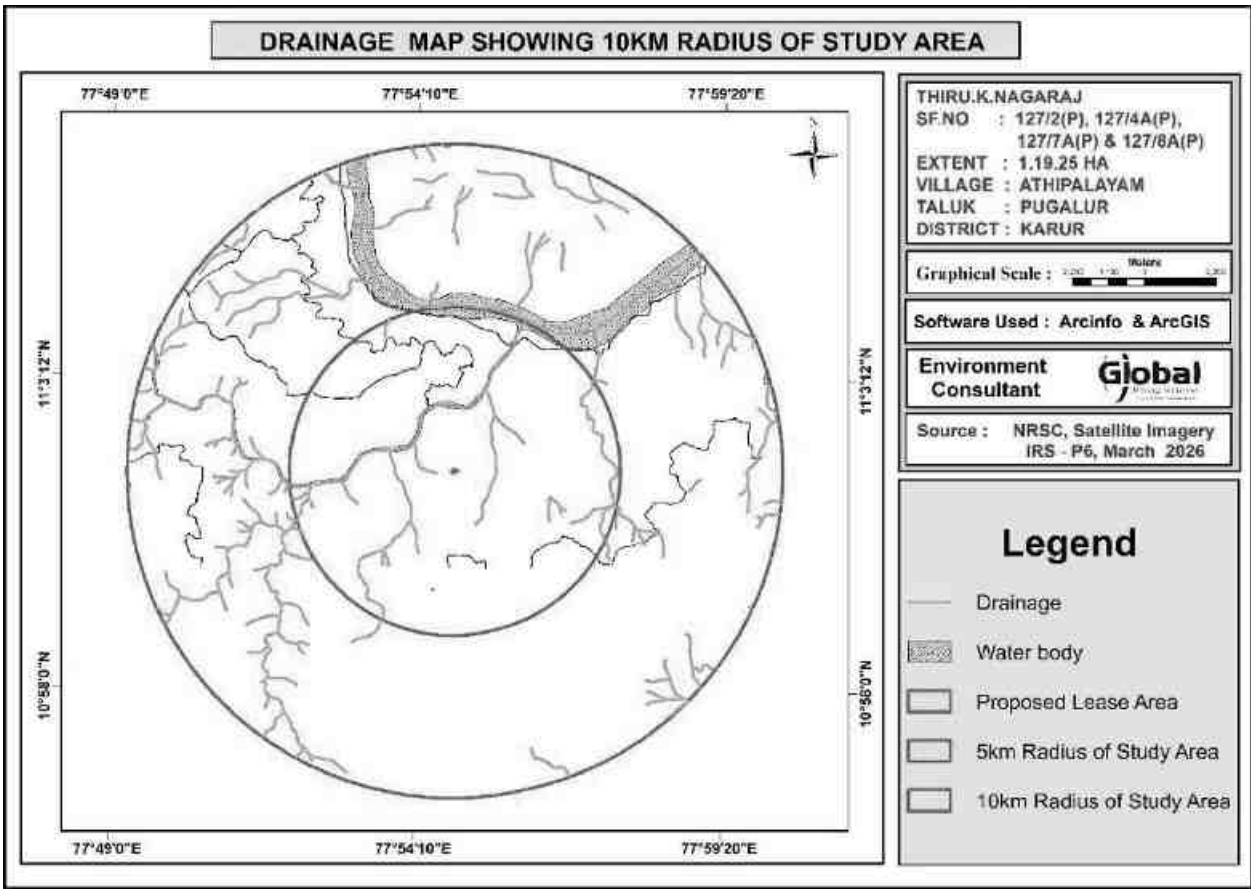


FIGURE 3.23 10 KILOMETER RADIUS OF THE DRAINAGE MAP

3.13.2 PHYSIOGRAPHY AND DRAINAGE

Physiography: The area applied for quarry lease is exhibits hilly terrain covered by top soil formation. The massive Charnockite formation is noticed below 1m (Avg) Topsoil and sloping towards southeast side of the area, the altitude of the area is above 172m (maximum) from MSL.

Drainage: The drainage pattern study reveals that from the proposed mine lease area with around 1 Km radius and 10 Km study observed in Figure 3.20. the major water bodies in buffer zone are Seasonal odai – 50m (NW), Seasonal odai – 50m (S), Seasonal odai – 160m (E), Noyyal River-1.49Km (NW) , Kaveri River- 4.91Km (N).

3.13.3 GEOLOGY, GEOMORPHOLOGY AND SOIL

Geology: Geologically in Karur district is characterized by a combination of ancient crystalline hard rocks and younger sedimentary formations. The western part of the district is dominated by hard rocks such as granitic gneiss, hornblende gneiss, and charnockite, with intrusions of dolerite dykes and pegmatites. These rocks are highly metamorphosed and have undergone intense folding, faulting, and crushing.

About 75% of the district is covered by sedimentary formations, including:

- Upper Gondwana deposits
- Cretaceous formations
- Tertiary formations
- Recent alluvial deposits

The Upper Gondwana Formation occurs as a thin southern fringe and consists mainly of clay and sandstone resting on hard rock basement.

The Cretaceous Formation, deposited under marine conditions, includes the Uttatur, Ariyalur, and Ninniyur stages. These formations comprise shales, clay, limestone, argillaceous limestone, coral limestone, and shell limestone.

The Tertiary (Miocene–Pliocene) formations consist of sandstone, gravelly sand, clay, lignite seams, and pebble beds. The presence of lignite layers indicates periods of marine regression.

Recent alluvial deposits occur mainly along the courses of the Coleroon River, Marudaiyar River, and Vellar River. These deposits are composed of medium- to coarse-grained sediments and fine floodplain materials. The Quaternary alluvium overlies both Archaean crystalline rocks and Cretaceous formations, particularly in Pugalur Taluk. It lies within the central part of Karur district and

is influenced predominantly by the district's hard-rock terrain and associated alluvial deposits. The underlying geology is mainly composed of Archaean crystalline rocks, especially granitic gneiss and charnockite formations, which serve as the basement rocks. In areas adjacent to river systems, these rocks are overlain by younger alluvial deposits consisting of sand, silt, and gravel.

The geological framework of Pugalur Taluk contributes significantly to groundwater occurrence, soil development, and land-use patterns, with weathered and fractured hard rocks forming the principal groundwater-bearing zones.

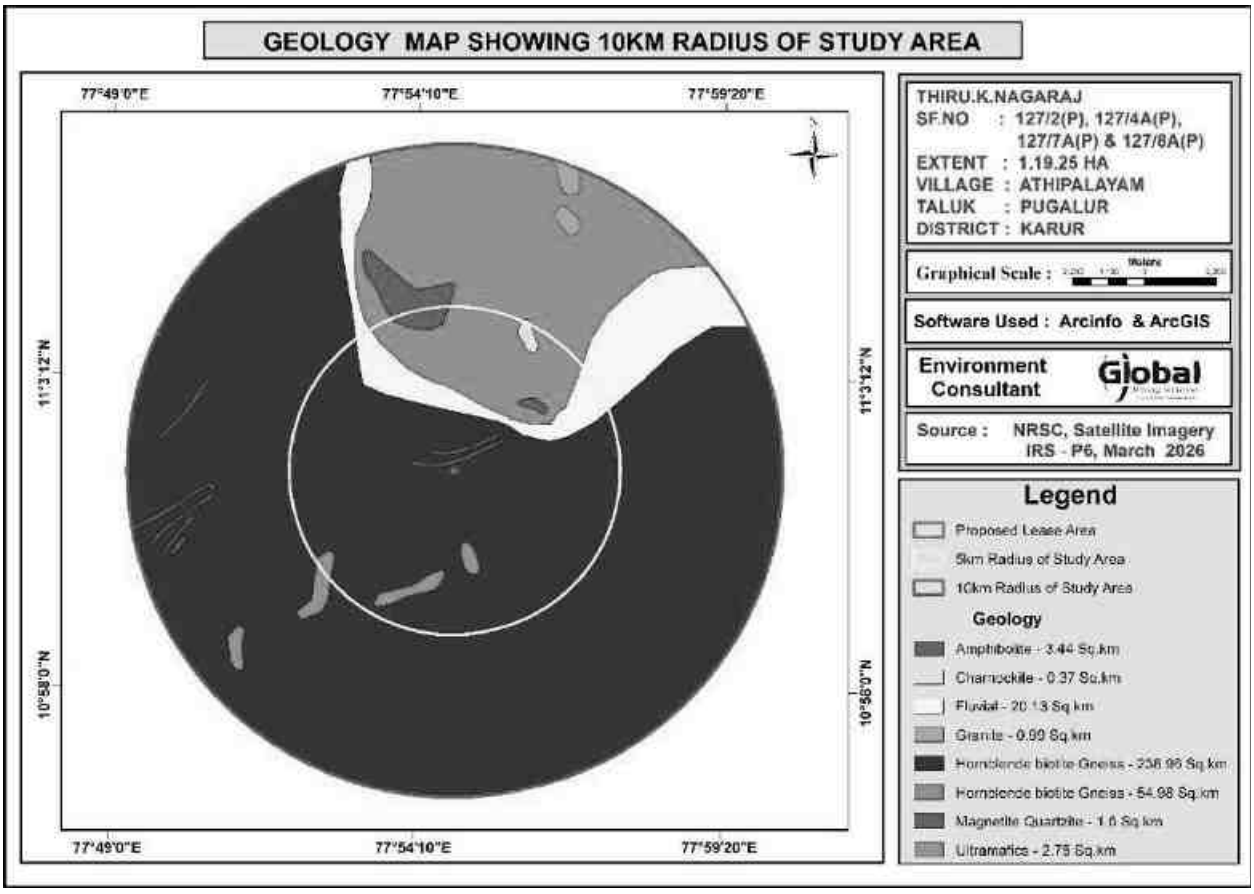


FIGURE 3.24 10 KILOMETER RADIUS OF THE GEOLOGY MAP

Geomorphology: The Core and 10 Km buffered zone geomorphological features (Figure 3.24) shows that the district is pediment pediplain complex, western, southern and eastern part of the district are covered by moderately dissected denudational hills & valley. The area is falls under moderately dissected structural hills & valley. The water bodies are through the district. The most of the lineament are trending in NNE-SSW direction, while geomorphic lineaments are trending in E-W direction. The study area falls Moderately denudational hills and valleys, Pediment pediplain complex, Moderately dissected structural hills and valleys, low dissected structural hill and valleys. Predominantly the buffer zone is dominated by Shallow Weathered buried Pediplain, and the lease area falls under Pediment - Inselberg Complex. Geomorphology of the study area is detailed below figure.

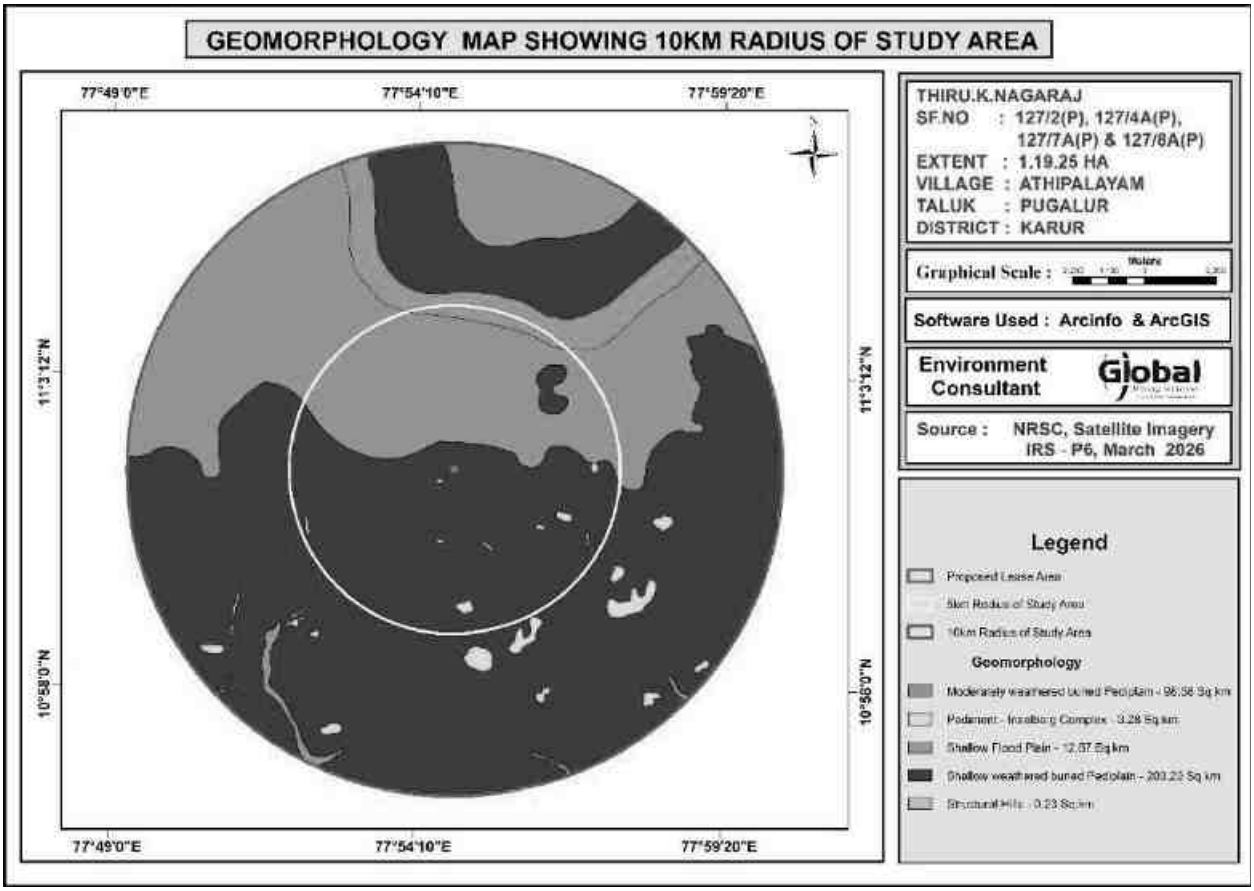
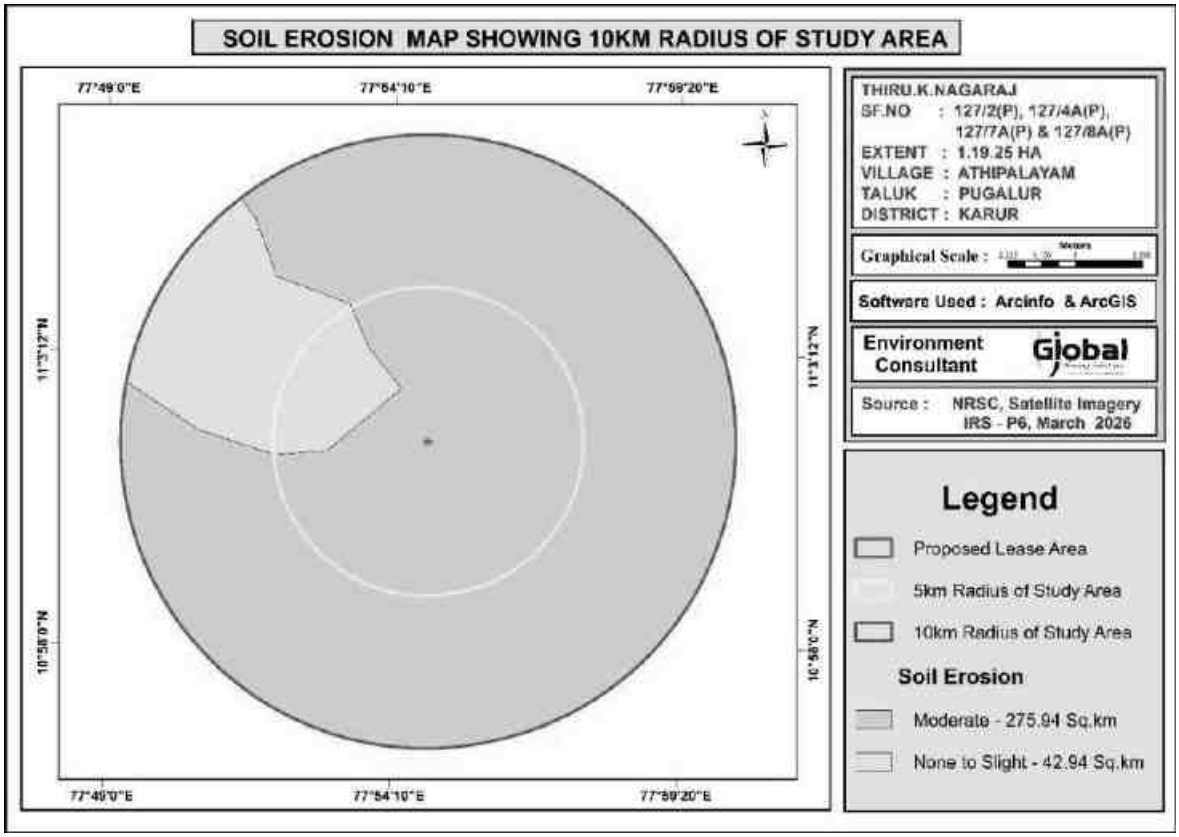
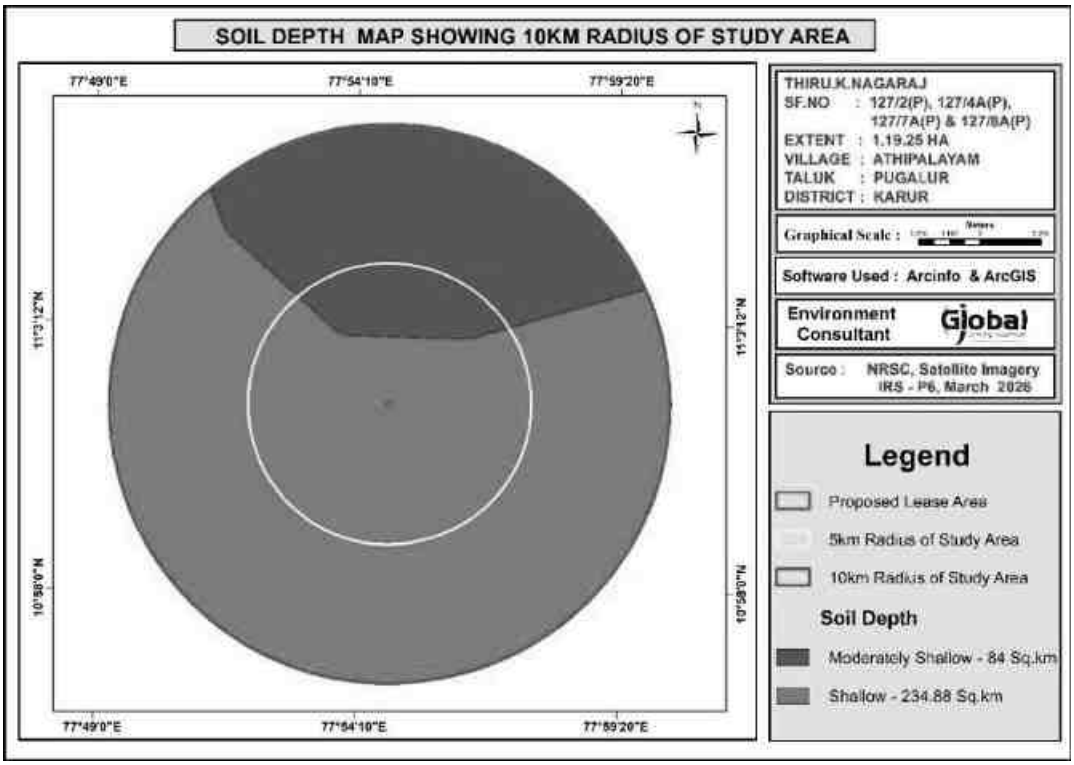


FIGURE 3.25 10 KM RADIUS OF THE STUDY AREA GEOMORPHOLOGY MAP

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





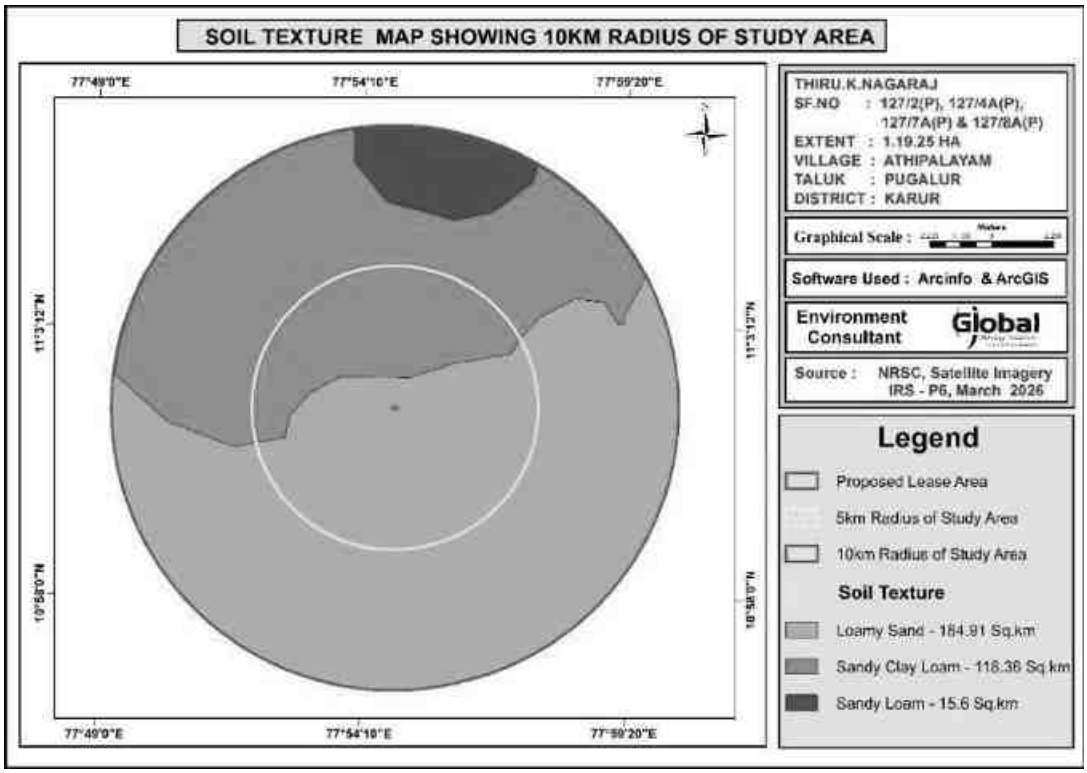


FIGURE 3.2 10 KM RADIUS OF THE STUDY AREA SOIL TYPE MAP 6

3.13.4 FIELD INVESTIGATION

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

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

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

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

CHAPTER 4

ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

4.1 INTRODUCTION

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

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

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

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

This is a proposed Rough Stone and Gravel Quarry of S.F.Nos. 127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) over an extent of 1.19.25 Ha in Athipalayam Village, Pugalur 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 2,63,312.50Ts/95,750m3 of Rough Stone & 20,880Ts /10440 m3 of Gravel for the period of 5 years upto a depth of 32m below ground level 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 Consent Patta Land. The project area of 1.19.25 Ha and it is proposed to be altered by effective quarrying operation such as excavation (0.79.90 Ha), Infrastructure (0.01.00), Road (0.01.00 Ha) and green belt will be developed in the safety zone of 0.37.35 Ha. The ultimate depth of quarrying is proposed with maximum depth of 32m below ground level and will not intersect the ground water table.

4.3 MEASURES FOR MINIMIZING AND /OR OFFSETTING ADVERSE IMPACTS IDENTIFIED

<table>
<tr><th>Aspect</th><th>Impact</th><th>Mitigation measures</th></tr>
<tr><td>Topography</td><td>The area is plain topography covered by rough stone and Gravel. Quarrying activity will lead to change in geological setting of the area i.e., Due to the quarrying activity in the mine lease area will leads to affect the aesthetic view on the environment. Further, due to the movement of heavy vehicles in and around the mine lease area will leads to affect the surrounding agricultural lands, ecology and biodiversity, human habitations due to the emissions from vehicles like SO_2, NO_x, PM_{10}, $PM_{2.5}$, etc., The existing land use pattern is given as under.
<table>
<tr><th>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>0.79.90</td></tr>
<tr><td>Infrastructure</td><td>Nil</td><td>0.01.00</td></tr>
<tr><td>Roads</td><td>Nil</td><td>0.01.00</td></tr>
<tr><td>Green Belt</td><td>Nil</td><td>0.37.35</td></tr>
<tr><td>Unutilized</td><td>1.19.25</td><td>Nil</td></tr>
<tr><td>Total</td><td>1.19.25</td><td>1.19.25</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 32 m below ground level. At the end of mining period, the quarried pit will act as a water reservoir to store the rain water.
Land Use at the end of mine will be as follows.
<table>
<tr><th>Land Use</th><th>Area in use during the quarrying period (Hect)</th></tr>
<tr><td>Area left for water body</td><td>0.79.90</td></tr>
<tr><td>Green Belt</td><td>0.37.35</td></tr>
<tr><td>Remaining area</td><td>0.02.00</td></tr>
<tr><td>Total</td><td>1.19.25</td></tr>
</table>
At the mine closure stage 0.79.90 Ha of lease area will be left as rain water harvesting pond 0.37.35 Ha will be developed with green belt.

Greenbelt shall be developed around the mine lease area and the details has been given below.
<table>
<tr><th>Year</th><th>Species</th><th>No. of trees</th><th>Spacing</th><th>Survival</th></tr>
<tr><td>I</td><td rowspan="4">Pungai, Vagai, Vembu, Manjal</td><td>373</td><td rowspan="4">3m x 3m</td><td rowspan="4">85%</td></tr>
<tr><td>II</td><td>-</td></tr>
<tr><td>III</td><td>-</td></tr>
<tr><td>IV</td><td>-</td></tr>
</table></td></tr>
</table>

<table>
<tr>
<td></td>
<td>The ultimate pit dimension of the mine lease area is given below.
<table>
<tr><th colspan="4">Ultimate Pit dimension at the end of Mining plan Period</th></tr>
<tr><th>Pit No.</th><th>Length (max) (m)</th><th>Width (Avg) (m)</th><th>Depth (max) (m)</th></tr>
<tr><td>I</td><td>170</td><td>47</td><td>32 (below ground level)</td></tr>
</table>
If mining is not done systematically it will lead to the dumping failure in the mining area.</td>
<td>
<table>
<tr><td>V</td><td>konrai, Naval, Puvarasu, etc</td><td>-</td><td></td><td></td></tr>
<tr><td colspan="2">Total</td><td>373</td><td></td><td></td></tr>
</table>
Due to the thick vegetation around the mine lease area and sprinkling of water around the haul roads the dust emissions arise from the vehicles will be controlled.
At the end of mining period, fencing will be provided around the mine lease area to arrest the entry of public/cattle to the mining area.
The rough stone are proposed to quarry 5m bench height and 5m width with 45^0 slope and with conventional opencast Mechanized method. As per the approved mining plan a safety distance of 7.5 m shall be provided. The overburden in the form of Gravel, after the excavation gravel will be directly loaded into tipper to the needy buyers for road project and construction works for filling and levelling of low-lying areas.</td>
</tr>
<tr>
<td>Drainage</td>
<td>Mine drainage is surface water or groundwater that drains from an active or abandoned mine. One of the adverse impact of mine drainage is it will contaminate the ground water.</td>
<td>As per the approved mining plan the ultimate pit limit is 32 m below ground level. The ground water table is reported as 78m BGL. Hence the quarrying operation may not affect the ground water.</td>
</tr>
<tr>
<td>Soil Quality and Agriculture</td>
<td>In monsoon seasons due to the excavation of minerals soil erosion and sediment deposition will occur in the nearby water bodies.</td>
<td>It is proposed to quarry upto a depth of 32 m below ground level and the nearby water table is 78 m. So, the mining activity will not affect the ground water. To prevent the soil erosion during monsoon season, garland drain will be constructed with silt traps.</td>
</tr>
</table>

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

4.3.1 SOLID WASTE GENERATION AND MANAGEMENT

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

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

4.3.2 WATER ENVIRONMENT

4.3.2.1 Impact on Surface Water Resources

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

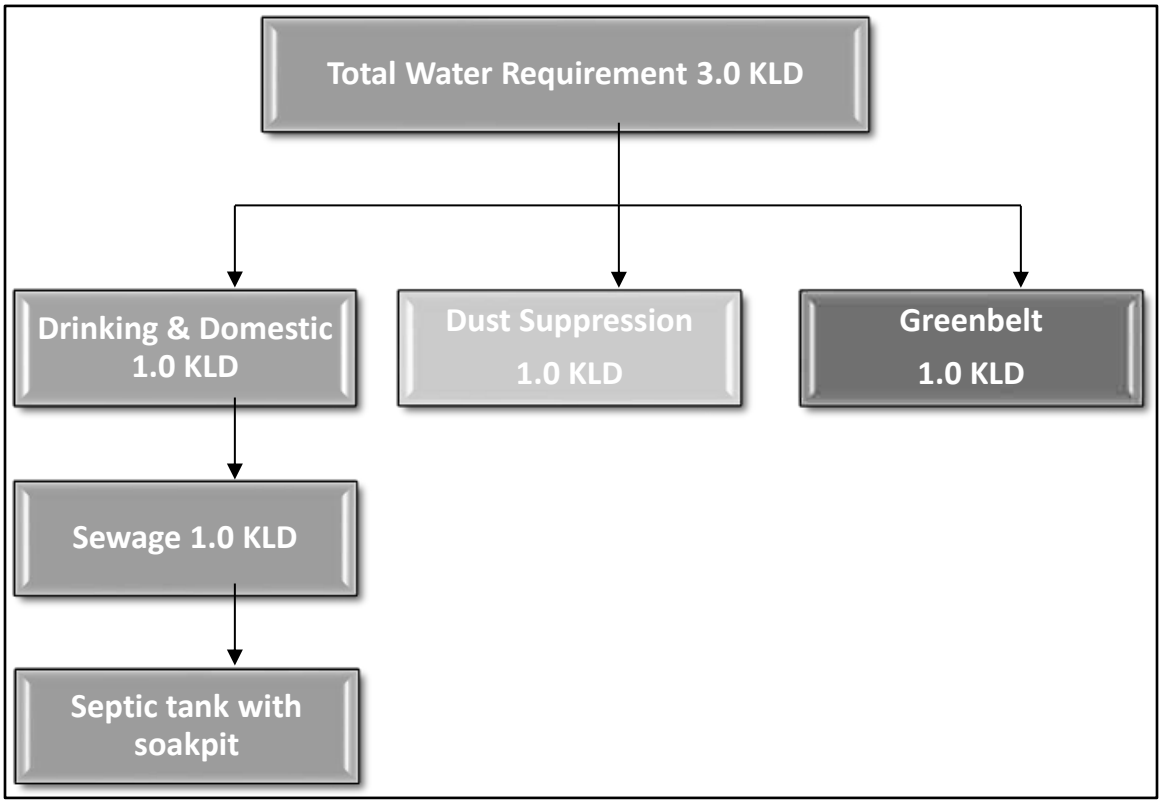
The following water bodies are located within 10 km radius of the project site are Seasonal odai – 50m (NW), Seasonal odai – 50m (S), Seasonal odai – 160m (E), Noyyal River - 1.49Km (NW) and Kaveri River - 4.91Km (N).

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

4.3.2.2 Impact due to Water use in Mines

In the proposed mines water will be mainly used for domestic purpose, dust suppression & plantation. Total water requirement for the project is 3.0 KLD which will be sourced from outside agencies. Negligible sewage of 1.0 KLD will be generated, for which a septic tank with soak pit will be set up. The water balance diagram is given below.

FIG 4.1 WATER BALANCE DIAGRAM



4.3.2.3 Impact on Ground Water

The mining activity is not likely to intersect ground water as the ground water table occurs at a depth of 78 m. The mining will go up to the maximum depth of 32 m below ground level. So, there will be no chance of intersecting the ground water table by the mining activity. So, the impact of mining on the ground water is not envisaged.

4.3.2.4 Mitigation measures

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

4.3.2.5 Ground water environment in buffer zone

The scenario of ground water in Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State 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	Athipalayam	410.51	OE	39.85	4.93	9.86	Over Exploited

Source: nwm.gov.in

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

4.4 VEGETATION IN THE CORE ZONE

The mine lease area is devoid of major plantation. Shrubs and bushes are majorly found within the lease area. The proponent has planned to develop green belt in an area of 0.37.35 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 373 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.

4.5 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF ENVIRONMENTAL COMPONENTS.

4.5.1 IMPACT DUE TO MINING OPERATION

Impact prediction is a crucial process for evaluating the potential adverse environmental impacts of any proposed mine project. This prediction is always conducted under the worst possible conditions to mitigate or eliminate environmental hazards. The predictions made are then superimposed on the baseline data to determine the net impact on the environment once the proposed mine project begins production.

4.5.2 IMPACT ON AIR ENVIRONMENT

The impacts of mining activities on the air environment depend on various factors, including production capacity, the machinery used, and the operations and maintenance of different equipment and vehicles. Additionally, other associated activities, such as the transportation of minerals and waste, stocking facilities, and dumps management within the mine lease area, may also contribute to pollution.

4.5.3 Air Emissions

Air emissions during mining activities must be considered, including production capacity, machinery used for drilling, loading/unloading, blasting, transportation, and the operations and maintenance of various equipment and vehicles. Additionally, other activities such as mine haul road movement, transportation of minerals and waste, stocking facilities, and dump management within the mine lease area may also contribute to pollution.

4.5.4 Quantitative Estimation of Impacts on Air Environment

An attempt has been made to predict the incremental rise of various ground level concentrations above the baseline status in respect of air pollution due to proposed is Thiru.K.Nagaraj 745617.97 m^3 of rough stone & 59125.58 m^3 of gravel and cluster queries, Thiru.K.Manisekaran 1253650.51 m^3 of rough stone & 16854.19 m^3 of gravel and Thiru.T.S.P.Kannappan of rough stone 3412267.09 m^3 for a period of five years by the open-cast semi-mechanised mining method.

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

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

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

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

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

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

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

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

Salient features of the AERMOD model are given hereunder.

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

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

4.5.5 Sources of Dust Emission

The proposed mining is carried out by semi mechanized opencast method. The air borne particulate matter generated by ore handling operations, transportation and screening of ore is the main air pollutant. The emissions of sulphur dioxide (SO_2), Oxides of Nitrogen (NOx) contributed by diesel operated excavation/loading equipment and vehicles plying on haul roads are marginal. Prediction of impacts on air environment has been carried out taking into consideration proposed production and net increase in emissions. Based on the various operations involved in the production of minerals, the various emission sources has been identified as given below.

a. Area sources.
b. Line sources.

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

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

4.5.6 Emission Details

All the emissions discussed above are quantified for proposed maximum production of Thiru.K.Nagaraj 745617.97 m^3 of rough stone & 59125.58 m^3 of gravel and cluster queries, Thiru.K.Manisekaran 1253650.51 m^3 of rough stone & 16854.19 m^3 of gravel and Thiru.T.S.P.Kannappan of rough stone 3412267.09 m^3 for a period of five years by the open-cast semi-mechanised mining method. The existing air quality levels are covered in the baseline scenario.

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

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

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

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

4.5.7 Meteorological Data

The meteorological data recorded continuously during the month of December 2025 – February 2026 on hourly basis on wind speed, wind direction and temperature has been processed to extract the 24- hourly mean meteorological data as per the guidelines of IMD and MoEFCC for application of AERMOD model. Stability classes computed for the mean hours is based on guidelines issued by CPCB on modeling. Mixing heights representative of the region have been taken from the available published literature.

4.5.8 Summary of Predicted Ground Level Concentrations

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

The maximum ground level concentration is estimated to be about 2.26 µg/m^3 of PM 2.5 & 5.39 µg/m^3 of PM_{10} within the mine area and cluster area is estimated to be

about 3.36 µg/m^3 of PM 2.5 & 6.35 µg/m^3 of PM_{10}, 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.

4.5.9 Emission sources & Quantification

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

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

Quantity, TPA	Rough Stone: 95,750 m^3 Gravel: 10,440 m^3 (Five Years)
Operational Hours Per Year	2400
Activity Rate, t/hr.	402.65
Emission of dust, g/t.	0.26
Emission of dust, g /hr.	65.67
Area of influence, m^2	629
Uncontrolled emission rate g/s/m^2	0.00008768
Controlled emission rate, PM10 g/s/m^2	0.000087681
Controlled emission rate, PM2.5 g/s/m^2	0.000069570

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

Quantity, TPA	Rough Stone: 95,750 m^3 Gravel: 10,440 m^3 (Five Years)
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	2204
Lead length/trip, Km	2.9
Total VKT/Year	91827
Emission Kg/VKT	0.22
Total emission Kg/Year	58292
Uncontrolled emission rate g/s/m	6.9826
Controlled emission rate, PM10 g/s/m	0.698262
Controlled emission rate, PM2.5 g/s/m	0.54879

(III) Area Emissions – Total Material handling (Cluster Rough Stone)

Quantity, m^3	**Proposed Quarries:** Rough Stone: 95,750 m^3 Gravel: 10,440 m^3 **Cluster queries:** **Thiru.K.Manisekaran** Rough stone: 1253650.51 m^3 Gravel: 16854.19 m^3 **Thiru.T.S.P.Kannappan** Rough stone: 3412267.09 m^3
Operational Hours Per Year	2400
Activity Rate, t/hr.	380.89
Emission of dust, g/t.	0.33
Emission of dust, g /hr.	77.992
Area of influence, m2	630
Uncontrolled emission rate g/s/m2	0.0008929
Controlled emission rate, PM10 g/s/m2	0.00089295
Controlled emission rate, PM2.5 g/s/m2	0.00069288

(IV) Line Source – Transport of Rough Stone (Cluster)

Quantity, m^3	**Proposed Quarries:** Rough Stone: 95,750 m^3 Gravel: 10,440 m^3 **Cluster queries:** **Thiru.K.Manisekaran** Rough stone: 1253650.51 m^3 Gravel: 16854.19 m3 **Thiru.T.S.P.Kannappan** Rough stone: 3412267.09 m^3
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	15034
Lead length/trip, Km	0.28
Total VKT/Year	891091
Emission Kg/VKT	0.32
Total emission Kg/Year	574522
Uncontrolled emission rate g/s/m	8.8543
Controlled emission rate, PM10 g/s/m	8.85436
Controlled emission rate, PM2.5 g/s/m	0.72545

