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

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

ToR Identification No. TO25B0108TN5458424N (F.No. 12579), Dated: 25/09/2025

PROPOSED QUARRY LEASE DETAILS	
SURVEY NOS	36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E OF MARUTHAMPUTHUR PART-1 AND S.F.NOS. 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C and 148/1 OF MARUTHAMPUTHUR PART-2
VILLAGE	MARUTHAMPUTHUR PART-1 & MARUTHAMPUTHUR PART-2
TALUK	ALANGULAM
DISTRICT	TENKASI
EXTENT	5.99.05Ha
CLUSTER EXTENT	12.05.05 Ha
MINEABLE RESERVES (upto 65m BGL)	ROUGH STONE : 13,48,090m^3 GRAVEL : 2,46,535m^3
PROPOSED PRODUCTION QUANTITY FOR 5 YEARS (upto 65m BGL)	ROUGH STONE : 13,48,090m^3 GRAVEL : 2,46,535m^3
LAND	PATTA LAND

(Sector No. 1(a) Sector No.1 as per NABET)
Category of the Project: B1 Cluster Mining, Total Cluster Area – 12.05.05 Ha
Baseline Monitoring Period – March 2025 to May 2025

APPLICANT

Thiru.K.Prasadraju,

S/o. Kalyanasundaram,

No.4/48, Indra Nagar, Nallur, Alangulam Taluk,

Tenkasi District – 627 853.

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/23-26/SA 0241** ***Valid up to: 04.01.2026*** **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.**

December - 2025

AMENDMENT PAGE

S.NO	Page No.	Section / Clause / Para / Line (as Applicable)	Date of Amendment	Amendment Made	Reasons of amendment	Signature of Person Authorizing Amendment
1						
2						
3						
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8						
9						
10						

ACKNOWLEDGEMENT

M/s. Global Mining Solutions, Salem is very much thankful Thiru.K.Prasadraju, 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 5.99.05 Ha., & Cluster extent of 12.05.05 Ha., located at Maruthamputhur Part-1 and Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi 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 Maruthamputhur Part-1 and Maruthamputhur Part-2 Village and the nearby villages for their whole hearted cooperation and constant involvement during the entire field study without which the study would not have been possible.

For: M/s. Global Mining Solutions

(M. Prabu)

Managing Director

UNDERTAKING

In line with MoEF OM No. J – 11013/41/2006-IA.II (I) dated 5th October 2011, we hereby give our undertaking for owning the content and information in the EIA/EMP report submitted for EC of the proposed Rough Stone and Gravel quarry over a lease extent of 5.99.05 Ha., & Cluster extent of 12.05.05 Ha located at Maruthamputhur Part-1 and Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State.

For: M/s. Global Mining Solutions

M. MANIKANDAN
EIA CO-ORDINATOR
GLOBAL MINING SOLUTIONS
SALEM

UNDERTAKING

In Line with OM no. J-11013/41/2006-IA.II (1) dated 4th Aug 2009 and its Amendments, we hereby confirm that all Terms of Reference issued by Ministry of Environment, Forest and Climate Change vide ToR Identification No.TO25B0108TN5458424N (F.No. 12579), Dated: 25/09/2025 of Draft EIA/EMP report for the proposed Rough Stone and Gravel Quarry over a lease extent of 5.99.05 Ha., & Cluster extent of 12.05.05 Ha., located at Maruthamputhur Part-1 and Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State for the production for 5 Years is 13,48,090m^3 of Rough Stone, 2,46,535m^3 of Gravel upto a depth of 65m (Below Ground Level) 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/23-26/SA 0241, valid till 04.01.2026.

For: M/s. Global Mining Solutions

M. MANIKANDAN
EIA CO-ORDINATOR
GLOBAL MINING SOLUTIONS
SALEM

भारतीय गुणवत्ता परिषद्
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National Accreditation Board for Education and Training

Certificate of Accreditation

Global Mining Solutions

Plot No - 6 SF No 13/2 A2, VS City, RC Chettypatty, Kottamettupatty,Omalur,
Salem, Tamil Nadu-636455

*The organization is accredited as **Category-A** under the QCI-NABET **Scheme for Accreditation of EIA Consultant Organization, Version 3**: for preparing EIA/EMP reports in the following Sectors-*

S. No	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1	Mining of minerals including opencast/ underground mining	1	1 (a) (i)	A
3	Thermal power plants	4	1 (d)	B
5	Metallurgical industries (ferrous)	8	3 (a)	A
6	Cement Plants	9	3 (b)	A
26	Building and construction projects	38	8 (a)	B
27	Townships and Area development projects	39	8 (b)	B

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in SAAC minutes dated May 20, 2025, posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/25/3638 dated May 30, 2025. The accreditation needs to be renewed before the expiry date Eco Chem Sales and Services, Surat following due process of assessment.

Valid up to
January 4, 2026

Issue Date
May 30, 2025

Certificate No.
NABET/EIA/23-26/SA 0241

Varinder Kanwar

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 5.99.05 Ha. & Cluster extent of 12.05.05 Ha located at Maruthamputhur Part-1 and Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State.

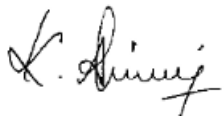
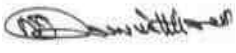
I, hereby, certify that I was a part of the EIA team that developed the above EIA.

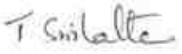
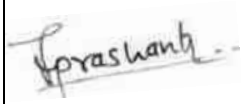
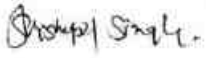
EIA Coordinator Name: Manikandan Manickam

Period of involvement: March 2025 to May 2025.

Contact information:

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

S.NO.	*Functional areas*	*Name of the expert/s*	*Involvement (period and task**)*	*Signature and Date*
1	*AP*	*Dhanalakshmi Ramanathan*	*Assessment of existing air quality, Impact of the project on ambient air and suggested mitigation measures for air pollution.* *Period: March 2025 to May 2025.*	
2	*WP*	*Abirami Kaliaperumal*	*Assessment of existing water quality, impact of the project on surface and ground water quality, suggested mitigation measures for minimizing the impact.* *Period: March 2025 to May 2025.*	
3	*SHW*	*Ramadoss N*	*Assessment of waste generated from the project, suggested waste management practices.* *Period: March 2025 to May 2025.*	
4	*SE*	*Sarasvathy K*	*Baseline SE studies. Data compilation and assessment. Impact of the project on SE status of the area. Formulation of CER plan.* *Period: March 2025 to May 2025.*	
5	*EB*	*Saravanan S*	*Baseline data collection of related to ecology of the area.* *Period: March 2025 to May 2025.*	
6	*HG*	*Ravinthiran N*	*Hydrogeological feature of the area. Ground water depth and impact of project on ground water of the area.* *Period: March 2025 to May 2025.*	

7	*AQ*	*Srilatha Thiruveedhula*	*Air quality modeling utilizing the area source model. Predication of the ground level concentration of the dust. Suggesting suitable mitigation measures.* <u>*Period: March 2025 to May 2025*</u>*.*	
8	*NV*	*Dhanalakshmi Ramanathan*	*Ambient noise study of the area. Incremental noise generation due to quarry operation and impact of the noise due to the project.* <u>*Period: March 2025 to May 2025*</u>*.*	
9	*LU*	*Srilatha Thiruveedhula*	*Preparation of land use map based on satellite imagery. Land use classification and analysis. Impact prediction of the project on the surrounding land environment.* <u>*Period: March 2025 to May 2025*</u>*.*	
10	*RH*	*S.V. Prashant*	*Identification of the Risk related to the mining activities. Preparation of emergency disaster management plan. Plan for supply of safety equipment for the worker.* <u>*Period: March 2025 to May 2025*</u>*.*	
11	*SC*	*Shisupal Sing*	*Soil monitoring, secondary data collection on soil type, soil management practices, utilization of topsoil.* <u>*Period: March 2025 to May 2025*</u>*.*	
12	*GEO*	*Valliappan Meyyappan*	*Geological map, stability of quarry and dump, management plan for mine stability, after use of mining quarry and geological feature of the area.* <u>*Period: March 2025 to May 2025*</u>*.*	

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COMPLIANCE TO TERMS OF REFERENCE

Specific Terms of Reference for (Mining Of Minerals)			
S.No	**ToR Points**	**Reply**	**Pg. No**
1.	**Seac Conditions - Site Specific**		
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 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.	-
2	The Boundary pillars to be erected as per the mine rules and the evidence should be submitted along with the EIA report.	Agreed. Proof photographs for erected pillars will be submitted in the Final EIA / EMP Report.	**-**
3	The details of enumeration of structures including schools, colleges, primary health centers 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.	-
4	The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & upto 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc. and spell out the mitigation measures to be proposed for the protection of the above structures, if any during the quarrying operations.	A site survey will be conducted to identify and list structures within a 300-meter radius of the proposed quarry, and the results will be included in the final EIA report.	**-**

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.	The green belt, fencing, garland drain work are in process and the proof photographs of the same will be submitted in the Final EIA/EMP Report. There are no permanent structures within a 50-meter radius of the proposed project site, and a safety distance of 7.5 meters & 10 meters along the boundary has been provided. There is seasonal odai passing southwest and northeast side of the area and is 280m and 355m away from the area.	-
6	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 has been carried out by our FAE is given in section 3.3.6 of Chapter 3.	93
7	The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.	The EMP is planned for the entire life of the mine. The affidavit for the same will be included in the Final EIA/EMP Report.	-
8	The PP shall carry out the comprehensive studies on the cumulative environmental impacts of the existing & proposed quarries which included drilling & blasting, loading & hauling on the surrounding village and structures	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.	-
9	The PP shall prepare a conceptual action 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.	-
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.	Agreed, The PP will install CCTV at the proposed mine lease area and submit proof in the Final EIA/EMP report.	-
2	**SEAC Standard Conditions**		
1	In the case of existing/operation mines, a letter obtained from the concerned AD (Mines) shall be	The applied lease is fresh project. No mining has been carried out in this lease area so far.	-

	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 lining lease area (viii) Condition of Safety zone/benches (ix) Revised/Modified Mining Plan showing the benches of not exceeding 6m 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	The VAO certificate is enclosed as Annexure – 5.	Enclosed as Annexure 5
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 within a 300-meter radius of the proposed quarry, and the results will be included in the final 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 are located within 1 km of the proposed quarry	The study is under progress. It will be incorporated in the final EIA & EMP.	-

5	The Project Proponent shall carry out Bio-diversity study through reputed institution and the same shall be included in the EIA report.	The bio diversity study has been carried out by our FAE is given in section 3.3.6 of Chapter 3.	125
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	The DFO letter stating that the proximity distance of RF & PF to be incorporated at the time of final EIA submission.	-
7	In 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, Suratkal 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 will be carried once the depth reaches 25 m BGL.	-
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 will be incorporated in the Final EIA Report	-
10	The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the	Controlled blasting techniques using delay detonators and optimum charge per delay will be implemented in this quarry. 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.	details on blasting parameters are given in section 2.8.2 of Chapter 2.	
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.	The PP has not carried out any quarrying operation before this project.	-
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	The applied lease is fresh project.	-
13	What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?	The applied lease is fresh project.	-
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	The applied lease is fresh project.	-
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 given as Figure No – 2.2 in Chapter – 3. The geology and geomorphology map are provided in Figure No.3.23, 3.24 Chapter 3. The Soil map is provided under Figure No. 3.25, Chapter-3. The 10km Radius Index plan showing buffer zone is given in Figure No.3.1 & Figure 3.5 in Chapter – 3.	-