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 $PM_{2.5}$

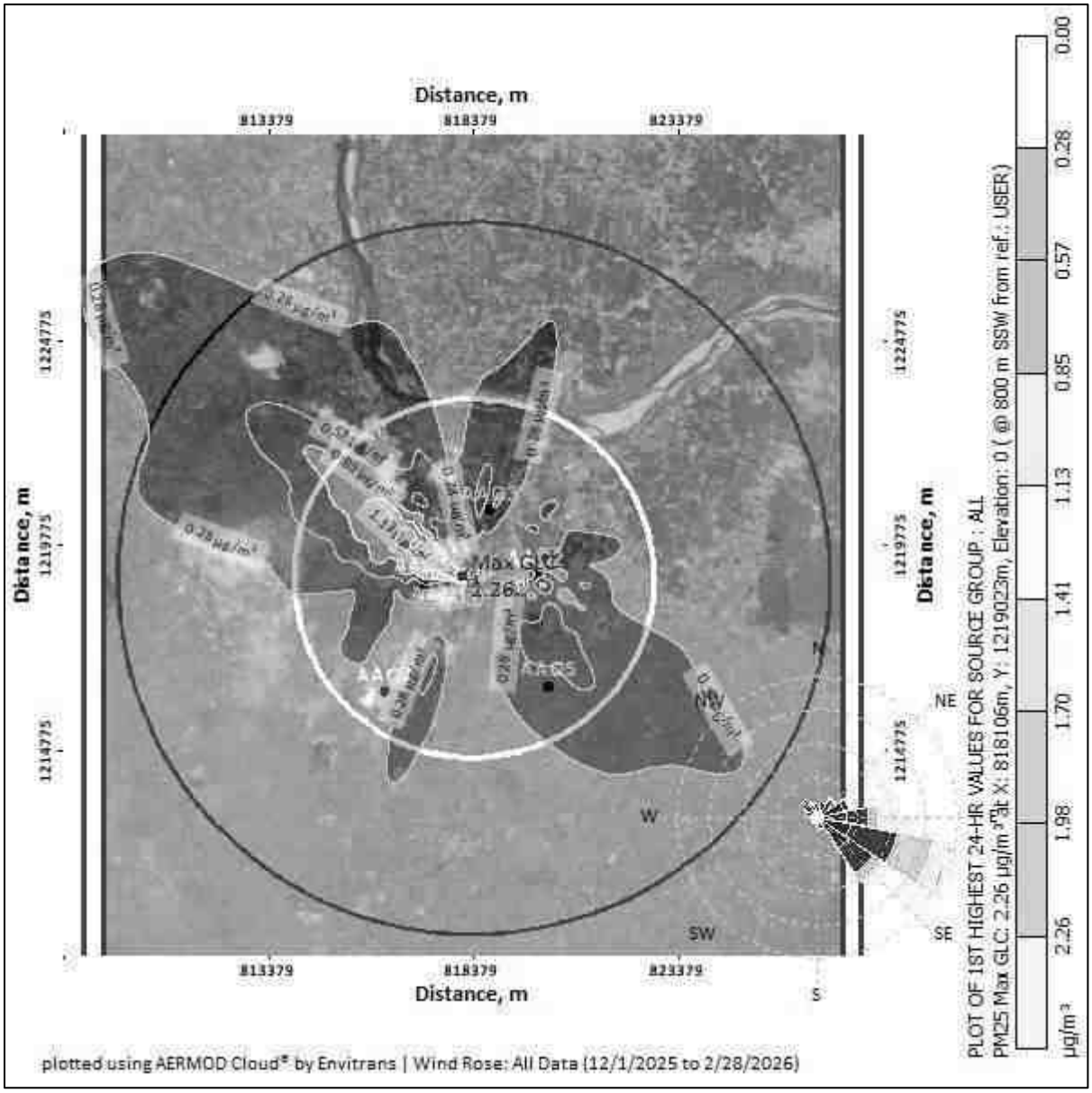


FIG 4.3 Isopleth of GLC Prediction for PM_{10}

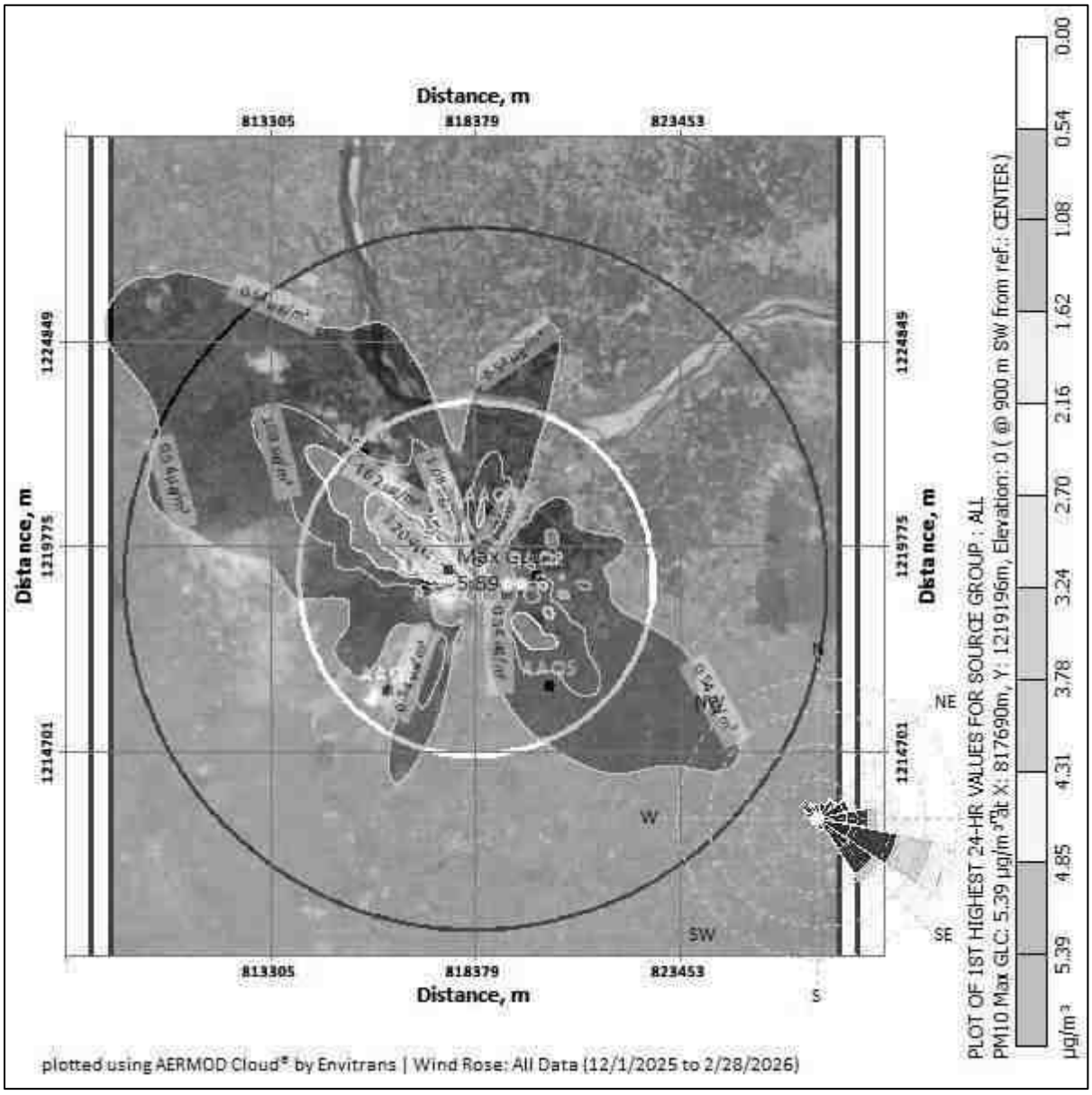


FIG 4.4 Isopleth of GLC Prediction –Cumulative for $PM_{2.5}$

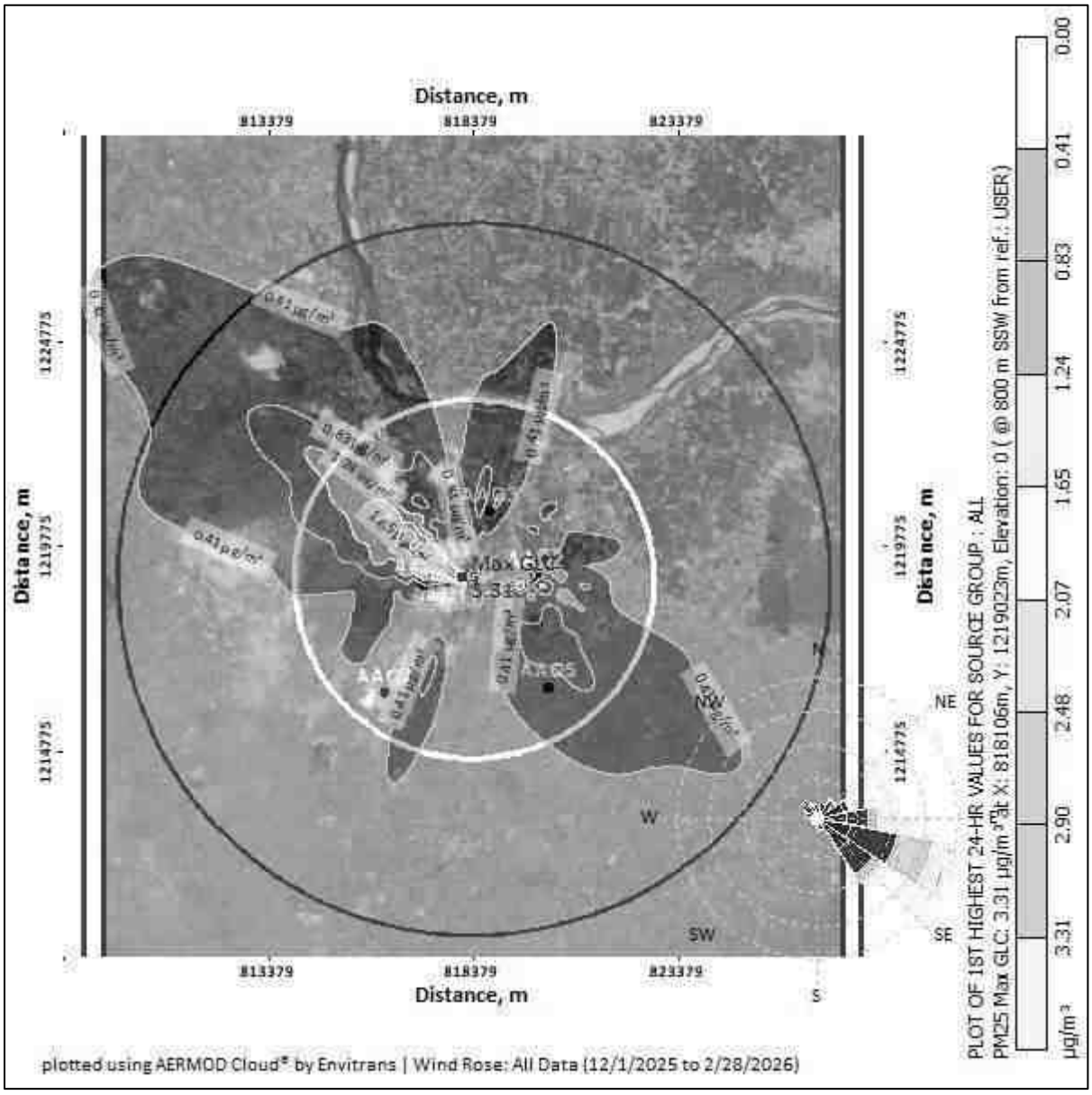
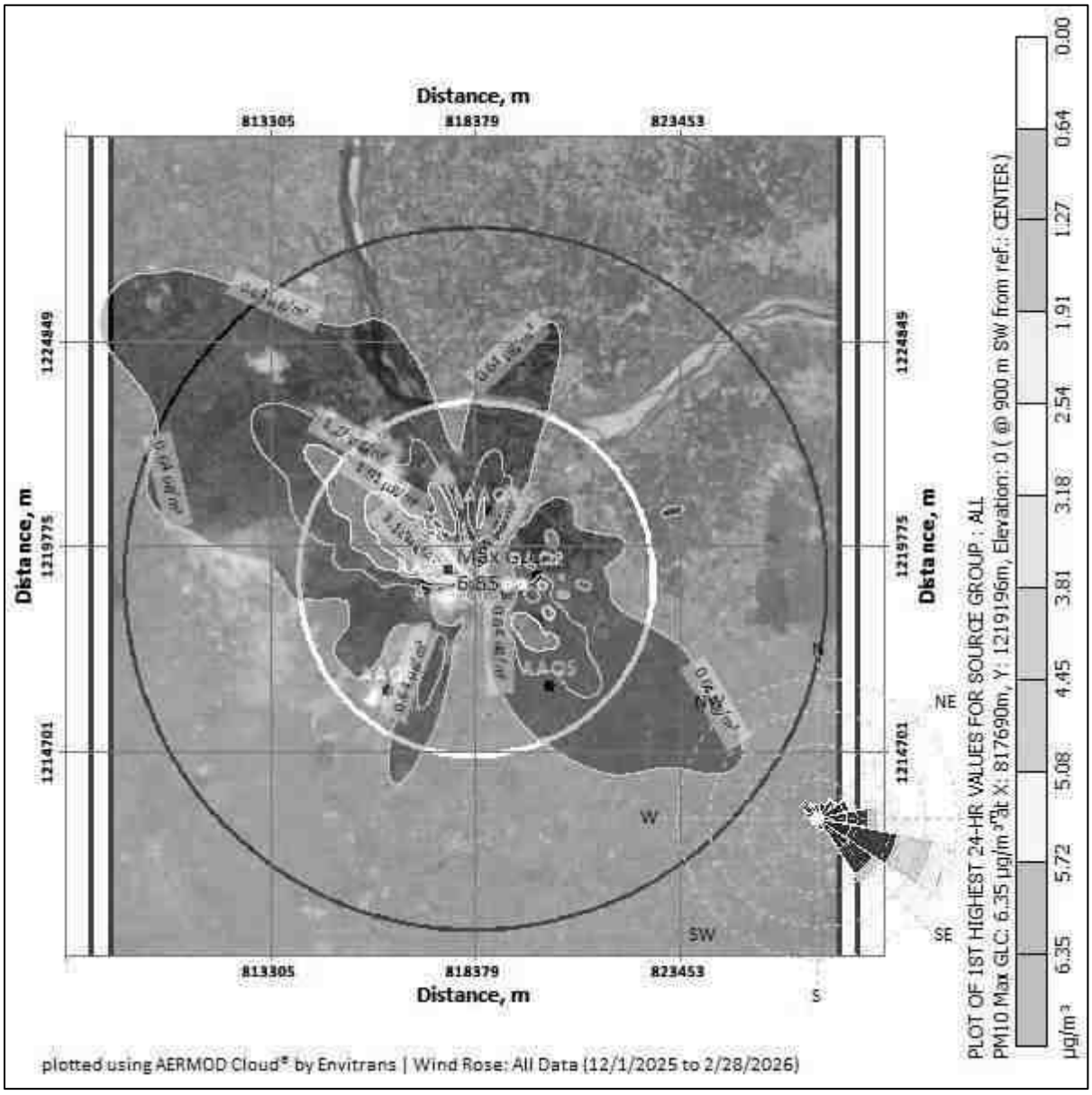


FIG 4.5 Isopleth of GLC Prediction –Cumulative for PM_{10}



4.5.10 PREDICTED AMBIENT AIR QUALITY:

The post project Concentrations of PM10, PM2.5, (GLC) (base line + incremental) after adopting necessary control measures is given in Table No - 4.7 to 4.8.

Table 4.3 Concentrations of PM2.5 after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Within Mine Lease area	28.6	2.26	30.86	60
2	Iyampalayam	23.1	1.98	25.08	
3	Valayapalayam	20.6	1.70	22.3	
4	Athipalayam	21.2	1.41	22.61	
5	Andisangilipalayam	23.3	1.12	24.42	
6	Salapudur	24.6	0.85	25.45	
7	Munnur	24.8	0.57	25.37	

Table 4.4 Cluster Concentrations of PM2.5 after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Within Mine Lease area	28.6	3.31	31.91	60
2	Iyampalayam	23.1	2.90	26	
3	Valayapalayam	20.6	2.48	23.08	
4	Athipalayam	21.2	2.07	23.27	
5	Andisangilipalayam	23.3	1.65	24.95	
6	Salapudur	24.6	1.24	25.84	
7	Munnur	24.8	0.83	25.63	

Table 4.5 Concentrations of PM10 after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Within Mine Lease area	61.9	5.39	67.29	100

2	Iyampalayam	48.6	4.85	53.45	
3	Valayapalayam	45.0	4.31	49.31	
4	Athipalayam	46.1	3.78	49.88	
5	Andisangilipalayam	49.4	3.24	52.64	
6	Salapudur	53.1	2.70	55.8	
7	Munnur	53.5	2.16	55.66	

Table 4.6 Cluster Concentrations of PM10 after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Within Mine Lease area	61.9	6.35	68.25	100
2	Iyampalayam	48.6	5.72	54.32	
3	Valayapalayam	45.0	5.08	50.08	
4	Athipalayam	46.1	4.45	50.55	
5	Andisangilipalayam	49.4	3.81	53.21	
6	Salapudur	53.1	3.18	56.28	
7	Munnur	53.5	2.54	56.04	

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 49.31 µg/m^3 to 67.29 µg/m^3 and for $PM_{2.5}$ are in the range of 22.3 µg/m^3 to 30.86 µg/m^3 and PM_{10} are surrounding area range of 50.08 µg/m^3 to 68.25 µg/m^3 and for $PM_{2.5}$ are in the range of 25.63 µg/m^3 to 31.91 µg/m^3 which are within the statutory limits in each case. The mitigation measures undertaken in the mine for control of air pollution are given below.

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

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

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

4.6.1 NOISE ENVIRONMENT

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

4.6.2 Likely Noise Levels in Lease Area due to mining activity

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

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

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

TABLE 4.7 Noise Levels in Monitoring Locations

S. No.	Location	Day Equivalent (in dBA)	Night Equivalent (dBA)
1	Within Mine Lease area	51.2	44.2
2	Iyampalayam	47.4	39.8
3	Valayapalayam	47.6	39.6
4	Athipalayam	48.7	41.1
5	Andisangilipalayam	49.9	40.2

6	Salapudur	51.2	40.8
7	Munnur	47.1	39.1

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

4.6.3 Impact of Noise due to mining

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

4.7 MITIGATION MEASURES

4.7.1 Noise level control.

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

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

4.7.2 IMPACTS DUE TO VIBRATION

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

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

Impacts

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

Mitigation measures

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

4.7.3 SOCIO ECONOMIC IMPACT

The lease area is Consent Patta Land. The proponent has planned to spend INR 3,00,000 for CER activities.

4.7.4 OCCUPATIONAL HEALTH

Impacts on humans due to various mining activities

The occupational risk due to proposed mining may be due to drilling, blasting, excavation and transportation. A total of 25 workers will be engaged in the mining activity. Mining activity may cause various health problems to the mines workers as follows:

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

Table 4.8 Impacts on humans due to various mining activities

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

Mitigation measures

- The mines worker will be provided with dust mask to minimize the inhalation of the dust.
- Water sprinkling twice in a day is in practice on the haul roads, near excavation and roads to reduce the fugitive dust emission.
- Wet drilling and drilling with dust extractor will be practiced.

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

4.7.5 WASTE MANAGEMENT

Solid Waste

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

Liquid Waste

There is no process effluent generation from this mine. Hence no liquid waste is generated. Domestic wastewater i.e 1.0 KLD will be discharged in soak pit via septic tank.

Hazardous Waste Management

In this project the following management practices will be followed:

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

Plastic Waste

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

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CHAPTER 5

ANALYSIS OF ALTERNATIVES

5.1 DESCRIPTION OF EACH ALTERNATIVE

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

5.2 SUMMARY OF ADVERSE IMPACTS OF EACH ALTERNATIVE

The project proponent has prepared mining plan under rule 41(5) of the Tamil Nadu Minor Mineral Concession Rules, 1959 and the same has been approved by the Assistant Director, Dept. of Geology & Mining, Karur vide Rc.No.170/Kanimam/2024 dated 09.12.2025.

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

Hence seeking alternative site is not required.

5.3 MITIGATION MEASURES PROPOSED FOR EACH ALTERNATIVE

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

5.4 SELECTION OF ALTERNATIVE

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

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 MoEFCC and Tamil Nadu State Pollution Control Board. In case the SEIAA/TNPCB/MoEFCC or other statutory bodies demand monitoring of any additional parameter/factor, the same will also be done.

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

6.1.2 OBJECTIVES OF ENVIRONMENTAL MONITORING

The objectives of Environmental Monitoring are as follows.

- Monitoring and analysis of air and water samples
- Implementing the control and protective measures.
- Coordinating the environment related activities within the project as well as with outside agencies. Collecting statistics of health of workers and population of the surrounding villages. Green belt development etc.

- Monitoring the progress of implementation of Environmental Management Programme.
- Monitoring the noise generation in and around the project areas.
- Monitoring of wastewater treatment and disposal of solid waste.
- The laboratory will be suitably equipped for sampling/testing for various environmental pollutants.

6.1.3 ENVIRONMENTAL MONITORING SCHEDULE

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

Table 6.1 Environmental Monitoring Schedule

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

6.1.4 LOCATION

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

6.1.5 MEASUREMENT METHODOLOGY

(a) Ambient Air Quality

Ambient air quality will be monitored for SO_2, NO_x, PM_{10} and $PM_{2.5}$. The instruments like high volume air samplers and Respirable dust samplers would be used for this purpose. These parameters will be monitored as mentioned in the monitoring schedule previously.

(b) Water Quality

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

(c) Noise Monitoring

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

(d) Green Belt and Afforested Areas

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

(e) Socio-Economics

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

6.1.6 TECHNICAL ASPECTS OF MONITORING THE EFFECTIVENESS OF MITIGATION MEASURES

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

6.1.7 EMERGENCY PROCEDURES

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

6.1.8 REPORTS TO BE GENERATED

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

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

6.1.9 DETAILED BUDGET AND PROCUREMENT SCHEDULES

The budget planned for environmental monitoring is given below.

Table 6.3 - Environmental Management Plan Budget

Sl. No	Budget planned for	Capital Cost Amount (INR)	Recurring Cost/Annum Amount (INR)
1	Air Environment	8.32	0.89
2	Noise Environment	0.30	0.02
3	Waste Management	0.25	0.12
4	Mine Closure	0.62	0.71
5	Implementation of EC, Mining Plan & DGMS Condition	0.37	0.07
Total		**9.90**	**1.82**

Total EMP Cost for 5 years is 19.96 lakhs i.e., Rs.9.90 Lakhs of Capital Cost+ Rs.10.06 Lakhs of Recurring Cost (For 5 Years).

CHAPTER 7
ADDITIONAL STUDIES

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

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

7.1 PUBLIC CONSULTATION

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

7.2 RISK ASSESSMENT

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

Table 7.1 Risk Assessment and Control Measures

S.NO	Risk Factor	Causes of risk	Control Measures
1	Accidents due to explosives and heavy mining machineries	Improper handling and unsafe working practice	• All safety precautions and provisions of Mine Act, 1952, Metalliferous Mines Regulation, 1961 and Mines Rules, 1955 will be strictly followed during all mining operations. • Entry of unauthorized persons will be prohibited. • Fire-fighting and first-aid provisions in the mine office complex and mining area. • Provisions of all the safety appliances such as safety boot, helmets, goggles etc. will be made available to the employees and regular check for their use. • Quarry operation will be done as per approved mining plan and other applicable statutory guidelines issued by DGMS, Dept. of Mining & Geology-Tamil Nadu. • Handling of explosives, charging and firing shall be carried out under competent statutory persons. • A comprehensive standard operating procedure (SOP) will be prepared as per DGMS guidelines and the same will be circulated to all the employees and it will be strictly followed in the all face of mining operation.
2	Drilling	Improper and unsafe practices. Due to high pressure of compressed air, hoses may burst. Drill Rod may break.	• Safe operating procedure established for drilling (SOP) will be strictly followed. • Only trained operators will be deployed. • No drilling shall be commenced in an area where shots have been fired until the blaster/blasting foreman has made a thorough Examination of all places. • Drilling shall not be carried on simultaneously on the benches at places directly one above the other. • Periodical preventive maintenance and replacement of worn-out accessories in the compressor and drill equipment as per operator manual.

			• Drills unit shall be provided with wet drilling to ensure efficient working.
3	Blasting	Fly rock, ground vibration, Noise and dust. Improper charging, stemming & Blasting/ fining of blast holes. Vibration due to movement of vehicles.	• Restrict maximum charge per delay as per approved mining plan. • Proper blasting design with optimum spacing & burden, Charge per delay and stemming. • SOP for Charging, Stemming & Blasting/Firing of Blast Holes will be followed by blasting crew during initial stage of operation. • Shots are fired during day time only. • Charging and firing shall be carried out in the same day. • Siren will be done for each blasting. Blasting evacuation plan prepared and executed. • The danger zone will be distinctly demarcated (by means of red flags).
5	Transportation	Potential hazards and unsafe workings contributing to accident and injuries. Overloading of material. While reversal & overtaking of vehicle. Operator of truck leaving his cabin when it is loaded.	• Before commencing work, drivers personally check the dumper/truck/tipper for oil(s), fuel and water levels, tyre inflation, general cleanliness and inspect the brakes, steering system, warning devices including automatically operated audio-visual reversing alarm, rear view mirrors, side indicator lights etc., are in good condition. Unauthorized person will not be allowed to operate or ride on the vehicle. • Loading according to the vehicle capacity. • Periodical maintenance of vehicles as per operator manual.
6	Natural calamities	Unexpected happenings	• An emergency management plan will be prepared considering all possible national calamity and the same will be executed if any such situation occurs.

			• Escape Routes will be provided to prevent inundation of storm water. • Fire Extinguishers & Sand Buckets in the designated areas.
7	Failure of Mine Benches and Pit Slope	Slope geometry, Geological structure	Ultimate or over all pit slope shall be below 60° and each bench height shall be 5m height.

7.3 DISASTER MANAGEMENT PLAN

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

7.3.1 MODEL DISASTER MANAGEMENT PLAN

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

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

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

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

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

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

7.3.2 OBJECTIVE OF DISASTER MANAGEMENT PLAN

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

Communication System

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

Facilities

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

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

Personnel

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

Operating Procedures

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

7.4 CUMULATIVE IMPACT STUDY

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

Table 7.2 Details of Quarries within 500m radius

S.No	Name of the Quarry Owner	S.F. Nos & Village	Lease Status	Area in Ha
a. Existing Quarries:				
1.	Thiru.K.Manisekaran S/o.Krishnasamy No.10/1 Ram Nagar Gandhigramam south Karur Taluk & District	S.F.Nos. 140/1(P), 140/2A(P),140/3A(P), 141/1A (P), 141/2A(P), 141/3A(P) Athipalayam Village, Pugalur Taluk	Lease Period – 01.02.2023 to 31.01.2028	1.69.40

2.	Thiru.T.S.P.Kannappa, VN Puthur, Athipalayam P.O, Pugalur Taluk, Karur District	S.F.Nos.127/3C(P), 127/5(P),127/6(P),127/9(P),130/A,130/B Athipalayam Village, Pugalur Taluk	Lease Period – 11.09.2023 to 10.09.2028	3.25.00
b. Abandoned/Expired Quarry - Nil				
c. Present Proposed Quarry				
1.	Thiru.k.Nagaraj, S/o.Kumar, No.12/1A, Porkodi Compound, Puthukadu 2nd Street, Tiruppur T.C. Market, Tiruppur Disrict.	S.F.Nos. 127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) Athipalayam Village, Pugalur Taluk	Applied Area (Rough Stone)	1.19.25
Total Area of Cluster		**6.13.65 Ha**		

As seen above, although the individual lease area of this project is less than 5 hectares, the one proposed quarries within a 500-meter radius, add up to more than 5 hectares i.e. 6.13.65 Ha. A map showing the existing and proposed quarry located within 500m radius is given in Figure 1.1.

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

Table 7. 3 Salient Features of Existing & Proposed Quarries

Description		P1	P2	P3
Name of the Quarry	-	Thiru.k.Nagaraj	Thiru.K.Manisekaran	Thiru.T.S.P.Kannappan
Geological Resources in ts	Rough stone	983400	16,97,932.5	27,82,854.25
	Gravel	47680	15,808	1,872
	Weathered Rock	-	-	1872
Mineable Reserves in Ts	Rough stone	263312.50	4,42,722.5	12,05,030.75
	Gravel	20880	5,952	-
	Weathered Rock	-	-	-
Five years plan period as in the approved mining plan	Rough stone	263312.50	4,42,722.5	12,05,030.75
	Gravel	20880	5,952	-
Production in Ts	Peak Production – rough stone	55467.5	1,01,832.5	2,59,030.75
	Gravel	12096	1,984	-
Total Production per day in Ts	-	189	299	803
Lorry Loads per day in Nos	-	19	30	81
Employment in Nos	-	23	21	39
Proposed Depth in meters	-	32 BGL	47 BGL	44 BGL
Status of the quarry	-	Proposed	Existing	Existing

Air Environment

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

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

Table 7.4 Cumulative Production Load

Mineral Transportation			
Production Per day in tons			
Quarry	**Quarry Name**	**Total Mineral in tons per day**	**No. of Lorry Load per day**
P1 (Proposed)	Thiru.K. Nagaraj	189	19
P2 (Existing)	Thiru.K.Manisekaran	299	30
P3 (Existing)	Thiru.T.S.P.Kannappan	803	81
Total		**1291**	**130**

As two quarries already exist, they are part of the current traffic. The proposed project will bring 19 trips per day. The existing road can absorb this additional traffic due to this project. Various measures like proper maintenance of road, covering of the loaded truck with tarpaulin, water sprinkling will be carried out to ensure no adverse impact on the logistical front. Traffic density study is detailed in section 2.11 of Chapter 2.

Cumulative Impact on Socio-economic Environment

The mining operations in the 1 mine will provide direct employment opportunity and indirect employment opportunity for scores of people through allied opportunities in logistics, contract workers, trading, repairing works etc. Various mitigative measures suggested in this report will be properly implemented to ensure that no adverse impact is felt on the socio economic and ecological front in the area.

7.5 CLUSTER MINE CLOSURE PLAN

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

7.6 SLOPE STABILITY PLAN

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

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

Site Specific Analysis

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

Mitigation Measures

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

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

CHAPTER 8

PROJECT BENEFITS

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

The mining activity at proposed Rough Stone and Gravel Quarry of Thiru.K.Nagaraj will create direct employment opportunity for 25 local peoples.

Based on the request letter received from P.U.E School, Valaiyapalayam, the PP has proposed CER amount of Rs. 3.0 Lakhs for various activities.

The list of activities proposed for CER is mentioned below

Table 8.1 CER Activities

S. No.	PROPOSED CER ACTIVITIES	COST IN LAKHS.
1	Carrying out of various infrastructural development activities	3.0
Total		**3.0**
The above-mentioned CER activities will be spent for P.U.E School, Valaiyapalayam.		

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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. TO26B0108TN5944134N, dated 13.04.2026 for the proposed project, the 'Environmental Cost Benefit Analysis' is not prescribed.

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CHAPTER 10

ENVIRONMENTAL MANAGEMENT PLAN

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

10.1.1 OBJECTIVES

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

10.1.2 BASIC OF EMP

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

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

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

Table 10.1 Environmental Management Plan

Environmental Parameter	Mitigation Measures
Air	Wet drilling to suppress the dust emission from drill machine
	Regular water sprinkling on haulage road through fixed water sprinkler.
	1.0 KLD of water will be used for dust suppression.
	Avoiding blasting during high wind period, night times and temperature inversion periods.
	Regular grading of haul road to clear accumulation of loose material.
	It will be ensured that vehicles are properly maintained to comply with exhaust emission requirements
	Maintenance as per operator manual of the equipment and machinery in the mines to minimizing air pollution
	Ambient Air Quality Monitoring carried out in the project area and in surrounding villages to access the impact due to the mining activities and the efficacy of the adopted air pollution control measures.
	Afforestation for control of dust.
Surface water	1. Seasonal odai – 50m (NW) 2. Seasonal odai – 50m (S) 3. Seasonal odai – 160m (E) 4. Noyyal River-1.49Km (NW) 5. Kaveri River- 4.91Km (N)
	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 32m below ground level, Water table is found at a depth of 78 m, hence the project will not intersect the Ground water table during entire quarry period.
Water Consumption	Water required for this project will be sourced from vendors.
	Domestic wastewater generation of 1.0 KLD will be treated in septic tank with soak pit.

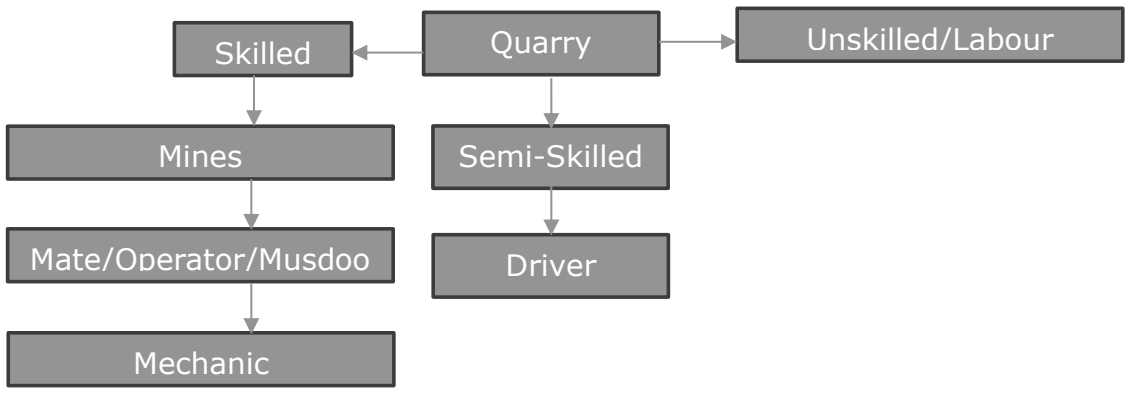
and Wastewater generation	Conduct ground water and surface water monitoring for parameters specified by CPCB
Noise	The workers employed are provided with protection equipment, earmuffs and ear- plugs for the protection from high noise level generated at the mine site wherever required.
	Noise levels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

10.1.3 ADMINISTRATION AND TECHNICAL SETUP

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

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

Fig. 10.1 Organization Chart



1.	Skilled	Mines Manager	1 Nos.
		Foreman / Mate	2 Nos.
		Operator	6 Nos.
		Mechanic	1 Nos.
2.	Semi–skilled	Driver	3 Nos.
3.	Unskilled	Labours	12 Nos.
Total			**25 Nos**

10.1.4 ENVIRONMENTAL POLICY

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

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

10.1.5 OCCUPATIONAL SAFETY & HEALTH MANAGEMENT

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

10.1.6 COST OF ENVIRONMENTAL CONTROL MEASURES

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

Table 10.2 - Environmental Management Plan Budget

Sl. No	Budget planned for	Capital Cost Amount (INR)	Recurring Cost/Annum Amount (INR)
1	Air Environment	8.32	0.89
2	Noise Environment	0.30	0.02
3	Waste Management	0.25	0.12
4	Mine Closure	0.62	0.71
5	Implementation of EC, Mining Plan & DGMS Condition	0.37	0.07
Total		**9.90**	**1.82**

Total EMP Cost for 5 years is 19.96 lakhs i.e., Rs.9.90 Lakhs of Capital Cost+ Rs.10.06 Lakhs of Recurring Cost (For 5 Years).

10.1.7 CONCLUSION

Various aspects of mining activities were considered, and related impacts were evaluated. Considering all the possible ways to mitigate the Environmental concerns, an Environmental Management Plan was prepared, and INR 19.96 lakhs has been allocated for the same. The EMP is dynamic, flexible, and subjected to periodic review. For projects where major environmental impacts are associated, EMP will be under regular review. Thus, the proper steps will be taken to accomplish all the goals mentioned in the EMP, and the project will have a positive impact on the study area.

CHAPTER 11

SUMMARY& CONCLUSION

11.1 OVER ALL JUSTIFICATION FOR IMPLEMENTATION OF THE PROJECT

INTRODUCTION

Thiru. K. Nagaraj has obtained Precise Area Communication Letter from Assistant Director, Department of Geology and Mining, Karur to quarry out 2,63,312.50Ts/95,750m3 of Rough Stone & 20,880Ts /10440 m3 of Gravel over an extent of 1.19.25 Ha located in S.F.No. 127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) of Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.

As per EIA notification, 2006 and its subsequent amendments the proposed "Rough Stone and Gravel Quarry of Thiru.K.Nagaraj 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. TO26B0108TN5944134N, Dated: 13.04.2026. This report has been prepared in line with the approved TOR for production of maximum excavation of 2,63,312.50Ts/95,750m3 of Rough Stone & 20,880Ts /10440 m3 of Gravel.

S.No.	Description	Status/Remarks
1.	Sector	1(a), non-coal mining
2.	Category of the project	B1
3.	Proposed mineral	Rough Stone
4.	Type of Lease	Fresh Quarry
5.	Extent of the lease	1.19.25 Ha
6.	Proposed depth of Mining	32m below ground level
7.	Method of mining	Opencast Mechanized
8.	Proposed lease period	5 Years
9.	Proposed Environmental Clearance	5 Years
10.	Proposed production quantity for five years	2,63,312.50Ts/95,750m3 of Rough Stone & 20,880Ts /10440 m3 of Gravel

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

1.1.1 LOCATION

This project site is located in Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State with Latitude: 11°01'36.76"N to 11°01'40.32"N and Longitude: 77°54'45.61"E to 77°54'51.99"E. with Survey of India Topo Sheet No.58 E/16. To conduct the study, the proposed mine lease area (core zone) and an impact zone of 10 km radius (called buffer zone) around the proposed mine site were considered. The EIA report is based on three months baseline data (i.e. December 2025 to February 2026)

11.1.2 GEOLOGY

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

11.1.3 PROJECT DESCRIPTION

This is a proposed Rough Stone quarry by Opencast Mechanized mining method with drilling and blasting. The quarrying is restricted up to a depth of 32m below ground level. The geological reserves are estimated to be 9,83,400 Ts/ 3,57,600 m3 of Rough Stone & 47,680 Ts /23,840 m3 of Gravel. The mineable reserve calculated by deducting 7.5 m safety distance and bench loss. The mineable reserves are 2,63,312.50 Ts/ 95,750 m3 of Rough Stone & 20,880Ts /10,440 m3 of Gravel which will be recovered at the rate of 100% recovery upto a depth of 32m below ground level for the period of 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 quarrying operation.

S.No.	Type of Detail	Description
1	Sector	1(a) Non coal mining
2	Fresh/Existing project	Fresh Quarry
3	Category	B1
4	Nature of mineral	Minor mineral
5	Production	2,63,312.50Ts/95,750m3 of Rough Stone & 20,880Ts /10440 m3 of Gravel
6	Life	5 years
7	Waste generation and management	There is no overburden anticipated during the quarrying operation. Hence, no waste generation.
8	Bench height and width	Height and Width – 5m
9	Ultimate pit depth	32 m below ground level
10	End use	Rough Stone will be loaded into tippers to needy buyers for producing aggregates, M-sand.

11.1.4 PROJECT REQUIREMENTS

The requirements of the project is given below.7

S.No.	Nature of requirement	Description
1	Water requirement	Total water requirement of 3.0 KLD which will be procured from the outside agencies. Out of 1.0 KLD drinking water requirements, Green belt development is 1.0 KLD and dust suppression is 1.0 KLD.
2	Power requirement	No electricity is needed for mining operations, for office demands, it will be met from the state grid. Total Fuel requirement is 78,340 (L) for entire life of the project.
3	Manpower requirement	Total Manpower - 25 Nos.

		Statutory persons – 10 Nos.
4	Financial requirement	The total project cost as per PFR will be INR 84.60 lakhs including Operational cost, Fixed Asset cost and EMP cost
5	Funds for Socio economic development	INR 3.0 Lakhs is allocated. In addition, any demand raised by people during public hearing will also be met.

11.1.5 DESCRIPTION OF LEASE AREA

The features in the study area is given below.

Table 11.1 Description of the lease area

S.No.	Areas	Distance from project site
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Nil within 15km radius
2	Areas which are important or sensitive for ecological reasons	
A	Wetlands, water courses or other water bodies,	1. Seasonal odai – 50m (NW) 2. Seasonal odai – 50m (S) 3. Seasonal odai – 160m (E) 4. Noyyal River-1.49Km (NW) 5. Kaveri River- 4.91Km (N)
B	Coastal zone, biospheres,	Nil within 10km radius
C	Mountains, forests	Nil within a 10Km radius. Arachalur R.F. – 28.24 km (NW)
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	Athipalayam Village – 799m (N)
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Athipalayam Village – 799m (N)
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Nil
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	Nil
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earth quakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions) similar effects	No. The area is not prone to earthquakes, floods, etc.

The baseline data collection for meteorology, air, water, noise and soil environments have been carried out during December 2025 to February 2025.

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

11.2 EXPLANATION OF HOW ADVERSE EFFECTS HAVE BEEN MITIGATED

11.2.1 AIR ENVIRONMENT

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

Table 11.2: Details Of Ambient Air Quality Monitoring Locations

S. No.	Station Code	Locations	Coordinates
1	AAQ 1	Within Mine Lease area	11° 1'38.20"N & 77°54'48.06"E
2	AAQ 2	Iyampalayam	11° 1'38.28"N & 77°55'45.70"E
3	AAQ 3	Valayapalayam	11° 2'36.50"N & 77°55'4.84"E
4	AAQ 4	Athipalayam	11° 1'32.48"N & 77°54'0.97"E
5	AAQ 5	Andisangilipalayam	10°59'54.73"N & 77°55'58.02"E
6	AAQ 6	Salapudur	11° 3'31.43"N & 77°53'5.28"E

Table 11.2: Details Of Ambient Air Quality Monitoring Locations			
S. No.	**Station Code**	**Locations**	**Coordinates**
7	AAQ 7	Munnur	10°59'46.18"N & 77°53'18.66"E

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

Station ID	Min	Max	Avg
Particulate matter PM-$_{2.5}$ ($\mu g/m^3$)			
AAQ-1	24.5	32.5	28.6
AAQ-2	20.3	25.9	23.1
AAQ-3	18.4	23.6	20.6
AAQ-4	18.0	24.6	21.2
AAQ-5	20.7	26.0	23.3
AAQ-6	22.7	26.8	24.6
AAQ-7	22.7	26.9	24.8
CPCB NAAQS 2009 for PM $_{2.5}$ - 60 $\mu g/m^3$			
Particulate matter PM-$_{10}$ ($\mu g/m^3$)			
AAQ-1	52.9	70.3	61.9
AAQ-2	43.2	54.9	48.6
AAQ-3	40.4	49.6	45.0
AAQ-4	39.3	53.2	46.1
AAQ-5	43.9	55.5	49.4
AAQ-6	49.8	57.8	53.1
AAQ-7	48.9	58.6	53.5
CPCB NAAQS 2009 for PM $_{10}$ - 100 $\mu g/m^3$			
Sulphur Di-oxide as SO_2 ($\mu g/m^3$)			
AAQ-1	4.4	6.1	5.4
AAQ-2	4.2	5.2	4.7
AAQ-3	4.5	9.3	6.9
AAQ-4	3.9	6.1	4.9
AAQ-5	4.2	5.8	4.9
AAQ-6	4.4	5.8	5.0
AAQ-7	4.4	6.6	5.5
CPCB NAAQS 2009 for SO_2 – 80 $\mu g/m^3$			
Oxide of Nitrogen as NO_2 ($\mu g/m^3$)			
AAQ-1	7.1	12.3	9.8
AAQ-2	7.6	10.5	9.1
AAQ-3	6.0	10.8	8.4

AAQ-4	7.0	9.3	8.2
AAQ-5	8.2	11.4	10.0
AAQ-6	9.1	12.9	10.9
AAQ-7	8.7	13.8	11.0
CPCB NAAQS 2009 for NO_2 – 80 µg/m^3			

11.2.2 WATER ENVIRONMENT

S.No	Parameter	Unit	SW1	SW2	Surface water standards (IS 2296 Class-A)
1	Odour	-	AGREEABLE	AGREEABLE	-
2	Turbidity	NTU	2.4	4.8	1
3	pH at 25 °C	-	7.62	7.85	6.5-8.5
4	Electrical Conductivity	µs/cm	1420	1850	-
5	Total Dissolved Solids	mg/l	880	1450	500
6	Total hardness as $CaCO_3$	mg/l	310	440	-
7	Calcium as Ca	mg/l	73	90.0	300
8	Magnesium as Mg	mg/l	30.7	51.6	-
9	Calcium as $CaCO_3$	mg/l	182	225	-
10	Magnesium as $CaCO_3$	mg/l	128	215	-
11	Total alkalinity as $CaCO_3$	mg/l	245	412	-
12	Chloride as Cl^-	mg/l	256	326	-
13	Free Residual chlorine as Cl^-	mg/l	BDL (D.L - 0.2)	BDL(DL-0.2)	250
14	Sulphates as SO_4^{2-}	mg/l	112	198	400
15	Iron as Fe	mg/l	0.08	0.15	1.0
16	Nitrate as NO_3	mg/l	3.65	4.98	20
17	Fluoride as F	mg/l	0.59	0.63	1.5
18	Manganese as Mn	mg/l	BDL (D.L - 0.05)	BDL(DL-0.05)	0.5
19	TSS	mg/l	12	8	
20	DO	mg/l	6.2	5.8	
21	COD	mg/l	BDL	BDL	
22	BOD	mg/l	BDL	BDL	

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

Results of Ground Water sampling Analysis in 7 locations								Standards as Per IS 10500: 2012	
Parameter	**W1**	**W2**	**W3**	**W4**	**W5**	**W6**	**W7**	**Acceptable Limits**	**Permissible Limits**
Odour	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	Agreeable	Agreeable
Turbidity	<1	<1.0	<1.0	<1	<1.0	<1	<1	1	5
pH at 25 °C	7.76	7.82	7.78	8.28	7.69	8.34	7.57	6.5-8.5	No Relaxation
Electrical Conductivity	1293.6	2070.6	1255.8	1076.3	1217	769.1	873.2	-	-
Total Dissolved Solids	778	1242	760	650	732	462	530	500	2000
Total hardness as CaCO3	519	365	347	152	338	229	294	200	600
Calcium as Ca	112	84.8	69.3	29.3	68.0	51.2	73.9	75	200
Magnesium as Mg	57.2	36.8	41.6	19.0	40.3	24.2	26.2	30.0	100
Calcium as CaCO3	280	212	173	73.2	170	128	185	-	-
Magnesium as CaCO3	238	153	173	79	168	101	109	-	-
Total alkalinity as CaCO3	296	483	307	199	305	215	242	200	600
Chloride as Cl-	221	523	116	248	107	137	155	250	1000
Free Residual chlorine as Cl-	BDL (D.L - 0.2)	BDL(DL-0.2)	BDL(DL-0.2)	BDL (D.L - 0.2)	BDL(DL-0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	0.2	1
Sulphates as SO42-	126	332	305	193	294	52.7	57.1	200	400
Iron as Fe	0.07	BDL(DL-0.01)	BDL(DL-0.01)	0.08	BDL(DL-0.01)	0.08	0.07	0.3	No Relaxation
Nitrate as NO3	2.57	4.88	4.08	2.88	3.74	1.56	2.22	45	No Relaxation
Fluoride as F	0.58	0.51	0.46	0.5	0.38	0.47	0.6	1	1.5
Manganese as Mn	BDL (D.L - 0.05)	BDL(DL-0.05)	BDL(DL-0.05)	BDL (D.L - 0.05)	BDL(DL-0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	0.1	0.3

All the values were found to be within permissible limits.