16	The PP shall carry out Drone video survey covering the cluster, green belt, fencing etc.,	The applied lease is fresh project. It will be complied after commencement of the mining operation	-
17	The proponent shall furnish photographs of adequate fencing, greenbelt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.	There are no trees within ML area. Fencing and plantations are under process and photo proof of the same will be incorporated in the Final EIA report. There are no permanent structures within a 50-meter radius of the proposed project site, and a safety distance of 7.5 meters & 10 meters along the boundary has been provided. There is seasonal odai passing southwest and northeast side of the area and is 280m and 355m away from the area.	-
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.	The total geological reserves of Rough stone - 35,91,480$m^3$and Gravel - 2,99,290 m^3 The mineable reserves of rough stone - 13,48,090$m^3$and Gravel - 2,46,535 m^3 The need and justification of the project is given in chapter 2. The anticipated impact and its mitigation measures are detailed in chapter 4.	
19	The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of 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 Fig. 10.1	212
20	The Project Proponent shall conduct the Hydro-geological study considering the contour map of the	The hydrogeological study from a reputed institute is in progress	-

	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) 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 monitoring data, it may clearly be shown whether working all intersect ground water. Necessary data and documentation in this regard may be provided.	and it will be incorporated in the final EIA report.	
21	The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality& flora/fauna including traffic/vehicular movement study.	The baseline data were collected (March 2025 to May 2025) for the environmental components including land, soil, water, air, noise, biology, socio-economy, and the results have been discussed in Chapter 3. Traffic density survey is detailed in section 2.10.6 of Chapter 2.	
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 air pollution, water pollution, & 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 4 & 7. Accordingly, a detailed Environment Management Plan is prepared considering air, water, noise and soil environment and the details are given in Chapter 10.	
23	Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.	Rain water harvesting Plan 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.	Satellite imagery has been used to study the lease area and the details of land use is given in Chapter 3.	-

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.	Not applicable. There is no generation of the OB & waste.	-
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 famished to the effect that the proposed mining activities could be considered.	No proximity to Critically polluted areas.	-
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.	The 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 4.2.3 of Chapter 4.	-
28	Impact on local transport infrastructure due to the Project should be indicated.	A traffic density study was carried out and are detailed in section 2.10.6 of Chapter 2.	-
29	A tree survey shall be carried out (Nos. name of 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.	The mine closure plan details are given in section 2.9 of Chapter 2 and section 7.6 of Chapter 7.	202

31	As 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, where ever 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 and local school/college authorities. 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.	Green belt is proposed in an area of 0.92.85 Ha. A detailed green belt development plan has been provided in Table 4.2.3 of Chapter 4.	-
33	Taller/one year old saplings raised in appropriate size of bags; preferably eco-friendly 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 green belt area with GPS coordinates all along the boundary of the project site with at least 3m wide and in between blocks in an organized manner.	The FAE of ecology and biodiversity has advised the project proponent that saplings of one year old raised in the ecofriendly bags should be purchased and planted with the spacing of 3m between each plant around the proposed project area as per the advice of local forest authorities/botanist.	-
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 the details are given in Chapter 7.	197
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.	Risk assessment and its management is given in Chapter 7.	-
36	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement	Occupational Health Impacts of the project and preventive measures are detailed under Chapter 4.	-

	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.	No major impact on public health will be there since the villages are located more than 1km from the lease area. Details of CER and CSR are discussed under Chapter No. 8	-
38	The Socio-economic studies should be carried out within a 5km 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.	Socio economic study is conducted both by visits and secondary data collection. Details are given in Chapter 3	-
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.	No litigation is pending	-
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.	Benefits of the project is given in Chapter 8	204
41	If any quarrying operations were carried out in the proposed quarrying site for which now 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. The applied lease area is fresh quarry.	-
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.	The EMP is planned for the entire life of the mine. The affidavit for the same will be included 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 condition mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986	Agreed	-
3	**SEIAA Specific Conditions**		
1	The authority noted that the subject was placed in the 611th meeting of SEAC-II held on 29.08.2025. After detailed discussions, the Authority accepts the recommendation of SEAC-II and decided to **grant Terms of Reference (ToR) along with Public Hearing for the quantity of 13,48,090m^3 of Rough Stone and 2,46,535m^3 of Gravel up to the depth of 65m BGL. The annual peak production is 2,79,225m^3 of Rough Stone and 1,79,815m^3 of Gravel as** per the approved mining plan, under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC-II & normal conditions & the SEIAA Standard conditions.	Agreed.	**-**
4	**SEIAA Standard Condition**		
4.1	**Cluster Management Committee**		
1	Cluster Management Committee shall be framed which must include all the proponents in the cluster as members including the existing as well as proposed quarry.	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 including Green Belt Development, Water sprinkling, tree plantation, blasting etc.,	Agreed. Will be complied.	

3	The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease and the same shall be updated every year to the AD/Mines.	Agreed. The list of members of the committee formed will be submitted to AD/mines after obtaining Environmental Clearance.	-
4	Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network	Agreed. Details of the Operation plan for cluster mining operations will be submitted once we get environmental clearance for all quarries proposed in the cluster area.	-
5	The committee shall deliberate on risk & emergency management plan, fire safety & evacuation plan and sustainable development goals pertaining to the cluster in a holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan.	Risk management plan for the individual quarry is given in this report. As far as cluster working condition is concerned, once the committee is formed, risk management as a cluster including inundation of clusters and the evacuation plan will be elaborated and the same will be submitted to the EIA.	-
6	The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the Environmental policy devised shall be given in detail in the EIA Report	Environmental policy for the cluster will be framed by the cluster management committee and the policy will be in accordance with EPA Act, 1986 and its amendments, guidelines by MoEF&CC/SEIAA and other regulatory bodies. This policy will be displayed in the quarry.	-
7	The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner.	Agreed. It will be complied as mentioned in the Point No.4.	-
8	The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public in the vicinity.	Agreed. It will be complied as mentioned in the Point No.4.	-
	Agriculture & Agro-Biodiversity		
9	Impact on surrounding agricultural fields around the proposed mining Area.	There are no Agriculture, forest area and traditional practices within the project area. However, there are some agricultural land around the project site. It may be affected due to the quarry	

		operation as such dust particles sedimentation in the agricultural land. It will be controlled at the source 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	Impact on soil flora & vegetation around the project site.	The chemical and physical characteristics of the soil is given in Table 3.11 of Chapter 3. The anticipated impact and its mitigation measures for soil environment and biological environment are detailed in section 4.2.2 & 4.2.4 of Chapter 4 respectively.	114
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.	There is no standing trees or vegetation within the mine lease area.	-
12	The Environmental Impact Assessment should study the agro-biodiversity, agro- forestry, horti-cultural plantations, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.	The ecological details have been provided in Section 3.3.6 under Chapter 3 and measures have been provided in Section 4.2.4 under Chapter 4.	153
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.	153

14	The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.	The impact of project on the land environment has been discussed in Section 4.2.1 under Chapter 4.	153
	Forests		
15	The project proponent shall detail study on impact of mining on Reserve forests and free ranging wildlife.	The R.F in buffer zone are given below. Mayamankurichi RF-8 km (NW), Kottamalai RF-6.4km(NE), Kavalkattu parambu RF6.6km(NE). There are no R.F within 1 km radius of the project site. The anticipated impact on ecological environment is given in section 4.2.4 of Chapter 4.	
16	The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.	Nil within 10km Radius. The anticipated impact on ecological environment is given in section 4.2.4 of Chapter 4.	
17	The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.	There are no standing trees within lease area.	
18	The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.	There are no protected areas, National Parks, environmentally sensitive areas Corridors and Wildlife pathways near project site.	
	Water Environment		
19	Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided,	The hydrogeological study from a reputed institute is in progress and it will incorporate in the Final EIA report.	

	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 to rainy season and that is limited within quarry area. The control measures are explained in Chapter 4.	
21	Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas.	Complied. The study details are incorporated in Chapter 3. Anticipated impacts and its mitigation measures are detailed in Chapter 4.	
22	The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.	There is no wastewater generation from this Quarry, so this is not applicable.	-
23	The project proponent shall study and furnish the details on potential fragmentation impact on natural environment, by the activities.	Fragmentation impact on environment may be due to drilling and blasting. The anticipated impacts and mitigation measures are discussed in Chapter 4.	
24	The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts.	The Flora and Fauna study covering 10 km radius are detailed in section 3.3.6 of chapter 3. The impacts anticipated with respect to the environment of the project 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.	153
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 4.2.2 under Chapter 4.	-
26	The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.	The anticipated impact and its mitigation measures for Water Environment are detailed in section 4.2.3 of Chapter 4.	153

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 Mechanized operation with drilling, blasting, excavation, loading and transportation. So, the effect of Hydrothermal/Geothermal is not envisaged. This is a simple mining operation, so bio-geochemical processes are not envisaged. Odai - 280m (SW), Odai-355m (NE), Navaluthukulam Tank - 6.9km(NE),Mathavarayankulam Tank - 7.0km (NE). Due to mining operation, there may be minimum impact to the nearby water bodies due to dust sedimentation. It will be controlled by wet drilling, water sprinkling and plantation.	-
	Energy		
28	The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilise the Energy shall be furnished	The measures taken to control noise, air, water, and dust have been given under Chapter 4.	153
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.	The carbon emission and the measures to mitigate carbon emission have been discussed in Section 4.2.4 under Chapter. 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. Complied. The details are described in Chapter 4.	153
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.		153
31	Impact of mining on pollution leading to GHGs emissions and the impact of the same on the local livelihood.	Complied. The details are described in Chapter 4.	153
	Mine Closure Plan		
32	Detailed Mine Closure Plan covering the entire mine lease	Complied. Mine Closure Plan has been incorporated in the	

	period as per precise area communication order issued.	approved Mining Plan and the same is incorporated in the Chapter 2.	
	EMP		
33	Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued and the scope for achieving SDGs.	Complied. The details are described in Chapter 10.	208
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.	Total EMP Cost for 5 Years is 30.19 lakhs i.e., Rs.11.24 Lakhs of Capital + Recurring cost Rs. 18.95 lakhs for 5 Years, which is including the cost of Rs. 0.93 Lakhs (capital) and Rs. 0.19 (Recurring) for Greenbelt development.	193
	Risk Assessment		
35	To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining	The risk assessment and management plan for this project has been provided in Section 7.2 under Chapter 7.	194
	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 is detailed in section 7.3, Chapter 7.	197
	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 – 4.	
38	As per the MoEF& CC office memorandum F.N0.22-65/2017-1A.11I dated: 30.09.2020 and20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan.	The concerns raised during the public consultation and all the activities proposed will be updated in the final EIA report.	-
39	The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the environment. The ecological risks and impacts of plastic & microplastics on aquatic environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.	Complied. The PP has framed detail solid waste management system for the project are and the same will be executed by proper awareness and sign boards. The sign boards will be in two languages i.e., Vernacular language (Tamil) and common language (English). The plastic waste generation is very negligible and it will be collected from the source level in specific dustbin and disposed through the municipal bins.	-
	STANDARD TERMS OF REFERENCE FOR (MINING OF MINERALS)		
1	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	This is a new project. No mining has been carried out in this lease area so far by the proponent.	-
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.Pannerselvan, Thiru.Jaisundar, Thiru.Raju, Thiru.Karuppasamy, Thiru.Niraikulathan & M/s.Krishna Bluemetals, vide patta no. 1828, 1871, 1913, 1011, 143, 900, 911, 1015, 1096 the applicant has obtained consent from the pattadar, Please refer Annexure No: VI.	-