11.2.3 NOISE ENVIRONMENT

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

Table 11.5 Noise monitoring results

S. No	Location	Day equivalent	Night equivalent	Day equivalent limits by CPCB	Night equivalent limits by CPCB
1	Within Mine Lease area	51.2	44.2	75	70
2	Iyampalayam	47.4	39.8		
3	Valayapalayam	47.6	39.6		
4	Athipalayam	48.7	41.1		
5	Andisangilipalayam	49.9	40.2		
6	Salapudur	51.2	40.8		
7	Munnur	47.1	39.1		

11.2.4 SOIL ENVIRONMENT

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

S.No	Parameter	Unit	S1	S2	S3	S4	S5	S6	S7
1	PH	-	8.61	6.66	7.19	6.75	7.12	6.83	7.27
2	EC	µmhos /cm	100.47	51.89	172.14	81.12	197.69	69.94	95.65
3	DRY CONTENT	%	95.17	96.21	97.21	94.32	92.54	91.76	97.62
4	WATER CONTENT	%	4.83	3.79	2.79	5.68	7.46	8.24	2.38
5	ORGANIC MATTER	%	0.48	1.28	1.11	0.83	1.11	1	1.4
6	TOTAL SOLUBLE SULPHATE	-	BDL(D.L.0.02)	BDL(D.L.0.02)	BDL(D.L.0.02)	BDL(D.L.0.02)	BDL(D.L.0.02)	BDL(D.L.0.02)	BDL(D.L.0.02)
7	PHOSPHOROUS	mg/kg	0.92	1.89	2.25	1.42	2.93	3.15	2.55
	TEXTUER	-	SILT LOAM	silty clay	silty clay loam	silt loam	silty clay loam	silt loam	loam
8	SAND	%	28.17	9.48	14.15	25.83	14.16	30.79	35.76
9	SILT	%	62.03	50.4	50.43	72.33	51.15	56.53	52.53
10	CLAY	%	9.80	40.12	35.42	1.84	34.69	12.68	11.71
11	NITROGEN & NITREGENOUS COMPOUNDS	mg/kg	362.5	276.7	301	662.5	320.1	233.2	467.5

12	SODIUM	mg/kg	811	437	1094	610	1124	367	418
13	POTASSIUM	mg/kg	544	689	907	789	937	760	663
14	Water Holding Capacity	Inches /foot	43.5	40.3	44.5	42.4	44.5	43.5	44.5
15	Porosity	%	20.8	19.3	20.5	18.6	20.8	21	21.4

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.

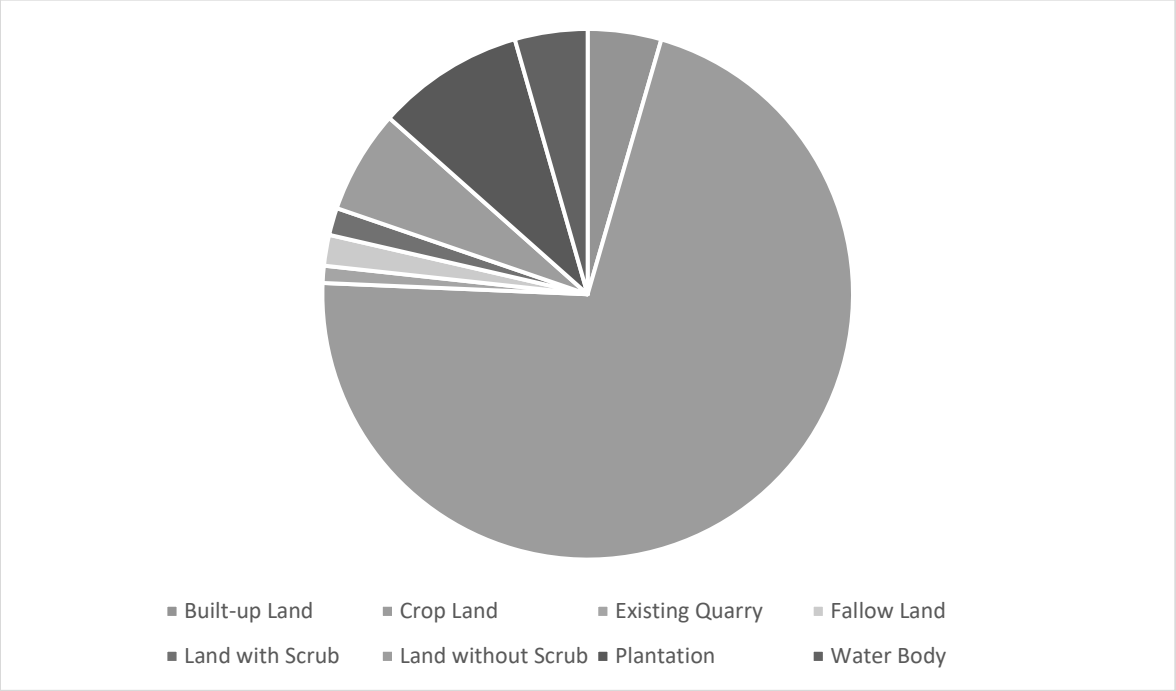
11.2.6 LAND USE

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:

Major Land Use Units of the Study Area in Percentage

S. No	1st Level Classification	Area in (sq.km)	Percentage (%)
1	Built-up Land	14.07	4.51
2	Crop Land	223.53	71.15
3	Existing Quarry	3.27	1.04
4	Fallow Land	5.89	1.87
5	Land with Scrub	5.23	1.66
6	Land without Scrub	19.78	6.29

7	Plantation	28.28	9.06
8	Water Body	13.91	4.42
Total		**314.16**	**100.0**



11.2.7 SOCIO ECONOMIC ENVIRONMENT

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

The following data area collected from secondary data.

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

The expert visited nearby villages in the study area. Discussions were held with the people from nearby locality to study the social and economic conditions prevailing in

the area. The expert also visited nearby hospitals and primary health centres. The following observations were made.

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

11.2.8 HYDROGEOLOGY OF THE LEASE AREA

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

11.2.9 GROUND WATER STUDY

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

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

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

11.3 ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

Environmental impacts on the following environments are identified.

- Land environment
- Water environment

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

12.3.1 LAND ENVIRONMENT: IMPACT AND MITIGATION MEASURES

The major impact due to this project on land environment is the change in land use. Since this quarry is a small one and the production is less, mining activity will be carried out upto 32 m below ground level. Other than quarrying of minerals, no other change will be done since there is no dumping. To prevent soil erosion during monsoon season, garland drain will be constructed with silt traps. At the mine closure stage, 0.79.90 Ha of lease area will be left as rain water harvesting pond. 0.37.35 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 373 trees are planned to be planted. Spacing will be 3m x 3m.

12.3.2 WATER ENVIRONMENT: IMPACT AND MITIGATION MEASURES

There is no water body present inside the lease area. The entire water requirement for the project is 3.0 KLD which will be sourced from outside agencies. Negligible sewage will be generated, for which a septic tank with soak pit will be set up.

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

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

be pumped into the adjacent agricultural fields. Further the water can also be used for plantation purposes

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

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

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

11.3.3 BIOLOGICAL ENVIRONMENT: IMPACT AND MITIGATION MEASURES

Impacts

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

Mitigation measures

- Sirens will be blown before blasting in the mines. To reduce noise levels, plantation will be done. Blasting will be carried out only in the allotted time.
- To reduce dust generation, mist sprayers will be used. During transportation, the material will be covered with tarpaulin. Water sprinkling will be done to reduce generation of pollutants

- After the mine closure stage, the mine pit will be left as rain water collecting tank, which can attract bird population in the nearby areas.
- To prevent entry of animals, the mining area will be properly fenced.

11.3.4 AIR ENVIRONMENT: IMPACT AND MITIGATION MEASURES

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

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

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

11.3.5 NOISE ENVIRONMENT: IMPACT AND MITIGATION MEASURES

Impacts

- Noise generation in mining is due to operation like drilling, blasting and transportation of minerals within and outside the lease area.
- As per DGMS (Directorate General of Mines Safety) and OSHA (Occupational Safety and Health Administration) limits, the acceptable noise level is 85 dB(A) for an exposure period of 8 hours.
- Exposure to loud noise can also cause high blood pressure, heart disease, sleep disturbances, and stress. Noise pollution also impacts the health and well-

being of wildlife.

- Noise exceeding prescribed limits may cause impairment like abnormal loudness perception, tinnitus, which causes a persistent high-pitched ringing in the ears, paracusis or distorted hearing

Mitigation measures

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

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

11.3.6 VIBRATION: IMPACT AND MITIGATION MEASURES

Impacts

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

Mitigation measures

- Carrying out blasting on limited scale, only from 12:00 PM to 2:00 PM
- Control of fly rock and vibration by maintaining peak particle velocity with in standard as prescribed by the DGMS and 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

11.3.7 SOCIO ECONOMIC ENVIRONMENT

Impact and Mitigation measures

No land is acquired from anyone. No rehabilitation is needed. Hence, there is no negative impact. The proponent has planned to spend INR 3,00,000 for CER activities. This amount will be subjected to change after public hearing.

11.3.8 OCCUPATIONAL HEALTH

Impacts

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

Mitigation measures

- Using dust suppression measures like water spraying on roads to reduce rise of air pollutants
- Providing green belt for air pollutant and noise attenuation
- Ensuring slope stability
- Employing only trained professionals for blasting
- Conducting Pre-Medical Examination for employees before inducting
- Conducting periodical Medical Examination once in 6 months.
- Making all first aid kits available in mines office
- Keeping fire extinguisher in place
- Educating the employees about how to handle unexpected happenings
- Posting information containing emergency contact numbers in mines office
- By adopting all these measures, the safety of the employees working in

the quarry will be ensured.

11.3.9 ENVIRONMENTAL MONITORING PROGRAMME

Monitoring is done to measure the efficiency of control measures implemented. Regular monitoring of various environmental parameters like air, water, noise and soil environments is needed to assess the status of environment during the project operation. A schedule is framed with timeline to monitor various parameters during the operation of the project. To evaluate the effectiveness of environmental management programme, regular monitoring of the important environmental parameters will be taken up. Air monitoring will be carried out once in 3 months, water sample will be collected once in a season, noise will be monitored once in 3 months, soil samples will be analyzed once per season. For EMP, a budget of INR 19.96 Lakhs is allocated.

11.3.10 PROJECT BENEFITS

Financial benefits

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

Social benefit

- This project provides employment to 25 Nos. Local people will be hired for unskilled labour.
- Through CSR, nearby schools, hospitals will be benefitted.
- For CSR, INR 3,00,000 is allocated.
- Based on the demand of the people during public hearing, further funds will be allocated, if necessary.

Various aspects of mining activities were considered and related impacts were evaluated. Considering all the possible ways to mitigate the environmental concerns Environmental Management Plan was prepared and 19.96 lakhs for the five 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 1.19.25 Ha, while total cluster area of 6.13.65 Ha at Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State. (ToR Identification No. - TO26B0108TN5944134N, Dated: 13.04.2026).

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

EIA Coordinator Name: M. Manikandan

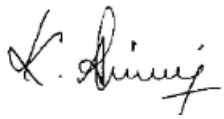


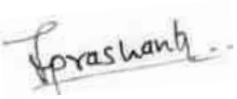
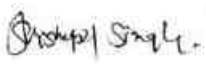
Signature & Date

Period of involvement: December 2025 to February 2026.

Contact information:

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

S. No.	*Functional areas*	*Name of the expert/s*	*Involvement (period and task**)*	*Signature and Date*
1	*AP*	*Dhanalakshmi Ramanathan*	*Assessment of existing air quality, Impact of the project on ambient air and suggested mitigation measures for air pollution.* *Period: December 2025 to February 2026.*	
2	*WP*	*Abirami Kaliaperumal*	*Assessment of existing water quality, impact of the project on surface and ground water quality, suggested mitigation measures for minimizing the impact.* *Period: December 2025 to February 2026.*	
3	*SHW*	*Ramadoss N*	*Assessment of waste generated from the project, suggested waste management practices.* *Period: December 2025 to February 2026.*	
4	*SE*	*Sarasvathy K*	*Baseline SE studies. Data compilation and assessment. Impact of the project on SE status of the area. Formulation of CER plan.* *Period: December 2025 to February 2026.*	
5	*EB*	*Saravanan S*	*Baseline data collection of related to ecology of the area.* *Period: December 2025 to February 2026.*	
6	*HG*	*Ravinthiran N*	*Hydrogeological feature of the area. Ground water depth and impact of project on ground water of the area.* *Period: December 2025 to February 2026.*	
7	*AQ*	*Srilatha Thiruveedhula*	*Air quality modeling utilizing the area source model. Predication of the ground level concentration of the dust. Suggesting suitable mitigation measures.*	

			Period: December 2025 to February 2026.	
8	*NV*	*Dhanalakshmi Ramanathan*	*Ambient noise study of the area. Incremental noise generation due to quarry operation and impact of the noise due to the project.* *Period: December 2025 to February 2026.*	
9	*LU*	*Srilatha Thiruveedhula*	*Preparation of land use map based on satellite imagery. Land use classification and analysis. Impact prediction of the project on the surrounding land environment.* *Period: December 2025 to February 2026.*	
10	*RH*	*S.V. Prashant*	*Identification of the Risk related to the mining activities. Preparation of emergency disaster management plan. Plan for supply of safety equipment for the worker.* *Period: December 2025 to February 2026.*	
11	*SC*	*Shisupal Sing*	*Soil monitoring, secondary data collection on soil type, soil management practices, utilization of topsoil.* *Period: December 2025 to February 2026.*	
12	*GEO*	*Valliappan Meyyappan*	*Geological map, stability of quarry and dump, management plan for mine stability, after use of mining quarry and geological feature of the area.* *Period: December 2025 to February 2026.*	

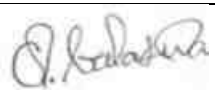
TM- EC

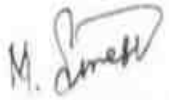
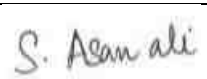
S.No	*Name of TM (EC)*	*Sector(s) proposed*	*Approved (to work under)*	*Period of involvement*	*Type of work*	*Signature*
1.	*Abirami*	*1*	*Manikandan Manickam*	*Period: December 2025 to February 2026.*	*Associated with EIA Coordinator in overall preparation of Draft EIA/EMP report.*	

TM- FAE:

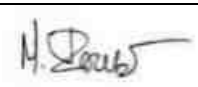
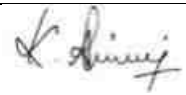
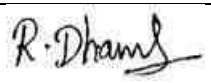
S. No	**Name of TM (FAE)**	**Functional Area**	**Approved FAE (to work under)**	**Period of involvement**	**Type of work**	**Signature**
1	Kamaraj S	LU	Srilatha Thiruveedhula	Period: *December 2025 to February 2026.*	Associated with Experts in preparing Land use map based on satellite imagery, Land use classification and analysis, Impact prediction on	

					surrounding land environment.	
		HG	Ashok Kumar Rajagopal	*Period: December 2025 to February 2026.*	Associated with Experts in studying hydrogeological pattern of study area, Studying ground water and the impact of the project on ground water	
2	B.J.Sampatkkumar	SE	Saraswathy K	*Period: December 2025 to February 2026.*	Assisted by the Expert in preparation of socio-economic report.	
		SC	Shishupal Singh	*Period: December 2025 to February 2026.*	Assisted by the Expert in interpretation of soil sampling and their quality involved in the project.	
3	Mownica Balaji	NV	Dhanalakshmi Ramanathan	*Period: December 2025 to February 2026.*	Associated with the expert team in suggesting control measures for noise and Ground Vibration.	

		AP	Dhanalakshmi Ramanathan		Associated with expert team in assessing existing air quality, impact of the project on ambient air and suggesting mitigation measures for air pollution	
4	Balasubramani G	NV	Dhanalakshmi Ramanathan	*Period: December 2025 to February 2026.*	Associated with the expert in selection of base line monitoring stations, Review of Noise quality results, Review of emission sources – drilling, blasting, excavation and transportation, Identification of impacts on environment, identification of remedial measures and input to EIA preparation	

		Geo	Valliappan Meyyappan		Associated with the expert in preparing Geological map.	
5	Suresh Mani	LU	Srilatha Thiruveedhula	*Period: December 2025 to February 2026.*	Associated with Experts in preparing Land use map based on satellite imagery, Land use classification and analysis, Impact prediction on surrounding land environment.	
		HG	Ashok Kumar Rajagopal		Associated with Experts in studying hydro-geology pattern of study area, studying water and the impact of the project on ground water.	
6	Asan Ali S	NV	Srilatha Thiruveedhula	*Period: December 2025 to February 2026.*	Associated with the expert in monitoring and analysis of blast induced ground vibration in order to	

					develop the site-specific equation for its prediction, monitoring of fly rocks & air blast (noise), preparation of SOP's for the safety blasting practice in the mines.	
		Geo	Valliappan Meyyappan		Associated with the Qualified Person & Experts in preparing Geological map, assessing stability of quarry slope faces and dump, management plan for mine stability and after use of mining quarry and geological features of the area during mine plan preparation.	

7	Prabu M	Geo	Valliappan Meyyappan	*Period: December 2025 to February 2026.*	Associated with Experts and involved in Field Investigations, Mapping /Geo-referencing	
8	Abirami Kaliyaperumal	RH	S V Prashant	*Period: December 2025 to February 2026.*	Associated with experts and involved in the identification risk and hazard, suggesting safeguard measures.	
9	Dhanalakshmi Ramanathan	AQ	Srilatha Thiruveedhula	*Period: December 2025 to February 2026.*	Involved with Expert team and involved in calculating air emission values using Meteorological data and Providing inputs for running modelling (ISCT3, AERMOD).	
10	Manikandan Manickam	AP	Ramadoss N	*Period: December 2025 to*	Associated with expert team in assessing existing air quality, impact	

				February 2026.	of the project on ambient air and suggesting mitigation measures for air pollution	
		WP	Abirami Kaliyaperumal		Involved in the identification of source of water and waste generation, suggesting treatment for safe disposal of wastewater	

ANNEXURE-1

File No: 13506
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA), TAMIL NADU)
***

Dated: **13/04/2026**

To,

Thiru. K. Nagaraj
S/o. Kumar, No.12/1A, Porkodi Compound, Puthukadu 2nd Street, Tiruppur T.C. Market, Tiruppur - 641604. TAMIL NADU.
k.nagarajnaga4620@gmail.com

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

Sir/Madam,

Sub: SEIAA, Tamil Nadu – Proposed Rough Stone and Gravel Quarry over an extent of 1.19.25 Ha in S.F.Nos. 127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) in Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu by Thiru. K. Nagaraj - under project category – "B1" of Item 1(a) "Mining of Minerals" of the Schedule to the EIA Notification, 2006– **ToR issued along with Public Hearing**-preparation of EIA report – Regarding.
Ref: 1. Online proposal No. SIA/TN/MIN/571189/2026, Dated 04/03/2026.
2. Minutes of the 697th meeting of SEAC-II held on 26.03.2026.
3. Minutes of the 990th meeting of SEIAA held on 07.04.2026

2. The particulars of the proposal are as below:

(i) TOR Identification No.	TO26B0108TN5944134N
(ii) File No.	13506
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vi) Name of Project	Proposed Rough Stone & Gravel Quarry of Thiru.K.Nagaraj
(vii) Name of Company/Organization	NAGARAJ
(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 07.04.2026. The minutes of the meeting and all the Application and documents submitted [viz. Form-1 Part A, Part B] are available on PARIVESH portal which can be accessed by scanning the QR Code above.
3.The State Expert Appraisal Committee (SEAC), based on the information & clarifications provided by the project proponent and after detailed deliberations on all technical aspects recommended the proposal for grant of Terms of Reference with public hearing under the provision of EIA Notification, 2006 and as amended thereof subject to the stipulation of specific and general conditions as detailed in Annexure (2).
4.The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the SEAC hereby decided to issue the following Terms of Reference with public hearing for instant proposal of **Thiru. K. Nagaraj** under the provisions of EIA Notification, 2006 and as amended thereof.
5.The Ministry/SEIAA-TN reserves the right to stipulate additional conditions, if found necessary.
6.The Terms of Reference with public hearing to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
7.This issues with the approval of the Competent Authority.
8.The TORs with public hearing prescribed shall be valid for a period of three years from the date of issue, for submission of the EIA/EMP report as per OMNo.J-11013/41/2006-IA-II(I)(part) dated 29th August, 2017.

Copy To

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

Annexure 1

Specific Terms of Reference s for (Mining Of Minerals)

1. Seiaa Specific Conditions :

S. No	Terms of Reference
1.1	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 95,750m^3 of Rough Stone & 10,440m^3 of Gravel up to a depth of 32m BGL and annual peak production shall not exceed 20,170m^3 of Rough Stone & 6,048m^3 of Gravel** as per the approved mining plan, under cluster for undertaking the combined Environment Impact Assessment Study and preparation of

S. No	Terms of Reference
	separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions & SEIAA Specific & Standard conditions.

2. Seiaa Standard Conditions :

S. No	Terms of Reference
2.1	**<u>Cluster Management Committee</u>** 1. Cluster Management Committee shall be framed which must include all the proponents in the cluster as members including the existing as well as proposed quarry. 2. The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc., 3. The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease and the same shall be updated every year to the AD/Mines. 4. Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network. 5. The committee shall deliberate on risk & emergency management plan, fire safety & evacuation plan and sustainable development goals pertaining to the cluster in a holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan. 6. The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the Environmental policy devised shall be given in detail in the EIA Report. 7. The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner. 8. The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public in the vicinity. **<u>Agriculture & Agro-Biodiversity</u>** 9. Impact on surrounding agricultural fields around the proposed mining Area. 10. Impact on soil flora & vegetation around the project site. 11. Details of type of vegetation including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetation all along the boundary of the proposed mining area shall committed mentioned in EMP. 12. The Environmental Impact Assessment should study the agro-biodiversity, agro- forestry, horti-cultural plantations, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem. 13. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services. 14. The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock. **<u>Forests</u>** 15. The project proponent shall detailed study on impact of mining on Reserve forests and free ranging wildlife. 16. The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna. 17. The Environmental Impact Assessment should study impact on standing trees and the existing 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.

S. No	Terms of Reference
	Water Environment 19. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the entire mine lease period. 20. Erosion Control measures. 21. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas. 22. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir. 23. The project proponent shall study and furnish the details on potential fragmentation impact on natural Environment, by the activities. 24. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts. 25. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components. 26. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites. 27. The EIA shall include the impact of mining activity on the following: a) Hydrothermal/Geothermal effect due to destruction in the Environment. b) Bio-geochemical processes and its foot prints including Environmental stress. c) Sediment geochemistry in the surface streams. **Energy** 28. The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilise the Energy shall be furnished. **Climate Change** 29. The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities. 30. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock, soil health and physical, chemical & biological soil features. 31. Impact of mining on pollution leading to GHGs emissions and the impact of the same on the local livelihood. **Mine Closure Plan** 32. Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued. **EMP** 33. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued and the scope for achieving SDGs. 34. The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan. **Risk Assessment** 35. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining. **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

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

SEAC conditions - Site specific

Major Conditions:

1. The PP shall mark the DGPS reference pillars and shall also erect fencing all around the boundary of the proposed area with gates for entry/exit and shall furnish the latest photographic/videographic proof showing the same during EIA appraisal.

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.
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 & 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.
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/videographic evidence along with the EIA report.

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 waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry.
5. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
6. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, 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 the hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds, etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon

seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.

21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
28. Impact on local transport infrastructure due to the Project should be indicated.
29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.

30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
32. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
34. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
35. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.

39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
41. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

STANDARD TERMS OF REFERENCE

1) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2) A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topo sheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5) Information should be provided in Survey of India Topo sheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and

rivers and soil characteristics.

6) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
7) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
12) Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.

13) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of Net Present Value (NPV) and Compensatory Afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.

14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.

15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.

16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.

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

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

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

20) Similarly, for Coastal Projects, a CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease with respect to CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
21) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.
22) One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
23) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of Vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
24) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the

Project should be indicated.

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

contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.

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

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

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

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

1. Project name and location (Village, District, State, Industrial Estate (if applicable).
2. Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
3. Measures for mitigating the impact on the environment and mode of discharge or disposal.
4. Capital cost of the project, estimated time of completion.
5. The proponent shall furnish the contour map of the water table detailing the number of wells located around the site and impacts on the wells due to mining activity.
6. A detailed study of the lithology of the mining lease area shall be furnished.
7. Details of village map, "A" register and FMB sketch shall be furnished.
8. Detailed mining closure plan for the proposed project approved by the Geology of Mining department shall be shall be submitted along with EIA report.
9. Obtain a letter /certificate from the Assistant Director of Geology and Mining standing that there is no other Minerals/resources like sand in the quarrying area within the approved depth of mining and below depth of mining and the same shall be furnished in the EIA report.
10. EIA report should strictly follow the Environmental Impact Assessment Guidance Manual for Mining of Minerals published February 2010.
11. Detail plan on rehabilitation and reclamation carried out for the stabilization and restoration of the mined areas.
12. The EIA study report shall include the surrounding mining activity, if any.
13. Modeling study for Air, Water and noise shall be carried out in this field and incremental increase in the above study shall be substantiated with mitigation measures.
14. A study on the geological resources available shall be carried out and reported.
15. A specific study on agriculture & livelihood shall be carried out and reported.
16. Impact of soil erosion, soil physical chemical and biological property changes may be assumed.
17. Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./ private land, status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10km other industries, forest , eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)
18. Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population
19. Identification of hazards in handling, processing and storage of hazardous material and

safety system provided to mitigate the risk.

20. Likely impact of the project on air, water, land, flora-fauna and nearby population
21. Emergency preparedness plan in case of natural or in plant emergencies
22. Issues raised during public hearing (if applicable) and response given
23. CER plan with proposed expenditure.
24. Occupational Health Measures
25. Post project monitoring plan
26. The project proponent shall carry out detailed hydro geological study through intuitions/NABET Accredited agencies.
27. A detailed report on the green belt development already undertaken is to be furnished and also submit the proposal for green belt activities.
28. The proponent shall propose the suitable control measure to control the fugitive emissions during the operations of the mines.
29. A specific study should include impact on flora & fauna, disturbance to migratory pattern of animals.
30. Reserve funds should be earmarked for proper closure plan.
31. A detailed plan on plastic waste management shall be furnished. Further, the proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throw away plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986. In this connection, the project proponent has to furnish the action plan.

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

a. A note confirming compliance of the TOR, with cross referencing of the relevant sections / pages of the EIA report should be provided.
b. All documents may be properly referenced with index, page numbers and continuous page numbering.
c. Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.
d. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF& CC vide O.M. No. J-11013/41/2006-IA.II (I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.

e. The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India (QCI)/National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. In this regard circular no F. No.J -l1013/77/2004-IA-II(I) dated 2nd December, 2009, 18th March 2010, 28th May 2010, 28th June 2010, 31st December 2010 & 30th September 2011 posted on the Ministry's website http://www.moef.nic.in/ may be referred.

- After preparing the EIA (as per the generic structure prescribed in Appendix-III of the EIA Notification, 2006) covering the above mentioned points, the proponent willtake further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.
- The final EIA report shall be submitted to the SEIAA, Tamil Nadu for obtaining Environmental Clearance.
- The TORs with public hearing prescribed shall be **valid for a period of three years** from the date of issue, for submission of the EIA/EMP report as per OMNo.J-11013/41/2006-IA-II(I)(part) dated 29th August, 2017.

ANNEXURE-2

ANNEXURE I

ந.க.எண். 170/கனிமம்/2024

மாவட்ட ஆட்சியர் அலுவலகம்,
புவியியல் மற்றும் சுரங்கத்துறை,
கரூர்

நாள்:09 .12.2025.

குறிப்பாணை

பொருள்: **கனிமங்களும் குவாரிகளும்** - கரூர் மாவட்டம் - புகழூர் வட்டம் - அத்திப்பாளையம் கிராமம், பட்டா புல எண்கள்.127/2(P) (0.28.75 ஹெக்டேர்ஸ்), 127/3A (0.08.00 ஹெக்டேர்ஸ்), 127/4A(P) (0.40.25 ஹெக்டேர்ஸ்), 127/7A(P) (0.30.75 ஹெக்டேர்ஸ்) மற்றும் 127/8A(P) (0.19.50 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 1.27.25 ஹெக்டோஸ் பரப்பில் - சாதாரணகற்கல் மற்றும் கிராவல் குவாரி குத்தகை உரிமம் வேண்டி திரு.K.நாகராஜ் என்பவர் விண்ணப்பம் செய்தது - வருவாய் கோட்டாட்சியர் நிலயிருப்பு அறிக்கை வரப்பெற்றது - உதவி இயக்குநர் புலத்தணிக்கை மேற்கொண்டு அறிக்கை சமர்ப்பித்தது - புல எண்.127/3A அருகே ஓடை செல்வதால் ஓடைக்கு அருகில் உள்ள மேற்படி புல எண்ணை தவிர்த்து மீதம் உள்ள புல எண்கள். 127/2(P) (0.28.75 ஹெக்டேர்ஸ்), 127/4A(P) (0.40.25 ஹெக்டேர்ஸ்), 127/7A(P) (0.30.75 ஹெக்டேர்ஸ்) மற்றும் 127/8A(P) (0.19.50 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 1.19.25 ஹெக்டோஸ் தகுதியான நிலப்பரப்பாக கருதி ஏற்பளிக்கப்பட்ட சுரங்க திட்டம் மற்றும் மாநில சுற்றுச்சூழல் தாக்கல் மதிப்பீட்டு ஆணைய இசைவினை பெற்று சமர்பிக்கக் கோருதல் - தொடர்பாக.

பார்வை:

1. திரு.K.நாகராஜ், த/பெ.குமார், நெ.12/1ஏ, பொற்கொடி காம்பவுண்ட், புதுகாடு 2 வீதி, திருப்பூர் டி.சி.மார்க்கெட், திருப்பூர் - 641604 குவாரி குத்தகை உரிமம் வழங்கக் கோரும் விண்ணப்பம் நாள்: 11.06.2024.
2. திரு.K.நாகராஜ், என்பவரின் திருத்திய விண்ணப்பம் இவ்வலுவலகத்தில் பெறப்பட்ட நாள்:03.01.2025
3. வருவாய் கோட்டாட்சியர், கரூர் அவர்களின் நில இருப்பு அறிக்கை ந.க.எண்.அ1/2831/2025 , நாள்:15.10.2025.
4. உதவி இயக்குநர் மற்றும் தனிவருவாய் அலுவலர், புவியியல் மற்றும் சுரங்கத்துறை கரூர் ஆகியோரின் கூட்டு புலத்தணிக்கை அறிக்கை நாள்: 13.11.2025.
5. 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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K. Nagaraj



கரூர் மாவட்டம், புகளூர் வட்டம், அத்திப்பாளையம் கிராமம், பட்டா புல எண்கள். 127/2 (0.43.00 ஹெக்டேர்ஸ்), 127/3A (0.08.00 ஹெக்டேர்ஸ்), 127/4A (0.67.00 ஹெக்டேர்ஸ்), 127/4C (0.12.0 ஹெக்டேர்ஸ்), 127/7A (0.55.00 ஹெக்டேர்ஸ்), 127/8A (0.47.50 ஹெக்டேர்ஸ்) மற்றும் 127/8C(P) (0.08.00 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 2.40.50 ஹெக்டேர்ஸ் பரப்பு நிலத்திலிருந்து பத்து ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க நெ.12/1ஏ, பொற்கொடி காம்பவுண்ட், புதுகாடு 2 வீதி, திருப்பூர் டி.சி.மார்க்கெட், திருப்பூர் - 641604 என்ற முகவரியில் வசித்து வரும் திரு.K.நாகராஜ், த/பெ.குமார் என்பவர் பார்வை 1-இல் கண்டுள்ளவாறு விண்ணப்பம் செய்துள்ளார்.

பார்வை 2-இல் காணும் விண்ணப்பத்தில் திரு.K.நாகராஜ் என்பவர் தான் ஏற்கனவே விண்ணப்பித்த இடத்திற்கு அருகே ஓடை செல்வதால் ஓடைக்கு அருகில் உள்ள புல எண்களை தவிர்த்து மீதம் உள்ள பட்டா புல எண்கள். 127/2(P) (0.28.75 ஹெக்டேர்ஸ்), 127/3A (0.08.00 ஹெக்டேர்ஸ்), 127/4A(P) (0.40.25 ஹெக்டேர்ஸ்), 127/7A(P) (0.30.75 ஹெக்டேர்ஸ்) மற்றும் 127/8A(P) (0.19.50 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 1.27.25 ஹெக்டோஸ் பரப்பில் மட்டும் பத்து ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க கோரியுள்ளார்.

எனவே, பார்வை -3 இல் விண்ணப்பம் தொடர்பாக, வருவாய் கோட்டாட்சியர், கரூர் அவர்கள் புலத்தணிக்கை மேற்கொண்டு கரூர் மாவட்டம், புகழூர் வட்டம், அத்திப்பாளையம் கிராம புல எண்.127/3A அருகே ஓடை செல்வதால் ஓடைக்கு அருகில் உள்ள மேற்படி புல எண்ணை தவிர்த்து மீதம் உள்ள புல எண்கள்.127/2(P) ஹெக்டேர் 0.28.75 ஏர்ஸ், 127/4A(P) ஹெக்டேர் 0.40.25 ஏர்ஸ் 127/7A(P) ஹெக்டேர் 0.30.75 ஏர்ஸ், 127/8A(P) ஹெக்டேர் 0.19.50 ஏர்ஸ் ஆகியவற்றின் மொத்தம் ஹெக்.01.19.25 ஏர்ஸ் நிலப்பரப்பில் திரு.K.நாகராஜ் என்பவருக்கு பத்து ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க குத்தகை உரிமம் வழங்கலாம் எனப் பரிந்துரை செய்துள்ளார்.

எனவே, பார்வை -4 இல் மேற்படி விண்ணப்பம் தொடர்பாக உதவி புவியியலாளர், மற்றும் தனி வருவாய் ஆய்வாளர், புவியியல் மற்றும் சுரங்கத்துறை, கரூர் ஆகியோர் புலத்தணிக்கை மேற்கொண்டு கரூர் மாவட்டம், புகழூர் வட்டம், அத்திப்பாளையம் கிராம புல எண்.127/3A அருகே ஓடை செல்வதால் ஓடைக்கு அருகில் உள்ள மேற்படி புல எண்ணை தவிர்த்து மீதம் உள்ள புல எண்கள். 127/2(P) (0.28.75 ஹெக்டேர்ஸ்), 127/4A(P) (0.40.25 ஹெக்டேர்ஸ்), 127/7A(P) (0.30.75 ஹெக்டேர்ஸ்) மற்றும் 127/8A(P) (0.19.50 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 1.19.25 ஹெக்டோஸ் பரப்பில் மட்டும் தமிழ்நாடு சிறு கனிமச்சலுகை விதிகளில் விதி எண்கள்.19-(1), 20 மற்றும் 33-இன் கீழ் திரு.K.நாகராஜ் என்பவருக்கு 10

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ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி வழங்கலாம் என பரிந்துரை செய்துள்ளார்.

எனவே, வருவாய் கோட்டாட்சியர், கரூர் மற்றும் உதவி இயக்குநர் மற்றும் தனிவருவாய் ஆய்வாளர், புவியியல் மற்றும் சுரங்கத்துறை, கரூர் ஆகியோரின் பரிந்துரைகள், விண்ணப்பதாரரின் கோரிக்கை மற்றும் நிபந்தனைகளின் அடிப்படையில் கரூர் மாவட்டம், புகளூர் வட்டம், அத்திப்பாளையம் கிராமம், பட்டா புல எண்கள். 127/2(P) (0.28.75 ஹெக்டேர்ஸ்), 127/4A(P) (0.40.25 ஹெக்டேர்ஸ்), 127/7A(P) (0.30.75 ஹெக்டேர்ஸ்) மற்றும் 127/8A(P) (0.19.50 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 1.19.25 ஹெக்டேர்ஸ் பரப்பில் 1959-ம் வருட தமிழ்நாடு சிறுகனிம விதிகள், விதி எண். 19(1), 20 மற்றும் 33-இன்படியும் மேலும் கீழ்கண்ட நிபந்தனைகளுக்கு உட்பட்டு பத்து வருட காலத்திற்கு திரு.K.நாகராஜ், என்பவருக்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்குவதற்குரிய தகுதியான நிலப்பரப்பாக கருதப்படுகிறது.

சிறப்பு நிபந்தனைகள்:-

விண்ணப்ப புலத்திற்கு தெற்கில் செல்லும் வாய்க்காலுக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு 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 ப்யன்படுத்தியும், 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.

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எனவே, தமிழ்நாடு சிறு கனிம சலுகை விதிகள்-1959 விதி எண்.41-இன்படி குவாரிப்பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்க திட்டத்தினை 90 தினங்களுக்குள் இணையவழியில் சமர்ப்பிக்குமாறு திரு.K.நாகராஜ், என்பவர் கேட்டுக்கொள்ளப்படுகிறார். மேலும் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தின் தொடர்ச்சியாக 1959-ஆம் வருடத்திய தமிழ்நாடு சிறுகனிம சலுகை விதிகள், விதி எண்.42-இன்படி சுற்றுச்சூழல் தாக்கல் மதிப்பீட்டு ஆணையத்தின் இசைவினைப் பெற்று சமர்ப்பிக்கும் பட்சத்தில் மட்டுமே குவாரி உரிமம் வழங்கப்படும் என இதன் மூலம் தெரிவிக்கப்படுகிறது.

ஒம்/-திரு.பொ.ஜெயபால்
துணை இயக்குநர்,
புவியியல் மற்றும் சுரங்கத்துறை,
கரூர்.

//உண்மை நகல்/ உத்தரவுபடி//

உதவி இயக்குநர், 9/12/25
புவியியல் மற்றும் சுரங்கத்துறை,
கரூர்.

9/12/25

பெறுநர்
திரு.K.நாகராஜ்,
த/பெ.குமார்,
நெ.12/1ஏ, பொற்கொடி காம்பவுண்ட்,
புதுகாடு 2 வீதி,
திருப்பூர் டி.சி.மார்க்கெட்,
திருப்பூர் - 641604.

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

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ANNEXURE-3

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

To
Thiru.K.Nagaraj,
S/o.Kumar,
No.12/1A, Porkodi Compund,
Puthukadu 2nd Street,
Tiruppur T.C. Market,
Tiruppur District

Rc.No.170/Mines/2024, Dated: 02.01.2026

Sir,

Sub: Mines and Minerals – Minor Mineral – Karur District – Pugalur Taluk – Athipalayam Village - Patta land in S.F.Nos. 127/2(P) (0.28.75 hectares), 127/4A(P) (0.40.25 hectares), 127/7A(P)(0.30.75 hectares), and 127/8A(P) (0.19.50 hectares) Over an extent of 1.19.25 hectares - Quarry lease application preferred by Thiru.K.Nagarajan 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 application for quarrying Rough stone and Gravel preferred by Thiru.K.Nagaraj, S/o.Kumar, No.12/1A, Porkodi Compund, Puthukadu 2nd Street, Tiruppur T.C. Market, Tiruppur District, dated: 11.06.2024.
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.A1/132/2025, dt: 03.11.2025.
7. Deputy Director, Geology and Mining, Karur Notice Rc.No.170/Mines/2024, Dated:09.12.2025

8. Mining Plan submitted by Thiru.K.Nagaraj, letter received in this office on 18.12.2025.

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In the reference 1st cited Thiru.K.Nagaraj, S/o.Kumar, No.12/1A, Porkodi Compund, Puthukadu 2nd Street, Tiruppur T.C. Market, Tiruppur District has preferred an application for the grant of Ten years lease to quarry Rough Stone and Gravel over an extent of 1.19.25 hectares of patta land in S.F.Nos.127/2(P) (0.28.75 hectares), 127/4A(P) (0.40.25 hectares), 127/7A(P)(0.30.75 hectares), and 127/8A(P) (0.19.50 hectares) of Athipalayam Village, Pugalur 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 Director and Special Revenue Inspector, Geology and Mining, Karur in the reference 7th cited. In perusal to that the draft mining plan submitted by the applicant as per the Rule 41 in the reference 8th cited.

The above submitted mining plan for the grant of Rough stone and Gravel quarry lease patta land in S.F.Nos.127/2(P) (0.28.75 hectares), 127/4A(P) (0.40.25 hectares), 127/7A(P)(0.30.75 hectares), and 127/8A(P) (0.19.50 hectares) Over an extent of 1.19.25 hectares of Athipalayam Village, Pugalur 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 10 years.
b. The Geological reserve in the subject area is assessed 3,57,600m^3/9,83,400 MT of Rough Stone and 23,840 m^3/47,680 MT of Gravel upto a depth of 32m below ground level only.
c. The Mineable reserve is estimated as 95,750m^3/2,63,312.50 MT of Rough Stone and 10,440 m^3/20,880 MT of Gravel upto a depth of 32m below ground level only.

d. The total quantity proposed to quarry 95,750m³/2,63,312.50 MT of Rough Stone for 5 years and 10,440 m³/20,880 MT of Gravel first Two years only upto a depth of 32m below ground level only.

e. Machineries like compressors, jack hammers, Hydraulic excavators with Rock Breaker attachment are proposed for quarrying operation.

f. Water table level in the area applied is about 78 m during the year.

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 (1:10,000) 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.170/Mines/20225, Dated.09.12.2025 the following conditions are incorporated in the Mining Plan plates.

சிறப்பு நிபந்தனைகள்:-

விண்ணப்ப புலத்திற்கு தெற்கில் செல்லும் வாய்க்காலுக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு 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.

Sd/-P.Jayapal,
Deputy Director,
Geology and Mining,
Karur.

/True Copy/ By Order/

For Deputy Director,
Geology and Mining,
Karur.

APPROVAL MINING PLAN

MINING PLAN FOR ATHIPALAYAM 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	:	PUGALUR
VILLAGE	:	ATHIPALAYAM
S.F.NOS	:	127/2(P), 127/4A(P), 127/7A(P) AND 127/8A(P)
EXTENT	:	1.19.25Ha

FOR

APPLICANT

Thiru.K.Nagaraj,
S/o.Kumar,
No.12/1A, Porkodi Compound,
Puthukadu 2nd Street, Tiruppur T.C. Market,
Tiruppur -641604.

This Mining Plan is approved subject to the conditions/stipulations indicated in the Mining Plan approval Letter No: 170/mines/2024 Dated: 02.01.2026

PREPARED BY

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

ECO-FRIENDLY



SUSTAINABILITY



SAFETY





(PPE)

K.Nagaraj,
S/o.Kumar,
No.12/1A, Porkodi Compound,
Puthukadu 2nd Street,
Tiruppur T.C. Market,
Tiruppur -641604.

CONSENT LETTER FROM THE APPLICANT

The Mining Plan in respect of **Rough Stone and Gravel** quarry over an extent of 1.19.25hectares of Patta lands in S.F.Nos.127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) of Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State has been prepared by

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

I request the Deputy/Assistant 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.

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

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

Signature of the Applicant

K.Nagaraj,

Place: Tiruppur
Date: 10.12.2025

K.Nagaraj

K.Nagaraj,
S/o.Kumar,
No.12/1A, Porkodi Compound,
Puthukadu 2nd Street,
Tiruppur T.C. Market,
Tiruppur -641604.

DECLARATION

The Mining Plan in respect of **Rough Stone and Gravel** quarry over an extent of 1.19.25hectares of Patta lands in S.F.Nos.127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) of Athipalayam Village, Pugalur 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

K.Nagaraj,

Place: Tiruppur
Date: 10.12.2025

K.Nagaraj

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

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 1.19.25hectares of Patta lands in S.F.Nos.127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) of Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State applied by Thiru.K.Nagaraj, for fresh quarry lease.

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

Certified
Signature of Qualified Person.

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

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

Place: Salem
Date: 11.12.2025

K. Nagaraj

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

CERTIFICATE

Certified that, in preparation of Mining Plan for **Rough Stone and Gravel** quarry over an extent of 1.19.25hectares of Patta lands in S.F.Nos.127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) of Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State for Thiru.K.Nagaraj, covers all the provisions of Mines Act, Rules, and Regulations etc made there under and whenever specific permission are required, the applicant will approach the Director General of Mines Safety, Chennai. The standards prescribed by DGMS in respect of Mines Health will be strictly implemented.

Certified

Signature of Qualified Person.

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

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

Place: Salem
Date: 11.12.2025

K. Nagaraj

CERTIFICATE

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

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

Accordingly I prepared this Mining Plan in respect of Rough Stone and Gravel quarry lease applied for an extent of 1.19.25Ha of (Patta land) in S.F.Nos.127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) of Athipalayam Village, Pugalur Taluk, Karur District, by Thiru.K.Nagaraj, for a period of Ten years. Since the Mining Plan is prepared as per the provisions contained in Rule 15(1) (a) and (b) of Minerals (Other than Atomic, Hydro Carbons Energy Minerals) concession Rules 2016, the same may be approved by the Competent Authority.

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

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

Place: Salem
Date: 11.12.2025

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K. Nagaraj

Annexure

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2.0	Environmental Plan	I-A
3.0	Satellite imagery map	I-B
4.0	Topo sketch of Quarry lease applied area for 10Km Radius	I-C
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9.0	Year wise Development and Production Plan & Sections	V
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MINING PLAN FOR MINOR MINERALS

ROUGH STONE AND GRAVEL

Over an extent of 1.19.25hectares of Patta land in S.F.Nos. 127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) of Athipalayam Village, Pugalur 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 Thiru.K.Nagaraj, S/o.Kumar, No.12/1A, Porkodi Compound, Puthukadu 2nd Street, Tiruppur T.C. Market, Tiruppur -641604.
2. The application was processed by the Deputy/Assistant Director, Department of Geology and Mining, Karur, and passed an order vide Rc.No.170/Kanimam/2024 dated 09.12.2025 directing the applicant to produce approved Mining Plan under Rule 41(5) of the Tamil Nadu Minor Mineral Concession Rules, 1959 and Environmental Clearance Certificate under Rule 42 from the State Level Environmental Impact Assessment Authority (SEIAA) for the grant of quarry lease to quarry Rough Stone and Gravel over an extent of 1.19.25 hectares of Patta lands in S.F.Nos.127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) of Athipalayam Village, Pugalur Taluk, Karur District of Tamil Nadu State for a period of Ten years.
3. Accordingly, Mining Plan is prepared under the provisions of rule 19(1), 41 and 42 as per the amendments under Tamil Nadu Minor Mineral Concession Rules, 1959 by incorporating following the conditions imposed in the precise area communication letter.
   a) A 7.5 meters of safety distance should be left out for the adjacent patta lands and 10 meters of safety distance should be left out for the adjacent government lands while quarrying operation should not cause any damage while quarrying operations.

This Mining Plan is approved subject to the conditions/stipulations indicated in the Mining Plan approval Letter No: 1(FO.1/Mines)/2024 Dated: 02.01.2026

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).

Special conditions:

a) 50 meters of safety distance should be left to the Vaikkal passing in South side while quarrying operation

4. Geological Resources is estimated at 9,83,400Ts of Rough stone, 47,680Ts of gravel. Mineable Reserves is estimated at 2,63,312.50Ts of Rough Stone, 20,880Ts 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 2,63,312.50Ts of Rough Stone, 20,880Ts 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.

K. Nagaraj

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

9. Environmental measures to be adopted shall be,

i) Dust Control at source while drilling and blasting,

ii) Dust suppression at loading point and transport haul roads,

iii) Noise Control in blasting, control of fly rock missiles and vibration by doing peak particle velocity with in standard as prescribed by the DGMS and MOEF.

iv) Unnecessary land degradation should be avoided or damaged land should be reclaimed or rehabilitated.

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

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

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

viii) Noise level should not exceed 80db and the vehicles should use only permitted Air Horn while on road near residential areas.

ix) Safety zones as prescribed by the Department of Geology and Mining from adjacent infrastructures should be strictly adhere to.

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

K. Nagaraj

EXECUTIVE SUMMARY:

a.	Name of the Village Panchayat	:	Athipalayam
b.	Name of the Panchayat Union	:	K.Paramathi
c.	The proposed total Minable Reserves	:	2,63,312.50Ts of Rough Stone 20,880Ts of gravel
d.	The proposed quantity of reserves (level of production) for Five years to be mined is(Recoverable reserves)	:	2,63,312.50Ts of Rough Stone 20,880Ts of gravel
e.	Total extent of the area	:	1.19.25Ha
f.	Proposed Period of mining	:	Five Years
g.	Existing depth	:	It is fresh quarry lease applied area
h.	Proposed Depth of mining	:	32m (below ground level) for the proposed mining plan.
i.	Method of mining/level of mechanization	:	Opencast, Semi-mechanized Mining with a bench height of 5m and bench width of 5m is proposed.
j.	Types of Machineries used in the quarry	:	Machineries like Tractor mounted compressor attached with Jack hammers, Excavators are proposed to deploy for quarrying operation.
k.	Cost of the Project A. Fixed Assets Cost B. Operational Cost C. EMP Cost		Rs. 10,15,500/- Rs. 51,50,000/- Rs. 5,00,000/- Total Project cost(A+B+C)= **Rs. 66,65,500/-**

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

Corners	Co- ordinates		Distance between the corners
	Latitude	Longitude	
1	11° 01' 36.76'N	77° 54' 45.94"E	1-2 = 61.8m
2	11° 01' 38.74'N	77° 54' 45.62"E	2-3 = 2.8m
3	11° 01' 38.84'N	77° 54' 45.61"E	3-4 = 52.0m
4	11° 01' 38.80'N	77° 54' 47.33"E	4-5 = 46.8m
5	11° 01' 40.32'N	77° 54' 47.19"E	5-6 = 24.2m
6	11° 01' 40.23'N	77° 54' 47.98"E	6-7 = 116.0m
7	11° 01' 39.21'N	77° 54' 51.66"E	7-8 = 31.6m
8	11° 01' 38.24'N	77° 54' 51.99"E	8-1 = 189.6m

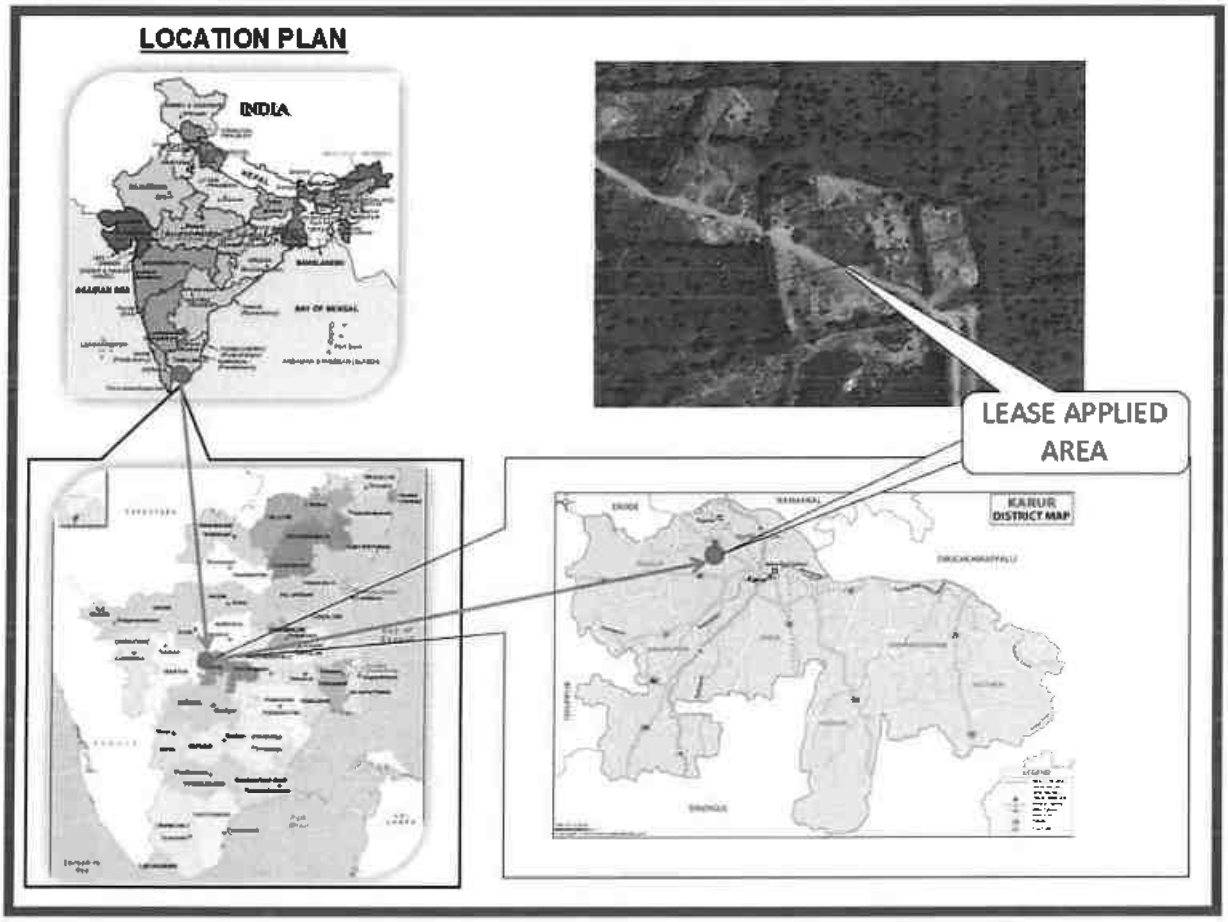
K. Nagaraj

2.0		General Information:		
2.1	a.	Name of the Applicant	:	Thiru.K.Nagaraj,
	b.	Address of the Applicant with phone No and e-mail id if any	:	S/o.Kumar, No.12/1A, Porkodi Compound, Puthukadu 2nd Street, Tiruppur T.C. Market, Tiruppur -641604. Cell No.: 96553 85490
	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/Assistant Director, Department of Geology and Mining, Karur, vide Rc.No.170/Kanimam/2024 dated 09.12.2025.
	c.	Period of permission / lease granted	:	The Deputy/Assistant Director, Department of Geology and Mining, Karur, has grant of lease period for **Ten years.**
	d.	Name and Address of the QP preparing Mining Plan	:	**C.Natarajan, M.Sc., M.Phil.,** **Qualified Person** **M/s. GLOBAL MINING SOLUTIONS** (NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT) Plot No. 6, S.F.No. 13/2, A2, Vs City, RC Chettypatty, Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455 NABET Accreditation No –NABET/ EIA/23-26 / SA 0241 Contact: 97502 23535, 94446 54520

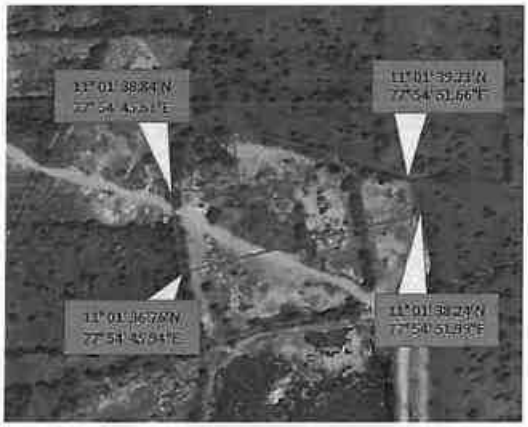
K. Nagaraj

3.0 Location:

S.No		Details of the Area:
1	Corner Coordinates	Latitude : 11°01'36.76"N to 11°01'40.32"N Longitude : 77°54'45.61"E to 77°54'51.99"E
2	Toposheet Number	58 E/16
3	The altitude of the area	172m (MSL)
4	Extent	1.19.25Ha
5	Survey Nos	127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P)
6	Village	Athipalayam
7	Taluk	Pugalur
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 jointly registered in the name of Thiru.Kannappan, Tmt.Pushpavalli and Thiru.Thirumalairaj vide patta no. 7253 the applicant has obtained consent from the pattadars, please refer annexure no: IV and VII.
c.	Toposheet No. with Latitude and Longitude	: : :	Topo Sheet No: 58 E/16 Latitude : 11°01'36.76"N to 11°01'40.32"N Longitude : 77°54'45.61"E to 77°54'51.99"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 VN Pudhur- Mettukadai road on West side of the area. The Nearest Railway line is Karur to Erode line which is about 4.0Km 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 172m (maximum) from MSL. ➢ No major river is found nearby the lease applied area. ➢ Water table is found at a depth of 78m in summer and 75m 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°.

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				The general geological succession of the area is given as under. **AGE** **ROCK TYPE** Recent - Gravelly soil Unconformity Archaean - Dolerite dyke Charnockite. Peninsular Gneissic complex and Calc Gneiss
4.2		Details of Exploration already carried out if any	:	No exploration was carried out, as the Rough stone formations are clearly visible adjacent existing quarry pit.
4.3	a.	Estimation of Reserves	:	The Geological and Recoverable reserves are estimated by cross sectional method. Totally four sections have been drawn, one section drawn length wise as (X-Y), and another three sections drawn width wise as (A-B), (C-D), & (E-F) 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.

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a. Geological Resources

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

Table No-1

Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel in m^3	Rough stone in m^3	Bulk Density	Gravel in Ts	Geological Resources of Rough stone in Ts
XY-AB	I	58	52	2	6032	-	2.00	12064	-
	II	58	52	5	-	15080	2.75	-	41470
	III	58	52	5	-	15080	2.75	-	41470
	IV	58	52	5	-	15080	2.75	-	41470
	V	58	52	5	-	15080	2.75	-	41470
	VI	58	52	5	-	15080	2.75	-	41470
	VII	58	52	5	-	15080	2.75	-	41470
	Total				**6032**	**90480**	-	**12064**	**248820**
XY-CD	I	61	88	2	10736	-	2.00	21472	-
	II	61	88	5	-	26840	2.75	-	73810
	III	61	88	5	-	26840	2.75	-	73810
	IV	61	88	5	-	26840	2.75	-	73810
	V	61	88	5	-	26840	2.75	-	73810
	VI	61	88	5	-	26840	2.75	-	73810
	VII	61	88	5	-	26840	2.75	-	73810
	Total				**10736**	**161040**	-	**21472**	**442860**
XY-EF	I	68	52	2	7072	-	2.00	14144	-
	II	68	52	5	-	17680	2.75	-	48620
	III	68	52	5	-	17680	2.75	-	48620
	IV	68	52	5	-	17680	2.75	-	48620
	V	68	52	5	-	17680	2.75	-	48620
	VI	68	52	5	-	17680	2.75	-	48620
	VII	68	52	5	-	17680	2.75	-	48620
	Total				**7072**	**106080**	-	**14144**	**291720**
Grand Total					**23840**	**357600**	-	**47680**	**983400**

Gravel : 47,680Ts

The Geological Resources of Rough stone : 9,83,400Ts

b. Mineable Reserve

The mineable reserve calculated by deducting 7.5m 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	50	36	1	1800	-	2.00	3600	-
	II	47	31	5	-	7285	2.75	-	20033.75
	III	42	21	5	-	4410	2.75	-	12127.50
	Total				**1800**	**11695**	-	**3600**	**32161.25**
XY-CD	I	61	72	1	4392	-	2.00	8784	-
	II	61	67	5	-	20435	2.75	-	56196.25
	III	61	57	5	-	17385	2.75	-	47808.75
	IV	61	47	5	-	14335	2.75	-	39421.25
	V	51	37	5	-	9435	2.75	-	25946.25
	VI	41	27	5	-	5535	2.75	-	15221.25
	VII	31	17	5	-	2635	2.75	-	7246.25
	Total				**4392**	**69760**	-	**8784**	**191840.00**
XY-EF	I	59	36	2	4248	-	2.00	8496	-
	II	57	31	5	-	8835	2.75	-	24296.25
	III	52	21	5	-	5460	2.75	-	15015
	Total				**4248**	**14295**	-	**8496**	**39311.25**
Grand Total					**10440**	**95750**	-	**20880**	**263312.50**

The mineable reserve is computed as 2,63,312.50Ts of Rough stone, 20,880Ts of Gravel upto a depth 32m (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 stone is concerned, observance of the provisions of Regulation 106(2) (b) as above is seldom possible due to various inherent petrogenetic factors coupled with mining difficulties. Hence it is proposed to obtain relaxation to the provisions of the above regulation from the Director of mines safety for which necessary provision is available with the regulation 106 (2) (b) of MMR-1961, under Mine Act-1952.
5.2	Mode of Working	:	The rough stone is proposed to quarry 5m bench height, 5m width with conventional opencast semi-Mechanized method. The quarry operation involves shallow jack hammer drilling, slurry blasting, excavation, Loading and transportation of Rough stone to the needy crushers/other buyers. The production of Rough stone in this quarry involves the following method which is typical for Rough Stone quarrying in contrast to other major mineral mining. Splitting of rock mass of considerable volume from the parent rock mass by jackhammer drilling and blasting, hydraulic excavators are used for loading the Rough Stone from pithead to the needy crushers/other buyers. Occasionally hydraulic excavators are attached with rock breakers for fragmentation to avoid secondary blasting. The primary boulders thus splitted are removed from the pits by excavators and further made to smaller sizes by rock breakers attached in excavators. It is a conventional opencast semi mechanized method of mining.
5.3	Proposed bench height & Width	:	Quarrying of Rough Stone is proposed bench height of 5m and bench width of 5m.
5.4	Details of Overburden / Mineral Production proposed for the first 5 years.	:	The overburden in the form of Gravel formation, after excavation of gravel and Rough stone will be directly loaded into tipper to the needy crushers/other buyers for road project and construction works for filling and leveling of low lying areas.

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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	50	36	1	1800	-	2.00	3600	-
		II	47	31	5	-	7285	2.75	-	20033.75
	XY-CD	I	36	72	1	2592	-	2.00	5184	-
		II	36	67	5	-	12060	2.75	-	33165.00
Total						**4392**	**19345**	-	**8784**	**53198.75**
II	XY-CD	I	25	72	1	1800	-	2.00	3600	-
		II	25	67	5	-	8375	2.75	-	23031.25
	XY-EF	I	59	36	2	4248	-	2.00	8496	-
		II	57	31	5	-	8835	2.75	-	24296.25
		III	20	21	5	-	2100	2.75	-	5775
Total						**6048**	**19310**	-	**12096**	**53102.50**
III	XY-EF	III	32	21	5	-	3360	2.75	-	9240.00
	XY-CD	III	56	57	5	-	15960	2.75	-	43890.00
Total						**-**	**19320**	-	**-**	**53130.00**
IV	XY-CD	III	5	57	5	-	1425	2.75	-	3918.75
		IV	61	47	5	-	14335	2.75	-	39421.25
	XY-AB	III	42	21	5	-	4410	2.75	-	12127.50
Total						**-**	**20170**	-	**-**	**55467.50**
V	XY-CD	V	51	37	5	-	9435	2.75	-	25946.25
		VI	41	27	5	-	5535	2.75	-	15221.25
		VII	31	17	5	-	2635	2.75	-	7246.25
Total						**-**	**17605**	-	**12096**	**48413.75**
Grand Total						**10440**	**95750**	-	**20880**	**263312.50**

The applicant has proposed to carry out 2,63,312.50Ts of Rough Stone, 20,880Ts of gravel upto a depth of 32m (below ground level) for the period of five years.

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

S.No	Type	Nos	Dia Hole mm	Make	Motive power
1	Jack hammer	2	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 Ten years of systematic development of bench lay outs, selection of ultimate pit limit, depth of quarrying, ultimate pit slope, selection of sites for construction of infrastructures etc. Ultimate pit size is designed based on certain practical factors such as the economical depth of mining, safety zones, permissible areas etc. Ultimate Pit dimension is given as under,

Ultimate Pit dimension (M) end of Mining plan Period			
Pit No	Length (max) in (m)	Width (Avg) in (m)	Depth(max) in(m)
I	170	47	32

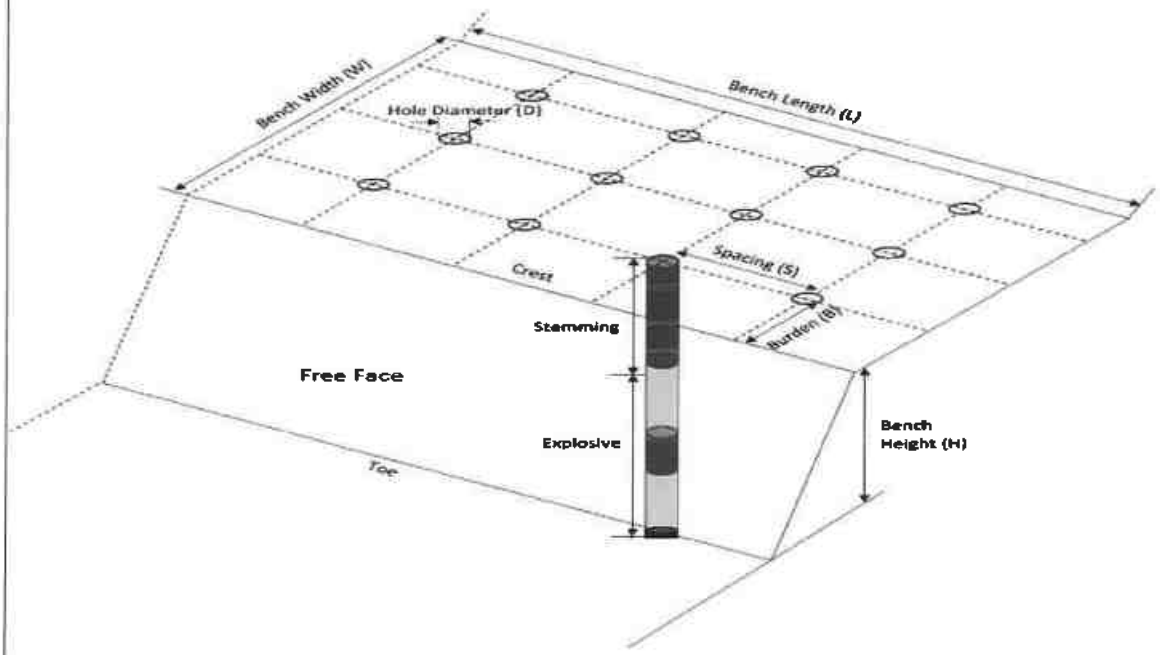
Afforestation has been proposed on all along the boundary barrier by planting trees.

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

6.0 Blasting:

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

Diameter of the hole	Spacing	Depth	Burden for hole	Pattern of hole	Inclination of hole
32-36mm	0.6m	1 to 1.5m	0.6m	Zig Zag	70⁰ 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	:	60
Powder factor	:	6Ts/Kg of explosives
Total explosive required	:	30Kg 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 78m below ground level. In the proposed mining plan only 32m (below ground level) depth has been envisaged as workable depth for safe & economic quarrying for the entire lease period. Hence the quarrying operation may not affect the ground water.
7.2	Arrangement and Places where the mine water is finally proposed to be discharged	:	The ground water may not rise immediately in this type of mining. However, the rain water percolation and collection of water from the seepage shall be less than 300lpm and it shall be pumped about periodically by a stand by diesel powered Centrifugal pump motivated with 7.5H.P.Motor. The quality of water is potable and it is not contaminated with any hazardous things. Hence, water stored in the quarry pit will be pumped into the adjacent agricultural fields. Further the water stored in the old pit will also be used for plantation purposes

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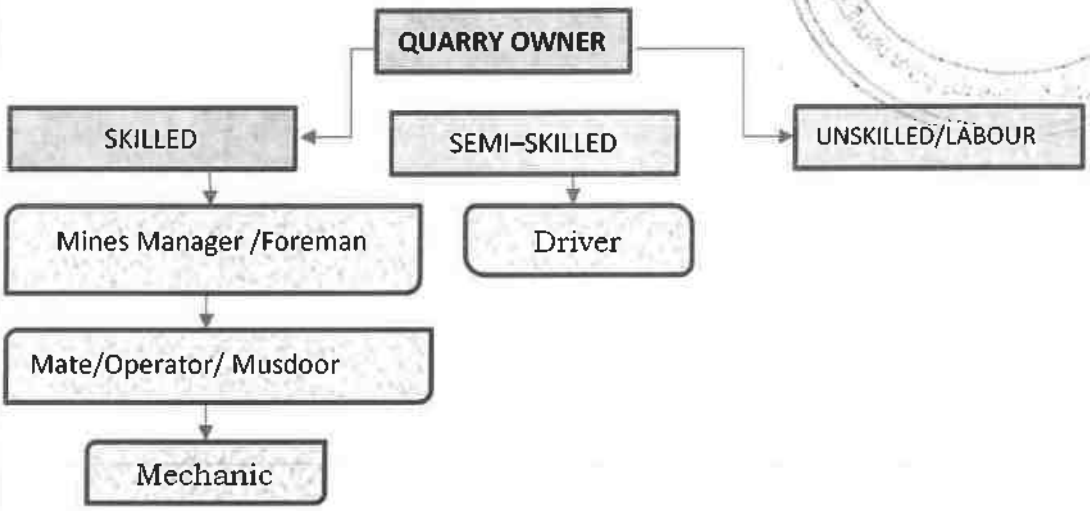
8.0	**Other Permanent Structures**:		
8.1	Habitations / Village	:	There is no habitations situated within a radius of 300m.
8.2	Power lines (HT/LT)	:	There is no Power line (HT/LT) passing within a radius of 50m.
8.3	Water bodies (River, Pond, Lake, Odai, Channel etc)	:	There are three Seasonal odai passing on northwestern, south and eastern side and is 50m, 50m and 160m 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 7.2km on south side of the area. The State Highway (SH-84) Karur – Noyyal is about 2.7Km on northeast 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

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9.0 Employment Potential & Welfare Measures:

9.1 Employment Potential (Management & Supervisory personal)

The proposed organization chart



1.	Skilled	Mines Manager	1 No.
		Foreman / Mate	2 No.
		Operator	6 No.
		Mechanic	1 No.
2.	Semi–skilled	Driver	3 No.
3.	Unskilled	Labours	12Nos
		Total =	25Nos

Allowing 10% absentee, the no. of men of roll will be around 22.

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 Kulathupalayam village which is about 0.8Km on Northeast side of the area.

	b.	Sanitary facilities	:	Semi-permanent latrines & urinals shall be maintained at convenient places for use of labours as per the provisions of Rule (33) of the Mines Rules, 1955 separately for males and females. Washing facilities shall also be arranged as per rule (36) of the Mines Rules, 1955.
	c.	First Aid Facility	:	First aid kits are kept in Mines office room, in case of such eventualities the victim will be given first aid immediately at the site and injured person will be taken to the hospital. Hospital is available at distance of 7.3Km (S) 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 32m (below ground level) for the proposed mining plan period. 3. Fluctuation of Water table in this area is in between 78m and 75m 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	0.79.90
2.	Infrastructure	Nil	0.01.00
3.	Roads	Nil	0.01.00
4.	Green Belt	Nil	0.37.35
5.	Unutilized	1.19.25	Nil
	Total =	**1.19.25**	**1.19.25**

10.2	Water Regime	:	Water table in this area is noticed at a depth of 78m and presently, in the proposed mining plan only 32m (below ground level) depth has been envisaged as workable depth for safe & economic quarrying for the entire lease period. Hence, it will not affect the ground water depletion of this area.
10.3	Flora and Fauna	:	Except acacia bushes, no other valuable trees are noticed in the applied area. Further, neither flora of botanical interest nor fauna of zoological interest is noticed in this area.

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<table>
<tr><td>10.4</td><td>Climatic conditions</td><td>:</td><td>Generally subtropical climatic condition prevails throughout the year and there is no sharp variation in climate.
This District receives rain both in south west and north east monsoon.
The average rainfall is about 800mm to 900mm and the temperature ranges from 18°C during winter and to a maximum of 42°C during the summer.</td></tr>
<tr><td>10.5</td><td>Human Settlement</td><td>:</td><td>The nearest habitations with the population is given as under.
Table No-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>Kulathupalayam</td><td>0.8Km - NE</td><td>300</td></tr><tr><td>2.</td><td>VN Pudhur</td><td>1.0km - NW</td><td>400</td></tr><tr><td>3.</td><td>Naduppalayam</td><td>1.4km - SE</td><td>350</td></tr><tr><td>4.</td><td>Athipalayam</td><td>1.5km - SW</td><td>500</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>

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10.8	Environmental Impact Assessment Statement Describing Impact on mining on the next Five years	:	The mining plan proposed is for a small production of Rough stone without involving deep hole drilling and heavy blasting. Such limited mining activity is not likely to cause any impact adversely on environment as far as pollution of air, water and noise is concerned, anyhow environmental impact studies will be conducted as per EIA notification issued by MOEF.
10.9	Proposal for Waste Management	:	There is no waste anticipated in this rough stone quarry operation.
10.10	Proposal of Reclamation of Land affected during mining activities and at the end of mining.	:	In the proposed mining plan 32m (below ground level) depth has been envisaged as workable depth for safe & economic mining during the lease period. Hence, after quarry reaches ultimate pit limit (for this lease period) of 32m depth, fencing will be constructed around the quarried pits to prevent inherent entry of the public and cattle.
10.11	Program for Afforestation	:	The 7.5m 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 3735Sqm area is proposed to use under afforestation by planting 448nos 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. 7,15,500 Rs.1,00,000 Rs.1,00,000 Rs.1,00,000 **Rs. 10,15,500/-**

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	B. Operational Cost: 1. Machineries 2. Fencing cost **Total**	: : **:**	Rs.50,00,000- Rs. 1,50,000 **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 2. Sanitary Arrangements 3. Safety kids 4. Water sprinkling 5. Afforestation **Total=**		Rs.1,00,000/- Rs. 50,000/- Rs. 50,000/- Rs. 1,00,000/- Rs. 80,000/- **Rs. 5,00,000/-**
	Total Project Cost (A+B+C)	:	**Rs. 66,65,500/-**
	CSR Cost(2% of Total Project Cost)	:	**Rs. 1,33,310/-**

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.

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12.0 Any Other Details Intend to Furnish by the Applicant:

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

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

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

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

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

Prepared by

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

Qualified Person

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

Place: Salem
Date: 11.12.2025

This Mining Plan is approved basedon incorporation of the particulars specified in clause 7 (iv) of the Commissioner of Geology and Mining Chennai Lr No 3868 / I C / 2012 dt 19-11-2012 and Draft Minor Mineral Conservation & Development Rules 2010

For 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: 170/ Mines /2024 Dated: 02.01.2026

ANNEXURE I

ந.க.எண். 170/கனிமம்/2024

மாவட்ட ஆட்சியர் அலுவலகம்,
புவியியல் மற்றும் சுரங்கத்துறை,
கரூர்

நாள்:09 .12.2025.

குறிப்பாணை

பொருள்: **கனிமங்களும் குவாரிகளும்** - கரூர் மாவட்டம் - புகழூர் வட்டம் - அத்திப்பாளையம் கிராமம், பட்டா புல எண்கள்.127/2(P) (0.28.75 ஹெக்டேர்ஸ்), 127/3A (0.08.00 ஹெக்டேர்ஸ்), 127/4A(P) (0.40.25 ஹெக்டேர்ஸ்), 127/7A(P) (0.30.75 ஹெக்டேர்ஸ்) மற்றும் 127/8A(P) (0.19.50 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 1.27.25 ஹெக்டோஸ் பரப்பில் - சாதாரணகற்கல் மற்றும் கிராவல் குவாரி குத்தகை உரிமம் வேண்டி திரு.K.நாகராஜ் என்பவர் விண்ணப்பம் செய்தது - வருவாய் கோட்டாட்சியர் நிலயிருப்பு அறிக்கை வரப்பெற்றது - உதவி இயக்குநர் புலத்தணிக்கை மேற்கொண்டு அறிக்கை சமர்ப்பித்தது - புல எண்.127/3A அருகே ஓடை செல்வதால் ஓடைக்கு அருகில் உள்ள மேற்படி புல எண்ணை தவிர்த்து மீதம் உள்ள புல எண்கள். 127/2(P) (0.28.75 ஹெக்டேர்ஸ்), 127/4A(P) (0.40.25 ஹெக்டேர்ஸ்), 127/7A(P) (0.30.75 ஹெக்டேர்ஸ்) மற்றும் 127/8A(P) (0.19.50 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 1.19.25 ஹெக்டோஸ் தகுதியான நிலப்பரப்பாக கருதி ஏற்பளிக்கப்பட்ட சுரங்க திட்டம் மற்றும் மாநில சுற்றுச்சூழல் தாக்கல் மதிப்பீட்டு ஆணைய இசைவினை பெற்று சமர்பிக்கக் கோருதல் - தொடர்பாக.

பார்வை:

1. திரு.K.நாகராஜ், த/பெ.குமார், நெ.12/1ஏ, பொற்கொடி காம்பவுண்ட், புதுகாடு 2 வீதி, திருப்பூர் டி.சி.மார்க்கெட், திருப்பூர் - 641604 குவாரி குத்தகை உரிமம் வழங்கக் கோரும் விண்ணப்பம் நாள்: 11.06.2024.
2. திரு.K.நாகராஜ், என்பவரின் திருத்திய விண்ணப்பம் இவ்வலுவலகத்தில் பெறப்பட்ட நாள்:03.01.2025
3. வருவாய் கோட்டாட்சியர், கரூர் அவர்களின் நில இருப்பு அறிக்கை ந.க.எண்.அ1/2831/2025 , நாள்:15.10.2025.
4. உதவி இயக்குநர் மற்றும் தனிவருவாய் அலுவலர், புவியியல் மற்றும் சுரங்கத்துறை கரூர் ஆகியோரின் கூட்டு புலத்தணிக்கை அறிக்கை நாள்: 13.11.2025.
5. 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, புகளூர் வட்டம், அத்திப்பாளையம் கிராமம், பட்டா புல எண்கள். 127/2 (0.43.00 ஹெக்டேர்ஸ்), 127/3A (0.08.00 ஹெக்டேர்ஸ்), 127/4A (0.67.00 ஹெக்டேர்ஸ்), 127/4C (0.12.0 ஹெக்டேர்ஸ்), 127/7A (0.55.00 ஹெக்டேர்ஸ்), 127/8A (0.47.50 ஹெக்டேர்ஸ்) மற்றும் 127/8C(P) (0.08.00 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 2.40.50 ஹெக்டேர்ஸ் பரப்பு நிலத்திலிருந்து பத்து ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க நெ.12/1ஏ, பொற்கொடி காம்பவுண்ட், புதுகாடு 2 வீதி, திருப்பூர் டி.சி.மார்க்கெட், திருப்பூர் - 641604 என்ற முகவரியில் வசித்து வரும் திரு.K.நாகராஜ், த/பெ.குமார் என்பவர் பார்வை 1-இல் கண்டுள்ளவாறு விண்ணப்பம் செய்துள்ளார்.

பார்வை 2-இல் காணும் விண்ணப்பத்தில் திரு.K.நாகராஜ் என்பவர் தான் ஏற்கனவே விண்ணப்பித்த இடத்திற்கு அருகே ஓடை செல்வதால் ஓடைக்கு அருகில் உள்ள புல எண்களை தவிர்த்து மீதம் உள்ள பட்டா புல எண்கள். 127/2(P) (0.28.75 ஹெக்டேர்ஸ்), 127/3A (0.08.00 ஹெக்டேர்ஸ்), 127/4A(P) (0.40.25 ஹெக்டேர்ஸ்), 127/7A(P) (0.30.75 ஹெக்டேர்ஸ்) மற்றும் 127/8A(P) (0.19.50 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 1.27.25 ஹெக்டோஸ் பரப்பில் மட்டும் பத்து ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க கோரியுள்ளார்.

எனவே, பார்வை -3 இல் விண்ணப்பம் தொடர்பாக, வருவாய் கோட்டாட்சியர், கரூர் அவர்கள் புலத்தணிக்கை மேற்கொண்டு கரூர் மாவட்டம், புகழூர் வட்டம், அத்திப்பாளையம் கிராம புல எண்.127/3A அருகே ஓடை செல்வதால் ஓடைக்கு அருகில் உள்ள மேற்படி புல எண்ணை தவிர்த்து மீதம் உள்ள புல எண்கள்.127/2(P) ஹெக்டேர் 0.28.75 ஏர்ஸ், 127/4A(P) ஹெக்டேர் 0.40.25 ஏர்ஸ் 127/7A(P) ஹெக்டேர் 0.30.75 ஏர்ஸ், 127/8A(P) ஹெக்டேர் 0.19.50 ஏர்ஸ் ஆகியவற்றின் மொத்தம் ஹெக்.01.19.25 ஏர்ஸ் நிலப்பரப்பில் திரு.K.நாகராஜ் என்பவருக்கு பத்து ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க குத்தகை உரிமம் வழங்கலாம் எனப் பரிந்துரை செய்துள்ளார்.

எனவே, பார்வை -4 இல் மேற்படி விண்ணப்பம் தொடர்பாக உதவி புவியியலாளர், மற்றும் தனி வருவாய் ஆய்வாளர், புவியியல் மற்றும் சுரங்கத்துறை, கரூர் ஆகியோர் புலத்தணிக்கை மேற்கொண்டு கரூர் மாவட்டம், புகழூர் வட்டம், அத்திப்பாளையம் கிராம புல எண்.127/3A அருகே ஓடை செல்வதால் ஓடைக்கு அருகில் உள்ள மேற்படி புல எண்ணை தவிர்த்து மீதம் உள்ள புல எண்கள். 127/2(P) (0.28.75 ஹெக்டேர்ஸ்), 127/4A(P) (0.40.25 ஹெக்டேர்ஸ்), 127/7A(P) (0.30.75 ஹெக்டேர்ஸ்) மற்றும் 127/8A(P) (0.19.50 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 1.19.25 ஹெக்டோஸ் பரப்பில் மட்டும் தமிழ்நாடு சிறு கனிமச்சலுகை விதிகளில் விதி எண்கள்.19-(1), 20 மற்றும் 33-இன் கீழ் திரு.K.நாகராஜ் என்பவருக்கு 10

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ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி வழங்கலாம் என பரிந்துரை செய்துள்ளார்.

எனவே, வருவாய் கோட்டாட்சியர், கரூர் மற்றும் உதவி இயக்குநர் மற்றும் தனிவருவாய் ஆய்வாளர், புவியியல் மற்றும் சுரங்கத்துறை, கரூர் ஆகியோரின் பரிந்துரைகள், விண்ணப்பதாரரின் கோரிக்கை மற்றும் நிபந்தனைகளின் அடிப்படையில் கரூர் மாவட்டம், புகளூர் வட்டம், அத்திப்பாளையம் கிராமம், பட்டா புல எண்கள். 127/2(P) (0.28.75 ஹெக்டேர்ஸ்), 127/4A(P) (0.40.25 ஹெக்டேர்ஸ்), 127/7A(P) (0.30.75 ஹெக்டேர்ஸ்) மற்றும் 127/8A(P) (0.19.50 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 1.19.25 ஹெக்டேர்ஸ் பரப்பில் 1959-ம் வருட தமிழ்நாடு சிறுகனிம விதிகள், விதி எண். 19(1), 20 மற்றும் 33-இன்படியும் மேலும் கீழ்கண்ட நிபந்தனைகளுக்கு உட்பட்டு பத்து வருட காலத்திற்கு திரு.K.நாகராஜ், என்பவருக்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்குவதற்குரிய தகுதியான நிலப்பரப்பாக கருதப்படுகிறது.

சிறப்பு நிபந்தனைகள்:-

விண்ணப்ப புலத்திற்கு தெற்கில் செல்லும் வாய்க்காலுக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு 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 ப்யன்படுத்தியும், 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.

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எனவே, தமிழ்நாடு சிறு கனிம சலுகை விதிகள்-1959 விதி எண்.41-இன்படி குவாரிப்பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்க திட்டத்தினை 90 தினங்களுக்குள் இணையவழியில் சமர்ப்பிக்குமாறு திரு.K.நாகராஜ், என்பவர் கேட்டுக்கொள்ளப்படுகிறார். மேலும் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தின் தொடர்ச்சியாக 1959-ஆம் வருடத்திய தமிழ்நாடு சிறுகனிம சலுகை விதிகள், விதி எண்.42-இன்படி சுற்றுச்சூழல் தாக்கல் மதிப்பீட்டு ஆணையத்தின் இசைவினைப் பெற்று சமர்ப்பிக்கும் பட்சத்தில் மட்டுமே குவாரி உரிமம் வழங்கப்படும் என இதன் மூலம் தெரிவிக்கப்படுகிறது.

ஒம்/-திரு.பொ.ஜெயபால்
துணை இயக்குநர்,
புவியியல் மற்றும் சுரங்கத்துறை,
கரூர்.

//உண்மை நகல்/ உத்தரவுபடி//

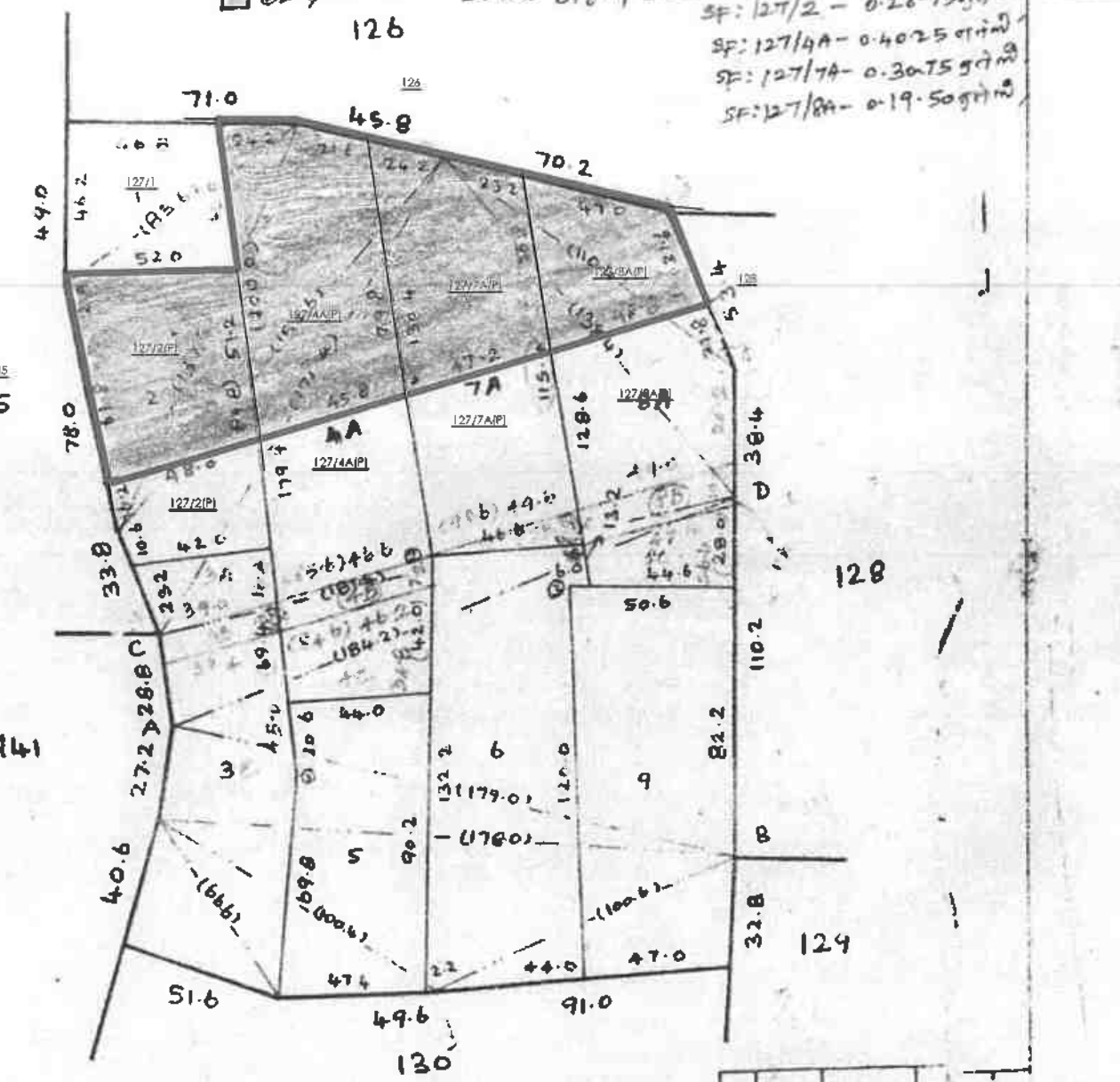
உதவி இயக்குநர், 9/12/25
புவியியல் மற்றும் சுரங்கத்துறை,
கரூர்.