3	All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee	Noted & agreed. All documents including approved mine plan, EIA and Public Hearing are compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and is in the name of the lessee.	-
4	All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone)	Project coordinates superimposed in satellite imagery and given as Figure No – 2.2 in Chapter – 3. The geology and geomorphology map are provided in Figure No.3.23, 3.24 Chapter 3. The Soil map is provided under Figure No. 3.25, Chapter-3. The 10km Radius Index plan showing buffer zone is given in Figure No.3.1 & Figure 3.5 in Chapter – 3.	
5	Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics	The following map in 1:50,000 Scale: Geology map of the project area covering 10km radius – Figure No. 3.23. Geomorphology Map of the Study Area covering 10 km radius – Figure No. 3.24. Drainage map – 3.22	

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	a.) Precise Area Communication: The Project Proponent has obtained Precise area communication letter received from the Deputy Director, Department of Geology and Mining, Tenkasi, vide Rc.No.M1/10/2025, Dated: 18.06.2025. The letter copies enclosed as Annexure – 2 b.) Mining Plan approval: The project proponent has prepared a Mining Plan under rule 19 (1), 41 & 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 and the same has been approved by the Deputy Director, Department of Geology and Mining, Tenkasi vide Rc.No.M1/10/2025, Dated: 27.06.2025. The approval letter along with approved plan is enclosed as Annexure – 3.	-
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.	Environmental policy for the cluster will be framed by the cluster management committee and the policy will be in accordance with EPA Act, 1986 and its amendments, guidelines by MoEF&CC/SEIAA and other regulatory bodies. This policy will be displayed in the quarry.	-

8	Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided	Risks are identified and the management plan is given in Chapter 7.	197
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.	Noted & Agreed The study area considered for this study is 10 km radius and all data contained in the EIA report such as waste generation etc., is for the Life of the Mine / lease period.	-
10	Land use of the study area delineating forest area, agricultural land, grazing 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	The land use of the study area was studied to demarcate various LULC categories and its details are provided under section 3.3.7 of Chapter-3. The land use pattern at present and at the end of the quarrying period has been provided in Table 2.4, Chapter-2. The Conceptual plan of mine lease area is shown in Figure No-2.12.	-
11	Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given	The entire material quarried out will be sold. No waste generation from this quarrying operation.	-
12	A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard	There is no Forest Land involved in the proposed project area. The proposed project area is a Patta land registered in the name of Thiru.Pannerselvan, Thiru.Jaisundar, Thiru.Raju, Thiru.Karuppasamy, Thiru.Niraikulathan & M/s.Krishna Bluemetals, vide patta no. 1828, 1871, 1913, 1011, 143, 900, 911, 1015, 1096 the applicant has obtained consent from the pattadar,	-

	as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the State Expert Appraisal Committees.	Please refer Annexure No: VI	
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	There are no R.F within 1 km radius of the project site.	-
16	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted	The mining lease area and the 10 km buffer zone from the periphery of the core zone is devoid of declared ecologically sensitive features like national parks, biospheres, sanctuaries, etc.	-
17	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/Elephant Reserves/ (existing as well as proposed), if any, within 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.	Not Applicable. There are No National Parks, Biosphere Reserves, Wildlife Corridors, and Tiger/Elephant Reserves within 10 km Radius from the periphery of the project area.	-

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	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 Chapter 3.	125
19	Proximity to Areas declared as Critically Polluted or the Project areas likely to come under the Aravali Range, (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered	Not Applicable	-
20	Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority)	Not Applicable	-

21	R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need-based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report	Not applicable. No habitation within 300 meters of the radius.	
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,	Baseline Data were collected for One Season (March 2025 to May 2025) as per CPCB Notification and MoEF & CC Guidelines and Detailed in Chapter -. 3.	-

	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.	Air Quality Modelling for prediction of incremental GLC's of pollutant was carried out using AERMOD view and Detailed in Section 4.3. Air Quality Modelling for Cluster are detailed in section 7.4 of Chapter 7.	
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 total water requirement for the project is 2.0 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. Water Balance diagram is presented in Figure No – 4.1.	
25	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided	Not Applicable Water for dust suppression, greenbelt development and domestic use will be sourced from accumulated rainwater/seepage water in mine pits and purchased from local water vendors through water tankers on daily requirement basis.	-
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	Rain water will be diverted into working area by constructing drains to store and use for dust suppression and greenbelt development. Details are presented in section 4.2.3 The total water requirement for the project will be 2.0 KLD comprising Drinking and domestic 0.5 KLD, Dust suppression 1.0 KLD, Greenbelt 0.5 KLD. The water will be	

		sourced initially from outside agencies. Later the rainwater collected in the mine pit sump will be used for this purpose. The water balance diagram for the same is shown in Figure No 4.1.	
27	Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided	Impact Studies and Mitigation Measures of Water Environment including Surface Water and Ground Water are discussed in Section 4.2.3 of Chapter 4.	
28	Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from State Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished	The quarrying activity will not intersect ground water table as quarrying is proposed upto a depth of 65m BGL and water table is found at a depth of 78m BGL.	-
29	Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out	Not applicable. There is no stream, seasonal or otherwise, passing through the lease area.	-
30	Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and BGL. A schematic diagram may also be provided for the same	Site Elevation above MSL: 130m from MSL Ultimate Depth: 65m BGL Ground water: 75 - 78 m BGL	-
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	Greenbelt Development Plan & Recommended Species proposed for Greenbelt Development are detailed in Section 4.2.4.	-

	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	0.92.85 hectares (7.5m & 10m safety zone) of land are allotted for greenbelt development.	
32	Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines	The traffic density study was carried out and the same is given in section 2.10.6 of Chapter 2.	-
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 2.10 of Chapter 2.	-
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 2.9 of Chapter 2.	

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 4.5.4 & Section 10.4.	
36	Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations	No major impact on public health will be there since the villages are located more than 500m from the lease area.	-
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 18 people directly & 17 people indirectly. Local people will be hired for unskilled labour. Through CSR, nearby schools, villages will be benefitted. For CER, INR 5,00,000 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.	-
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 passed by any Court of Law against the Project should be given	There is no litigation pending against the project.	-
41	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out	Project Cost is Rs. 156.633 Lakhs (including EMP & CER cost) CER Cost is Rs.5.0/- lakhs EMP Cost for 5 Years is 30.19 Lakhs i.e. Capital Cost of Rs. 11.24 Lakhs and Recurring Cost of Rs. 18.95 Lakhs for 5 Years.	
42	A Disaster management Plan shall be prepared and included in the EIA/EMP Report	The disaster and its management plan are given in 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.	This project will contribute financially through payment of taxes like royalty, GST, etc. The project will also contribute via CSR. The demands of people during public hearing will also be considered by the project proponent. This project provides employment to 35 people directly. Local people will be hired for unskilled labour. Through CSR, nearby schools, hospitals will be benefitted. For CSR, INR 5.0 Lakhs has been allocated.	-
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. 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 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 surface plan of the area indicating contours of main topographic features, drainage and mining area, geological maps and sections and sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area		

CHAPTER 1

INTRODUCTION

1.1 PURPOSE OF THE REPORT

Environmental Impact Assessment (EIA) 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.Prasadraju proposes to operate Rough Stone and Gravel Quarry over an extent of 5.99.05 Ha Patta Land in S.F.Nos. 36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part-1 and S.F.Nos. 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C and 148/1 of Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State and ToR obtained vide ToR Identification No. TO25B0108TN5458424N, Dated: 25/09/2025. The lease applied area is fresh area.

This proposed project is categorized under category "B1" Activity 1(a) (mining lease area is <5.0 Ha i.e 5.99.05 Ha). The cluster includes two existing quarries and this proposed quarry. 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 Quary Owner	Village, Taluk & S.F.Nos.	Lease Period	Area in Ha
a. Existing Quarry				
1.	G.Karuppasamy, S/o. Gurusamy	Maruthamputhur-1 Village, Alangulam Taluk & 35/4A, 35/4B, 35/4C, 35/4D, 35/4E, 35/4F, 35/4G, 35/4H & 3/4I	5 Years 19.06.2023 to 18.06.2028	3.99.00
2.	M.Niraikulathan, S/o. Muthaiah	Maruthamputhur-2 Village, Alangulam Taluk & 144/2C, 144/2D, 144/2E, 144/2F, 144/2G & 144/2I	5 Years 30.11.2021 to 29.11.2026	2.07.00
b. Expired Quarry				
1.	G.Karuppasamy, S/o. Gurusamy	Maruthamputhur-2 Village, Alangulam Taluk & 162/6A, 162/6B, 163/4 & 163/5A	5 Years 08.01.2016 to 07.01.2021	3.76.00
2.	V.Muthaiah Konar	Maruthamputhur-1 Village, Alangulam Taluk & 35/5G & 35/5H	5 Years 18.05.2011 to 17.05.2016	1.54.00
c. Abandoned Quarry - Nil				
c. Present Proposed Quarry				
1.	Thiru.K.Prasadraju	S.F.Nos. 36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part-1 Village & 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C, 148/1 of Maruthamputhur Part-2 Village, Alangulam Taluk	Presently Proposed	5.99.05
Total Area of Cluster		**12.05.05 Ha**		

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

As per MoEF&CC 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/547582/2025, Dated: 09.08.2025. The ToR proposal was placed in 611th SEAC meeting, dt 29.08.2025 and 887th

SEIAA meeting, Dated: 16.09.2025. Then ToR has been issued by the SEIAA vide ToR Identification No. TO25B0108TN5458424N, Dated: 25/09/2025 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.Prasadraju
S.Nos.	S.F.Nos. 36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part-1 Village & 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C, 148/1 of Maruthamputhur Part-2 Village
Location of the Project	Maruthamputhur Part-1 and Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State.
Extent	5.99.05 Ha
Type of Land	Patta Land

1.2.2 IDENTIFICATION OF PROJECT PROPONENT

Table -1.3- Details of Project Proponent

Name of the Project Proponent	Thiru.K.Prasadraju
Communication address	S/o. Kalyanasundaram, No.4/48, Indra Nagar, Nallur, Alangulam Taluk, Tenkasi District – 627 853.
E-Mail Address	prasadraju.47@gmail.com
Mobile No.	9443555063

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 by jack hammer drilling, slurry 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

<table>
<tr><td>Name of the Quarry</td><td colspan="4">Rough Stone and Gravel Quarry of Thiru.K.Prasadraju</td></tr>
<tr><td>Toposheet No</td><td colspan="4">58-H/09</td></tr>
<tr><td>Latitude</td><td colspan="4">08°49’12.29”N to 08°49’25.62”N</td></tr>
<tr><td>Longitude</td><td colspan="4">77°31’31.17”E to 77°31’43.16”E</td></tr>
<tr><td>The altitude of the area</td><td colspan="4">130m (MSL)</td></tr>
<tr><td>Proposed Depth of Mining</td><td colspan="4">65m BGL for 5 years</td></tr>
<tr><td>Geological Resources</td><td colspan="4">35,91,480m^3 (98,76,570Ts) of Rough Stone
2,99,290m^3 (5,98,580Ts) of Gravel</td></tr>
<tr><td>Mineable Reserves</td><td colspan="4">13,48,090m^3 (37,07,247.50Ts) of Rough Stone
2,46,535m^3 (4,93,070Ts) of Gravel</td></tr>
<tr><td>Proposed Production</td><td colspan="4">13,48,090m^3 (37,07,247.50Ts) of Rough Stone and 2,46,535m^3 (4,93,070Ts) of Gravel for 5 Years.</td></tr>
<tr><td>Ultimate pit Dimension</td><td colspan="4"><table><tr><th colspan="4">Ultimate Pit dimension (m) end of Mining plan Period</th></tr><tr><th>Pit No</th><th>Length (max) in(m)</th><th>Width (Avg) in (m)</th><th>Depth (max) in (m)</th></tr><tr><td>I</td><td>278</td><td>181</td><td>65</td></tr></table></td></tr>
<tr><td>Water Level in the area</td><td colspan="4">78 m BGL</td></tr>
<tr><td>Method of Mining</td><td colspan="4">Opencast Mechanized Mining Method involving drilling and blasting</td></tr>
<tr><td>Topography</td><td colspan="4">The area applied for quarry lease is exhibits almost plain topography covered by Gravel formation. The massive Charnockite formation is noticed below 5m (avg) Gravel formation and sloping towards southeastern side of the area, the altitude of the area is above 130m (maximum) from MSL.</td></tr>
<tr><td>Machinery Proposed</td><td colspan="2">Jack Hammer</td><td colspan="2">12 Nos</td></tr>
<tr><td></td><td colspan="2">Compressor</td><td colspan="2">3 No</td></tr>
<tr><td></td><td colspan="2">Excavator with bucket and rock breaker</td><td colspan="2">2 No</td></tr>
<tr><td></td><td colspan="2">Tipper (10/20 Ts)</td><td colspan="2">5 Nos</td></tr>
<tr><td>Environmental Setting within 500m Radius</td><td colspan="4">Odai - 280m (SW), Odai-355m (NE),</td></tr>
<tr><td>Details of Habitation</td><td colspan="4"><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>Karumpuliyuthu</td><td>2.5Km - NE</td><td>700</td></tr><tr><td>2.</td><td>Maruthamputhur</td><td>1.4km - NW</td><td>1500</td></tr><tr><td>3.</td><td>Nalankurichi</td><td>1.7km - E</td><td>500</td></tr><tr><td>4.</td><td>Kandapatti</td><td>1.3km - SW</td><td>600</td></tr></table></td></tr>
</table>

Proposed Manpower Development	35 Nos
Water Requirement	2.0 KLD
Greenbelt Development	The safety zone of 0.92.85 Ha will be developed with about 929 Nos. of plantation.
Fuel Requirement	11,19,561 Litres of HSD (Entire Project Life)
Project Cost	Rs.156.633 Lakhs (Including operational + Fixed Asset + EMP cost + CER cost).
EMP Cost	Total EMP Cost for 5 Years is 30.19 lakhs (This amount will be subjected to change after public hearing) i.e., 11.24 Lakhs of Capital Cost + 18.95 Lakhs of Recurring cost (For 5 Years)
CER Cost	Rs. 5.0 Lakhs
Applicability of CRZ Clearance	Not Applicable

1.3.2 NATURE OF THE PROJECT

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

LOCATION OF PROJECT

The proposed Quarry lease area is situated at S.Nos. 36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part-1 Village & 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C, 148/1 of Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State. The area lies in the North latitude of 08°49'12.29"N to 08°49'25.62"N and Eastern longitude of 77°31'31.17"E to 77°31'43.16"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:

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 and Gravel 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 MoEF&CC (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 Transboundary Movement) Rules, 2016
- Batteries (Management and Handling) Rules 2010
- Solid Waste Management Rule 2016

1.5.1PRESENT LEGAL STATUS

Table 1.5 – Present Legal Status

Description	Issuing Authority	Status	Letter number	Date	Reference
Precise Area Communication	Deputy Director, Department of Geology and Mining, Tenkasi	Received	Rc.No.M1/10/2025	18.06.2025	Annexure - 2
Mine Plan Approval Letter	Deputy Director, Department of Geology and Mining, Tenkasi	Approved	Rc.No.M1/10/2025	27.06.2025	Annexure - 3
500m radius Cluster Letter	Deputy Director, Department of Geology and Mining, Tenkasi	Obtained	Rc.No.M1/10/2025	02.07.2025	Annexure - 4
VAO NOC for features within300m radius	VAO, Maruthamputhur Part-1 and Maruthamputhur Part-2 Village	Obtained	-	-	Annexure - 5

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/23-26/SA 0241. 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 (MoEF & CC) requirements.

1.5.3 SCOPING

The proposal was placed in the 611th meeting of SEAC on 29.08.2025. 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 887th meeting dated 16.09.2025.

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, TamilNadu vide ToR Identification No. TO25B0108TN5458424N, Dated: 25/09/2025. The point wise compliance for the ToR has been incorporated in this EIA/EMP report.

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

model and all other aspects of pollution like effluent discharge, Dust generation etc., have been discussed in this report. The baseline monitoring study has been carried out during the Period of March 2025 – May 2025 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 MoEF & CC 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 presents the benefits from this project

9. 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.

10. Summary and Conclusion

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

11. Disclosure of Consultant

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 13,48,090m^3 of Rough Stone and 2,46,535m^3 of Gravel for 5 Years with ultimate depth up to 65m BGL.

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 Maruthamputhur Part-1 and Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State. The area lies in the north latitude of 08°49’12.29”N to 08°49’25.62”N and eastern longitude of 77°31’31.17”E to 77°31’43.16”E and toposheet number 58-H/09. Location of the proposed project is shown in Figure 2.1 and the satellite imagery of the project site is shown in Figure 2.2.

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

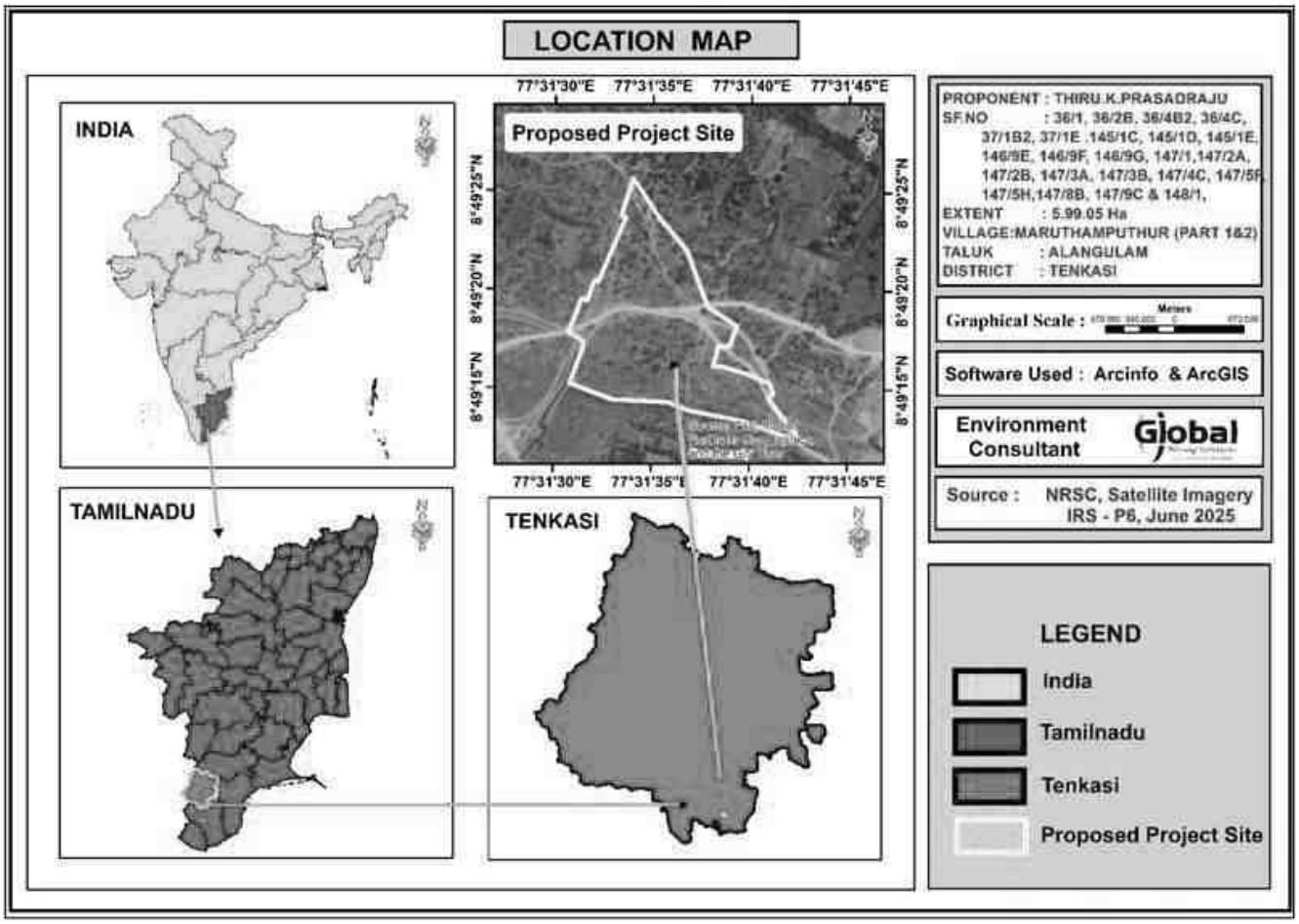


Figure 2.1 Location Map

Table 2.1 Boundary Coordinates of the Project Site

Corners	Co- ordinates		Distance between the corners
	Latitude	Longitude	
1	08° 49' 15.23"N	77° 31' 31.23"E	1-2 = 58.6m
2	08° 49' 17.02"N	77° 31' 31.90"E	2-3 = 9.8m
3	08° 49' 17.33"N	77° 31' 31.97"E	3-4 = 28.6m
4	08° 49' 17.82"N	77° 31' 31.17"E	4-5 = 42.0m
5	08° 49' 19.02"N	77° 31' 31.65"E	5-6 = 3.0m
6	08° 49' 19.12"N	77° 31' 31.68"E	6-7 = 13.8m
7	08° 49' 19.53"N	77° 31' 31.85"E	7-8 = 9.2m
8	08° 49' 19.43"N	77° 31' 32.13"E	8-9 = 31.4m
9	08° 49' 20.40"N	77° 31' 32.46"E	9-10 = 3.2m
10	08° 49' 20.42"N	77° 31' 32.57"E	10-11 = 3.4m
11	08° 49' 20.37"N	77° 31' 32.68"E	11-12 = 109.6m
12	08° 49' 23.65"N	77° 31' 34.08"E	12-13 = 8.4m
13	08° 49' 23.76"N	77° 31' 33.83"E	13-14 = 59.8m
14	08° 49' 25.62"N	77° 31' 34.43"E	14-15 = 34.6m
15	08° 49' 24.71"N	77° 31' 35.10"E	15-16 = 36.6m
16	08° 49' 23.70"N	77° 31' 35.73"E	16-17 = 66.4m
17	08° 49' 22.06"N	77° 31' 37.15"E	17-18 = 2.2m
18	08° 49' 22.01"N	77° 31' 37.19"E	18-19 = 17.6m
19	08° 49' 21.32"N	77° 31' 37.48"E	19-20 = 72.4m
20	08° 49' 19.11"N	77° 31' 38.29"E	20-21 = 30.0m
21	08° 49' 18.60"N	77° 31' 39.16"E	21-22 = 23.4m
22	08° 49' 18.16"N	77° 31' 39.78"E	22-23 = 30.0m
23	08° 49' 17.15"N	77° 31' 39.40"E	23-24 = 18.0m
24	08° 49' 17.16"N	77° 31' 38.81"E	24-25 = 29.8m
25	08° 49' 16.13"N	77° 31' 38.54"E	25-26 = 15.4m
26	08° 49' 16.12"N	77° 31' 39.05"E	26-27 = 38.4m
27	08° 49' 15.77"N	77° 31' 40.25"E	27-28 = 40.6m
28	08° 49' 15.29"N	77° 31' 41.49"E	28-29 = 16.8m
29	08° 49' 14.76"N	77° 31' 41.65"E	29-30 = 11.2m
30	08° 49' 14.52"N	77° 31' 41.38"E	30-31 = 87.6m
31	08° 49' 12.29"N	77° 31' 43.16"E	31-32 = 99.2m
32	08° 49' 13.37"N	77° 31' 40.10"E	32-33 = 86.2m
33	08° 49' 13.90"N	77° 31' 37.33"E	33-34 = 36.0m
34	08° 49' 14.30"N	77° 31' 36.28"E	34-35 = 87.0m
35	08° 49' 14.44"N	77° 31' 33.44"E	35-1 = 70.2m