9/12/25

பெறுநர்
திரு.K.நாகராஜ்,
த/பெ.குமார்,
நெ.12/1ஏ, பொற்கொடி காம்பவுண்ட்,
புதுகாடு 2 வீதி,
திருப்பூர் டி.சி.மார்க்கெட்,
திருப்பூர் - 641604.

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

K. Nagaraj



SF: 127/2 – 0.2875ஹெக்டேர்
SF: 127/4A – 0.4025 ஹெக்டேர்
SF: 127/7A – 0.3075 ஹெக்டேர்
SF: 127/8A – 0.1950ஹெக்டேர்

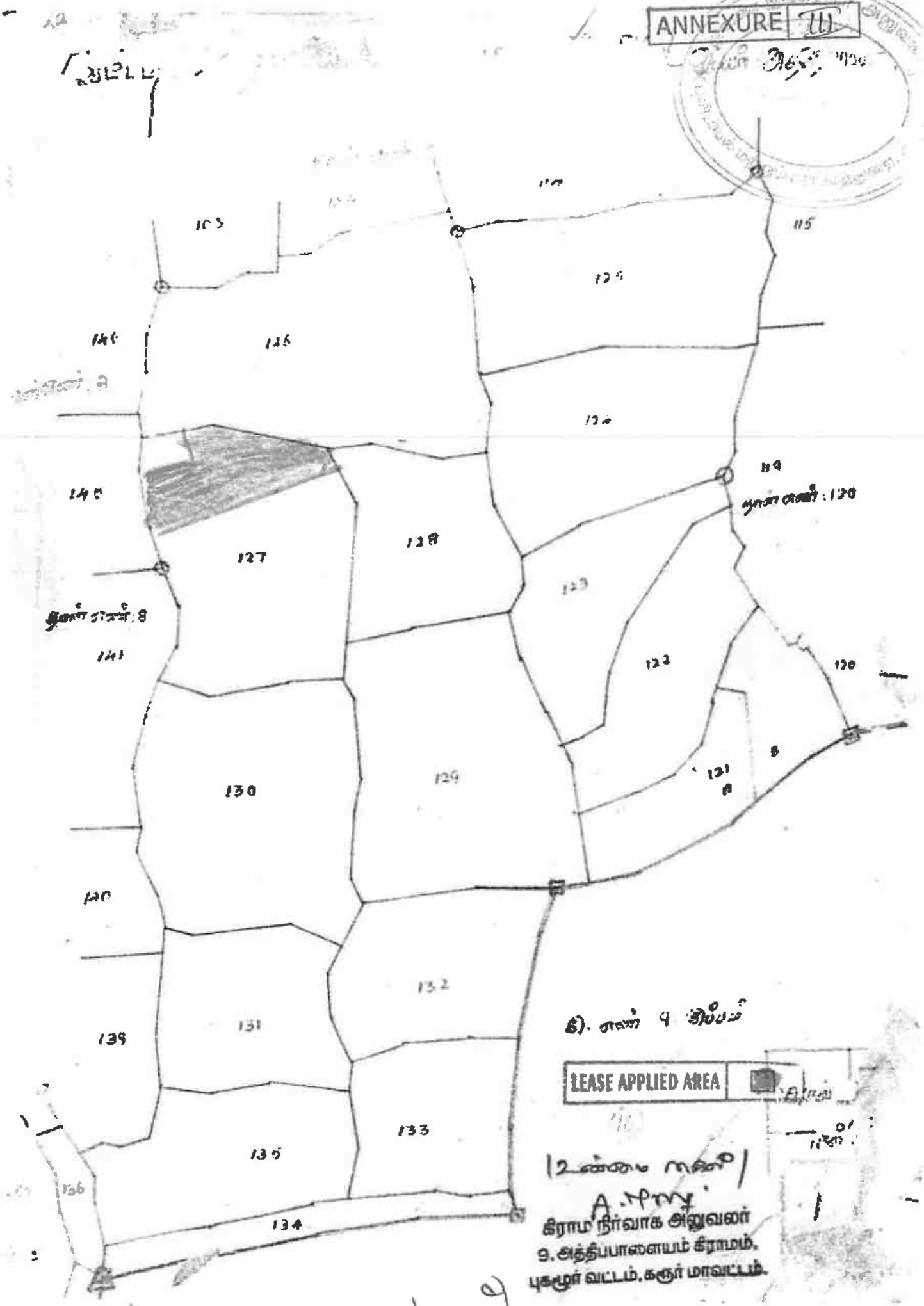
LEASE APPLIED AREA

QUARRY LEASE AREA

SCALE: 1:2000

K. Nagaraj

ANNEXURE III



கிராம நிர்வாக அலுவலர்
9. அத்திப்பாளையம் கிராமம்.
புகழூர் வட்டம், கரூர் மாவட்டம்.

ANNEXURE TV

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம் : கரூர் **வட்டம் : புகழூர்**

வருவாய் கிராமம் : அத்திபாளையம் **பட்டா எண் : 7253**

உரிமையாளர்கள் பெயர்

1.	திருமலைசாமி	மகன்	T.S.P.கண்ணப்பன்
2.	கண்ணப்பன்	மனைவி	K.புஷ்பவள்ளி
3.	கண்ணப்பன்	மகன்	K.P.திருமலைராஜ்

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	
127	2	0 - 43.00	0.86	--	--	--	--	2022/0103/14/196600- -- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
		0 - 43.00	0.86					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **S/14/07/009/07253/70907** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 13-12-2025 அன்று 04:04:50 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம் : கரூர் **வட்டம் : புகழூர்**

வருவாய் கிராமம் : அத்திபாளையம் **பட்டா எண் : 7253**

உரிமையாளர்கள் பெயர்

1.	திருமலைசாமி	மகன்	T.S.P.கண்ணப்பன்
2.	கண்ணப்பன்	மனைவி	K.புஷ்பவள்ளி
3.	கண்ணப்பன்	மகன்	K.P.திருமலைராஜ்

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	
127	4A	0 - 67.00	1.34	--	--	--	--	2022/0103/14/196600-- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
		0 - 67.00	1.34					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **S/14/07/009/07253/70907** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 13-12-2025 அன்று 04:08:41 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம் : கரூர் **வட்டம் : புகழூர்**

வருவாய் கிராமம் : அத்திபாளையம் **பட்டா எண் : 7253**

உரிமையாளர்கள் பெயர்

1.	திருமலைசாமி	மகன்	T.S.P.கண்ணப்பன்
2.	கண்ணப்பன்	மனைவி	K.புஷ்பவள்ளி
3.	கண்ணப்பன்	மகன்	K.P.திருமலைராஜ்

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	
127	7A	0 - 55.00	1.10	--	--	--	--	2022/0103/14/196600- -- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
		0 - 55.00	1.10					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **S/14/07/009/07253/70907** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 13-12-2025 அன்று 04:09:58 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம் : கரூர் **வட்டம் : புகழூர்**

வருவாய் கிராமம் : அத்திபாளையம் **பட்டா எண் : 7253**

உரிமையாளர்கள் பெயர்

1.	திருமலைசாமி	மகன்	T.S.P.கண்ணப்பன்
2.	கண்ணப்பன்	மனைவி	K.புஷ்பவள்ளி
3.	கண்ணப்பன்	மகன்	K.P.திருமலைராஜ்

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	
127	8A	0 - 47.50	0.95	--	--	--	--	2022/0103/14/196600-- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
		0 - 47.50	0.95					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **S/14/07/009/07253/70907** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 13-12-2025 அன்று 04:11:03 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

ANNEXURE V

1435 – ஆம் பசலியில் நஞ்சை மாவட்டம் புதுச்சே

கிராமக் கணக்கு
வட்டம் அரித்துவாரமங்

நில வரித் திட்டத்தின்படி புலன்களின் விபரம்.						சாகுபடியாளரின் பெயர்.	முதல் போகம்.				
நில அளவை எண். (1)	உட்பிரிவு எண். (2)	பரப்பு (3)	தீர்வை. (4)	ஒரு போகம் அல்லது இரு போகம். (5)	கைப்பற்று தாருடைய பெயரும் எண்ணும் அல்லது அனுபோக தாருடைய பெயர். (6)	நிலத்தின் எந்த பகுதி யாவது சாகுபடியாளரால் பயிரிடப்பட்டுள்ளதா. (7)	எந்த பாகத்தில் பயிர் செய்யப்பட்டது எந்த பாகத்தில் அறுவடை செய்யப்பட்டது. (8)	பயிரின் பெயர். (9)	பயிரை / அறுவடை யான பரப்பு. (10)	உண்மையான பாய்ச்சல் ஆதாரம். (11)	விளைச்சல் அளவு விபரக்காடு. (12)
127	2	0.320	0.86	ஈரி	T.S.R சொன்னப்பை (21)	ஒரு					
	4A	0.470	1.24	ஈரி	— ஆ —	ஒரு					
	7A	0.380	1.10	ஈரி	— ஆ —	ஒரு					
	8A	0.445	0.95	ஈரி	— ஆ —	ஒரு					

12 வள்ளல் சாலை/
A.T.P. விஜயன்
சோழ நிர்வாக அதிகாரி
9, அத்திப்பாளையம் கிராமம்.
புதுச்சேரி வட்டம், கடலூர் மாவட்டம்.

ANNEXURE VI

11

	R				5 1	4	2	00				
	9				5 3	5	2	00	0		0	340
									4	76 5	0	98
128		128			8-3	5	2	00	2	98-5	5	97 739
129	A	129-A			8-3	5	2	00	4	38 0	8	76 132
	B	-B			8-3	5	2	00	1	26-5	2	53 122
									5	64-5	11	29
130	A	130-A			8-4	6	1	38	0	98 6	1	36 216
	B	-B			8-4	6	1	38	0	90-5	1	25 216
	C1	-Con			8-4	6	1	38	1	22-0	1	19 219
	C2	-Con			8-4	6	1	38	0	32-0	0	44 111
	C3	Con			8-4	6	1	38	0	30-0	0	41 203
	C4	Con			8-4	6	1	38	0	03-0	0	06 707
	C5	Con			8-4	6	1	38	0	42-5	0	58 481
	C6	Con			8-4	6	1	38	0	96 0	1	32 216
									5	14 0		

K. Nagaraj

கிராம நிர்வாக அலுவலர்
9. அத்திப்பாளையம் கிராமம்.
புகழூர் வட்டம், கரூர் மாவட்டம்.

Scanned with OKEN Scanner

2831/2024

ANNEXURE VII

TP/202777023/2024



தமிழ்நாடு தமிழ்நாடு TAMILNADU

BG 570464

V.M. சுப்பிரமணியன்
V. M. SUBRAMANIAN
STAMP VENDOR.
L.NO. 44/97.
KARUR.

4.12.24 T.S.P. கிண்ணப்பன்.
Rs 1000/- கோயம்புத்தூர்.

குத்தகை பத்திரம்

2024-ம் வருடம் டிசம்பர் மாதம் 04-ம் தேதி திருப்பூர் மாவட்டம், திருப்பூர் வட்டம், புதுகாடு 2 வீதி, பொற்கொடி காம்பவுண்ட், கதவு எண்.12/7A என்ற முகவரியில் வசிக்கும் திரு.குமார் அவர்கள் குமாரர் திரு.K.நாகராஜ் (ஆதார் எண்.9100 2662 4786) (கைபேசி எண்.96553-85490)-1,

K. Nagaraj

T.S.P. Kannappan

K. Pushpavalli

K.P.

1 புத்தகம் 2024 ம்
வருடத்திய 2831 ம்
ஆவணம் 13 தாள்களைக்
கொண்டது 1 வது தாள்

K. Nagaraj எழுதிக் கொடுத்தவர்

கோயமுத்தூர் மாவட்டம், கோயமுத்தூர் தெற்கு வட்டம், கோயம்புத்தூர் மாநகராட்சி, சர்சண்முகம் ரோடு, ரத்தினசபாபதிபுரம், (R.S.PURAM) கதவு எண்.27 என்ற முகவரியில் வசிக்கும் T.M.திருமலைசாமி அவர்கள் குமாரர் T.S.P.கண்ணப்பன் (ஆதார் எண்.2730 9592 8055) (கைபேசி எண்.98422-44484)-2, மேற்படி 2 நபரின் மனைவி K.புஷ்பவள்ளி (ஆதார் எண்.7951 4673 9829) (கைபேசி எண்.99425-44484)-2, மேற்படி 2, 3 நபர்களின் குமாரர் K.P.திருமலைராஜ் (ஆதார் எண்.3761 3017 1624) (கைபேசி எண்.98422-44485)-4 ஆகிய நாம் அனைவரும் சேர்ந்து எழுதிக் கொண்ட குத்தகைப் பத்திரம் என்னவென்றால்,

இதனடியில் காணும் சொத்துக்கள் நம்மில் 2, 3, 4 நபர்களுக்கு சுயார்ஜித வகையில் சென்ற 25.10.2021-ம் தேதியில் M.ராமசாமி, R.ராமாயி ஆகியோர்களிடமிருந்து ஏற்பட்ட கிரையப் பத்திரப்படி (பத்திர எண்.1-புத்தகம், 144/2022, கரூர் 2நீ இணைச் சார்பதிவகம்) பாத்தியப்பட்டும், நம்மில் 2, 3, 4 நபர்களின் பெயரில் அத்திபாளையம் கிராமத்திய கூட்டுப்பட்டா எண்.7253 ஏற்பட்டும், இப்பால் நம்மில் 2, 3, 4 நபர்கள் சர்வ சுதந்திர பாத்தியங்களுடன் அனுபவித்து வருகிற கீழ்க்காணும் சொத்தை நம்மில் 1 நபருக்கு வருடம்

K. Nagaraj

T.S.P. Kannappan

K. Pushpavalli

K.P. Thirumalairaj

1 புத்தகம் 2021 ம்
வருடத்திய 2831 ம்
ஆவணம் 13 தாள்களைக்
கொண்டது 2 ஆது தாள்
பதிவு அலுவலர்

K. Nagaraj

ஒன்றுக்கு ரூ.5,000/- ரூபாய் ஐந்து ஆயிரம் வீதம் குத்தகைக்கு விடுவதாக பேசி முடிக்கப்பட்டு முன் பணம் ஏதும் இல்லாமல் 12 (பனிரெண்டு) வருட காலத்திற்கு அடியிற்கண்ட சொத்துக்களை நம்மில் 1 நபர் குவாரி மற்றும் கிரஷர் பணி செய்வதற்காக குத்தகைக்கு கொடுத்துள்ளார்.

நம்மில் 1 நபர் அடியிற்கண்ட சொத்தை குத்தகை ஒப்பந்தம் செய்து கொண்ட பிறகு மேற்படி வாய்தா காலம் வரையில் மேற்படி தொழில் செய்து வர வேண்டியது.

மேலும் குத்தகை காலத்திற்குரிய வரியை நம்மில் 2, 3, 4-வது நபர்கள் செலுத்த வேண்டியது. குத்தகை காலம் முடிந்ததும் நம்மில் 1 நபர் மேற்படி நிலத்தை சமப்படுத்தி விட்டு அடியிற்கண்ட சொத்துக்களை நம்மில் 2, 3, 4 நபர்களிடம் ஒப்படைக்க வேண்டியது.

மேற்படி சொத்துக்களை வில்லங்கம், விவகாரம் ஏதும் இல்லை என்று நம்மில் 1 நபருக்கு நம்மில் 2, 3, 4 நபர்கள் உறுதி கூறுகிறார்கள். வில்லங்கம், விவகாரம் ஏதும் ஏற்பட்டால் அதை நம்மில் 2, 3, 4 நபர்களே தீர்த்துக் கொடுக்கவும் சம்மதிக்கிறார்கள்.

சர்க்கார் தீர்வைகளை நம்மில் 1 நபரே செலுத்திக் கொள்ள வேண்டியது. இந்தப்படி நாம் சம்மதித்து எழுதிக் கொண்ட குத்தகை ஒப்பந்தப் பத்திரம் ஆகும்.

K Nagaraj

T.S.P. Kannappan

K. Pushpavalli

K.P. Murugesan

1 புத்தகம் 2024 ம்
வருடத்திய 2831 ம்
ஆவணம் 13 தாள்களைக்
கொண்டது 3 வது தாள்

பதிவு அலுவலர்

K. Nagaraj

சொத்து விபரம்

கரூர் பதிவு மாவட்டம், கரூர் 2ஆ இணைச் சார்பதிவகம், அரவக்குறிச்சி வட்டமாக இருந்து தற்சமயம் புகளூர் வட்டம், அத்திப்பாளையம் கிராமம், (பட்டா எண்.7253)

அ.பு.ச.127/2	நெ.	ஹெக்.0.43.00 ஏர்ஸ்
அ.பு.ச.127/3A	நெ.	ஹெக்.0.08.00 ஏர்ஸ்
அ.பு.ச.127/4A	நெ.	ஹெக்.0.67.00 ஏர்ஸ்
அ.பு.ச.127/4C	நெ.	ஹெக்.0.12.00 ஏர்ஸ்
அ.பு.ச.127/7A	நெ.	ஹெக்.0.55.00 ஏர்ஸ்
அ.பு.ச.127/8A	நெ.	ஹெக்.0.47.50 ஏர்ஸ்
அ.பு.ச.127/8C	நெ.	ஹெக்.0.08.00 ஏர்ஸ்
ஆக மொத்தம்		ஹெக்.2.40.50 ஏர்ஸ்-க்கு ஏக்.5.94 செண்ட்

K. Vasuki

T. S. P. Kannappan

K. Pushpavalli

K. Nagaraj

1 புத்தகம் 2024 ம்
வருடத்திய 2831 ம்
ஆவணம் 13 தாள்களைக்
கொண்டது 4 வது தாள்

பதிவு அலுவலர்

K. Nagaraj

இந்த விஸ்தீரணமுள்ள பூமி பூராவும். மேற்படி பூமிகளுக்குண்டான சகல ஈஸ்ட்மெண்ட் பாத்தியங்கள் சகிதம். மற்றும் மாமூல் வழித்தடம் சகிதம்.

K Nagaraj
T.S.P. Kannappan
K. Puthiyavalli
K.P. Muruganandham

சாட்சிகள்:-

1. M.B Pravin M.B.பிரவின், த/பெ.பாலசுப்ரமணியம், நெ.22, அங்காளபரமேஸ்வரி நகர், கோபி தெற்கு, கோபிசெட்டிபாளையம், ஈரோடு-638476. (ஆதார் எண்.4896 0652 1413)

2. A. Arunkumar A.அருண்குமார், த/பெ.ஆறுமுகம், நெ.8/14, சுப்பிரமணியநகர், விரக்கல்புதூர், மேட்டூர், சேலம் - 636403, (ஆதார் எண்.8745 7107 4214)

ஆவண அமைப்பு



C.DHANABALAN, L.No.B.1342/93/KRR,
101/29, Arikkarampalayam, Karur -2.
Cell No.99522-88163.

1 புத்தகம் 2024 ம்
வருடத்திய 2831 ம்
ஆவணம் 13 தாள்களைக்
கொண்டது 2 வது தாள்
பதிவு அலுவலர்

K. Nagaraj

R/2 எண் இணை சார்பதிவாளர் கரூர்/புத்தகம்-1/2831/2024

.. ஆம் ஆண்டு டிசம்பர் மாதம் 04ம் தேதி பி.ப. 02:52 மணியளவில் 2 எண் இணை சார்பதிவாளர் கரூர் சார்பதிவாளர் அலுவலகத்தில் தாக்கல் செய்து கட்டணம் ₹ 1,010/- செலுத்தியவர்.

இடது பெருவிரல்  	K. Nagaraj கூடுதல் விவரங்கள் ஆவண வாசகத்தில் உள்ளபடி	
எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர் இடது பெருவிரல்  	T.S.P. Kannappan "சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண் : UKC:6802442f0e492ea48d40aebbd5b48496708dfc (Details from UIDAI : Thirumalaisamy Poovammal Kannappan S/O: Thirumalaisamy, 13-04-1956, xxxxxxxx8055)	
எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர் இடது பெருவிரல்  	K. Pushpavalli "சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண் : UKC:9634679dab75b202fb4f0d80eaa40ec6110410 (Details from UIDAI : Pushpavalli W/O Kannappan, 19-05-1959, xxxxxxxx9829)	
எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர் இடது பெருவிரல்  	K.P. Pushpavalli "சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண் : UKC:4983376d660b354c0940a6a26774a0ab5516 (Details from UIDAI : Kaposappan Pushpavalli Thirumalaisamy S/O: [illegible])	

கொண்டது ..... அதற்கான

1 / 2

K. Nagaraj

R/2 எண் இணை சார்பதிவாளர் கருர்/புத்தகம்-1/2831/2024

எழுதி வாங்கியதாக ஒப்புக் கொண்டவர்
இடது பெருவிரல்





K. நகராஜ்

"சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பிட்டு எண் :
UKC:0500287d75e9c1b8be4eb6blbed13a3efa6ca4
(Details from UIDAI : Nagaraj S/O: Kumar, 02-11-1986, xxxxxxxx4766)



2024 ஆம் ஆண்டு டிசம்பர் மாதம் 4ம் நாள்

சம்பூரணம் சுரேஷ்குமார்
சார்பதிவாளர்
2 எண் இணை சார்பதிவாளர் கரூர்

R/2 எண் இணை சார்பதிவாளர் கருர்/புத்தகம்-1/2831/2024 எண்ணாகப் பதிவு செய்யப்பட்டது.

நாள்: 04/12/2024
2 எண் இணை சார்பதிவாளர் கரூர்

சம்பூரணம் சுரேஷ்குமார்
சார்பதிவாளர்

....1....புத்தகம்....2024....ம்
வருடத்திய ....2831....ம்
ஆவணம்....13....தான்களைக்
கொண்டது ....7....வது தாள்

பதிவு அலுவலர்

K. Nagaraj

சொத்தானது நீர்நிலை பகுதியில் அமையப் பெறவில்லை என்பதற்காக சான்று / உறுதிமொழி (DECLARATION) (நீதிபேராணை எண்.22163/2018-ல் வழங்கப்பட்ட தீர்ப்புரையை காண்க):-

இந்த ஆவணத்தில் கண்ட சொத்தானது நீர்நிலைகள், நீர்வழிப்பாதைகள், நீர்பிடிப்பு பகுதிகளில் கட்டுப்படவில்லை என சான்றளிக்கிறேன். மேலும் இதனில் தங்களுக்கு தவறான தகவல் அல்லது சான்று அளிக்கப்பட்டதாக பின்னாளில் கண்டுபிடிக்கப்பட்டால் அதனால் நான் சட்ட பூர்வ நடவடிக்கைகளுக்கு உட்படுத்தப்படுவேன் என்பதையும் அறிவேன்.

K. Nagaraj

T.S.P. Kannappan

K. Pushpavalli

1 புத்தகம் 2024 ம்

வருடத்திய 2831 ம்

ஆவணம் 13 தாள்களைக்

கொண்டது 2 வது தாள்

பதிவு அலுவலர்

K. Nagaraj

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம் : கரூர் வட்டம் : புகழூர்

வருவாய் கிராமம் : அத்திபாளையம் பட்டா எண் : 7253

உரிமையாளர்கள் பெயர்

1.	திருமலைசாமி	மகன்	T.S.P.கண்ணப்பன்	-
2.	கண்ணப்பன்	மனைவி	K.புஷ்பவள்ளி	-
3.	கண்ணப்பன்	மகன்	K.P.திருமலைராஜ்	-

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	
127	2	0 - 43.00	0.86	--	--	--	--	2022/0103/14/196600---------- Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
127	3A	0 - 8.00	0.16	--	--	--	--	2022/0103/14/196600---------- Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
127	3C	0 - 42.00	0.84	--	--	--	--	2022/0103/14/196600---------- Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
127	4A	0 - 67.00	1.34	--	--	--	--	2022/0103/14/196600---------- Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
127	4C	0 - 12.00	0.24	--	--	--	--	2022/0103/14/196600---------- Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM

1 புத்தகம் 2024 ம்
2831 ம்
வருடத்திய தான்கலைக்
ஆவணம் 13 9 அது தான்
கொண்டது
பதிவு அலுவலர்

K. Nagaraj

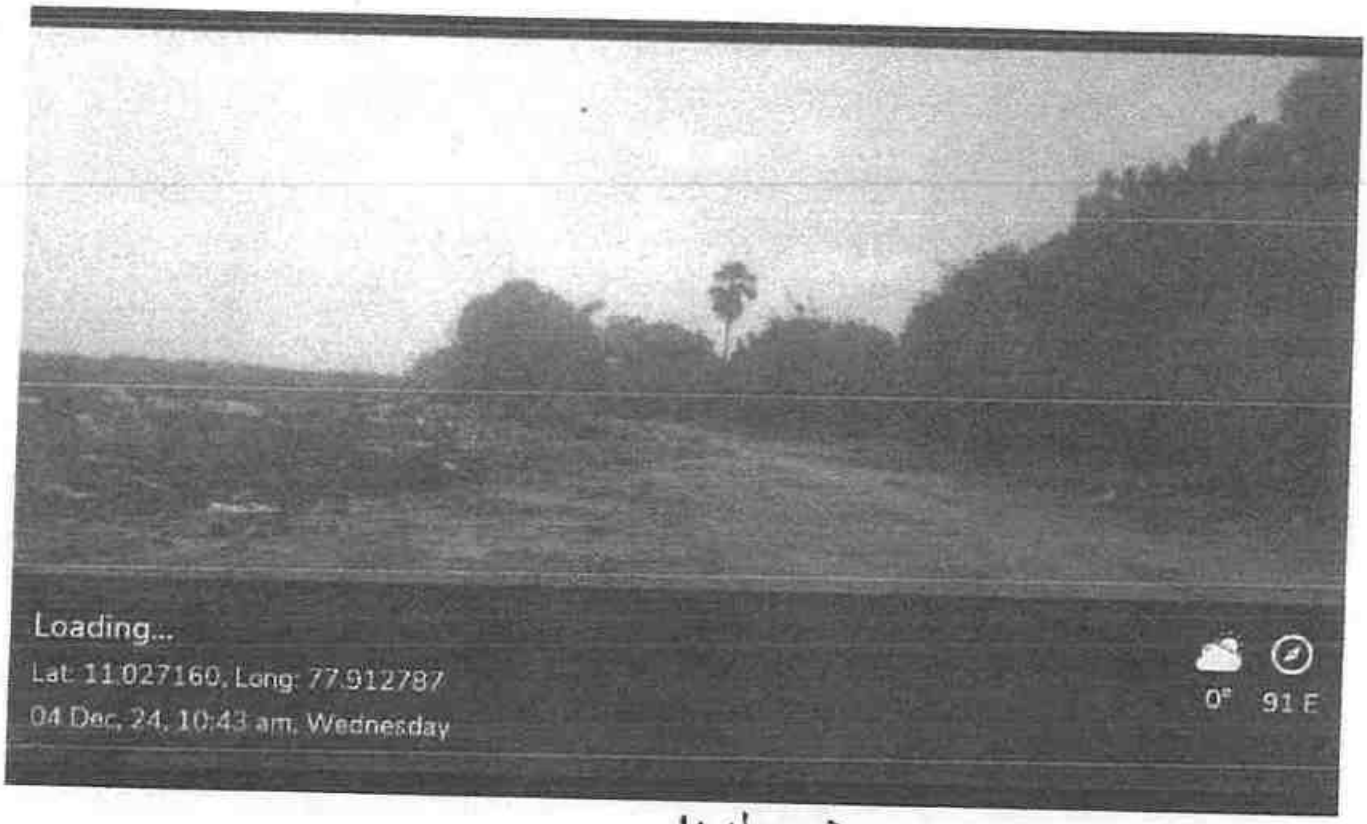
127	5	0 - 40.00	0.80	--	--	--	--	2022/0103/14/196600--- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
127	6	0 - 60.00	1.20	--	--	--	--	2022/0103/14/196600--- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
127	7A	0 - 55.00	1.10	--	--	--	--	2022/0103/14/196600--- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
127	8A	0 - 47.50	0.95	--	--	--	--	2022/0103/14/196600--- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
127	8C	0 - 8.00	0.16	--	--	--	--	2022/0103/14/196600--- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
127	9	0 - 60.00	1.20	--1 பத்தகம் 2024 ம் வருடத்திய 283 ம் ஆவணம் 13 தாள்களைக் கொண்டது 10 அது தான்			--	2022/0103/14/196600--- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
		4 - 42.50	8.85					

பதிவு அலுவலர்

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் பின்வேண்டிவிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 14/07/009/07253/70907 என்ற குறியீடு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 04-12-2024 அன்று 11:47:36 AM நேரத்தில் அச்சிடக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலமாகவும் 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

K. Nagaraj



K. Nagai

T.S.P. Kannappan

K. Punkavalli

1 புத்தகம் 2024 ம்

வருடத்திய 2831 ம்

ஆவணம் 13 தாள்களைக்

கொண்டது 11 ஆது தாள்

துதிவு அலுவலர்

K. Nagai

भारत सरकार
GOVERNMENT OF INDIA



நாகராஜ்
Nagaraj
பிறந்த நாள்/DOB : 02-11-1986
ஆண் / Male

9100 2662 4786

ஆதார் - சாதாரண மனிதனின் அதிகாரம்



भारतीय विशिष्ट पहचान प्राधिकरण
UNIQUE IDENTIFICATION AUTHORITY OF INDIA

முகவரி: நாகராஜ் / நாய் பெயர்: குமார், 12/7ஏ, பெரும்கொடி காம்பவுண்ட், புதுகாடு 2 வீதி, கு.மே.மார்கெட், திருப்பூர், தமிழ் நாடு, 641604

Address: S/O: Kumar, 12/7 A, PORKODI COMPOUND, PUTHUKADU 2 STREET, I.e.market, Tiruppur, Tamil Nadu, 641604

1947 | help@uidai.gov.in | www.uidai.gov.in | P.O. Box No. 1947, Bengaluru-560 001

R. Nagaraj

Government of India



திருமலைசாமி பூவம்மாள் கண்ணப்பன்
Thirumalaisamy Poovammal Kannappan
பிறந்த நாள்/DOB: 13/04/1956
ஆண்/ MALE

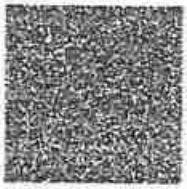
2730 9592 8055
VID : 9171 3457 9036 7515

எனது ஆதார், எனது அடையாளம்

Unique Identification Authority of India

முகவரி:
S/O: திருமலைசாமி, 27, sir சண்முகம் ரோடு, ஆர் எஸ் புரம், கோயம்புத்தூர் தெற்கு, கோயம்புத்தூர், தமிழ் நாடு - 641002

Address:
S/O: Thirumalaisamy, 27, SIR SHANMUGAM ROAD, R S PURAM, Coimbatore South, Coimbatore, Tamil Nadu - 641002



2730 9592 8055
VID : 9171 3457 9036 7515

1947 | help@uidai.gov.in | www.uidai.gov.in

T.S.P. Kannappan

Government of India



புஷ்பவள்ளி
Pushpavalli
பிறந்த நாள்/DOB: 19/05/1959
பெண்/ FEMALE

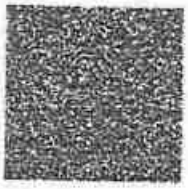
7951 4673 9829
VID : 9124 2623 4665 5636

எனது ஆதார், எனது அடையாளம்

Unique Identification Authority of India

முகவரி:
W/O கண்ணப்பன், எண் 27, sri சண்முகம் ரோடு, ஆர் எஸ் புரம், கோயம்புத்தூர் தெற்கு, கோயம்புத்தூர், தமிழ் நாடு - 641002

Address:
W/O Kannappan, No 27, Sir Shanmugam Road, R S Puram, Coimbatore South, Coimbatore, Tamil Nadu - 641002



7951 4673 9829
VID : 9124 2623 4665 5636

1947 | help@uidai.gov.in | www.uidai.gov.in

K. Pushpavalli

Government of India



கண்ணப்பன் புஷ்பவள்ளி திருமலைராஜ்
Kannappan Pushpavalli Thirumalairaj
பிறந்த நாள்/DOB: 08/04/1980
ஆண்/ MALE

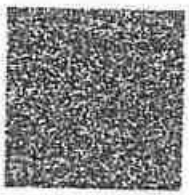
3761 3017 1624
VID : 9154 2447 3299 5139

எனது ஆதார், எனது அடையாளம்

Unique Identification Authority of India

முகவரி:
S/O: கண்ணப்பன், 27, sri சண்முகம் ரோடு, ஆர் எஸ் புரம், கோயம்புத்தூர் தெற்கு, கோயம்புத்தூர், தமிழ் நாடு - 641002

Address:
S/O: Kannappan, 27, SIR SHANMUGAM ROAD, R S PURAM, Coimbatore South, Coimbatore, Tamil Nadu - 641002



3761 3017 1624
VID : 9154 2447 3299 5139

1947 | help@uidai.gov.in | www.uidai.gov.in

K. Pushpavalli

புதுதகம்.....2831.....ம்

வருடாந்திய .....ம்

ஆவணம்.....13.....தாள்களைக்

கொண்டது .....12.....ஆது தாள்

பதிவு அலுவலர்



K. Nagaraj

भारत सरकार

आधार

இந்திய தனிப்பட்ட அடையாள ஆணைய அமைப்பு

இந்திய அரசாங்கம்

Unique Identification Authority of India

Government of India

பதிவு அடையாளம் / Enrollment No.: 2043/88655/01266

To

ஆ அருண்குமார்

A Arunkumar

S/O: R Arumugam

8/1-6 SUBRAMANIYA NAGAR

PUDUSAMPALLI VEERAKKALPUDUR

Mettur

Raman Nagar

Mettur Salem

Tamil Nadu 636403

9791888703

02/12/2015

3101000082

MA101000821FT

உங்கள் ஆதார் எண் / Your Aadhaar No. :

8745 7107 4214

ஆதார் - சாதாரண மனிதனின் அதிகாரம்





இந்திய அரசாங்கம்

Government of India



ஆ அருண்குமார்

A Arunkumar

பிறந்த நாள் / DOB : 10/05/1985

ஆண்பால் / Male

8745 7107 4214

ஆதார் - சாதாரண மனிதனின் அதிகாரம்

M. R Rau

A. Arunkumar

1 புத்தகம் 2024 ம்

வருடத்திய 2831 ம்

ஆவணம் 13 தாள்களைக்

கொண்டது 13 அது தாள்

பதிவு அலுவலர்

K. Nagamani

ANNEXURE IX

3209

Annamalai University

Faculty of Science

The Senate of the Annamalai University hereby makes known that C. Natarajan has been admitted to the Degree of Master of Science (by Examination) in Geology, he having been certified by duly appointed Examiners at the examination held in April 1976, to be qualified to receive the same and that he was placed in the First Class.

Given under the seal of the University.

Annamalainagar
8th December 1976.

K. Nagaraj

A. Chandrasekhar
Vice-Chancellor.

CHETTINAD CEMENT CORPORATION LTD.,

(Regd. Office: RANI SEETHAI HALL BUILDING (IV & V FLOORS, 603, ANNA SALAI, MADRAS-600006.)
WORKS OFFICE : PULIYUR.

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

All Correspondences to
Kumararajah Muthiah Nagar
PULIYUR CEMENT FACTORY POST 639114.
(Karur Taluk. Trichy Dt.)

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

22nd September,1987.

CERTIFICATE.

This is to certify that Mr.C.Natarajan has been working as a Geologist from 14-12-1979 to till date. He has been incharge of supervision of day to day functions in respect of Exploration, Preparation of Geological Plans & Sections, Preparation of Mines Plans, and Quality control and other allied mining activities in the following Pits of our Seethainagar Limestone Mines in Anna District.

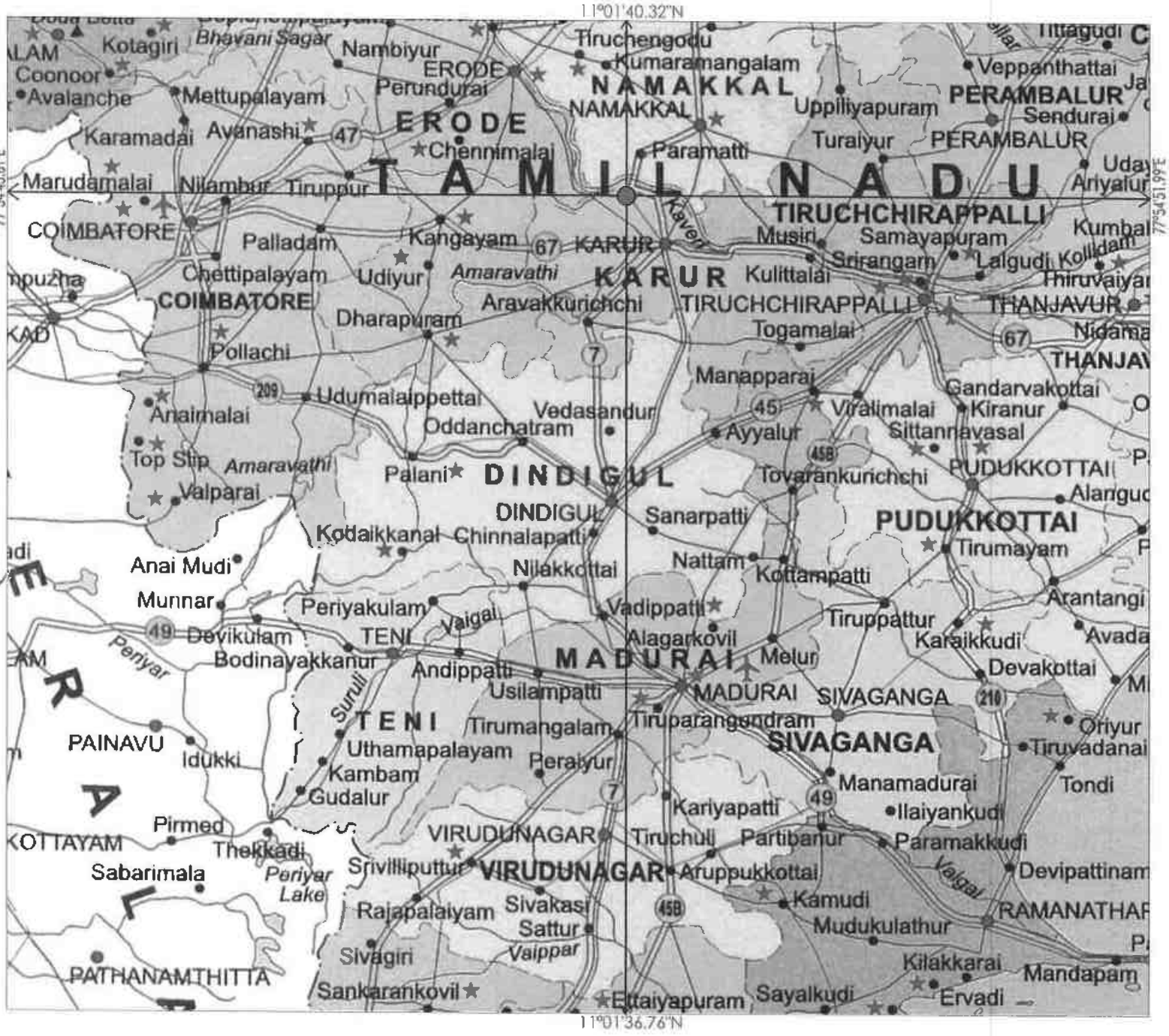
Name of the Pit.		Average Raising/day.
1. Alambadi Pit.	-	1,700 T.
2. Mallapuram Pit.	-	900 T.
3. Karikkali Pit.	-	150 T.
Total.	-	2,750 T.

He has got nearly Eight years of total experience in our Mines in the above supervisory capacity.

for CHETTINAD CEMENT CORPORATION LTD.,

(T.RAJU).
Mines Manager & Dy. General Manager.