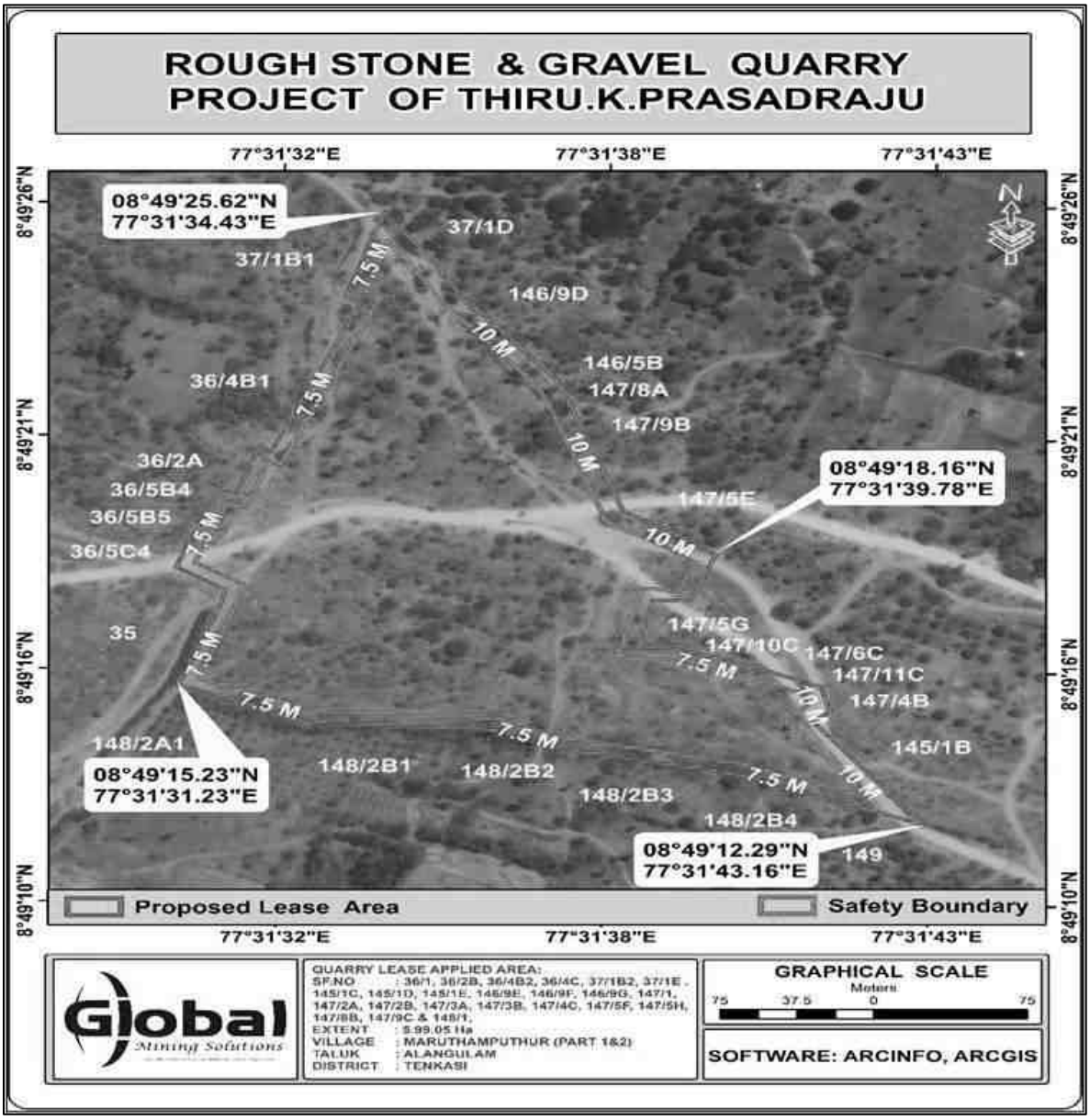


Figure 2.2 Google Image of the project site with Boundary Coordinates

Table 2.2 Mine Lease Area and its Ownership

Location	S.F.Nos.	Area in Ha	Remarks
Maruthamputhur Part-1 and Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District	S.Nos. 36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part-1 Village & 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C, 148/1 of Maruthamputhur Part-2 Village	5.99.05	It is a patta land registered in the name of Thiru.Pannerselvan, Thiru.Jaisundar, Thiru.Raju, Thiru.Karuppasamy, Thiru.Niraikulathan & M/s.Krishna Bluemetals, vide patta no. 1828, 1871, 1913, 1011, 143, 900, 911, 1015, 1096 the applicant has obtained consent from the pattadar, Please refer Annexure No: VI.

Table 2.3 Site Connectivity

S.No.	Description	Details	Distance & Direction
1	Village	Kandapatti – 1.3 km -SW	1.3m (SW)
2	Highway	(NH-44) Madurai – Tirunelveli (SH-40A) Kadayam - Mukkudal	22.0km (E) 0.65Km (SW)
3	Railway Station	Kizha Ambur Station	15.8 km (SW)
4	Airport	Thoothukudi Airport	56.0 km - SE

Figure 2.3 Site Connectivity Map

Table 2.4 Salient features of the Project

S.No.	Particulars	Details
1.	Proponent Name	Thiru.K.Prasadraju
2.	Proposed project	Rough Stone and Gravel Quarry of Thiru.K.Prasadraj
3.	Extent	5.99.05 Ha and the cluster area within 500m radius including this proposed mine is 12.05.05 Ha > 5 Ha
4.	Location	S.Nos. 36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part-1 Village & 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C, 148/1 of Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State.
5.	Co-ordinates of the project site	Latitude: 08°49'12.29"N to 08°49'25.62"N Longitude: 77°31'31.17"E to 77°31'43.16"E
6.	Topography	Plain topography
7.	Site Elevation above MSL	130m from MSL
8.	Topo Sheet No.	58-H/09
9.	Minerals of Mine	Rough Stone and Gravel
10.	Proposed production	13,48,090m^3 (37,07,247.50Ts) of Rough Stone and 2,46,535m^3 (4,93,070Ts) of Gravel for 5 Years.
11.	Ultimate Depth of mining	65m BGL
12.	Method of Mining	Opencast Mining with a bench height of 5m 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	2.0 KLD and will be sourced from local vendors
16.	Manpower	35 Nos.
17.	Project Cost	Rs. 156.633 lakhs

18.	Mining Plan Approval	Deputy Director, Department of Geology and Mining, Tenkasi vide Rc.No.M1/10/2025, Dated: 27.06.2025.
19.	Safety Zone	0.92.85 Ha will be maintained as safety zone and 929 tree saplings will be planted in this area
20.	Ground water level	78m in summer and 75m in rainy seasons
21.	Distance of Stone Crusher	490m – (W)
22.	Previous History & CCR	This is a Fresh Lease. Hence CCR is not applicable

Table 2.5 Environmental Settings of the project site

S.NO.	Particulars	Details
1.	Nearest Highway	(NH-44) Madurai – Tirunelveli - 22.0km (E) (SH-40A) Kadayam - Mukkudal – 0.65Km (SW)
2.	Interstate Boundary	Not Applicable
3.	Nearest Railway Station	Kizha Ambur station- 15.8 km (SW)
4.	Nearest Airport	Thoothukudi Airport – 56.0 km - SE
5.	Nearest Village	Kandapatti – 1.3Km (SW)
6.	Water bodies	Odai-280m (SW), Odai-355m (NE), Navaluthukulam Tank-6.9km (NE), Mathavarayankulam Tank-7.0km (NE)
7.	Reserved Forest	Mayamankurichi RF-8 km (NW), Kottamalai RF-6.4km Kavalkattu parambu RF6.6km(NE)
8.	Eco Sensitive Zone and Wildlife Sanctuary (Notified)	Nil within 10 km radius Gangaikodan Spotted Deer Sanctuary – 25.3 km (E)

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

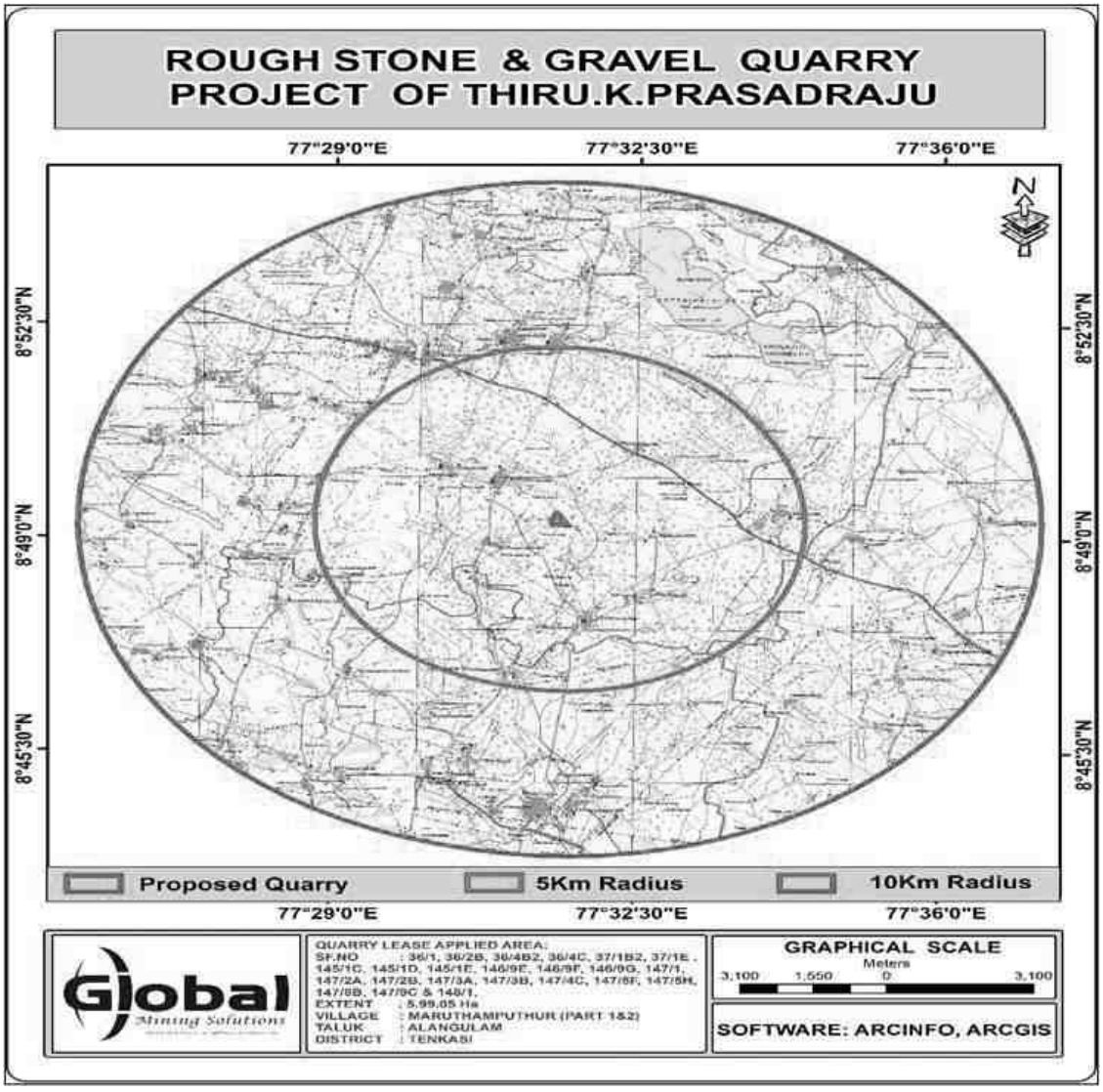


Figure 2.4 10km Radius TOPO Map

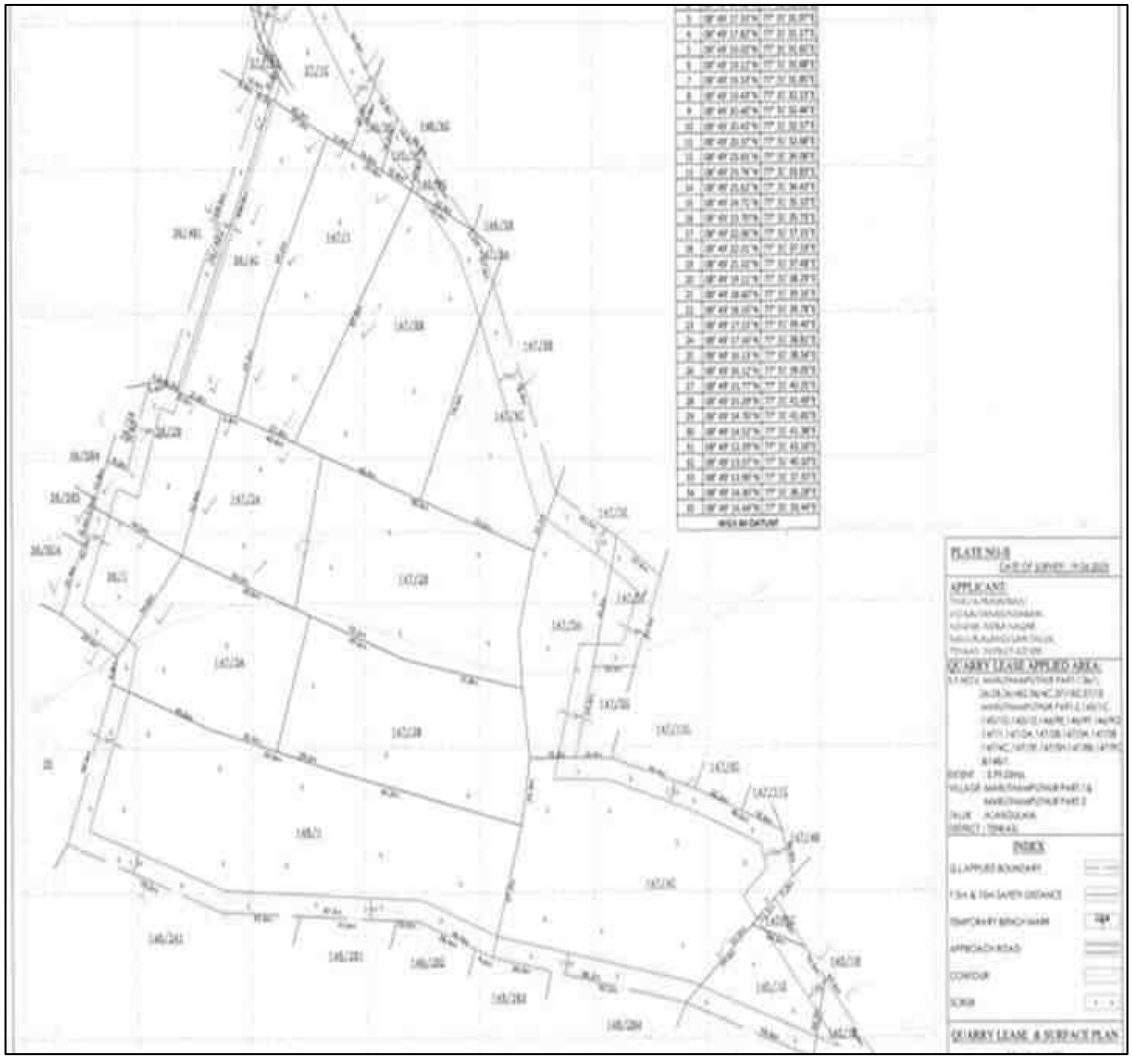


Figure 2.5 Lease Plan

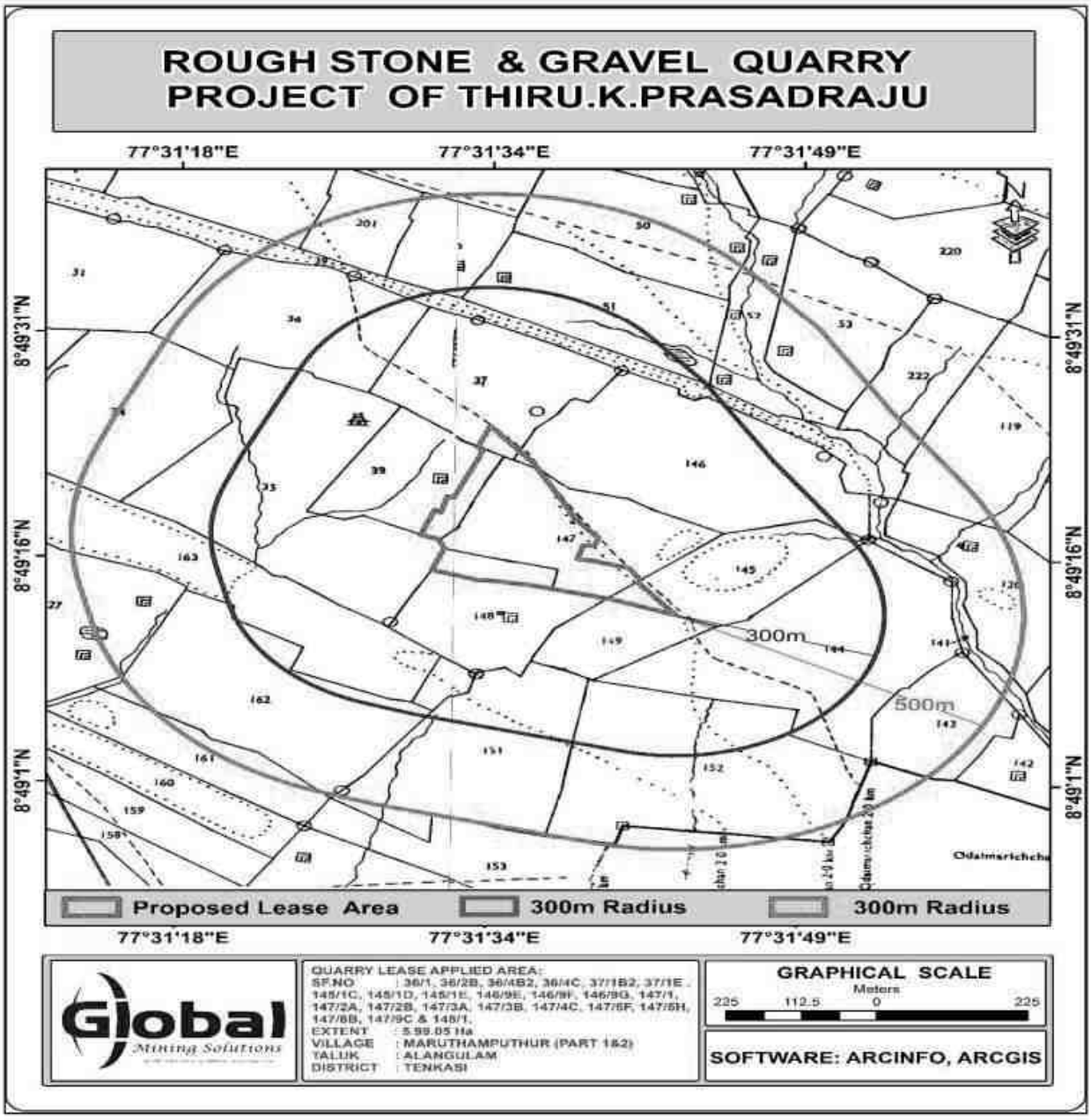


Figure 2.6 Village Map

Figure 2.7 Site Photographs

LAND USE PATTERN OF THE PROJECT AREA

It is a patta land registered in the name of Thiru.Pannerselvan, Thiru.Jaisundar, Thiru.Raju, Thiru.Karuppasamy, Thiru.Niraikulathan & M/s.Krishna Bluemetals, vide patta no. 1828, 1871, 1913, 1011, 143, 900, 911, 1015, 1096 the applicant has obtained consent from the pattadar, Please refer Annexure No: VI. 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.	Area at the end of life of Quarry in Ha.
Quarrying Pit	Nil	5.03.20
Infrastructure	Nil	0.01.00
Roads	Nil	0.02.00
Safety Zone / Green Belt	Nil	0.92.85
Unutilized	5.99.05	Nil
Total	**5.99.05**	**5.99.05**

2.4 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 5.99.05 Ha and to produce 13,48,090m^3 of Rough Stone and 2,46,535m^3 of Gravel for 5 Years with ultimate depth up to 65m BGL. The details of geological and mineable reserves in the lease area have been provided below in the subsequent sub section.

2.5 TOPOGRAPHY AND DRAINAGE

The area applied for quarry lease is exhibits almost plain topography covered by Gravel formation. The massive Charnockite formation is noticed below 5m (avg) Gravel formation and sloping towards southeastern side of the area, the altitude of the area is above 130m (maximum) from MSL.

2.6 GEOLOGY

2.6.1 REGIONAL GEOLOGY

Tenkasi district is bounded by Virudhunagar district in the north, Thoothukudi district in the east, in the south by Tirunelveli district and by Kerala State in the west. The District lies between 08º43'50''N to 09º24'30''N Latitude, 77º07'58''E to 77º52'15''E Longitude and has an areal extent of 2916 sq.km.

Tenkasi District's geology is dominated by ancient, hard crystalline rocks of the Archaean era, primarily the Charnockite and Khondalite Groups, featuring gneisses, calc-granulites, and quartzites, often migmatized (hornblende-biotite gneiss) and intruded by granites, pyroxenites, pegmatites, and quartz veins, with younger sediments and alluvium near river valleys and coastal plains. The region's western hills show charnockite development along shear zones, while limestone bands occur near Nanguneri, and river systems like the Chittar and Tamarabarani carve through these formations.

The Regional Geology map for the 10 Km radius of the proposed project site is given as Figure 2.8.

2.6.2 GEOLOGY OF THE PROJECT 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^{0}E –S45^{0}W with dipping towards SE60^0. The general geological succession of the area is given as under.