K. Nagaraj



K. Nagaraj

PLATE NO: I
DATE OF SURVEY :10.12.2025
APPLICANT: THIRU.K.NAGARAJ, S/o.KUMAR, No.12/1A,PORKODI COMPOUND, PUTHUKADU 2nd STREET, TIRUPPUR T.C MARKET, TIRUPPUR DISTRICT-641 604.
QUARRY LEASE APPLIED AREA: S.F.NO'S : 127/2(P),127/4A(P),127/7A(P) : &127/8A(P) EXTENT : 1.19.25 Ha, VILLAGE : ATHIPALAYAM, TALUK : PUGALUR, DISTRICT : KARUR.
INDEX Q. L. APPLIED AREA : TOPO SHEET NO : 58 E / 16 LATITUDE:11°01'36.76"Nto11°01'40.32"N LONGITUDE:77°54'45.61"Eto77°54'51.99"E
LOCATION PLAN NOT TO SCALE
PREPARED BY : THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT. C.NATARAJAN,M.Sc.,M.Phil., QUALIFIED PERSON

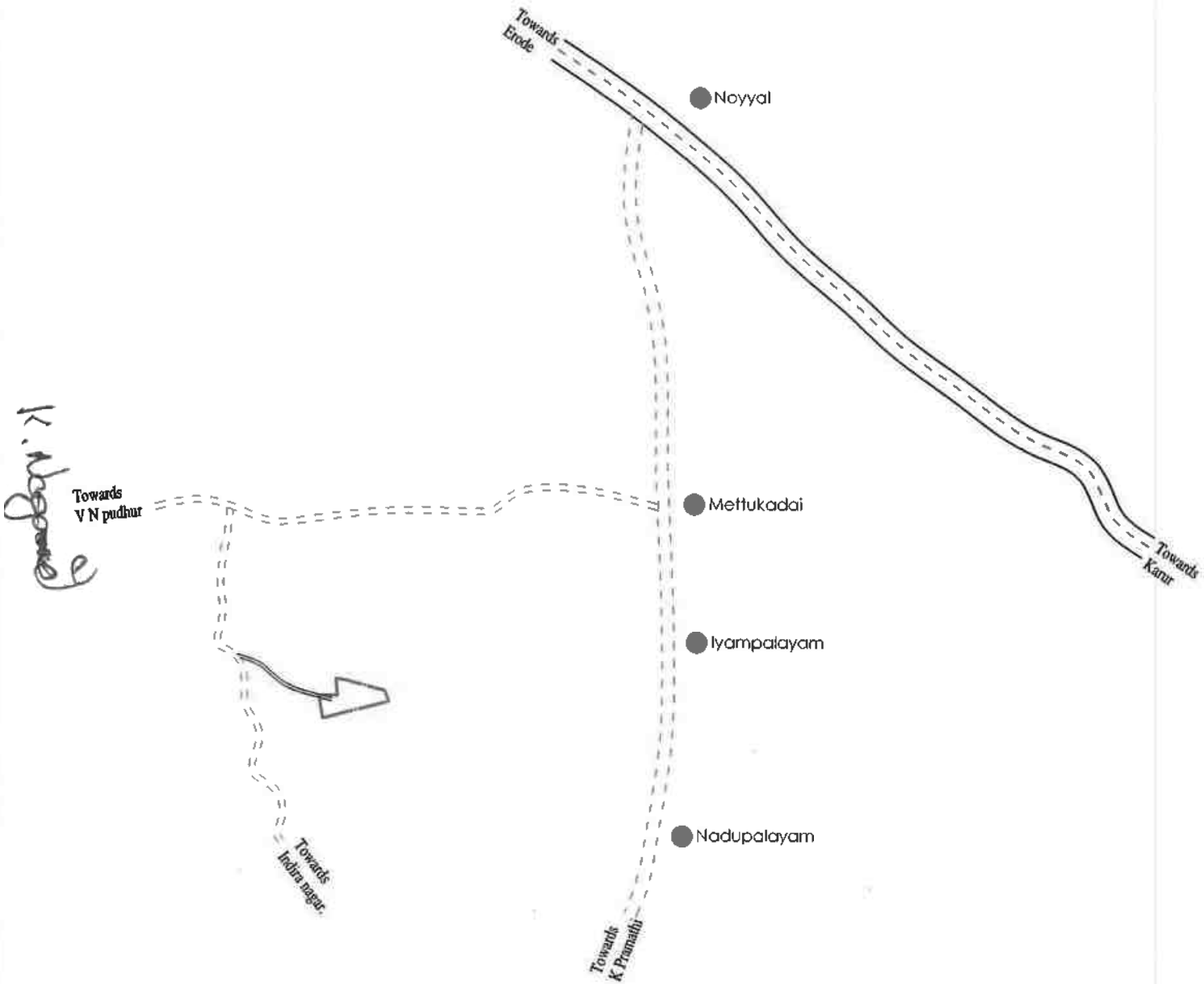


PLATE NO:I-D

DATE OF SURVEY :10.12.2025

APPLICANT:

THIRU.K.NAGARAJ,
S/o.KUMAR,
No.12/1A,PORKODI COMPOUND,
PUTHUKADU 2nd STREET,
TIRUPPUR T.C MARKET,
TIRUPPUR DISTRICT-641 604.

QUARRY LEASE APPLIED AREA:

S.F.NO'S : 127/2(P),127/4A(P),127/7A(P)
: &127/8A(P)
EXTENT : 1.19.25 Ha,
VILLAGE : ATHIPALAYAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

Q.L. APPLIED AREA	
STATE HIGHWAY	
PANCHAYAT ROAD	
APPROACH ROAD	
HABITATIONS	

KEY PLAN

Not To Scale

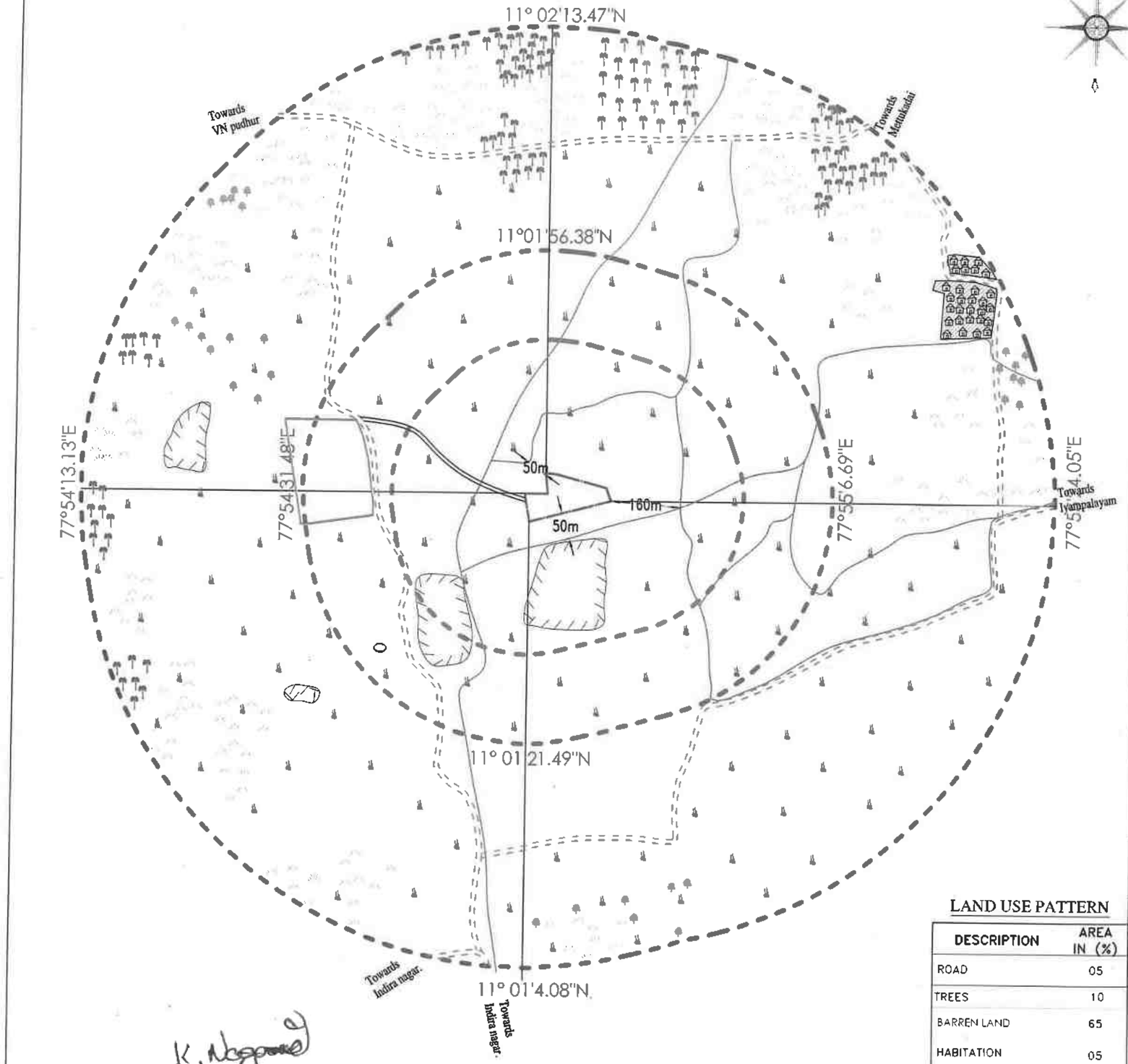
PREPARED BY:

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

C.NATARAJAN,M.SC.,M.PHIL.,
QUALIFIED PERSON

PLATE NO: 1A

DATE OF SURVEY :10.12.2025



APPLICANT:

THIRU.K.NAGARAJ,
S/o.KUMAR,
No.12/1A,PORKODI COMPOUND ,
PUTHUKADU 2nd STREET,
TIRUPPUR T.C MARKET,
TIRUPPUR DISTRICT-641 604.

QUARRY LEASE APPLIED AREA:

S.F.NO'S : 127/2(P),127/4A(P),127/7A(P)
: &127/8A(P)
EXTENT : 1.19.25 Ha,
VILLAGE : ATHIPALAYAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

TOPO SHEET NO : 58 E / 16

LATITUDE:11°01'36.76"Nto11°01'40.32"N

LONGITUDE:77°54'45.61"Eto77°54'51.99"E

Q.L.APPLIED AREA	
300M RADIUS	
500M RADIUS	
1KM RADIUS	
APPROACH ROAD	
PANCHAYAT ROAD	
BARREN LAND	
TREES	
SEASONAL AGRICULTURAL LAND	
QUARRY PIT	
HABITATIONS	
CRUSHER PLANT	
ODAI	

ENVIRONMENTAL PLAN

SCALE 1 : 10,000

LAND USE PATTERN

DESCRIPTION	AREA IN (%)
ROAD	05
TREES	10
BARREN LAND	65
HABITATION	05
AGRICULTURAL LAND	10
WATER BODIES	05

PREPARED BY :

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

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



K. Nagaraj

PLATE NO: 1B

DATE OF SURVEY :10.12.2025

APPLICANT:

THIRU.K.NAGARAJ,
S/o.KUMAR.
No.12/1A,PORKODI COMPOUND ,
PUTHUKADU 2nd STREET,
TIRUPPUR T.C MARKET,
TIRUPPUR DISTRICT-641 604.

QUARRY LEASE APPLIED AREA:

S.F.NO'S : 127/2(P),127/4A(P),127/7A(P)
: &127/8A(P)
EXTENT : 1.19.25 Ha,
VILLAGE : ATHIPALAYAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

TOPO SHEET NO : 58 E / 16

LATITUDE:11°01'36.76"Nto11°01'40.32"N

LONGITUDE:77°54'45.61"Eto77°54'51.99"E

Q.L. APPLIED AREA	
300M RADIUS	
500M RADIUS	
1KM RADIUS	
APPROACH ROAD	
PANCHAYAT ROAD	

SATELLITE IMAGERY MAP
SCALE 1 : 10,000

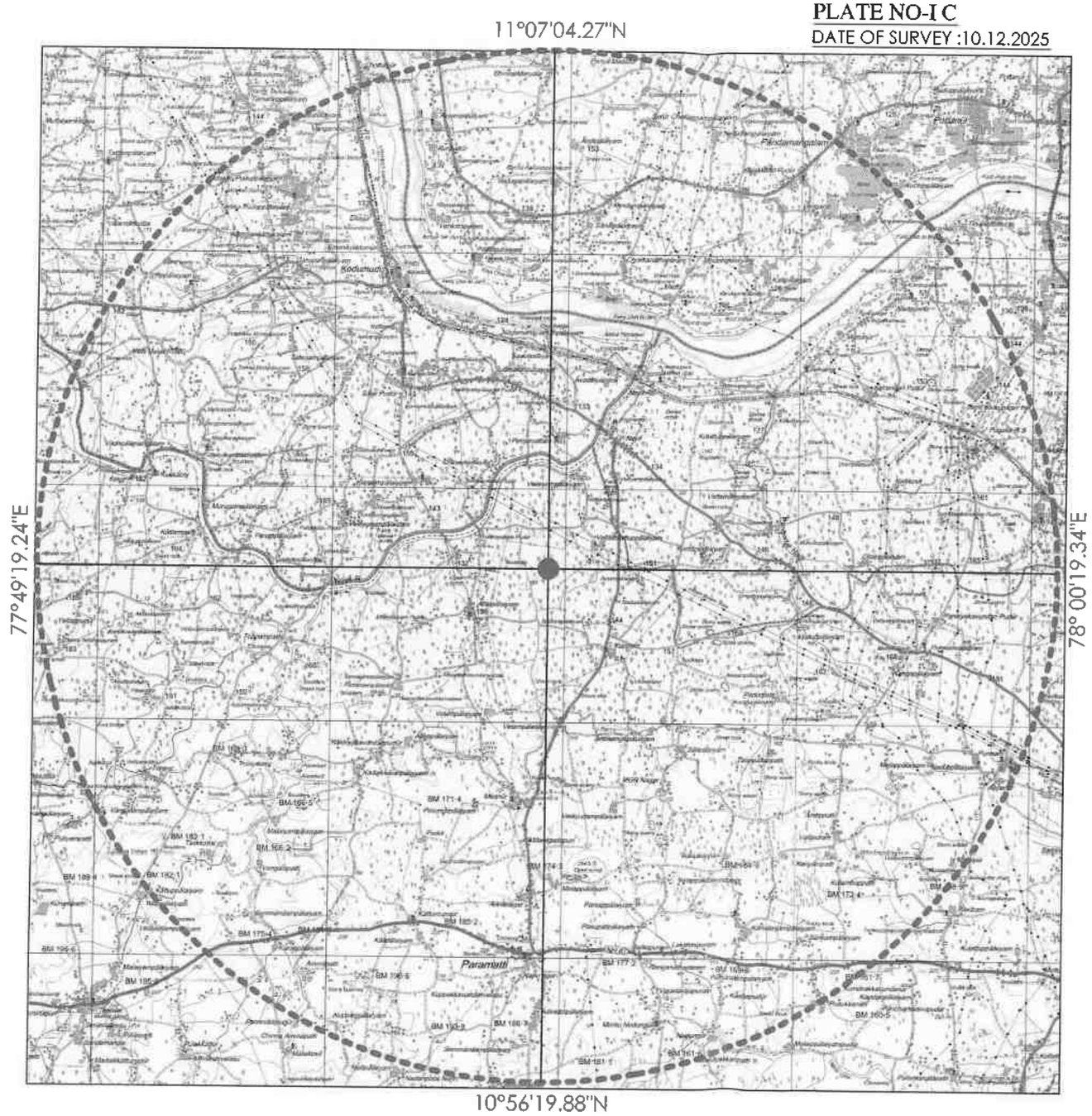
PREPARED BY :

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

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

PLATE NO-I C

DATE OF SURVEY :10.12.2025



K. Nagaraj

APPLICANT:

THIRU.K.NAGARAJ,
S/o.KUMAR,
No.12/1A,PORKODI COMPOUND ,
PUTHUKADU 2nd STREET,
TIRUPPUR T.C MARKET,
TIRUPPUR DISTRICT-641 604.

QUARRY LEASE APPLIED AREA:

S.F.NO'S : 127/2(P),127/4A(P),127/7A(P)
: &127/8A(P)
EXTENT : 1.19.25 Ha,
VILLAGE : ATHIPALAYAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

TOPO SHEET NO : 58 E / 16

LATITUDE:11°01'36.76"Nto11°01'40.32"N

LONGITUDE:77°54'45.61"Eto77°54'51.99"E

Q.L. APPLIED AREA

10KM RADIUS



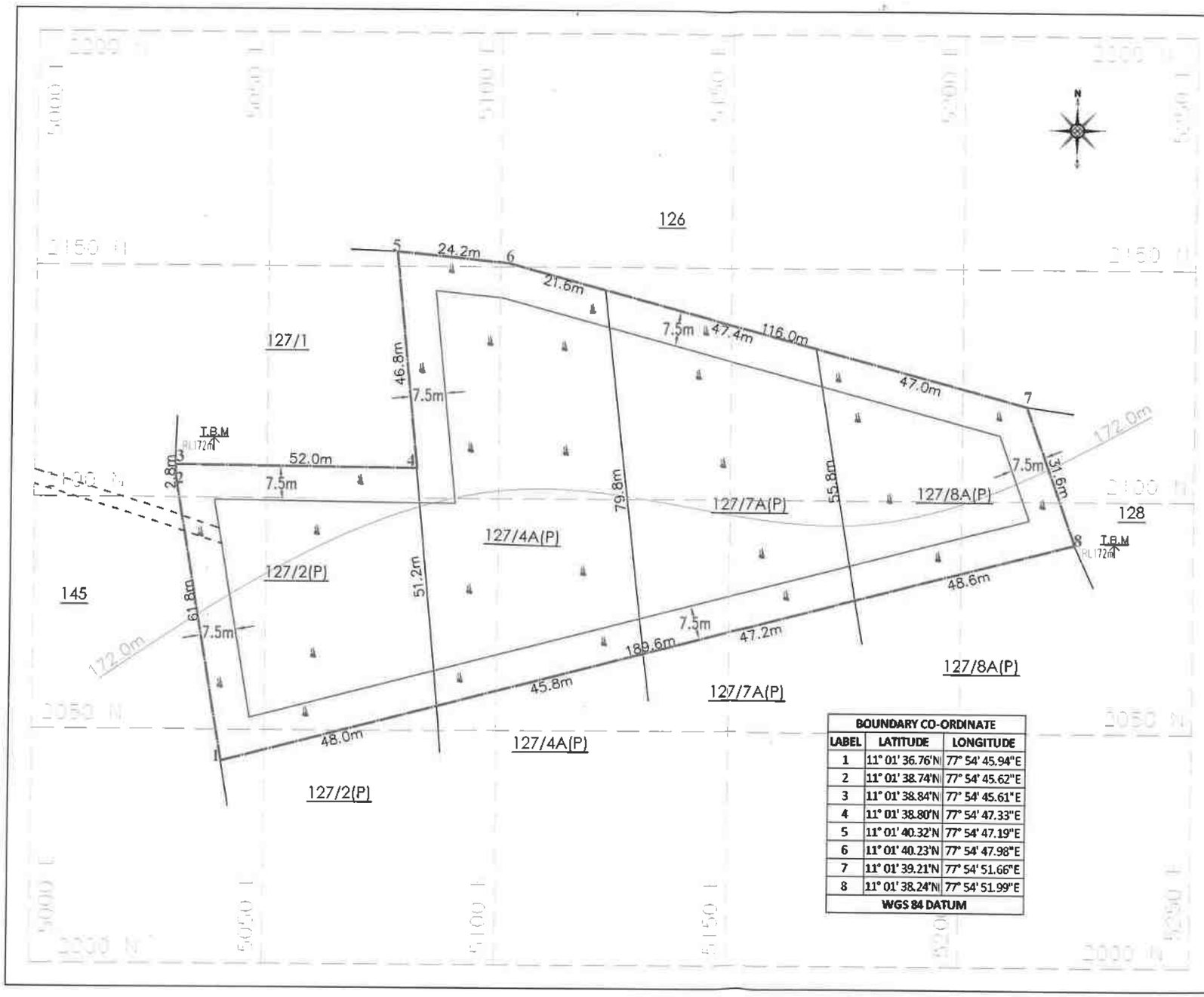
TOPO SKETCH OF QUARRY LEASE APPLIED AREA FOR 10Km RADIUS

SCALE– 1:100000

PREPARED BY :

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

C.NATARAJAN,M.SC.,M.PHIL.,
QUALIFIED PERSON



BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
1	11° 01' 36.76"N	77° 54' 45.94"E
2	11° 01' 38.74"N	77° 54' 45.62"E
3	11° 01' 38.84"N	77° 54' 45.61"E
4	11° 01' 38.80"N	77° 54' 47.33"E
5	11° 01' 40.32"N	77° 54' 47.19"E
6	11° 01' 40.23"N	77° 54' 47.98"E
7	11° 01' 39.21"N	77° 54' 51.66"E
8	11° 01' 38.24"N	77° 54' 51.99"E
WGS 84 DATUM		

PLATE NO-II

DATE OF SURVEY : 10.12.2025

APPLICANT:

THIRU.K.NAGARAJ,
S/o.KUMAR,
No.12/1A,PORKODI COMPOUND ,
PUTHUKADU 2nd STREET,
TIRUPPUR T.C MARKET,
TIRUPPUR DISTRICT-641 604.

QUARRY LEASE APPLIED AREA:

S.F.NO'S : 127/2(P),127/4A(P),127/7A(P)
: &127/8A(P)
EXTENT : 1.19.25 Ha,
VILLAGE : ATHIPALAYAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

Q.LEASE APPLIED BOUNDARY
7.5m SAFETY DISTANCE
TEMPORARY BENCH MARK — T.B.M
APPROACH ROAD
CONTOUR
SCRUB

QUARRY LEASE & SURFACE PLAN

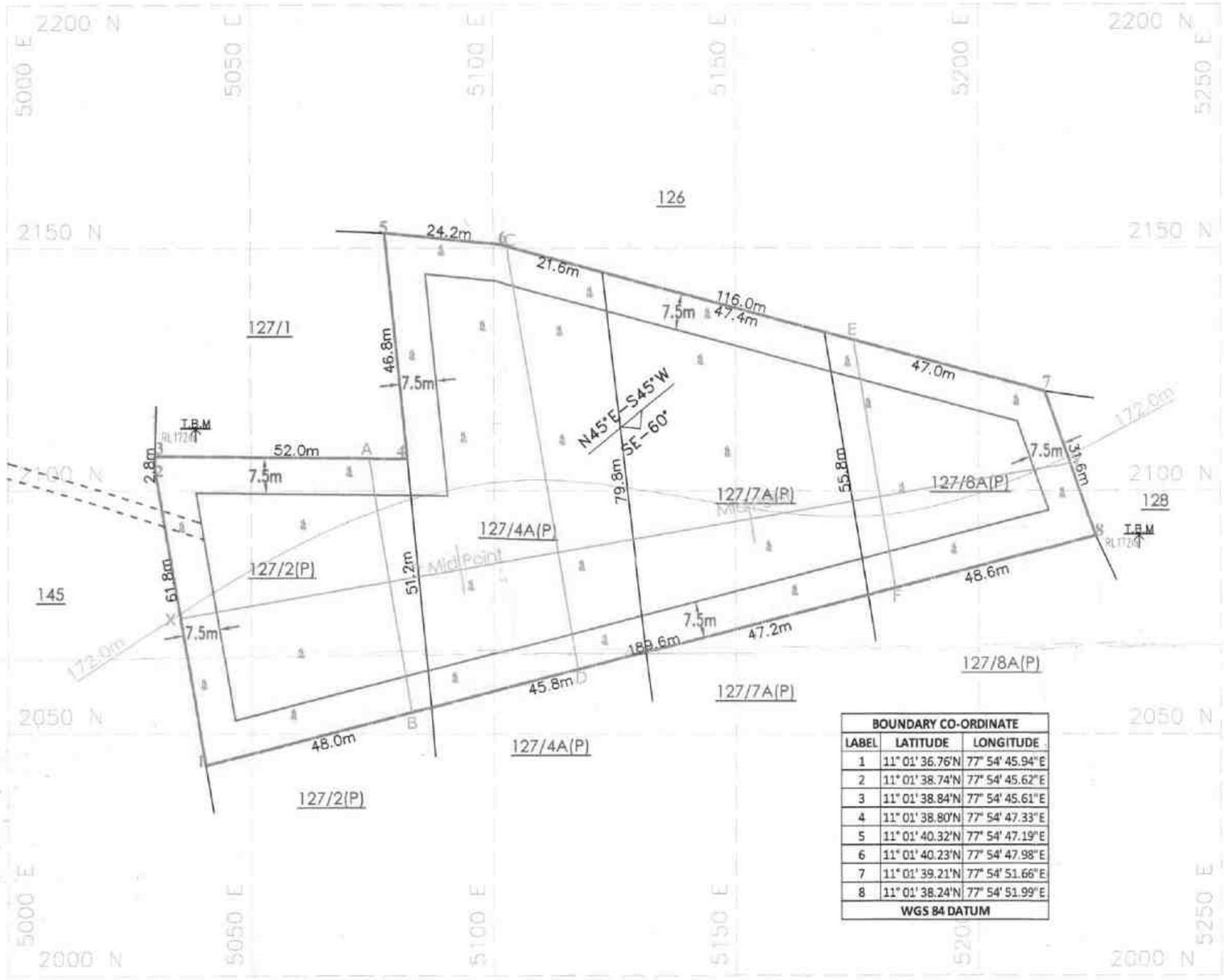
SCALE 1: 1000

PREPARED BY:

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

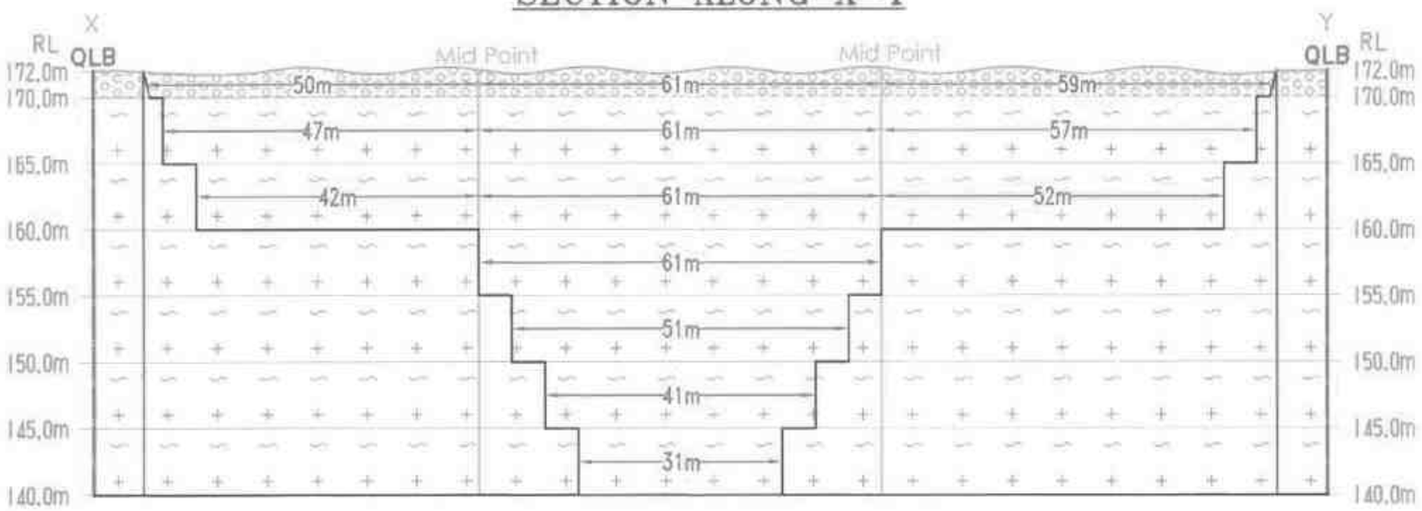
C.NATARAJAN.M.Sc.,M.Phil.,
QUALIFIED PERSON

K. Nagaraj

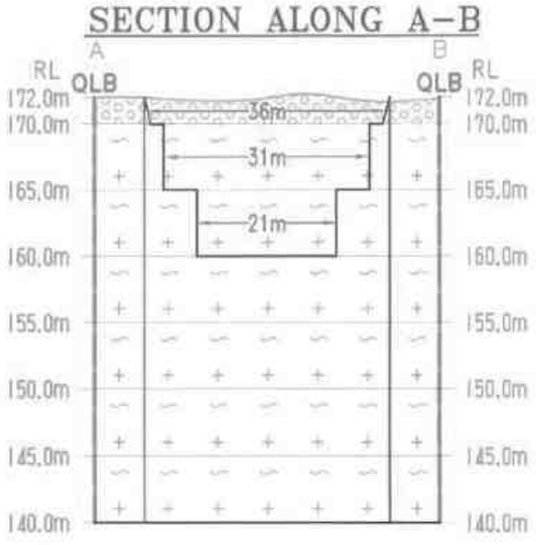


BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
1	11° 01' 36.76"N	77° 54' 45.94"E
2	11° 01' 38.74"N	77° 54' 45.62"E
3	11° 01' 38.84"N	77° 54' 45.61"E
4	11° 01' 38.80"N	77° 54' 47.33"E
5	11° 01' 40.32"N	77° 54' 47.19"E
6	11° 01' 40.23"N	77° 54' 47.98"E
7	11° 01' 39.21"N	77° 54' 51.66"E
8	11° 01' 38.24"N	77° 54' 51.99"E
WGS 84 DATUM		

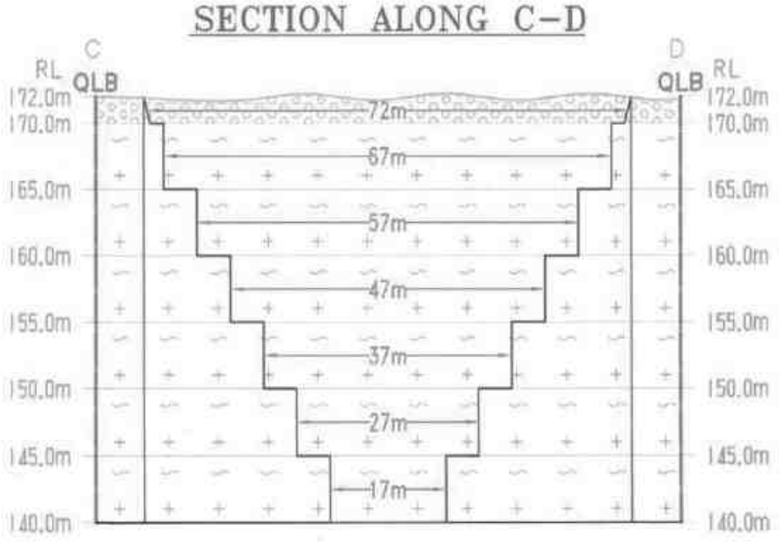
SECTION ALONG X–Y



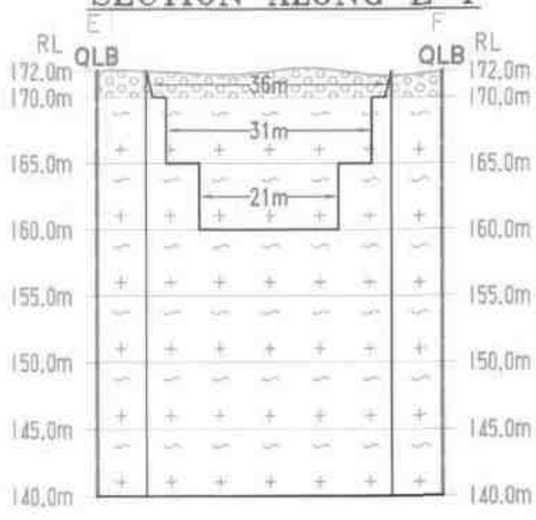
SECTION ALONG A–B



SECTION ALONG C–D



SECTION ALONG E–F



K. Nagaraj

PLATE NO-IV

DATE OF SURVEY : 10.12.2025

APPLICANT:

THIRU.K.NAGARAJ,
S/o.KUMAR,
No.12/1A,PORKODI COMPOUND ,
PUTHUKADU 2nd STREET,
TIRUPPUR T.C MARKET,
TIRUPPUR DISTRICT-641 604.

QUARRY LEASE APPLIED AREA:

S.F.NO'S : 127/2(P),127/4A(P),127/7A(P)
: &127/8A(P)
EXTENT : 1.19.25 Ha,
VILLAGE : ATHIPALAYAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

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

MINEABLE PLAN & SECTION

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

PREPARED BY:

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

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

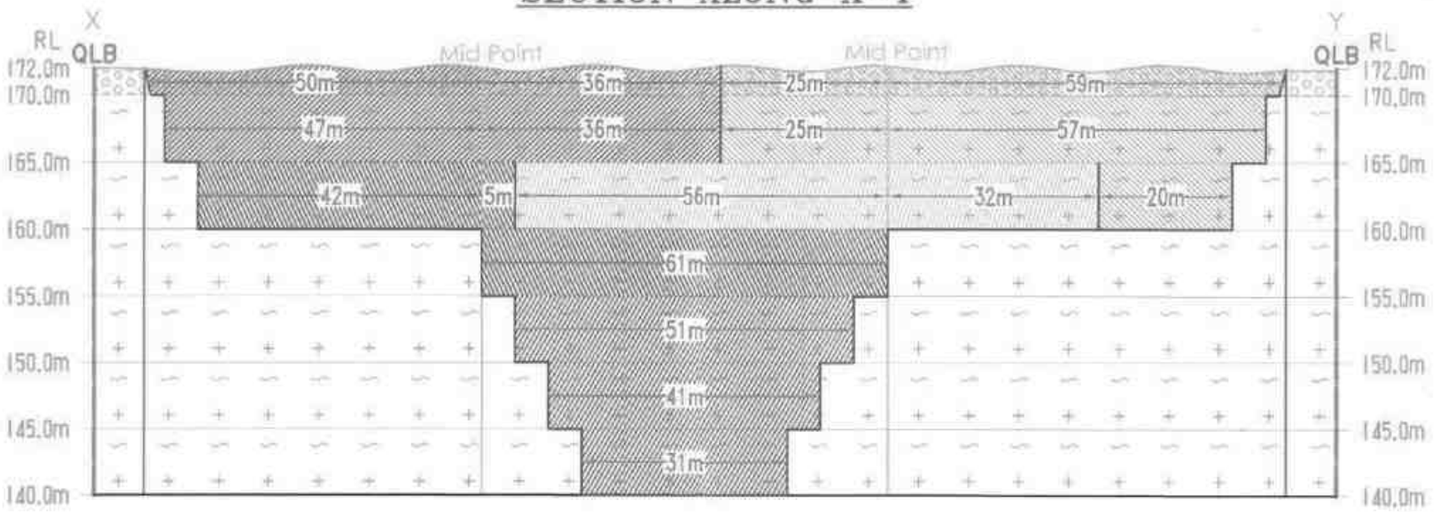


PRESENT & POST LAND USE PATTERN

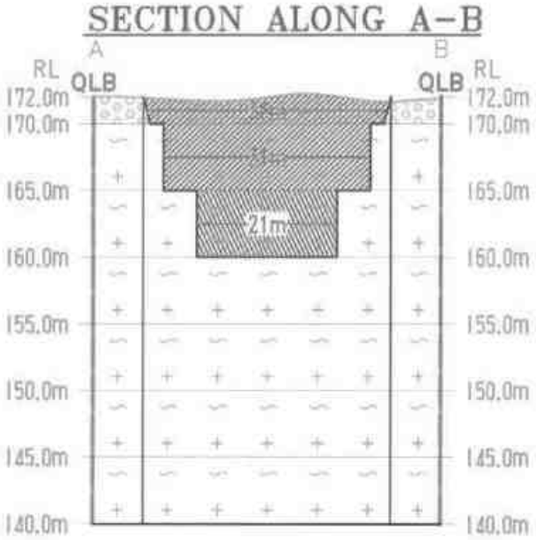
DESCRIPTION	PRESENT AREA (Ha)	AREA AT THE END OF THIS QUARRYING PERIOD (Ha)
AREA UNDER QUARRYING	NIl	0.79.90
INFRASTRUCTURE	NIl	0.01.00
ROADS	NIl	0.01.00
GREEN BELT	NIl	0.37.35
UN-UTILIZED AREA	1.19.25	NIl
GRAND TOTAL	1.19.25	1.19.25

BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
1	11° 01' 36.76"N	77° 54' 45.94"E
2	11° 01' 38.74"N	77° 54' 45.62"E
3	11° 01' 38.84"N	77° 54' 45.61"E
4	11° 01' 38.80"N	77° 54' 47.33"E
5	11° 01' 40.32"N	77° 54' 47.19"E
6	11° 01' 40.23"N	77° 54' 47.98"E
7	11° 01' 39.21"N	77° 54' 51.66"E
8	11° 01' 38.24"N	77° 54' 51.99"E
WGS 84 DATUM		

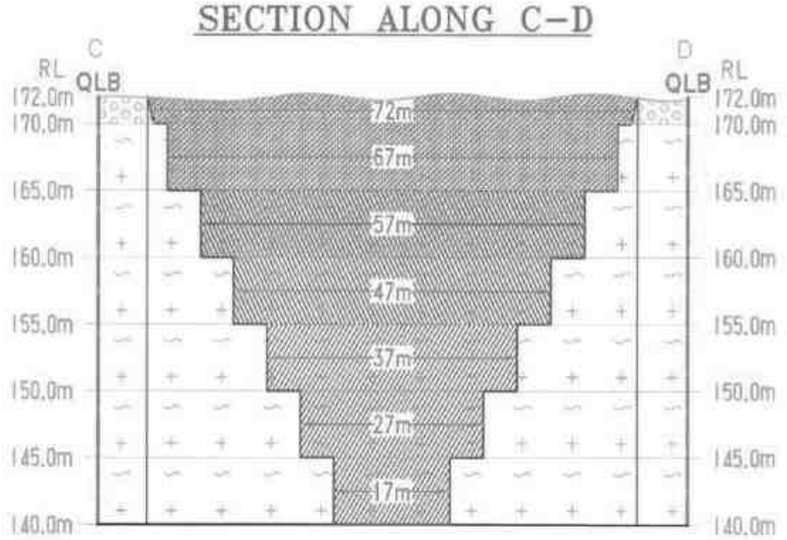
SECTION ALONG X-Y



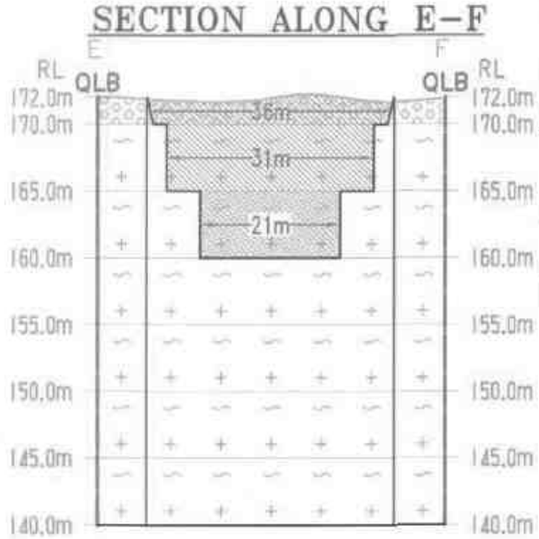
SECTION ALONG A-B



SECTION ALONG C-D



SECTION ALONG E-F



PROPOSED SITE SERVICES

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

Proposed area to be Planted

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

PLATE NO-V

DATE OF SURVEY : 10.12.2025

APPLICANT:

THIRU.K.NAGARAJ.
S/o.KUMAR,
No.12/1A,PORKODI COMPOUND ,
PUTHUKADU 2nd STREET,
TIRUPPUR T.C MARKET,
TIRUPPUR DISTRICT-641 604.