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

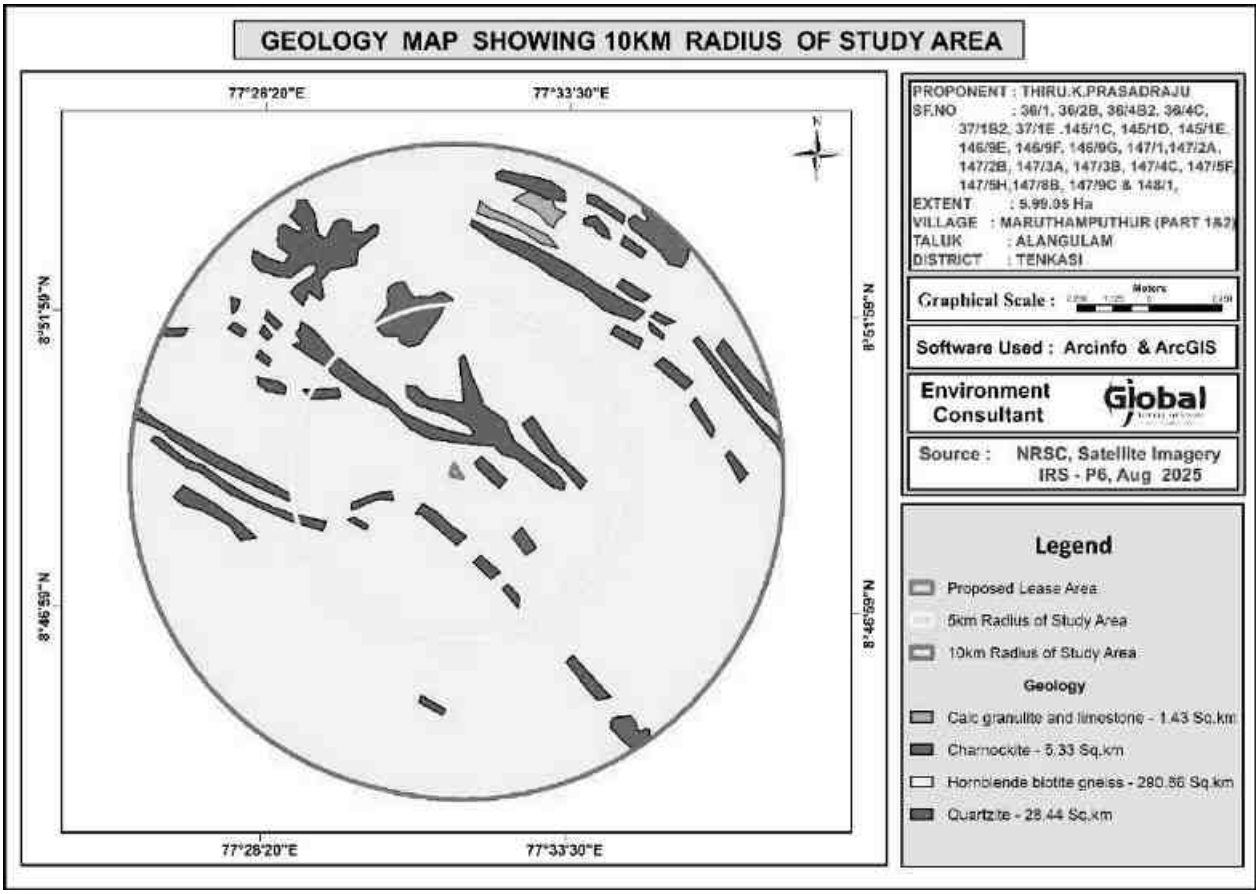


Figure 2.8 Geology Map – 10km Radius from the Project Site

2.7 RESOURCES AND RESERVES

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

Table 2.7 Available Geological Resources

Section	Bench	Length (m)	Width (m)	Depth (m)	Gravel (m^3)	Geological Resources of Rough Stone (m^3)	Bulk Density	Gravel (Ts)	Geological Resources of Rough Stone (Ts)
XY-AB	I	182	169	5	153790	-	2.00	307580	-
	II	182	169	5	-	153790	2.75	-	422922.5
	III	182	169	5	-	153790	2.75	-	422922.5
	IV	182	169	5	-	153790	2.75	-	422922.5
	V	182	169	5	-	153790	2.75	-	422922.5
	VI	182	169	5	-	153790	2.75	-	422922.5
	VII	182	169	5	-	153790	2.75	-	422922.5
	VIII	182	169	5	-	153790	2.75	-	422922.5
	IX	182	169	5	-	153790	2.75	-	422922.5
	X	182	169	5	-	153790	2.75	-	422922.5
	XI	182	169	5	-	153790	2.75	-	422922.5
	XII	182	169	5	-	153790	2.75	-	422922.5
	XIII	182	169	5	-	153790	2.75	-	422922.5
	Total				**153790**	**1845480**	-	**307580**	**5075070**
XY-CD	I	97	300	5	145500	-	2.00	291000	-
	II	97	300	5	-	145500	2.75	-	400125
	III	97	300	5	-	145500	2.75	-	400125
	IV	97	300	5	-	145500	2.75	-	400125
	V	97	300	5	-	145500	2.75	-	400125
	VI	97	300	5	-	145500	2.75	-	400125
	VII	97	300	5	-	145500	2.75	-	400125
	VIII	97	300	5	-	145500	2.75	-	400125
	IX	97	300	5	-	145500	2.75	-	400125
	X	97	300	5	-	145500	2.75	-	400125
	XI	97	300	5	-	145500	2.75	-	400125
	XII	97	300	5	-	145500	2.75	-	400125
	XIII	97	300	5	-	145500	2.75	-	400125
	Total				**145500**	**1746000**	-	**291000**	**4801500**
Grand Total					**299290**	**3591480**	-	**598580**	**9876570**

The Geological Resources of Rough Stone : 35,91,480m^3 (98,76,570Ts)

The Geological Resources of Gravel : 2,99,290m^3 (5,98,580Ts)

2.7.1 MINEABLE RESERVES

The mineable reserves are calculated by deducting 7.5m & 10m safety distance and bench loss.

Table 2.8 – Available Mineable Reserves

Section	Bench	Length (m)	Width (m)	Depth (m)	Gravel (m^3)	Mineable Reserves of Rough Stone (m^3)	Bulk Density	Gravel (Ts)	Mineable Reserves of Rough Stone (Ts)
XY-AB	I	169	147	5	124215	-	2.00	248430	-
	II	162	132	5	-	106920	2.75	-	294030.00
	III	157	122	5	-	95770	2.75	-	263367.50
	IV	152	112	5	-	85120	2.75	-	234080.00
	V	147	102	5	-	74970	2.75	-	206167.50
	VI	142	92	5	-	65320	2.75	-	179630.00
	VII	137	82	5	-	56170	2.75	-	154467.50
	VIII	132	72	5	-	47520	2.75	-	130680.00
	IX	127	62	5	-	39370	2.75	-	108267.50
	X	122	52	5	-	31720	2.75	-	87230.00
	XI	117	42	5	-	24570	2.75	-	67567.50
	XII	112	32	5	-	17920	2.75	-	49280.00
	XIII	107	22	5	-	11770	2.75	-	32367.50
	Total				**124215**	**657140**	-	**248430**	**1807135.00**
XY-CD	I	88	278	5	122320	-	2.00	244640	-
	II	80	263	5	-	105200	2.75	-	289300.00
	III	75	253	5	-	94875	2.75	-	260906.25
	IV	70	243	5	-	85050	2.75	-	233887.50
	V	65	233	5	-	75725	2.75	-	208243.75
	VI	60	223	5	-	66900	2.75	-	183975.00
	VII	55	213	5	-	58575	2.75	-	161081.25
	VIII	50	203	5	-	50750	2.75	-	139562.50
	IX	45	193	5	-	43425	2.75	-	119418.75
	X	40	183	5	-	36600	2.75	-	100650.00
	XI	35	173	5	-	30275	2.75	-	83256.25
	XII	30	163	5	-	24450	2.75	-	67237.50
	XIII	25	153	5	-	19125	2.75	-	52593.75
	Total				**122320**	**690950**	-	**244640**	**1900112.50**
Grand Total					**246535**	**1348090**	-	**493070**	**3707247.50**

The mineable reserve is computed as 13,48,090m^3 (37.53 %) of Rough Stone and 2,46,535m^3 of Gravel formation up to a depth 65m BGL only.

2.8 PROCESS DESCRIPTION AND TECHNOLOGY

2.8.1 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 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 - Figure No. 2.12.