K. Nagaraj

QUARRY LEASE APPLIED AREA:

S.F.NO'S : 127/2(P),127/4A(P),127/7A(P)
: &127/8A(P)
EXTENT : 1.19.25 Ha.
VILLAGE : ATHIPALAYAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

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

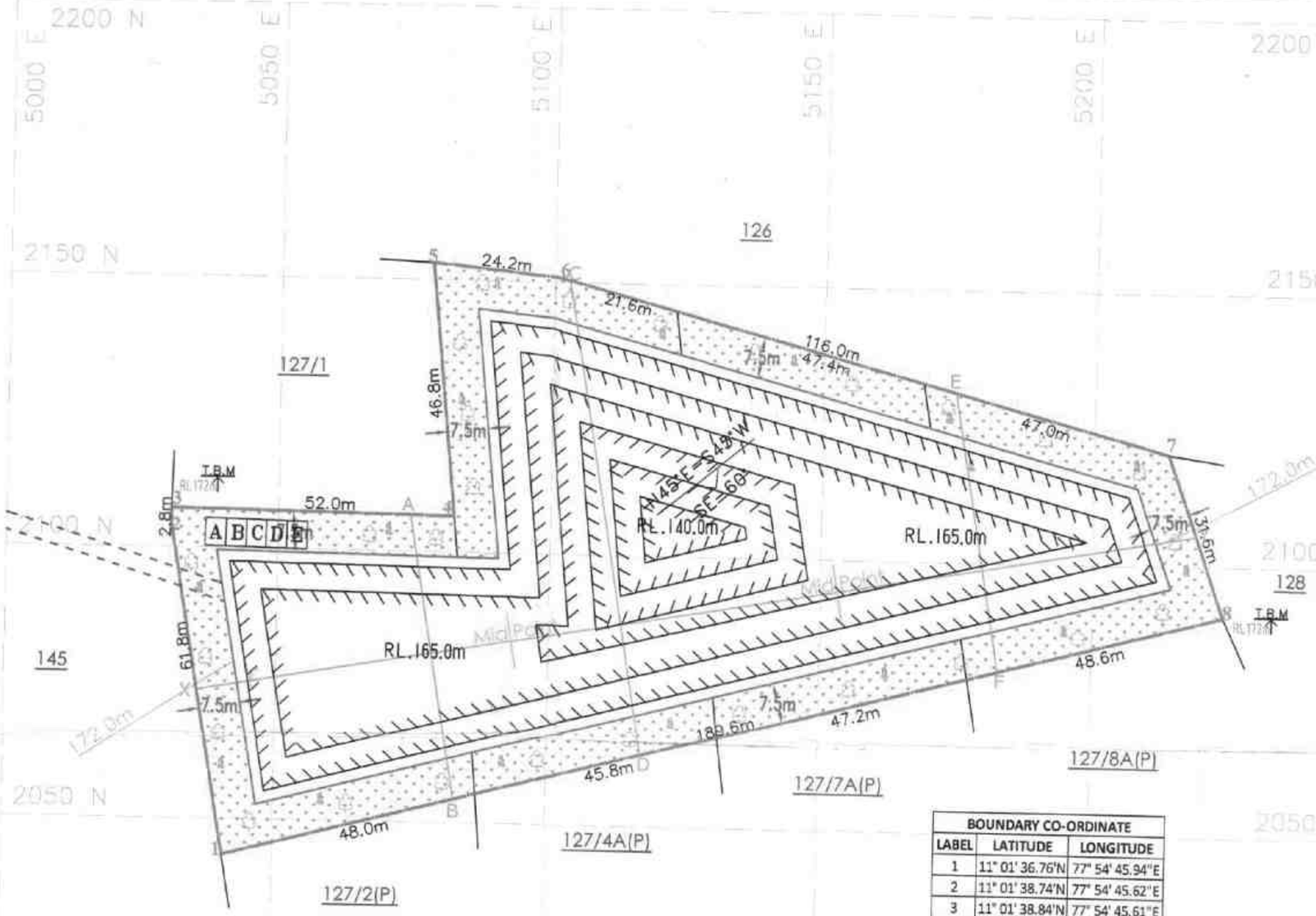
YEARWISE DEVELOPMENT & PRODUCTION PLAN & SECTION

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

PREPARED BY:

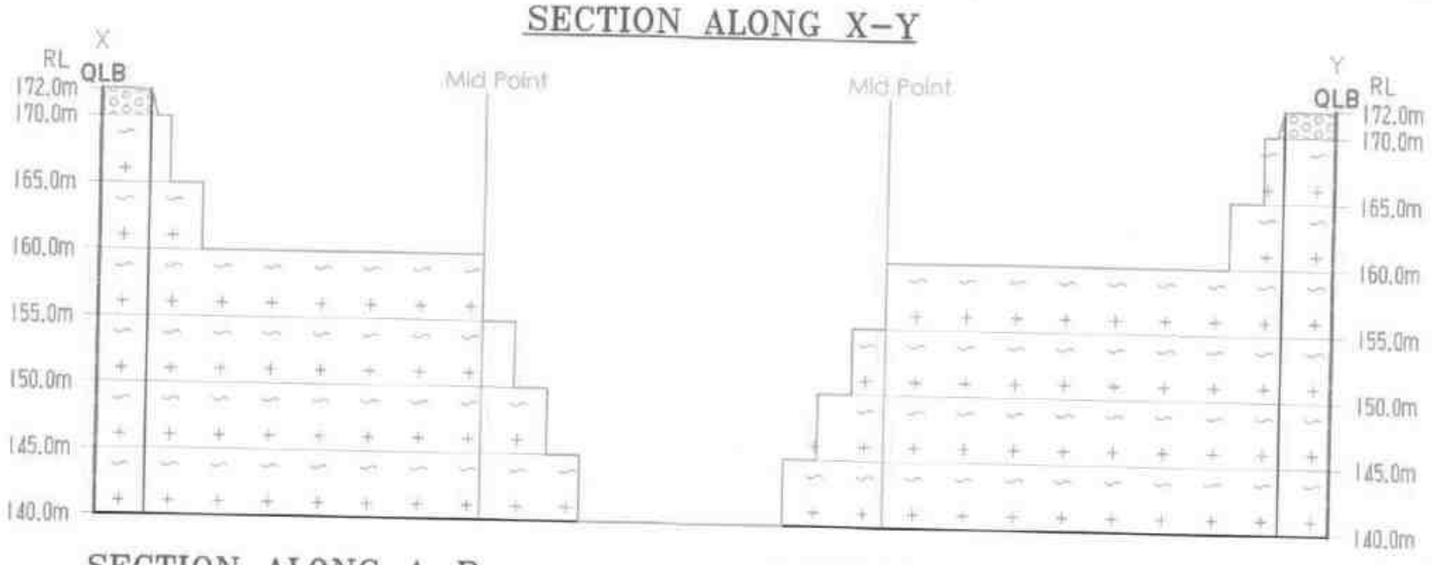
THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT

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

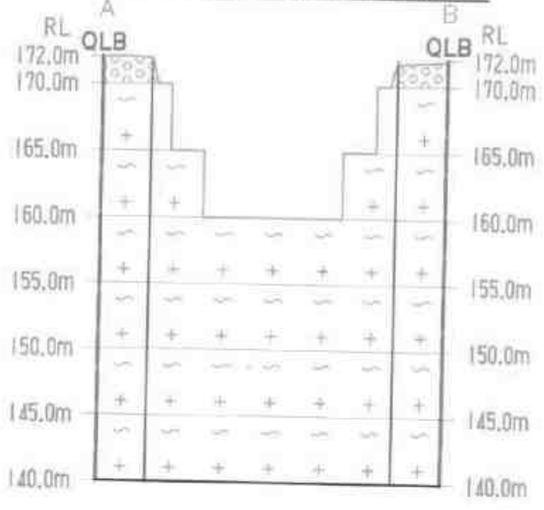


BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
1	11° 01' 36.76"N	77° 54' 45.94"E
2	11° 01' 38.74"N	77° 54' 45.62"E
3	11° 01' 38.84"N	77° 54' 45.61"E
4	11° 01' 38.80"N	77° 54' 47.33"E
5	11° 01' 40.32"N	77° 54' 47.19"E
6	11° 01' 40.23"N	77° 54' 47.98"E
7	11° 01' 39.21"N	77° 54' 51.66"E
8	11° 01' 38.24"N	77° 54' 51.99"E
WGS 84 DATUM		

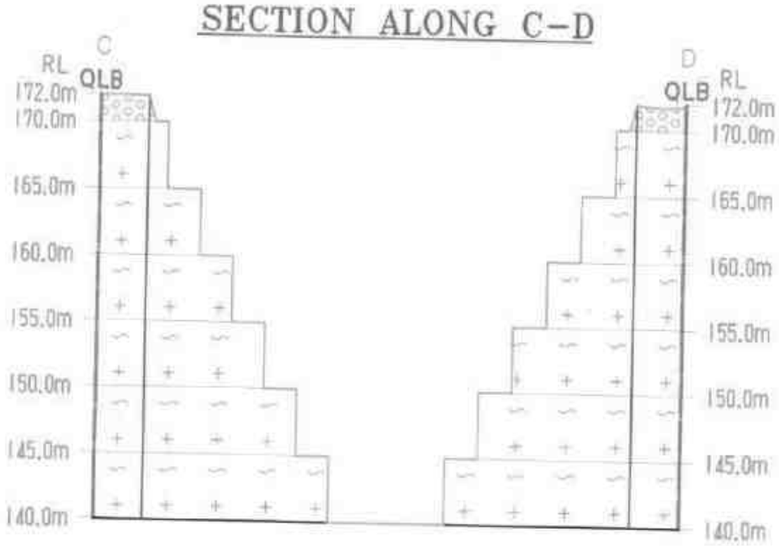
SECTION ALONG X-Y



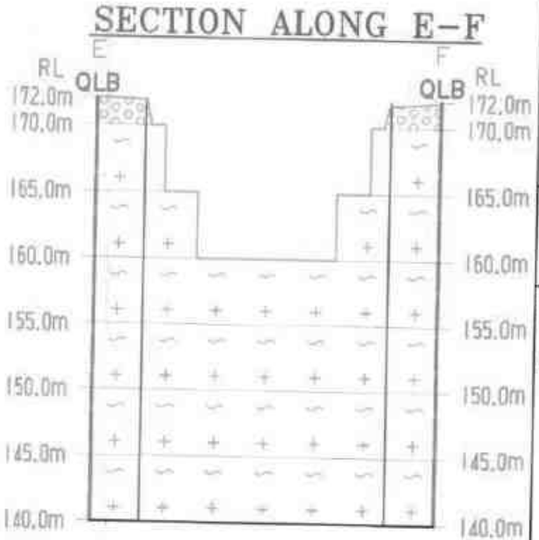
SECTION ALONG A-B



SECTION ALONG C-D



SECTION ALONG E-F



PROPOSED SITE SERVICES

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

Proposed area to be Planted

ULTIMATE PIT DIMENSION END OF MINING PLAN PERIOD
L170(Max)mX47(Avg)mXD32(Max)m

PLATE NO-VI

DATE OF SURVEY : 10.12.2025

APPLICANT:

THIRU.K.NAGARAJ,
S/o.KUMAR,
No.12/1A,PORKODI COMPOUND ,
PUTHUKADU 2nd STREET,
TIRUPPUR T.C MARKET,
TIRUPPUR DISTRICT-641 604.

QUARRY LEASE APPLIED AREA:

S.F.NO'S : 127/2(P),127/4A(P),127/7A(P) : &127/8A(P)
EXTENT : 1.19.25 Ha,
VILLAGE : ATHIPALAYAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

- Q.LEASE APPLIED BOUNDARY
- 7.5m SAFETY DISTANCE
- TEMPORARY BENCH MARK (T.B.M)
- APPROACH ROAD
- CONTOUR
- SCRUB
- GRAVEL
- ROUGH STONE
- STRIKE & DIP
- PROPOSED QUARRY PIT

CONCEPTUAL PLAN & SECTION

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

PREPARED BY:

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

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

ANNEXURE-4

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

To
Thiru.K.Nagaraj,
S/o.Kumar,
No.12/1A, Porkodi Compund,
Puthukadu 2nd Street,
Tiruppur T.C. Market,
Tiruppur District.

Rc.No.170/Mines/2024, Dated: 02.01.2026

Sir,

Sub: Mines and Minerals – Minor Mineral – Karur District – Pugalur Taluk – Athipalayam Village - Patta land in S.F.Nos. 127/2(P) (0.28.75 hectares), 127/4A(P) (0.40.25 hectares), 127/7A(P)(0.30.75 hectares), and 127/8A(P) (0.19.50 hectares) Over an extent of 1.19.25 hectares - Quarry lease application preferred by Thiru.K.Nagarajan 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 application for quarrying Rough stone and Gravel preferred by Thiru.K.Nagaraj, S/o.Kumar, No.12/1A, Porkodi Compund, Puthukadu 2nd Street, Tiruppur T.C. Market, Tiruppur District, dated: 11.06.2024.

2. Deputy Director, Geology and Mining, Karur Notice, Rc.No.170/Mines/2024, Dated:09.12.2025

3. Mining Plan submitted by Thiru.K.Nagaraj, letter received in this office on 18.12.2025.

4. The Deputy Director, Geology and Mining, Karur Mining Plan approved letter Rc.No.170/Mines/2024, Dated: 02.01.2026

5. Thiru.K.Nagaraj, letter received in this office on:02.01.2026.

In the reference 1st cited Thiru.K.Nagaraj, S/o.Kumar, No.12/1A, Porkodi Compund, Puthukadu 2nd Street, Tiruppur T.C. Market, Tiruppur District has preferred an application for the grant of Ten years lease to quarry Rough Stone and Gravel over an extent of 1.19.25 hectares of patta land in S.F.Nos.127/2(P) (0.28.75 hectares), 127/4A(P) (0.40.25 hectares), 127/7A(P)(0.30.75 hectares), and 127/8A(P) (0.19.50 hectares) of Athipalayam Village, Pugalur 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.

Accordingly, the applicant has submitted the 3 copies of draft Mining Plan and the same was approved by the Deputy Director, Geology and Mining, Karur vide reference 4th cited.

In the reference 5th 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.	Thiru.K.Manisekaran S/o.Krishnasamy No.10/1 Ram Nagar Gandhigramam South Karur Tluk& District	Rough Stone	Pugalur Taluk, Athipalayam Village	140/1 (P) 140/2A (P) 140/3A (P) 141/1A (P) 141/2A (P) 141/3A (P)	1.69.40	01.02.2023 to 31.01.2028
2.	Thiru.T.S.P. Kannappan, VN Puthur, Aththipalayam P.O., Pugalur Taluk, Karur District	Rough Stone	Pugalur Taluk, Athipalayam Village	127/3C(P) 127/5(P) 127/6(P) 127/9(P) 130/A 130/B	3.25.00	11.09.2023 to 10.09.2028

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.	Thiru.K.Nagaraj, S/o.Kumar, No.12/1A, Porkodi Compund, Puthukadu 2nd Street, Tiruppur T.C. Market, Tiruppur District	Rough Stone & Gravel	Pugalur Taluk, Athipalayam Village	127/2 (P) 127/4A(P) 127/7A(P) 127/8A(P)	1.19.25	Proposed Area

III. Lease Expired Quarries : -

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

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					

S. 8/1/26

Deputy Director,
Geology and Mining,
Karur.

2.1.26

ANNEXURE-5

கரூர் மாவட்டம், புகழூர் வட்டம், அந்தியாணம்

கிராம நிர்வாக அலுவலர் வழங்கும் சான்று

கரூர் மாவட்டம், புகழூர் வட்டம்,

அந்தியபாளையம் கிராமத்தில், திருமன சுமி மகன்

T.S.P கண்ணப்பன், கண்ணப்பன் மகன்

K.P. நீலமணிராஜ் மற்றும் கண்ணப்பன் மனைவி

புஷ்பவல்லி ஆகியோர் பெயரில் கூப்பல் பட்டாவாக

உள்ள புல எண்கள் 127/2 (P) 0.28.75 ஹெக்டேர்,

127/4A (P) 0.40.25 ஹெக்டேர், 127/7A (P)

0.30.75 ஹெக்டேர், 127/8A (P) 0.19.50 ஹெக்டேர்

என மொத்தம் 1.19.25 ஹெக்டேர் பரப்பில் உள்ள

நிலத்தில் எந்தவித தொடர்பான இடையூறுகள் என்ன

தொடர்பு மற்றும் கிராமத்தில் வேறு எந்த

யாரி ஆக்கிரமிப்பு உள்ளதா? மேற்கு

நிலத்திற்கு 100 மீ சுற்றளவில் T.S.P. கண்ணப்ப

என்பவருக்கு சொந்தமான தென்னையும், மணிகண்டன்

என்பவருக்கு சொந்தமான தென்னை புங்கை மரங்களும்

தொடர்பும் உள்ளது.

A. Amy

12/11/24

கிராம நிர்வாக அலுவலர்

0. அந்தியபாளையம் கிராமம்,

புகழூர் வட்டம், கரூர் மாவட்டம்.

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Scanned with OKEN Scanner

கதிர் மாவட்ட, புதுச்சேரி, அந்தியாகாளம்
கிராம நிர்வாக அலுவலர் அலுவலகம் சார்ந்த

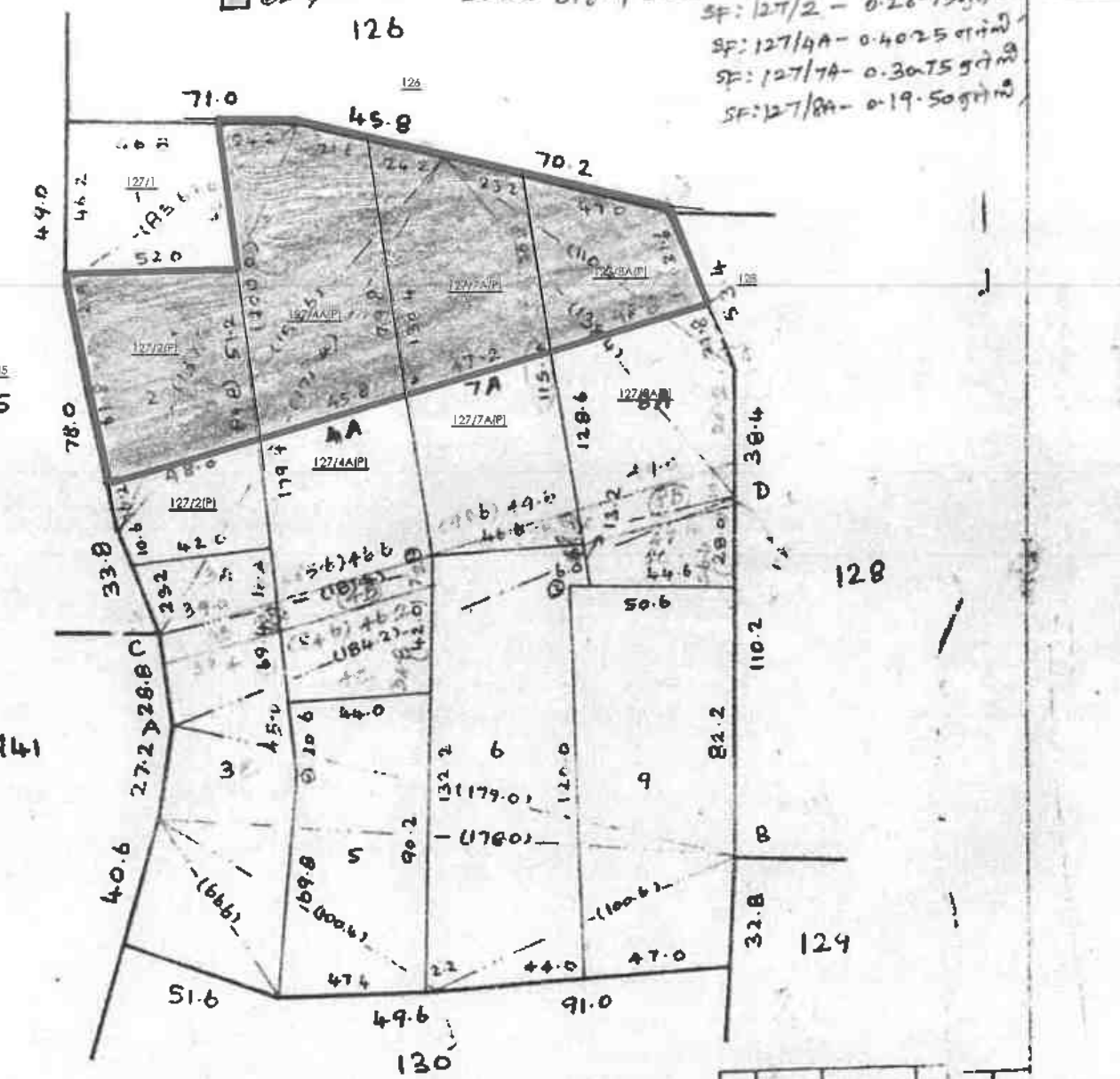
கதிர் மாவட்ட, புதுச்சேரி,
அந்தியாகாளம் கிராமத்தில், நீலவானி மகன்
T.S.P. சென்னப்பன், அண்ணப்பன் மனைவி
புதுவனி மற்றும் சென்னப்பன் மகன் M.P நீலவானி
அந்தோர் பெயரில் கூட்டுப் பட்டாவாக உள்ள
புல எண்கள் 127/2(P) 0.28.75 ஹெக்டேர்,
127/4A(P) 0.40.25 ஹெக்டேர், 127/7A(P)
0.30.75 ஹெக்டேர், 127/8A(P) 0.19.50 ஹெக்டேர்
என மொத்தம் 1.19.25 ஹெக்டேர் பரப்பில் உள்ள
நிலத்தில் அந்தகை சாராத்தை B. நாகராஜன் என்பவர்
சாகுபடி செய்கிறார். மேற்படி நிலம் தரிசாக
எக்க ஆனி அந்தகை பயிரிட்டுள்ளார்.
மேற்படி நிலத்தில் 300 சந்தனமரம் நிற்கிறது
என்றும் மேற்படி அடையாளப்படுத்தப்பட்ட இருபத்தைந்து
மரம் நிற்கவில்லை. 50 சந்தனமரம் உயர்ந்த
அதேபோல் பாகைகள் மேற்படி அளவுகளில் மரம் நின்றது
மேலும் மொரிசியஸ், புளிய சிங்கப்பூர், நிம்பிளை
மொன்ற இடைவெளிகளில் நின்ற மரம்
நின்றது. (இதற்கான எனிமதிப்பீட்டு
மட்டும் மட்டுமே)

A. Murugan
15/11/24
தோட்டக்கலை அலுவலர்
மாவட்ட ஆட்சியர் அலுவலகம்
புதுச்சேரி மாவட்டம்

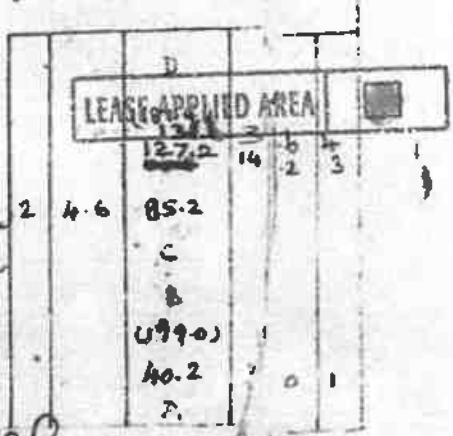
Scanned with OKEN Scanner

Scanned with OKEN Scanner

ANNEXURE-6



127/2 – 0.2875ஹெக்டெயர்
127/4A – 0.4025 ஹெக்டெயர்
127/7A – 0.3075 ஹெக்டெயர்
127/8A – 0.1950ஹெக்டெயர்

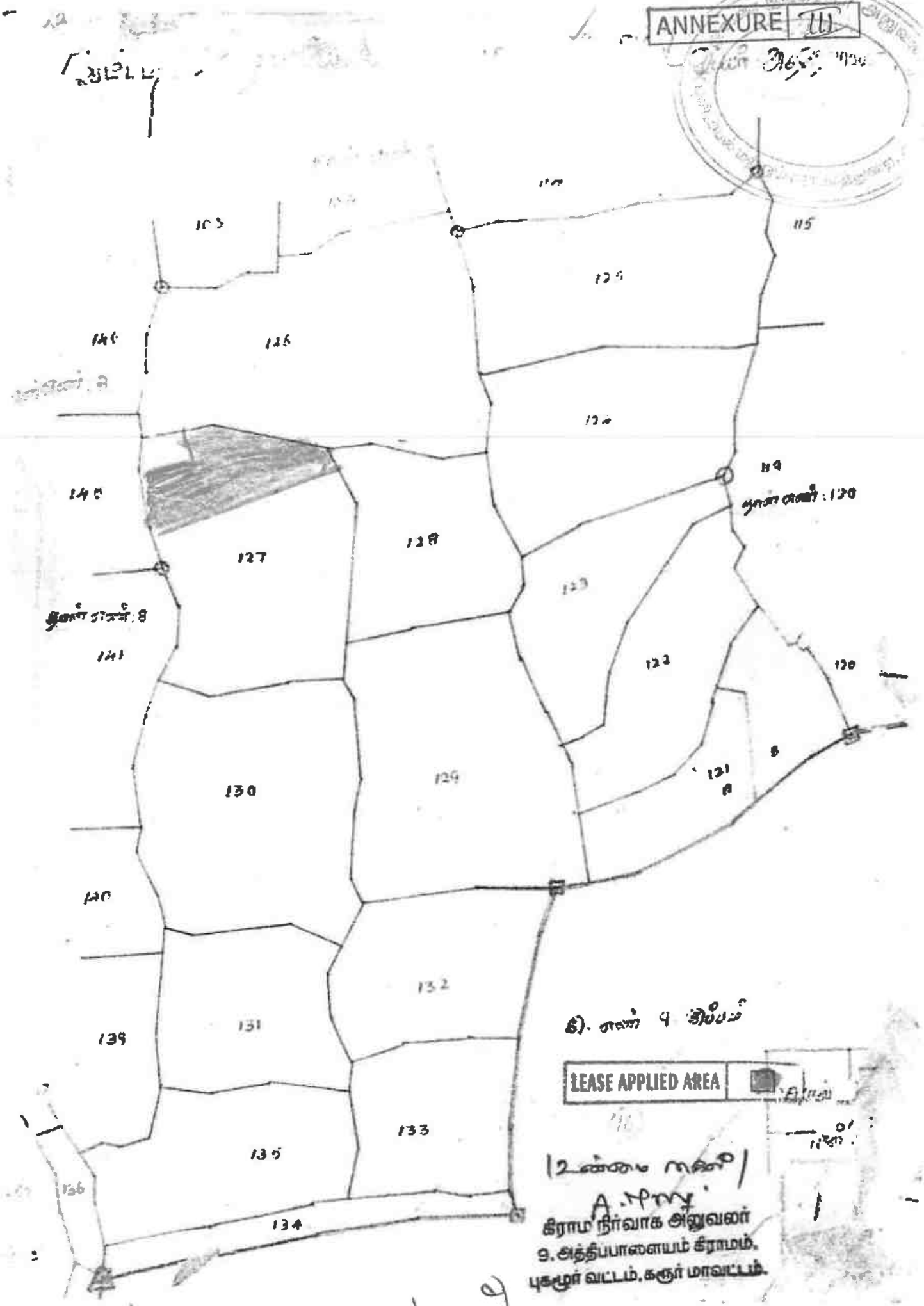


QUARRY LEASE AREA

SCALE: 1:2000

K. Nagaraj

ANNEXURE III



கிராம நிர்வாக அலுவலர்
9. அத்திப்பாளையம் கிராமம்.
புகழூர் வட்டம், கரூர் மாவட்டம்.

ANNEXURE TV

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம் : கரூர் **வட்டம் : புகழூர்**

வருவாய் கிராமம் : அத்திபாளையம் **பட்டா எண் : 7253**

உரிமையாளர்கள் பெயர்

1.	திருமலைசாமி	மகன்	T.S.P.கண்ணப்பன்
2.	கண்ணப்பன்	மனைவி	K.புஷ்பவள்ளி
3.	கண்ணப்பன்	மகன்	K.P.திருமலைராஜ்

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	
127	2	0 - 43.00	0.86	--	--	--	--	2022/0103/14/196600- -- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
		0 - 43.00	0.86					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **S/14/07/009/07253/70907** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 13-12-2025 அன்று 04:04:50 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம் : கரூர் **வட்டம் : புகழூர்**

வருவாய் கிராமம் : அத்திபாளையம் **பட்டா எண் : 7253**

உரிமையாளர்கள் பெயர்

1.	திருமலைசாமி	மகன்	T.S.P.கண்ணப்பன்
2.	கண்ணப்பன்	மனைவி	K.புஷ்பவள்ளி
3.	கண்ணப்பன்	மகன்	K.P.திருமலைராஜ்

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	
127	4A	0 - 67.00	1.34	--	--	--	--	2022/0103/14/196600-- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
		0 - 67.00	1.34					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **S/14/07/009/07253/70907** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 13-12-2025 அன்று 04:08:41 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம் : கரூர் **வட்டம் : புகழூர்**

வருவாய் கிராமம் : அத்திபாளையம் **பட்டா எண் : 7253**

உரிமையாளர்கள் பெயர்

1.	திருமலைசாமி	மகன்	T.S.P.கண்ணப்பன்
2.	கண்ணப்பன்	மனைவி	K.புஷ்பவள்ளி
3.	கண்ணப்பன்	மகன்	K.P.திருமலைராஜ்

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	
127	7A	0 - 55.00	1.10	--	--	--	--	2022/0103/14/196600- -- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
		0 - 55.00	1.10					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **S/14/07/009/07253/70907** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 13-12-2025 அன்று 04:09:58 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம் : கரூர் **வட்டம் : புகழூர்**

வருவாய் கிராமம் : அத்திபாளையம் **பட்டா எண் : 7253**

உரிமையாளர்கள் பெயர்

1.	திருமலைசாமி	மகன்	T.S.P.கண்ணப்பன்
2.	கண்ணப்பன்	மனைவி	K.புஷ்பவள்ளி
3.	கண்ணப்பன்	மகன்	K.P.திருமலைராஜ்

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	
127	8A	0 - 47.50	0.95	--	--	--	--	2022/0103/14/196600-- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
		0 - 47.50	0.95					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **S/14/07/009/07253/70907** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 13-12-2025 அன்று 04:11:03 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

ANNEXURE V

1435 – ஆம் பசலியில் நஞ்சை மாவட்டம் புதுச்சே

கிராமக் கணக்கு
வட்டம் அரித்துவாரமங்

நில வரித் திட்டத்தின்படி புலன்களின் விபரம்.						சாகுபடியாளரின் பெயர்.	முதல் போகம்.				
நில அளவை எண். (1)	உட்பிரிவு எண். (2)	பரப்பு (3)	தீர்வை. (4)	ஒரு போகம் அல்லது இரு போகம். (5)	கைப்பற்று தாருடைய பெயரும் எண்ணும் அல்லது அனுபோக தாருடைய பெயர். (6)	நிலத்தின் எந்த பகுதி யாவது சாகுபடியாளரால் பயிரிடப்பட்டுள்ளதா. (7)	எந்த பாகத்தில் பயிர் செய்யப்பட்டது எந்த பாகத்தில் அறுவடை செய்யப்பட்டது. (8)	பயிரின் பெயர். (9)	பயிரை / அறுவடை யான பரப்பு. (10)	உண்மையான பாய்ச்சல் ஆதாரம். (11)	விளைச்சல் அளவு விபரக்காடு. (12)
127	2	0.320	0.86	ஈரி	T.S.R சொன்னப்பை (21)	ஒரு					
	4A	0.470	1.24	ஈரி	— ஆ —	ஒரு					
	7A	0.380	1.10	ஈரி	— ஆ —	ஒரு					
	8A	0.445	0.95	ஈரி	— ஆ —	ஒரு					

12 வள்ளல் சாலை/
A.T.P. விஜயன்
சோழ நிர்வாக அதிகாரி
9, அத்திப்பாளையம் கிராமம்.
புதுச்சேரி வட்டம், கடலூர் மாவட்டம்.

ANNEXURE VI

11

	R				5 1	4	2	00				
	9				5 3	5	2	00	0		0	340
									4	76 5	0	98
128		128			8-3	5	2	00	2	98-5	5	97 739
129	A	129-A			8-3	5	2	00	4	38 0	8	76 132
	B	-B			8-3	5	2	00	1	26-5	2	53 122
									5	64-5	11	29
130	A	130-A			8-4	6	1	38	0	98 6	1	36 216
	B	-B			8-4	6	1	38	0	90-5	1	25 216
	C1	-Con			8-4	6	1	38	1	22-0	1	19 219
	C2	-Con			8-4	6	1	38	0	32-0	0	44 111
	C3	Con			8-4	6	1	38	0	30-0	0	41 203
	C4	Con			8-4	6	1	38	0	03-0	0	06 707
	C5	Con			8-4	6	1	38	0	42-5	0	58 481
	C6	Con			8-4	6	1	38	0	96 0	1	32 216
									5	14 0		

K. Nagaraj

கிராம நிர்வாக அலுவலர்
9. அத்திப்பாளையம் கிராமம்.
புகழூர் வட்டம், கரூர் மாவட்டம்.

Scanned with OKEN Scanner

2831/2024

ANNEXURE VII

TP/202777023/2024



தமிழ்நாடு தமிழ்நாடு TAMILNADU

BG 570464

V. M. SUBRAMANIAN
STAMP VENDOR.
L.NO. 44/97.
KARUR.

4.12.24 T.S.P. கிண்ணப்பன்.
Rs 1000/- கோயம்புத்தூர்.

குத்தகை பத்திரம்

2024-ம் வருடம் டிசம்பர் மாதம் 04-ம் தேதி திருப்பூர் மாவட்டம், திருப்பூர் வட்டம், புதுகாடு 2 வீதி, பொற்கொடி காம்பவுண்ட், கதவு எண்.12/7A என்ற முகவரியில் வசிக்கும் திரு.குமார் அவர்கள் குமாரர் திரு.K.நாகராஜ் (ஆதார் எண்.9100 2662 4786) (கைபேசி எண்.96553-85490)-1,

K. Nagaraj

T.S.P. Kannappan

K. Pushpavalli

K.P.

1 புத்தகம் 2024 ம்

வருடத்திய 2831 ம்

ஆவணம் 13 தாள்களைக்

கொண்டது 1 வது தாள்

K. Nagaraj எழுதிக் கொடுத்தவர்

கோயமுத்தூர் மாவட்டம், கோயமுத்தூர் தெற்கு வட்டம், கோயம்புத்தூர் மாநகராட்சி, சர்சண்முகம் ரோடு, ரத்தினசபாபதிபுரம், (R.S.PURAM) கதவு எண்.27 என்ற முகவரியில் வசிக்கும் T.M.திருமலைசாமி அவர்கள் குமாரர் T.S.P.கண்ணப்பன் (ஆதார் எண்.2730 9592 8055) (கைபேசி எண்.98422-44484)-2, மேற்படி 2 நபரின் மனைவி K.புஷ்பவள்ளி (ஆதார் எண்.7951 4673 9829) (கைபேசி எண்.99425-44484)-2, மேற்படி 2, 3 நபர்களின் குமாரர் K.P.திருமலைராஜ் (ஆதார் எண்.3761 3017 1624) (கைபேசி எண்.98422-44485)-4 ஆகிய நாம் அனைவரும் சேர்ந்து எழுதிக் கொண்ட குத்தகைப் பத்திரம் என்னவென்றால்,

இதனடியில் காணும் சொத்துக்கள் நம்மில் 2, 3, 4 நபர்களுக்கு சுயார்ஜித வகையில் சென்ற 25.10.2021-ம் தேதியில் M.ராமசாமி, R.ராமாயி ஆகியோர்களிடமிருந்து ஏற்பட்ட கிரையப் பத்திரப்படி (பத்திர எண்.1-புத்தகம், 144/2022, கரூர் 2நீ இணைச் சார்பதிவகம்) பாத்தியப்பட்டும், நம்மில் 2, 3, 4 நபர்களின் பெயரில் அத்திபாளையம் கிராமத்திய கூட்டுப்பட்டா எண்.7253 ஏற்பட்டும், இப்பால் நம்மில் 2, 3, 4 நபர்கள் சர்வ சுதந்திர பாத்தியங்களுடன் அனுபவித்து வருகிற கீழ்க்காணும் சொத்தை நம்மில் 1 நபருக்கு வருடம்

K. Nagaraj

T.S.P. Kannappan

K. Pushpavalli

K.P. Thirumalairaj

1 புத்தகம் 2021 ம்
வருடத்திய 2831 ம்
ஆவணம் 13 தாள்களைக்
கொண்டது 2 ஆது தாள்
பதிவு அலுவலர்

K. Nagaraj

ஒன்றுக்கு ரூ.5,000/- ரூபாய் ஐந்து ஆயிரம் வீதம் குத்தகைக்கு விடுவதாக பேசி முடிக்கப்பட்டு முன் பணம் ஏதும் இல்லாமல் 12 (பனிரெண்டு) வருட காலத்திற்கு அடியிற்கண்ட சொத்துக்களை நம்மில் 1 நபர் குவாரி மற்றும் கிரஷர் பணி செய்வதற்காக குத்தகைக்கு கொடுத்துள்ளார்.

நம்மில் 1 நபர் அடியிற்கண்ட சொத்தை குத்தகை ஒப்பந்தம் செய்து கொண்ட பிறகு மேற்படி வாய்தா காலம் வரையில் மேற்படி தொழில் செய்து வர வேண்டியது.

மேலும் குத்தகை காலத்திற்குரிய வரியை நம்மில் 2, 3, 4-வது நபர்கள் செலுத்த வேண்டியது. குத்தகை காலம் முடிந்ததும் நம்மில் 1 நபர் மேற்படி நிலத்தை சமப்படுத்தி விட்டு அடியிற்கண்ட சொத்துக்களை நம்மில் 2, 3, 4 நபர்களிடம் ஒப்படைக்க வேண்டியது.

மேற்படி சொத்துக்களை வில்லங்கம், விவகாரம் ஏதும் இல்லை என்று நம்மில் 1 நபருக்கு நம்மில் 2, 3, 4 நபர்கள் உறுதி கூறுகிறார்கள். வில்லங்கம், விவகாரம் ஏதும் ஏற்பட்டால் அதை நம்மில் 2, 3, 4 நபர்களே தீர்த்துக் கொடுக்கவும் சம்மதிக்கிறார்கள்.

சர்க்கார் தீர்வைகளை நம்மில் 1 நபரே செலுத்திக் கொள்ள வேண்டியது. இந்தப்படி நாம் சம்மதித்து எழுதிக் கொண்ட குத்தகை ஒப்பந்தப் பத்திரம் ஆகும்.

K Nagaraj

T.S.P. Kannappan

K. Pushpavalli

K.P. Murugesan

1 புத்தகம் 2024 ம்
வருடத்திய 2831 ம்
ஆவணம் 13 தாள்களைக்
கொண்டது 3 வது தாள்

பதிவு அலுவலர்

K. Nagaraj

சொத்து விபரம்

கரூர் பதிவு மாவட்டம், கரூர் 2ஆ இணைச் சார்பதிவகம், அரவக்குறிச்சி வட்டமாக இருந்து தற்சமயம் புகளூர் வட்டம், அத்திப்பாளையம் கிராமம், (பட்டா எண்.7253)

அ.பு.ச.127/2	நெ.	ஹெக்.0.43.00 ஏர்ஸ்
அ.பு.ச.127/3A	நெ.	ஹெக்.0.08.00 ஏர்ஸ்
அ.பு.ச.127/4A	நெ.	ஹெக்.0.67.00 ஏர்ஸ்
அ.பு.ச.127/4C	நெ.	ஹெக்.0.12.00 ஏர்ஸ்
அ.பு.ச.127/7A	நெ.	ஹெக்.0.55.00 ஏர்ஸ்
அ.பு.ச.127/8A	நெ.	ஹெக்.0.47.50 ஏர்ஸ்
அ.பு.ச.127/8C	நெ.	ஹெக்.0.08.00 ஏர்ஸ்
ஆக மொத்தம்		ஹெக்.2.40.50 ஏர்ஸ்-க்கு ஏக்.5.94 செண்ட்

K. Vasuki

T. S. P. Kannappan

K. Pushpavalli

K. Nagaraj

1 புத்தகம் 2024 ம்
வருடத்திய 2831 ம்
ஆவணம் 13 தாள்களைக்
கொண்டது 4 வது தாள்

பதிவு அலுவலர்

K. Nagaraj

இந்த விஸ்தீரணமுள்ள பூமி பூராவும். மேற்படி பூமிகளுக்குண்டான சகல ஈஸ்ட்மெண்ட் பாத்தியங்கள் சகிதம். மற்றும் மாமூல் வழித்தடம் சகிதம்.

K Nagaraj
T.S.P. Kannappan
K. Puthiyavalli
K.P. Muruganandham

சாட்சிகள்:-

1. M.B Pravin M.B.பிரவின், த/பெ.பாலசுப்ரமணியம், நெ.22, அங்காளபரமேஸ்வரி நகர், கோபி தெற்கு, கோபிசெட்டிபாளையம், ஈரோடு-638476. (ஆதார் எண்.4896 0652 1413)

2. A. Arunkumar A.அருண்குமார், த/பெ.ஆறுமுகம், நெ.8/14, சுப்பிரமணியநகர், விரக்கல்புதூர், மேட்டூர், சேலம் - 636403, (ஆதார் எண்.8745 7107 4214)

ஆவண அமைப்பு



C.DHANABALAN, L.No.B.1342/93/KRR,
101/29, Arikkarampalayam, Karur -2.
Cell No.99522-88163.

1 புத்தகம் 2024 ம்
வருடத்திய 2831 ம்
ஆவணம் 13 தாள்களைக்
கொண்டது 2 வது தாள்
பதிவு அலுவலர்

K. Nagaraj

R/2 எண் இணை சார்பதிவாளர் கரூர்/புத்தகம்-1/2831/2024

.. ஆம் ஆண்டு டிசம்பர் மாதம் 04ம் தேதி பி.ப. 02:52 மணியளவில் 2 எண் இணை சார்பதிவாளர் கரூர் சார்பதிவாளர் அலுவலகத்தில் தாக்கல் செய்து கட்டணம் ₹ 1,010/- செலுத்தியவர்.

இடது பெருவிரல்  	K. Nagaraj கூடுதல் விவரங்கள் ஆவண வாசகத்தில் உள்ளபடி	
எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர் இடது பெருவிரல்  	T.S.P. Kannappan "சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண் : UKC:6802442f0e492ea48d40aebbd5b48496708dfc (Details from UIDAI : Thirumalaisamy Poovammal Kannappan S/O: Thirumalaisamy, 13-04-1956, xxxxxxxx8055)	
எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர் இடது பெருவிரல்  	K. Pushpavalli "சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண் : UKC:9634679dab75b202fb4f0d80eaa40ec6110410 (Details from UIDAI : Pushpavalli W/O Kannappan, 19-05-1959, xxxxxxxx9829)	
எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர் இடது பெருவிரல்  	K.P. Pushpavalli "சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண் : UKC:4983376d660b354c0940a6a26774a0ab5516 (Details from UIDAI : Kaposappan Pushpavalli Thirumalaisamy S/O: [illegible])	

கொண்டது ..... அதற்கான

1 / 2

K. Nagaraj

R/2 எண் இணை சார்பதிவாளர் கருர்/புத்தகம்-1/2831/2024

எழுதி வாங்கியதாக ஒப்புக் கொண்டவர்
இடது பெருவிரல்





K. நகராஜ்

"சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பிட்டு எண் :
UKC:0500287d75e9c1b8be4eb6blbed13a3efa6ca4
(Details from UIDAI : Nagaraj S/O: Kumar, 02-11-1986, xxxxxxxx4766)



2024 ஆம் ஆண்டு டிசம்பர் மாதம் 4ம் நாள்

சம்பூரணம் சுரேஷ்குமார்
சார்பதிவாளர்
2 எண் இணை சார்பதிவாளர் கரூர்

R/2 எண் இணை சார்பதிவாளர் கருர்/புத்தகம்-1/2831/2024 எண்ணாகப் பதிவு செய்யப்பட்டது.

நாள்: 04/12/2024
2 எண் இணை சார்பதிவாளர் கரூர்

சம்பூரணம் சுரேஷ்குமார்
சார்பதிவாளர்

....1....புத்தகம்....2024....ம்
வருடத்திய ....2831....ம்
ஆவணம்....13....தான்களைக்
கொண்டது ....7....வது தாள்

பதிவு அலுவலர்

K. Nagaraj

சொத்தானது நீர்நிலை பகுதியில் அமையப் பெறவில்லை என்பதற்காக சான்று / உறுதிமொழி (DECLARATION) (நீதிபேராணை எண்.22163/2018-ல் வழங்கப்பட்ட தீர்ப்புரையை காண்க):-

இந்த ஆவணத்தில் கண்ட சொத்தானது நீர்நிலைகள், நீர்வழிப்பாதைகள், நீர்பிடிப்பு பகுதிகளில் கட்டுப்படவில்லை என சான்றளிக்கிறேன். மேலும் இதனில் தங்களுக்கு தவறான தகவல் அல்லது சான்று அளிக்கப்பட்டதாக பின்னாளில் கண்டுபிடிக்கப்பட்டால் அதனால் நான் சட்ட பூர்வ நடவடிக்கைகளுக்கு உட்படுத்தப்படுவேன் என்பதையும் அறிவேன்.

K. Nagaraj

T.S.P. Kannappan

K. Pushpavalli

1 புத்தகம் 2024 ம்

வருடத்திய 2831 ம்

ஆவணம் 13 தாள்களைக்

கொண்டது 2 வது தாள்

பதிவு அலுவலர்

K. Nagaraj

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம் : கரூர் வட்டம் : புகழூர்

வருவாய் கிராமம் : அத்திபாளையம் பட்டா எண் : 7253

உரிமையாளர்கள் பெயர்

1.	திருமலைசாமி	மகன்	T.S.P.கண்ணப்பன்	-
2.	கண்ணப்பன்	மனைவி	K.புஷ்பவள்ளி	-
3.	கண்ணப்பன்	மகன்	K.P.திருமலைராஜ்	-

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	
127	2	0 - 43.00	0.86	--	--	--	--	2022/0103/14/196600---------- Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
127	3A	0 - 8.00	0.16	--	--	--	--	2022/0103/14/196600---------- Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
127	3C	0 - 42.00	0.84	--	--	--	--	2022/0103/14/196600---------- Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
127	4A	0 - 67.00	1.34	--	--	--	--	2022/0103/14/196600---------- Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
127	4C	0 - 12.00	0.24	--	--	--	--	2022/0103/14/196600---------- Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM

1 புத்தகம் 2024 ம்
2831 ம்
வருடத்திய தான்கலைக்
ஆவணம் 13 9 அது தான்
கொண்டது
பதிவு அலுவலர்

K. Nagaraj

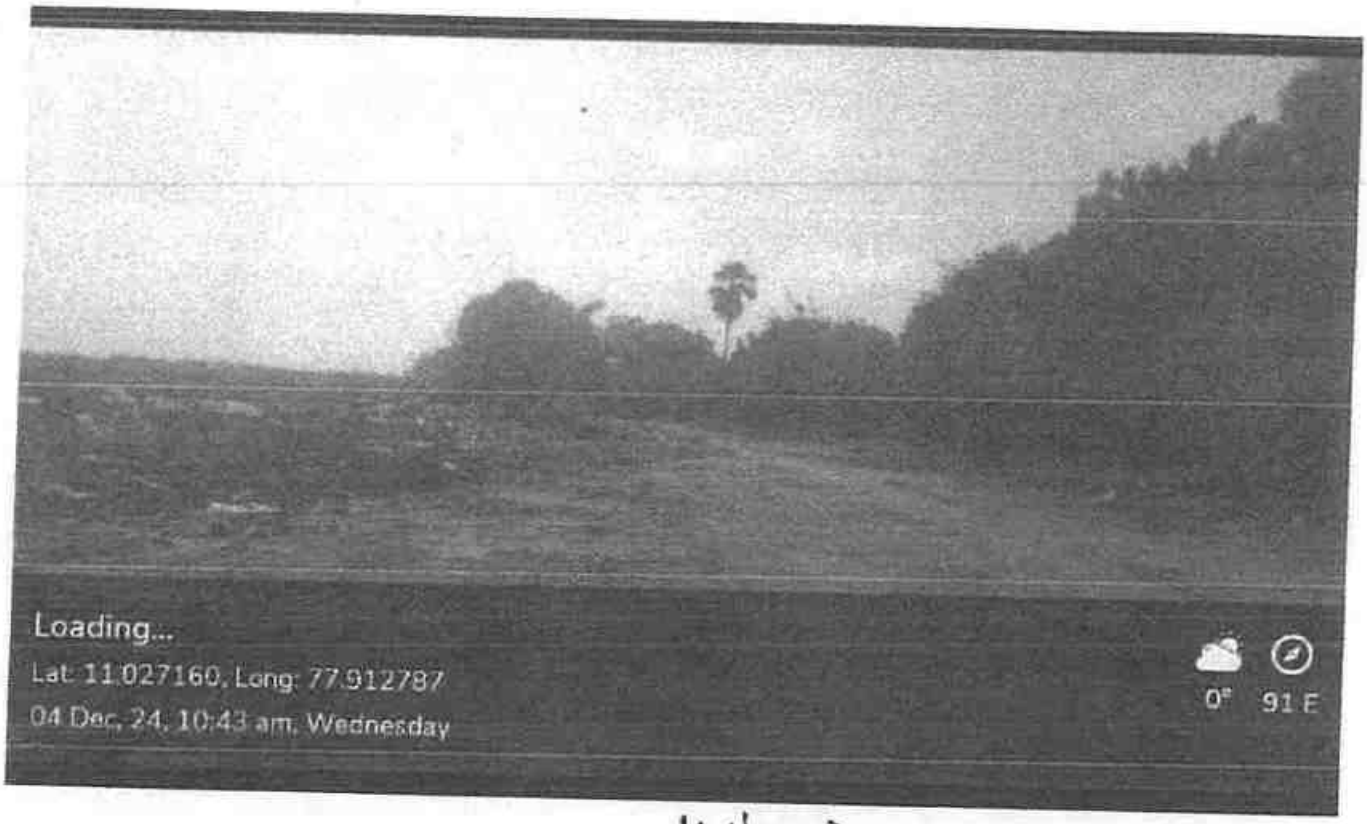
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127	7A	0 - 55.00	1.10	--	--	--	--	2022/0103/14/196600--- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
127	8A	0 - 47.50	0.95	--	--	--	--	2022/0103/14/196600--- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
127	8C	0 - 8.00	0.16	--	--	--	--	2022/0103/14/196600--- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
127	9	0 - 60.00	1.20	--1 பத்தகம் 2024 ம் வருடத்திய 283 ம் ஆவணம் 13 தாள்களைக் கொண்டது 10 அது தான்			--	2022/0103/14/196600--- ------ Digitally signed:approved through AutoMutation - 13/01/2022 05:05:26:PM
		4 - 42.50	8.85					

பதிவு அலுவலர்

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் பின்வேண்டிவிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 14/07/009/07253/70907 என்ற குறியீடு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 04-12-2024 அன்று 11:47:36 AM நேரத்தில் அச்சிடக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலமாகவும் 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

K. Nagaraj



K. Nagai

T.S.P. Kannappan

K. Punkavalli

1 புத்தகம் 2024 ம்

வருடத்திய 2831 ம்

ஆவணம் 13 தாள்களைக்

கொண்டது 11 ஆது தாள்

துதிவு அலுவலர்

K. Nagai

भारत सरकार
GOVERNMENT OF INDIA



நாகராஜ்
Nagaraj
பிறந்த நாள்/DOB : 02-11-1986
ஆண் / Male

9100 2662 4786

ஆதார் - சாதாரண மனிதனின் அதிகாரம்



भारतीय विशिष्ट पहचान प्राधिकरण
UNIQUE IDENTIFICATION AUTHORITY OF INDIA

முகவரி: நாகராஜ் / நாய் பெயர்: குமார், 12/7ஏ, பெரும்கொடி காம்பவுண்ட், புதுகாடு 2 வீதி, கு.மே.மார்கெட், திருப்பூர், தமிழ் நாடு, 641604

Address: S/O: Kumar, 12/7 A, PORKODI COMPOUND, PUTHUKADU 2 STREET, I.e.market, Tiruppur, Tamil Nadu, 641604

1947 | help@uidai.gov.in | www.uidai.gov.in | P.O. Box No. 1947, Bengaluru-560 001

R. Nagaraj

Government of India



திருமலைசாமி பூவம்மாள் கண்ணப்பன்
Thirumalaisamy Poovammal Kannappan
பிறந்த நாள்/DOB: 13/04/1956
ஆண்/ MALE

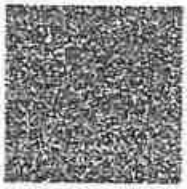
2730 9592 8055
VID : 9171 3457 9036 7515

எனது ஆதார், எனது அடையாளம்

Unique Identification Authority of India

முகவரி:
S/O: திருமலைசாமி, 27, sir சண்முகம் ரோடு, ஆர் எஸ் புரம், கோயம்புத்தூர் தெற்கு, கோயம்புத்தூர், தமிழ் நாடு - 641002

Address:
S/O: Thirumalaisamy, 27, SIR SHANMUGAM ROAD, R S PURAM, Coimbatore South, Coimbatore, Tamil Nadu - 641002



2730 9592 8055
VID : 9171 3457 9036 7515

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T.S.P. Kannappan

Government of India



புஷ்பவள்ளி
Pushpavalli
பிறந்த நாள்/DOB: 19/05/1959
பெண்/ FEMALE

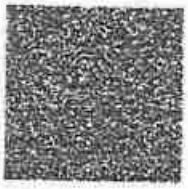
7951 4673 9829
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எனது ஆதார், எனது அடையாளம்

Unique Identification Authority of India

முகவரி:
W/O கண்ணப்பன், எண் 27, sri சண்முகம் ரோடு, ஆர் எஸ் புரம், கோயம்புத்தூர் தெற்கு, கோயம்புத்தூர், தமிழ் நாடு - 641002

Address:
W/O Kannappan, No 27, Sir Shanmugam Road, R S Puram, Coimbatore South, Coimbatore, Tamil Nadu - 641002



7951 4673 9829
VID : 9124 2623 4665 5636

1947 | help@uidai.gov.in | www.uidai.gov.in

K. Pushpavalli

Government of India



கண்ணப்பன் புஷ்பவள்ளி திருமலைராஜ்
Kannappan Pushpavalli Thirumalairaj
பிறந்த நாள்/DOB: 08/04/1980
ஆண்/ MALE

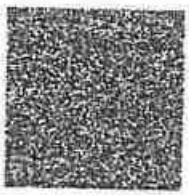
3761 3017 1624
VID : 9154 2447 3299 5139

எனது ஆதார், எனது அடையாளம்

Unique Identification Authority of India

முகவரி:
S/O: கண்ணப்பன், 27, sri சண்முகம் ரோடு, ஆர் எஸ் புரம், கோயம்புத்தூர் தெற்கு, கோயம்புத்தூர், தமிழ் நாடு - 641002

Address:
S/O: Kannappan, 27, SIR SHANMUGAM ROAD, R S PURAM, Coimbatore South, Coimbatore, Tamil Nadu - 641002



3761 3017 1624
VID : 9154 2447 3299 5139

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K. Pushpavalli

புதுதகம்.....2831.....ம்

வருடாந்திய .....ம்

ஆவணம்.....13.....தாள்களைக்

கொண்டது .....12.....ஆது தாள்

பதிவு அலுவலர்



K. Nagaraj

भारत सरकार

आधार

இந்திய தனிப்பட்ட அடையாள ஆணைய அமைப்பு

இந்திய அரசாங்கம்

Unique Identification Authority of India

Government of India

பதிவு அடையாளம் / Enrollment No.: 2043/88655/01266

To

ஆ அருண்குமார்

A Arunkumar

S/O: R Arumugam

8/1-6 SUBRAMANIYA NAGAR

PUDUSAMPALLI VEERAKKALPUDUR

Mettur

Raman Nagar

Mettur Salem

Tamil Nadu 636403

9791888703

02/12/2015

3101000082

MA101000821FT

உங்கள் ஆதார் எண் / Your Aadhaar No. :

8745 7107 4214

ஆதார் - சாதாரண மனிதனின் அதிகாரம்





இந்திய அரசாங்கம்

Government of India



ஆ அருண்குமார்

A Arunkumar

பிறந்த நாள் / DOB : 10/05/1985

ஆண்பால் / Male

8745 7107 4214

ஆதார் - சாதாரண மனிதனின் அதிகாரம்

M. R Rau

A. Arunkumar

1 புத்தகம் 2024 ம்

வருடத்திய 2831 ம்

ஆவணம் 13 தாள்களைக்

கொண்டது 13 அது தாள்

பதிவு அலுவலர்

K. Nagamani

ANNEXURE-7

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2025/5183	Report Date.	15.12.2025

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5183	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	02.12.2025	Test Completed on	15.12.2025
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	68.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2025/5184	Report Date.	15.12.2025

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5184	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	02.12.2025	Test Completed on	15.12.2025
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	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	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

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

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

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Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/2025/5185	Report Date.	15.12.2025

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5185	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	03.12.2025	Test Completed on	15.12.2025
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	61.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	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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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5186	Report Date.	15.12.2025

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5186	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	03.12.2025	Test Completed on	15.12.2025
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	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	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5187	Report Date.	15.12.2025

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5187	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	04.12.2025	Test Completed on	15.12.2025
Temperature	36°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.3	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/2025/5188	Report Date.	15.12.2025

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5188	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	04.12.2025	Test Completed on	15.12.2025
Temperature	36°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5189	Report Date.	15.12.2025

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5189	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	05.12.2025	Test Completed on	15.12.2025
Temperature	36°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	40.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	18.4	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	$\mu g/m^3$	6.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5190	Report Date.	15.12.2025

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5190	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	05.12.2025	Test Completed on	15.12.2025
Temperature	36°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	39.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	18.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5191	Report Date.	15.12.2025

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5191	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	06.12.2025	Test Completed on	15.12.2025
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5192	Report Date.	15.12.2025

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5192	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	06.12.2025	Test Completed on	15.12.2025
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.8	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	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5193	Report Date.	15.12.2025

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5193	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	06.12.2025	Test Completed on	15.12.2025
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	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 (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2025/5194	Report Date.	15.12.2025

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5194	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	07.12.2025	Test Completed on	15.12.2025
Temperature	35°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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

END OF THE REPORT

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5195	Report Date.	15.12.2025

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5195	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	07.12.2025	Test Completed on	15.12.2025
Temperature	35°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5196	Report Date.	15.12.2025

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5196	Sample Received on	08.12.2025
Sample Collected by	LABORATORY	Test Commenced on	08.12.2025
Sample Collected on	07.12.2025	Test Completed on	15.12.2025
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.5	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	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5211	Report Date.	22.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5211	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	09.12.2025	Test Completed on	22.12.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	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	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5212	Report Date.	22.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5212	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	09.12.2025	Test Completed on	22.12.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5213	Report Date.	22.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5213	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	09.12.2025	Test Completed on	22.12.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.3	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	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5214	Report Date.	22.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5214	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	10.12.2025	Test Completed on	22.12.2026
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.4	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	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5215	Report Date.	22.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5215	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	10.12.2025	Test Completed on	22.12.2026
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5216	Report Date.	22.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5216	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	10.12.2025	Test Completed on	22.12.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	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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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5217	Report Date.	22.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5217	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	11.12.2025	Test Completed on	22.12.2026
Temperature	37°C	Relative Humidity	20%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5218	Report Date.	22.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5218	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	11.12.2025	Test Completed on	22.12.2026
Temperature	37°C	Relative Humidity	20%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2025/5219	Report Date.	22.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5219	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	12.12.2025	Test Completed on	22.12.2026
Temperature	37°C	Relative Humidity	19%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	41.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	18.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.4	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/2025/5220	Report Date.	22.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5220	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	12.12.2025	Test Completed on	22.12.2026
Temperature	37°C	Relative Humidity	19%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.6	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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Authorized Signatory
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TEST REPORT

Report No.	SARL/2025/5221	Report Date.	22.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5221	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	13.12.2025	Test Completed on	22.12.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	63.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	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/2025/5222	Report Date.	22.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5222	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	13.12.2025	Test Completed on	22.12.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2025/5223

Report Date.	22.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5223	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	14.12.2025	Test Completed on	22.12.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2025/5224	Report Date.	22.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5224	Sample Received on	15.12.2025
Sample Collected by	LABORATORY	Test Commenced on	15.12.2025
Sample Collected on	14.12.2025	Test Completed on	22.12.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/2025/5239	Report Date.	29.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5239	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	16.12.2025	Test Completed on	29.12.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	69.3	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	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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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/2025/5240	Report Date.	29.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5240	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	16.12.2025	Test Completed on	29.12.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.9	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	$\mu g/m^3$	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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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5241	Report Date.	29.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5241	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	17.12.2025	Test Completed on	29.12.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	67.1	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	$\mu g/m^3$	5.8	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 (D.L – 1.1)	-

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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5242	Report Date.	29.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5242	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	17.12.2025	Test Completed on	29.12.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.2	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	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5243	Report Date.	29.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5243	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	18.12.2025	Test Completed on	29.12.2026
Temperature	36°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.2	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	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.5	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/2025/5244	Report Date.	29.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5244	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	18.12.2025	Test Completed on	29.12.2026
Temperature	36°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	40.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.5	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/2025/5245	Report Date.	29.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5245	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	19.12.2025	Test Completed on	29.12.2026
Temperature	36°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	40.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	18.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5246	Report Date.	29.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5246	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	19.12.2025	Test Completed on	29.12.2026
Temperature	36°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/2025/5247	Report Date.	29.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5247	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	20.12.2025	Test Completed on	29.12.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5248	Report Date.	29.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5248	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	20.12.2025	Test Completed on	29.12.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5249	Report Date.	29.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5249	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	20.12.2025	Test Completed on	29.12.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	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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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5250	Report Date.	29.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5250	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	21.12.2025	Test Completed on	29.12.2026
Temperature	35°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.8	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	$\mu g/m^3$	4.9	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/2025/5251	Report Date.	29.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5251	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	21.12.2025	Test Completed on	29.12.2026
Temperature	35°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.2	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	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5252	Report Date.	29.12.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5252	Sample Received on	22.12.2026
Sample Collected by	LABORATORY	Test Commenced on	22.12.2026
Sample Collected on	21.12.2025	Test Completed on	29.12.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5267	Report Date.	05.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5267	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	23.12.2026	Test Completed on	05.01.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2025/5268	Report Date.	05.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5268	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	23.12.2026	Test Completed on	05.01.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.6	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	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5269	Report Date.	05.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5269	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	23.12.2026	Test Completed on	05.01.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2025/5270	Report Date.	05.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5270	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	24.12.2026	Test Completed on	05.01.2026
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.2	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	$\mu g/m^3$	4.8	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/2025/5271	Report Date.	05.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5271	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	24.12.2026	Test Completed on	05.01.2026
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.1	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	$\mu g/m^3$	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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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5272	Report Date.	05.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5272	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	24.12.2026	Test Completed on	05.01.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.5	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	$\mu g/m^3$	5.2	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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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5273	Report Date.	05.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5273	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	25.12.2026	Test Completed on	05.01.2026
Temperature	37°C	Relative Humidity	20%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5274	Report Date.	05.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5274	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	25.12.2026	Test Completed on	05.01.2026
Temperature	37°C	Relative Humidity	20%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2025/5275	Report Date.	05.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5275	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	26.12.2026	Test Completed on	05.01.2026
Temperature	37°C	Relative Humidity	19%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	41.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2025/5276	Report Date.	05.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5276	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	26.12.2026	Test Completed on	05.01.2026
Temperature	37°C	Relative Humidity	19%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	40.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	18.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.1	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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TEST REPORT

Report No.	SARL/2025/5277	Report Date.	05.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5277	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	27.12.2026	Test Completed on	05.01.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/2025/5278	Report Date.	05.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5278	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	27.12.2026	Test Completed on	05.01.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.9	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	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.6	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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Technical Manager

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TEST REPORT

Report No.	SARL/2025/5279	Report Date.	05.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5279	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	28.12.2026	Test Completed on	05.01.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

.

For Shrient Analytical and Research Labs Pvt. Ltd

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

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2025/5280	Report Date.	05.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-5280	Sample Received on	29.12.2026
Sample Collected by	LABORATORY	Test Commenced on	29.12.2026
Sample Collected on	28.12.2026	Test Completed on	05.01.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0514	Report Date.	12.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0514	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	30.12.2026	Test Completed on	12.01.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.5	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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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0515	Report Date.	12.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0515	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	30.12.2026	Test Completed on	12.01.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.3	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	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0516	Report Date.	12.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0516	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	31.12.2026	Test Completed on	12.01.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.8	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	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/2026/0517	Report Date.	12.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0517	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	31.12.2026	Test Completed on	12.01.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.9	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	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/2026/0518	Report Date.	12.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0518	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	01.01.2026	Test Completed on	12.01.2026
Temperature	36°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.9	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	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0519	Report Date.	12.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0519	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	01.01.2026	Test Completed on	12.01.2026
Temperature	36°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.5	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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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0520	Report Date.	12.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0520	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	02.01.2026	Test Completed on	12.01.2026
Temperature	36°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/0521	Report Date.	12.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0521	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	02.01.2026	Test Completed on	12.01.2026
Temperature	36°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/2026/0522	Report Date.	12.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0522	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	03.01.2026	Test Completed on	12.01.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0523	Report Date.	12.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0523	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	03.01.2026	Test Completed on	12.01.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	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 (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/2026/0524	Report Date.	12.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0524	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	03.01.2026	Test Completed on	12.01.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.9	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	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/2026/0525	Report Date.	12.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0525	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	04.01.2026	Test Completed on	12.01.2026
Temperature	35°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0526	Report Date.	12.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0526	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	04.01.2026	Test Completed on	12.01.2026
Temperature	35°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.6	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	$\mu g/m^3$	4.8	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/2026/0527	Report Date.	12.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0527	Sample Received on	05.01.2026
Sample Collected by	LABORATORY	Test Commenced on	05.01.2026
Sample Collected on	04.01.2026	Test Completed on	12.01.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0542	Report Date.	19.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0542	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	06.01.2026	Test Completed on	19.01.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0543	Report Date.	19.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0543	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	06.01.2026	Test Completed on	19.01.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.5	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	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/0544	Report Date.	19.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0544	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	06.01.2026	Test Completed on	19.01.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/2026/0545	Report Date.	19.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0545	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	07.01.2026	Test Completed on	19.01.2026
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2026/0546	Report Date.	19.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0546	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	07.01.2026	Test Completed on	19.01.2026
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0547	Report Date.	19.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0547	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	07.01.2026	Test Completed on	19.01.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	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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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/2026/0548	Report Date.	19.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0548	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	08.01.2026	Test Completed on	19.01.2026
Temperature	37°C	Relative Humidity	20%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.4	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	$\mu g/m^3$	7.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/0549	Report Date.	19.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0549	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	08.01.2026	Test Completed on	19.01.2026
Temperature	37°C	Relative Humidity	20%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	40.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	18.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0550	Report Date.	19.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0550	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	09.01.2026	Test Completed on	19.01.2026
Temperature	37°C	Relative Humidity	19%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	41.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0551	Report Date.	19.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0551	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	09.01.2026	Test Completed on	19.01.2026
Temperature	37°C	Relative Humidity	19%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0552	Report Date.	19.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0552	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	10.01.2026	Test Completed on	19.01.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	65.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.2	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	$\mu g/m^3$	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0553	Report Date.	19.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0553	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	10.01.2026	Test Completed on	19.01.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	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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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0554	Report Date.	19.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0554	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	11.01.2026	Test Completed on	19.01.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	70.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	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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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/2026/0555	Report Date.	19.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0555	Sample Received on	12.01.2026
Sample Collected by	LABORATORY	Test Commenced on	12.01.2026
Sample Collected on	11.01.2026	Test Completed on	19.01.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.5	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	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0570	Report Date.	26.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0570	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	13.01.2026	Test Completed on	26.01.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	67.8	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	$\mu g/m^3$	6.0	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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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/2026/0571	Report Date.	26.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0571	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	13.01.2026	Test Completed on	26.01.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.2	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	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0572	Report Date.	26.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0572	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	14.01.2026	Test Completed on	26.01.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0573	Report Date.	26.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0573	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	14.01.2026	Test Completed on	26.01.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/2026/0574	Report Date.	26.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0574	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	15.01.2026	Test Completed on	26.01.2026
Temperature	36°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.8	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	$\mu g/m^3$	8.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/0575	Report Date.	26.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0575	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	15.01.2026	Test Completed on	26.01.2026
Temperature	36°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.3	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	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0576	Report Date.	26.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0576	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	16.01.2026	Test Completed on	26.01.2026
Temperature	36°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0577	Report Date.	26.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0577	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	16.01.2026	Test Completed on	26.01.2026
Temperature	36°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	41.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	18.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.4	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/2026/0578	Report Date.	26.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0578	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	17.01.2026	Test Completed on	26.01.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.8	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	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/2026/0579	Report Date.	26.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0579	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	17.01.2026	Test Completed on	26.01.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.6	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	$\mu g/m^3$	12.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0580	Report Date.	26.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0580	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	17.01.2026	Test Completed on	26.01.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.4	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	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/0581	Report Date.	26.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0581	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	18.01.2026	Test Completed on	26.01.2026
Temperature	35°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.4	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	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0582	Report Date.	26.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0582	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	18.01.2026	Test Completed on	26.01.2026
Temperature	35°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0583	Report Date.	26.01.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0583	Sample Received on	19.01.2026
Sample Collected by	LABORATORY	Test Commenced on	19.01.2026
Sample Collected on	18.01.2026	Test Completed on	26.01.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0598	Report Date.	02.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0598	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	20.01.2026	Test Completed on	02.02.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.0	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	$\mu g/m^3$	4.7	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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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/2026/0599	Report Date.	02.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0599	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	20.01.2026	Test Completed on	02.02.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.9	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	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/0600	Report Date.	02.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0600	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	20.01.2026	Test Completed on	02.02.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	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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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0601	Report Date.	02.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0601	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	21.01.2026	Test Completed on	02.02.2026
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0602	Report Date.	02.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0602	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	21.01.2026	Test Completed on	02.02.2026
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.6	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	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0603	Report Date.	02.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0603	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	21.01.2026	Test Completed on	02.02.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.7	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	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/0604	Report Date.	02.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0604	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	22.01.2026	Test Completed on	02.02.2026
Temperature	37°C	Relative Humidity	20%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.2	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	$\mu g/m^3$	8.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2026/0605	Report Date.	02.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0605	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	22.01.2026	Test Completed on	02.02.2026
Temperature	37°C	Relative Humidity	20%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/0606	Report Date.	02.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0606	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	23.01.2026	Test Completed on	02.02.2026
Temperature	37°C	Relative Humidity	19%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.1	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/2026/0607	Report Date.	02.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0607	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	23.01.2026	Test Completed on	02.02.2026
Temperature	37°C	Relative Humidity	19%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/2026/0608	Report Date.	02.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0608	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	24.01.2026	Test Completed on	02.02.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.7	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	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0609	Report Date.	02.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0609	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	24.01.2026	Test Completed on	02.02.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2026/0610	Report Date.	02.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0610	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	25.01.2026	Test Completed on	02.02.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	64.6	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	$\mu g/m^3$	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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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0611	Report Date.	02.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0611	Sample Received on	26.01.2026
Sample Collected by	LABORATORY	Test Commenced on	26.01.2026
Sample Collected on	25.01.2026	Test Completed on	02.02.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	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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TEST REPORT

Report No.	SARL/2026/0626	Report Date.	09.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0626	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	27.01.2026	Test Completed on	09.02.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.1	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	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0627	Report Date.	09.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0627	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	27.01.2026	Test Completed on	09.02.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0628	Report Date.	09.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0628	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	28.01.2026	Test Completed on	09.02.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	62.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	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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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/2026/0629	Report Date.	09.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0629	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	28.01.2026	Test Completed on	09.02.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.0	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	$\mu g/m^3$	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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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0630	Report Date.	09.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0630	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	29.01.2026	Test Completed on	09.02.2026
Temperature	36°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.8	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	$\mu g/m^3$	8.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0631	Report Date.	09.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0631	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	29.01.2026	Test Completed on	09.02.2026
Temperature	36°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.6	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	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/0632	Report Date.	09.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0632	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	30.01.2026	Test Completed on	09.02.2026
Temperature	36°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.2	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	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0633	Report Date.	09.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0633	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	30.01.2026	Test Completed on	09.02.2026
Temperature	36°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.0	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	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0634	Report Date.	09.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0634	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	31.01.2026	Test Completed on	09.02.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	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 (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0635

Report Date	09.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0635	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	31.01.2026	Test Completed on	09.02.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2026/0636	Report Date.	09.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0636	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	31.01.2026	Test Completed on	09.02.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	µg/m^3	49.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	µg/m^3	23.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	µg/m^3	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	µg/m^3	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0637	Report Date.	09.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0637	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	01.02.2026	Test Completed on	09.02.2026
Temperature	35°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.5	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	$\mu g/m^3$	5.2	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/2026/0638	Report Date.	09.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0638	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	01.02.2026	Test Completed on	09.02.2026
Temperature	35°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.2	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	$\mu g/m^3$	5.5	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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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0639	Report Date.	09.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0639	Sample Received on	02.02.2026
Sample Collected by	LABORATORY	Test Commenced on	02.02.2026
Sample Collected on	01.02.2026	Test Completed on	09.02.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.3	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	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0654	Report Date.	16.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0654	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	02.02.2026	Test Completed on	16.02.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0655	Report Date.	16.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0655	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	02.02.2026	Test Completed on	16.02.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.9	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	$\mu g/m^3$	9.5	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/2026/0656	Report Date.	16.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0656	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	02.02.2026	Test Completed on	16.02.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	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/2026/0657	Report Date.	16.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0657	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	03.02.2026	Test Completed on	16.02.2026
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.2	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	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0658	Report Date.	16.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0658	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	03.02.2026	Test Completed on	16.02.2026
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	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/2026/0659	Report Date.	16.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0659	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	03.02.2026	Test Completed on	16.02.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.3	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	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/0660	Report Date.	16.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0660	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	04.02.2026	Test Completed on	16.02.2026
Temperature	37°C	Relative Humidity	20%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.7	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	$\mu g/m^3$	8.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/0661	Report Date.	16.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0661	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	04.02.2026	Test Completed on	16.02.2026
Temperature	37°C	Relative Humidity	20%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.5	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	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/2026/0662	Report Date.	16.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0662	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	05.02.2026	Test Completed on	16.02.2026
Temperature	37°C	Relative Humidity	19%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0663	Report Date.	16.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0663	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	05.02.2026	Test Completed on	16.02.2026
Temperature	37°C	Relative Humidity	19%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0664	Report Date.	16.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0664	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	06.02.2026	Test Completed on	16.02.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	69.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	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/2026/0665	Report Date.	16.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0665	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	06.02.2026	Test Completed on	16.02.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.3	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	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0666	Report Date.	16.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0666	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	07.02.2026	Test Completed on	16.02.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	66.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	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 (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/2026/0667	Report Date.	16.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0667	Sample Received on	09.02.2026
Sample Collected by	LABORATORY	Test Commenced on	09.02.2026
Sample Collected on	07.02.2026	Test Completed on	16.02.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0682	Report Date.	23.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0682	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	10.02.2026	Test Completed on	23.02.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	63.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(DL-1.1)	-

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

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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/2026/0683	Report Date.	23.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0683	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	10.02.2026	Test Completed on	23.02.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.1	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	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0684	Report Date.	23.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0684	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	11.02.2026	Test Completed on	23.02.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.3	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	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0685	Report Date.	23.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0685	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	11.02.2026	Test Completed on	23.02.2026
Temperature	35°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	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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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0686	Report Date.	23.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0686	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	12.02.2026	Test Completed on	23.02.2026
Temperature	36°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.8	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	$\mu g/m^3$	7.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0687	Report Date.	23.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0687	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	12.02.2026	Test Completed on	23.02.2026
Temperature	36°C	Relative Humidity	22%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/2026/0688	Report Date.	23.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0688	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	13.02.2026	Test Completed on	23.02.2026
Temperature	36°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0689	Report Date.	23.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0689	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	13.02.2026	Test Completed on	23.02.2026
Temperature	36°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0690	Report Date.	23.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0690	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	14.02.2026	Test Completed on	23.02.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	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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For Shrient Analytical and Research Labs Pvt. Ltd

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0691	Report Date.	23.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0691	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	14.02.2026	Test Completed on	23.02.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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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J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2026/0692	Report Date.	23.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0692	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	14.02.2026	Test Completed on	23.02.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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

Report No.	SARL/2026/0693	Report Date.	23.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0693	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	15.02.2026	Test Completed on	23.02.2026
Temperature	35°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2026/0694	Report Date.	23.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0694	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	15.02.2026	Test Completed on	23.02.2026
Temperature	35°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/0695	Report Date.	23.02.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0695	Sample Received on	16.02.2026
Sample Collected by	LABORATORY	Test Commenced on	16.02.2026
Sample Collected on	15.02.2026	Test Completed on	23.02.2026
Temperature	36°C	Relative Humidity	24%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.8	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	$\mu g/m^3$	6.4	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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Technical Manager

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TEST REPORT

Report No.	SARL/2026/0710	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0710	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	17.02.2026	Test Completed on	09.03.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0711	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0711	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	17.02.2026	Test Completed on	09.03.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	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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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/2026/0712	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0712	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	17.02.2026	Test Completed on	09.03.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.5	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	$\mu g/m^3$	4.7	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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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/2026/0713	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0713	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	18.02.2026	Test Completed on	09.03.2026
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	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	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/0714	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0714	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	18.02.2026	Test Completed on	02.03.2026
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	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/2026/0715	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0715	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	18.02.2026	Test Completed on	02.03.2026
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	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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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/2026/0716	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0716	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	19.02.2026	Test Completed on	02.03.2026
Temperature	37°C	Relative Humidity	20%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.3	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	$\mu g/m^3$	9.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0717	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0717	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	19.02.2026	Test Completed on	02.03.2026
Temperature	37°C	Relative Humidity	20%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0718	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0718	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	20.02.2026	Test Completed on	02.03.2026
Temperature	37°C	Relative Humidity	19%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0719	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0719	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	20.02.2026	Test Completed on	02.03.2026
Temperature	37°C	Relative Humidity	19%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.9	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	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/2026/0720	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0720	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	21.02.2026	Test Completed on	02.03.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.1	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/2026/0721	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0721	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	21.02.2026	Test Completed on	02.03.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.1	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	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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J. GNANAPRAKASAM
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TEST REPORT

Report No.	SARL/2026/0722	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1- Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0722	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.2	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	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/2026/0723	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-0723	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

.

For Shrient Analytical and Research Labs Pvt. Ltd

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

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0724

Report Date.	09.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	W1- Within Mine Lease area

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-0724	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	09.03.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.76	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1293.6	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	778	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	519	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	112	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	57.2	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	280	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	238	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	296	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	221	1000

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TEST REPORT

Report No.	SARL/2026/0724

Report Date.	09.03.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	126	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	2.57	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.58	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0725

Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	W2-Periyakarukkai

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-0725	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.82	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	2070.6	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1242	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	365	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	84.8	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	36.8	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	212	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	153	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	483	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	523	1000

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TEST REPORT

Report No.	SARL/2026/0725

Report Date.	02.03.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	332	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL(DL-0.01)	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	4.88	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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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0726

Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	W3-Sanamangalam

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-0726	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.78	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1255.8	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	760	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	347	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	69.3	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	41.6	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	173	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	173	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	307	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	116	1000

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TEST REPORT

Report No.	SARL/2026/0726	Report Date.	02.03.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	305	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL(DL-0.01)	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	4.08	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.46	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/2026/0727

Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	W4-Agaram

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-0727	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	8.28	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1076.3	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	650	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	152	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	29.3	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	19.0	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	73.2	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	79	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	199	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	248	1000

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TEST REPORT

Report No.	SARL/2026/0727	Report Date.	02.03.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	193	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.08	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.88	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.5	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/2026/0728

Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	W5-Nedungur

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-0728	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.69	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1217	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	732	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	338	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	68.0	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	40.3	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	170	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	168	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	305	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	107	1000

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TEST REPORT

Report No.	SARL/2026/0728	Report Date.	02.03.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	294	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL(DL-0.01)	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	3.74	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.38	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0729

Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	W6-Ootathur

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-0729	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	8.34	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	769.1	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	462	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	229	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	51.2	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	24.2	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	128	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	101	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	215	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	137	1000

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TEST REPORT

Report No.	SARL/2026/0729	Report Date.	02.03.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	52.7	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.08	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	1.56	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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Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

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TEST REPORT

Report No.	SARL/2026/0730

Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	W7-Padalur West

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-0730	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.57	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	873.2	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	530	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	294	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	73.9	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	26.2	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	185	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	109	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	242	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	155	1000

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TEST REPORT

Report No.	SARL/2026/0730	Report Date.	02.03.2026

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	57.1	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	2.22	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.6	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/2026/0731	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
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-0731	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result
A.	**Physical parameters**			
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0
3	pH at 25 °C	APHA 24th Edition 4500 – H+ B: 2023	-	2.4
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	7.62
B.	**Chemical parameters**			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1420
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	310
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	73
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	30.7
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	182
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	128
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	245
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	256

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TEST REPORT

Report No.	SARL/2026/0731	Report Date.	02.03.2026

Sl. No.	Parameters	Protocol	Unit	Result
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	112
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.08
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	3.65
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.59
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL(D.L-0.05)
19	Chemical Oxygen Demand	APHA 24th Edition 5220 B: 2023	mg/L	BDL (D.L – 4.0)
20	Bio Chemical Oxygen Demand 3 Days at 27°c	IS 3025 (Part 44): 1993	mg/L	BDL (D.L – 2.0)
21	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	12
22	Dissolved Oxygen	IS 3025 (Part 38): 1989	mg/L	6.2

Remarks: BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/2026/0732	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
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-0732	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result
A.	**Physical parameters**			
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0
3	pH at 25 °C	APHA 24th Edition 4500 – H+ B: 2023	-	4.8
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	7.85
B.	**Chemical parameters**			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1850
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	440
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	90.0
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	51.6
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	225
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	215
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	412
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	326

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TEST REPORT

Report No.	SARL/2026/0732	Report Date.	02.03.2026

Sl. No.	Parameters	Protocol	Unit	Result
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	198
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.15
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	4.98
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.63
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL(D.L-0.05)
19	Chemical Oxygen Demand	APHA 24th Edition 5220 B: 2023	mg/L	BDL (D.L – 4.0)
20	Bio Chemical Oxygen Demand 3 Days at 27°c	IS 3025 (Part 44): 1993	mg/L	BDL (D.L – 2.0)
21	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	8
22	Dissolved Oxygen	IS 3025 (Part 38): 1989	mg/L	5.8

Remarks: BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/2026/0733

Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	SOIL
Sample Mark	S1- Within Mine Lease area

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-0733	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	8.61
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	100.47
3	Dry matter content	IS 15106: 2002	%	95.17
4	Water Content	IS 15106: 2002	%	4.83
5	Organic Matter	IS 2720: Part 22: 1972	%	0.48
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	362.5
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	%	28.17
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	62.03
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	9.80
9	Phosphorus as P	IS 10158: 1982	mg/kg	0.92
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	811
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	544
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	%	20.8
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	43.5

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/2026/0734	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	SOIL
Sample Mark	S2-Iyampalayam

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-0734	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.66
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	51.89
3	Dry matter content	IS 15106: 2002	%	96.21
4	Water Content	IS 15106: 2002	%	3.79
5	Organic Matter	IS 2720: Part 22: 1972	%	1.28
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	276.7
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	silty clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	9.48
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	50.4
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	40.12
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.89
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	437
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	689
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	%	19.3
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	40.3

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/2026/0735

Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	SOIL
Sample Mark	S3-Valayapalayam

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-0735	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.19
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	172.14
3	Dry matter content	IS 15106: 2002	%	97.21
4	Water Content	IS 15106: 2002	%	2.79
5	Organic Matter	IS 2720: Part 22: 1972	%	1.11
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	301
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	silty clay loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	14.15
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	50.43
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	35.42
9	Phosphorus as P	IS 10158: 1982	mg/kg	2.25
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	1094
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	907
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	%	20.5
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	44.5

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/2026/0736	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	SOIL
Sample Mark	S4-Athipalayam

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-0736	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.75
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	81.12
3	Dry matter content	IS 15106: 2002	%	94.32
4	Water Content	IS 15106: 2002	%	5.68
5	Organic Matter	IS 2720: Part 22: 1972	%	0.83
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	662.5
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	%	25.83
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	72.33
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	1.84
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.42
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	610
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	789
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	42.4

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

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TEST REPORT

Report No.	SARL/2026/0737

Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	SOIL
Sample Mark	S5- Andisangilipalayam

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-0737	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.12
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	197.69
3	Dry matter content	IS 15106: 2002	%	92.54
4	Water Content	IS 15106: 2002	%	7.46
5	Organic Matter	IS 2720: Part 22: 1972	%	1.11
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	320.1
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	silty clay loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	14.16
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	51.15
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	34.69
9	Phosphorus as P	IS 10158: 1982	mg/kg	2.93
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	1124
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	937
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	%	20.8
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	44.5

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
For any Technical Issues & Complaints: vimalnath@shrientanalytical.com

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TEST REPORT

Report No.	SARL/2026/0738	Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	SOIL
Sample Mark	S6-Salapudur

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-0738	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.83
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	69.94
3	Dry matter content	IS 15106: 2002	%	91.76
4	Water Content	IS 15106: 2002	%	8.24
5	Organic Matter	IS 2720: Part 22: 1972	%	1.0
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	233.2
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	%	30.79
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	56.53
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	12.68
9	Phosphorus as P	IS 10158: 1982	mg/kg	3.15
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	367
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	760
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	%	21.0
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	43.5

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

Please Contact:
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TEST REPORT

Report No.	SARL/2026/0739

Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	SOIL
Sample Mark	S7-Munnur

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-0739	Sample Received on	23.02.2026
Sample Collected by	LABORATORY	Test Commenced on	23.02.2026
Sample Collected on	22.02.2026	Test Completed on	02.03.2026
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.27
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	95.65
3	Dry matter content	IS 15106: 2002	%	97.62
4	Water Content	IS 15106: 2002	%	2.38
5	Organic Matter	IS 2720: Part 22: 1972	%	1.4
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	467.5
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	35.76
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	52.53
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	11.71
9	Phosphorus as P	IS 10158: 1982	mg/kg	2.55
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	418
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	663
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	%	21.4
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	44.5

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
J. GNANAPRAKASAM
Technical Manager

END OF THE REPORT

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TEST REPORT

Report No.	SARL/2026/0740

Report Date.	02.03.2026

Customer Name & Address	Proposed Rough Stone And Gravel Quarry Of Thiru.K. Nagaraj At S.F. Nos. 127/2(P), 127/4a(P), 127/7a(P) And 127/8a(P) Over An Extent Of 1.19.25 Ha In Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State.
Sample Description	NOISE LEVEL DATA

Customer Reference	By Mail	Sampling Method	SARL/IOP/023
Sample Reference No	SARL/N/CHE-0740	Date of Monitoring	22.02.2026
Sample Collected by	LABORATORY		

Time in hrs	N1	N2	N3	N4	N5	N6	N7
06.00	44.1	44.3	43.1	42.6	40.5	40.8	42.6
07.00	41.8	46.5	51.1	45.3	48.0	43.2	50.6
08.00	45.1	48.8	50.0	48.3	52.1	49.5	49.5
09.00	45.9	50.4	51.7	50.3	53.6	53.2	51.2
10.00	53.5	51.8	44.1	51.4	51.0	55.1	43.6
11.00	52.6	48.2	47.5	50.6	54.1	52.5	47.0
12.00	49.4	50.2	48.7	51.6	48.4	51.6	48.2
13.00	50.2	48.8	47.0	52.3	49.3	51.1	46.5
14.00	55.8	49.1	50.0	50.5	52.4	54.6	49.5
15.00	55.6	47.6	46.3	47.9	51.6	55.0	45.8
16.00	54.5	48.1	47.6	50.1	50.5	53.4	47.1
17.00	54.2	45.7	49.1	46.3	45.6	52.3	48.6
18.00	52.1	44.4	48.0	46.7	43.5	49.8	47.5
19.00	48.7	42.2	45.6	48.1	42.8	48.3	45.1
20.00	47.9	41.1	43.1	43.8	41.6	46.1	42.6
21.00	46.2	42.7	41.1	44.9	43.5	45.1	40.6
22.00	47.7	41.9	39.2	43.0	39.7	41.6	38.7
23.00	45.7	42.3	39.7	42.1	38.3	41.0	39.2
24.00	43.5	38.9	40.4	40.6	40.5	40.1	39.9
01.00	45.1	39.4	39.3	41.0	38.9	39.3	38.8
02.00	44.0	38.1	40.7	40.4	39.7	41.1	40.2
03.00	43.1	38.7	39.8	41.1	41.0	41.5	39.3
04.00	42.3	39.4	40.0	41.9	38.9	42.2	39.5
05.00	41.8	41.2	40.8	40.9	42.6	41.7	40.3

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TEST REPORT

Report No.	SARL/2026/0740

Report Date.	02.03.2026

	N1	N2	N3	N4	N5	N6	N7
DAY EQUIVALENT	**51.2**	**47.4**	**47.6**	**48.7**	**49.9**	**51.2**	**47.1**
NIGHT EQUIVALENT	**44.2**	**39.8**	**39.6**	**41.1**	**40.2**	**40.8**	**39.1**
DAY & NIGHT EQUIVALENT	**49.9**	**46.0**	**46.2**	**47.3**	**48.3**	**49.7**	**45.7**

Remarks:

LOCATIONS:

N1-Within Mine Lease area
N2- Iyampalayam
N3- Valayapalayam
N4- Athipalayam
N5- Andisangilipalayam
N6- Salapudur
N7- Munnur

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

அனுப்புநர்:

திரு. எஸ்.
தலைமை ஆசிரியர்
உ. ஒ. தொ. பள்ளி.
வளையபாளையம்
கபிலமலை ஒன்றியம்
நாமக்கல் மாவட்டம். 639111.

பெறுநர்:

நாகராஜ்.
S.F 239. V.N. புதூர்.
அரசுப்பாளையம் அஞ்சல்
நெல்லியல்
நாமக்கல் 639111.

பொருள்: வளையபாளையம், உ. ஒ. தொ. பள்ளிக்கு தீவைக்க இடைவெட்ட நடவடிக்கை, மரங்கள் தேவைப்படுவதால் அனுமதி வழங்க வேண்டி விண்ணப்பம்.

எங்கள் பள்ளியில் சுமார் 15 மாணவர்களுக்கு அனுமதி வாடியாள் 15 மாணவர்களுக்கு படிக்கும் வகையில் உள்ளனர். அவர்களுக்கு பாதுகாப்பாக இயற்கை தீவை இடைவெட்ட அனுமதி வழங்கி தர்மை வேண்டும் கோரிக்கை.

இடம் வளையபாளையம்
நாள்: 22.12.25

தீர்க்கமானவர்,
22.12.25
தலைமை ஆசிரியர்,
ஊராட்சி ஒன்றிய தொடக்கப்பள்ளி,
வளையபாளையம் - 639111.
க. பரமத்தி ஒன்றியம்.

Scanned with OKEN Scanner