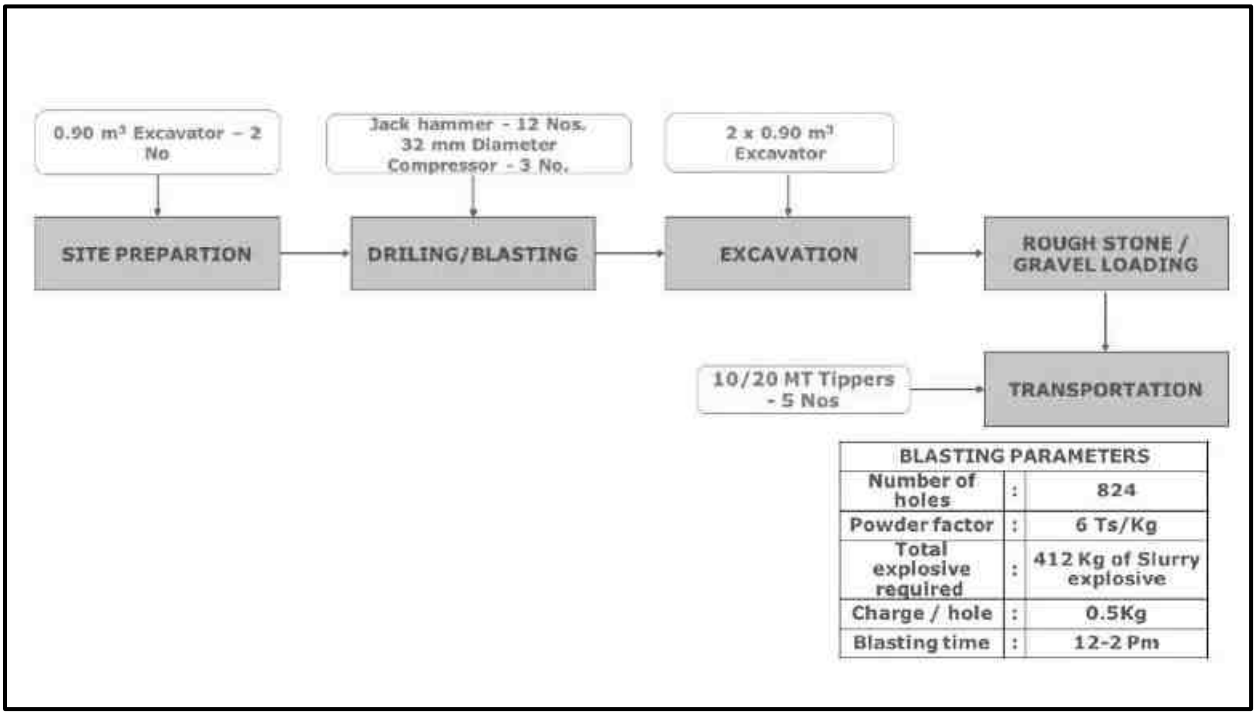


Figure 2.9 Process Flow Diagram

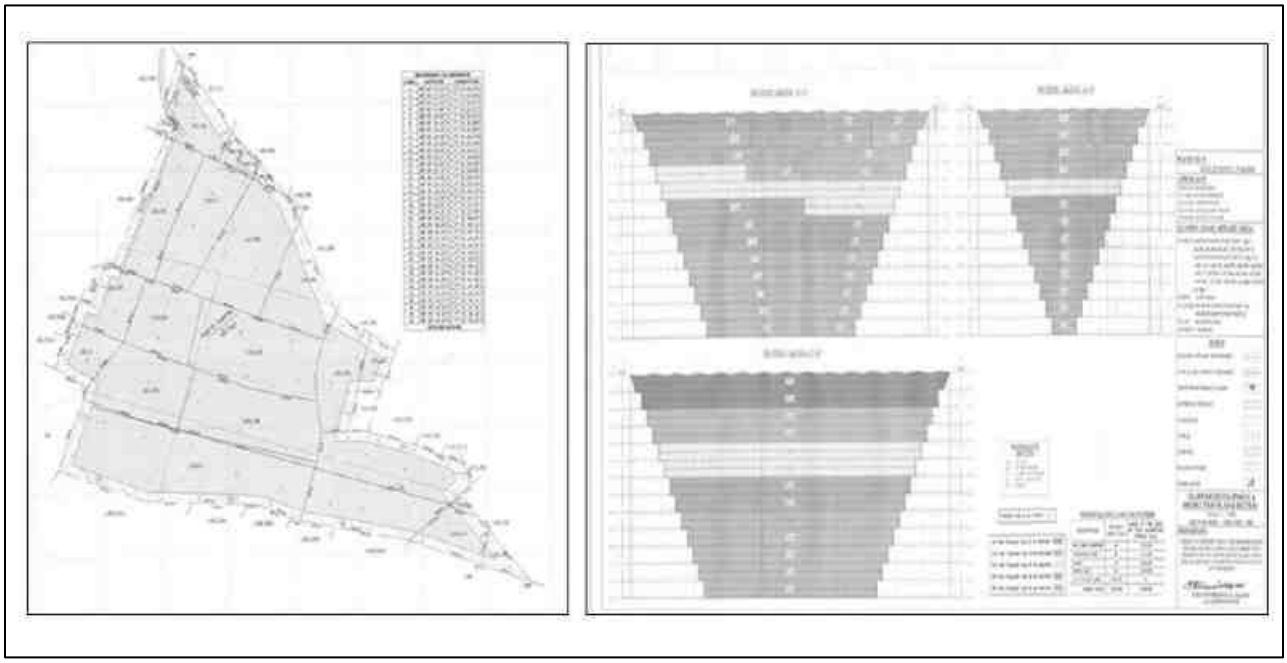


Figure 2.10 Year wise Development and Production Plan & Sections

(5 Years)

Table 2.9 – Machinery Details

S.No.	Name of the Equipment	Capacity	Requirement
1	Excavator with Rock breaker attachment	0.90 m^3	2
2	Compressor	400 psi	3
3	Jack hammer	32 mm Dia	12
4	Tipper	10/20 Ts	5

2.8.2 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	824
Powder factor	6Ts/Kg of Explosives
Total explosive required	412 Kg slurry Explosives
Charge / hole	0.5Kg
Blasting time	12-2 Pm

2.8.3 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 Explosive Agency to carry out the blasting operation for the proposed quarry.

2.8.4 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.

2.8.5 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 for 5 years

Year	Section	Bench	Length (m)	Width (m)	Depth (m)	Gravel (m^3)	Mineable Reserves in of rough stone (m^3)	Bulk Density	Gravel (Ts)	Mineable Reserves of rough stone (Ts)
I	XY-AB	I	169	147	5	124215	-	2.00	248430	-
		II	162	132	5	-	106920	2.75	-	294030.00
		III	157	122	5	-	95770	2.75	-	263367.50
	XY-CD	I	40	278	5	55600	-	2.00	111200	-
		II	40	263	5	-	52600	2.75	-	144650.00
Total						**179815**	**255290**	**-**	**359630**	**702047.50**
II	XY-CD	I	48	278	5	66720	-	2.00	133440	-
		II	40	263	5	-	52600	2.75	-	144650.00
		III	75	253	5	-	94875	2.75	-	260906.25
		IV	70	243	5	-	85050	2.75	-	233887.50
	XY-AB	IV	70	112	5	-	39200	2.75	-	107800.00
Total						**66720**	**271725**	**-**	**133440**	**747243.75**
III	XY-AB	IV	82	112	5	-	45920	2.75	-	126280.00

		V	147	102	5	-	74970	2.75	-	206167.50
		VI	20	92	5	-	9200	2.75	-	25300.00
	XY-CD	V	65	233	5	-	75725	2.75	-	208243.75
		VI	60	223	5	-	66900	2.75	-	183975.00
Total						**-**	**272715**	**-**	**-**	**749966.25**
IV	XY-AB	VI	122	92	5	-	56120	2.75	-	154330.00
		VII	137	82	5	-	56170	2.75	-	154467.50
		VIII	132	72	5	-	47520	2.75	-	130680.00
	XY-CD	VII	55	213	5	-	58575	2.75	-	161081.25
		VIII	50	203	5	-	50750	2.75	-	139562.50
Total						**-**	**269135**	-	**-**	**740121.25**
V	XY-AB	IX	127	62	5	-	39370	2.75	-	108267.50
		X	122	52	5	-	31720	2.75	-	87230.00
		XI	117	42	5	-	24570	2.75	-	67567.50
		XII	112	32	5	-	17920	2.75	-	49280.00
		XIII	107	22	5	-	11770	2.75	-	32367.50
	XY-CD	IX	45	193	5	-	43425	2.75	-	119418.75
		X	40	183	5	-	36600	2.75	-	100650.00
		XI	35	173	5	-	30275	2.75	-	83256.25
		XII	30	163	5	-	24450	2.75	-	67237.50
		XIII	25	153	5	-	19125	2.75	-	52593.75
Total						**-**	**279225**	**-**	**-**	**767868.75**
Grand Total						**246535**	**1348090**	**-**	**493070**	**3707247.50**

The applicant has proposed to carry out 13,48,090m^3 (37,07,247.50Ts) of Rough Stone and 2,46,535m^2 (4,93,070Ts) of Gravel formation upto a depth of 65m (below ground level) for the period of 5 years.

The Annual Peak production quantity of Rough Stone – 2,79,225m^3 (5th year) and 1,79,815m^3 (1st year) of gravel.

2.8.6 DISPOSAL OF WASTE

There is no waste anticipated in this Rough Stone Quarry. The entire quarried minerals will be utilized. 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.

2.9 CONCEPTUAL MINING PLAN / FINAL MINE CLOSURE PLAN

Conceptual mining plan is prepared with an object of 5 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 conceptual plan is given in Figure 2.12.

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

Ultimate Pit dimension (m) end of Mining plan Period			
Pit No	Length (max) in (m)	Width (Avg) in (m)	Depth(max) in (m)
I	278	181	65
Ultimate pit dimension End of the lease period			

Table 2.13 - Land use pattern of the Project site

Description	Present Area in Ha.	Area at the end of life of Quarry in Ha.
Quarrying pit	Nil	5.03.20
Infrastructure	Nil	0.01.00
Roads	Nil	0.02.00
Greenbelt	Nil	0.92.85
Unutilized	5.99.05	Nil
Total	**5.99.05**	**5.99.05**

- At the end of life of mine, the excavated mine pit / void of 5.03.20 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 (0.92.85 Ha.) will be developed along the safety barrier and top benches and 0.02 Ha are approach road and Infrastructure.

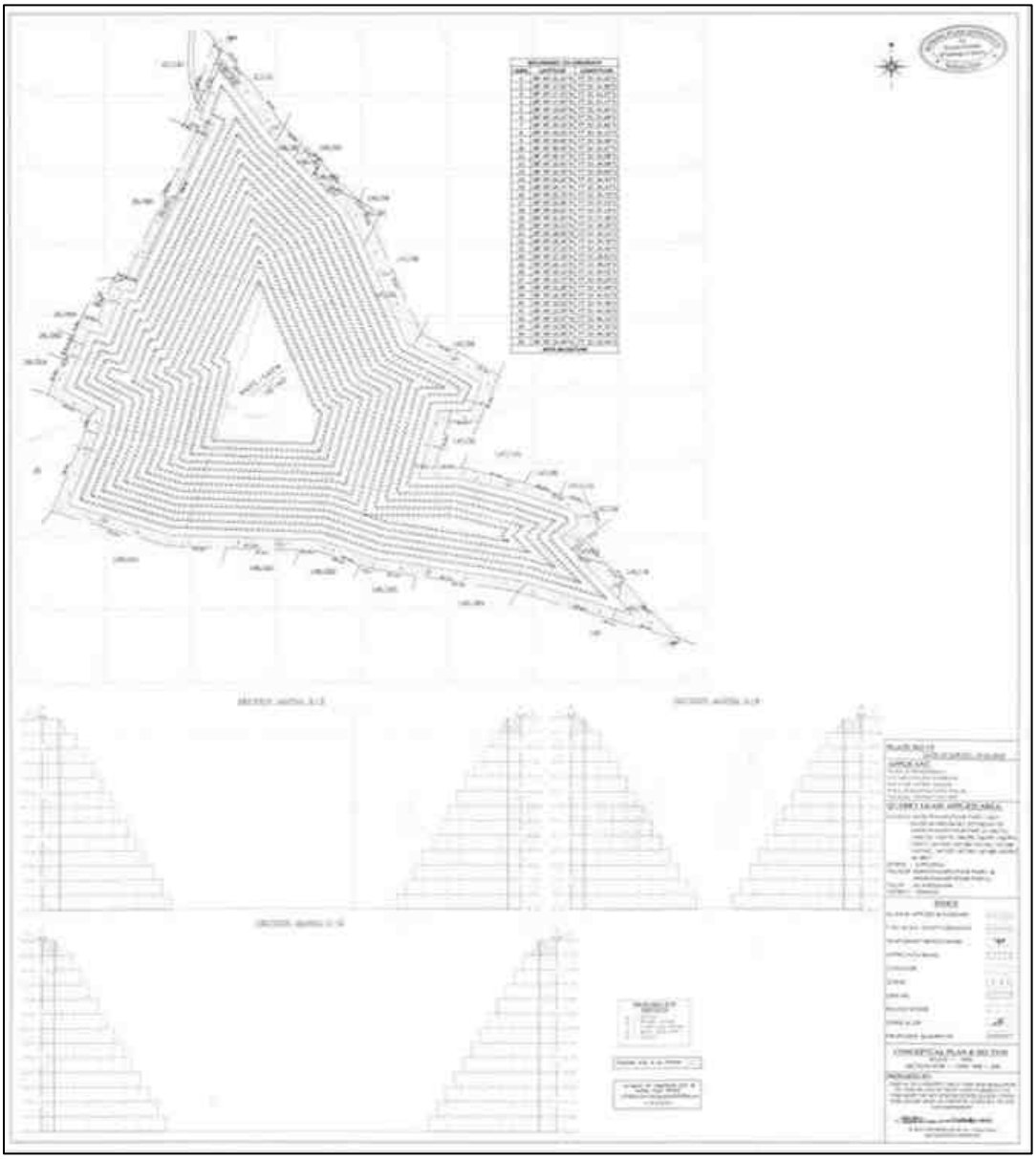


Figure 2.12 Conceptual Plan and Sections

2.10 PROJECT REQUIREMENT

2.10.1 WATER REQUIREMENT AND SOURCE

The total water requirement estimated for the quarry is 2.0 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	0.5
Dust Suppression	1.0
Greenbelt Development	0.5
Total	**2.0**

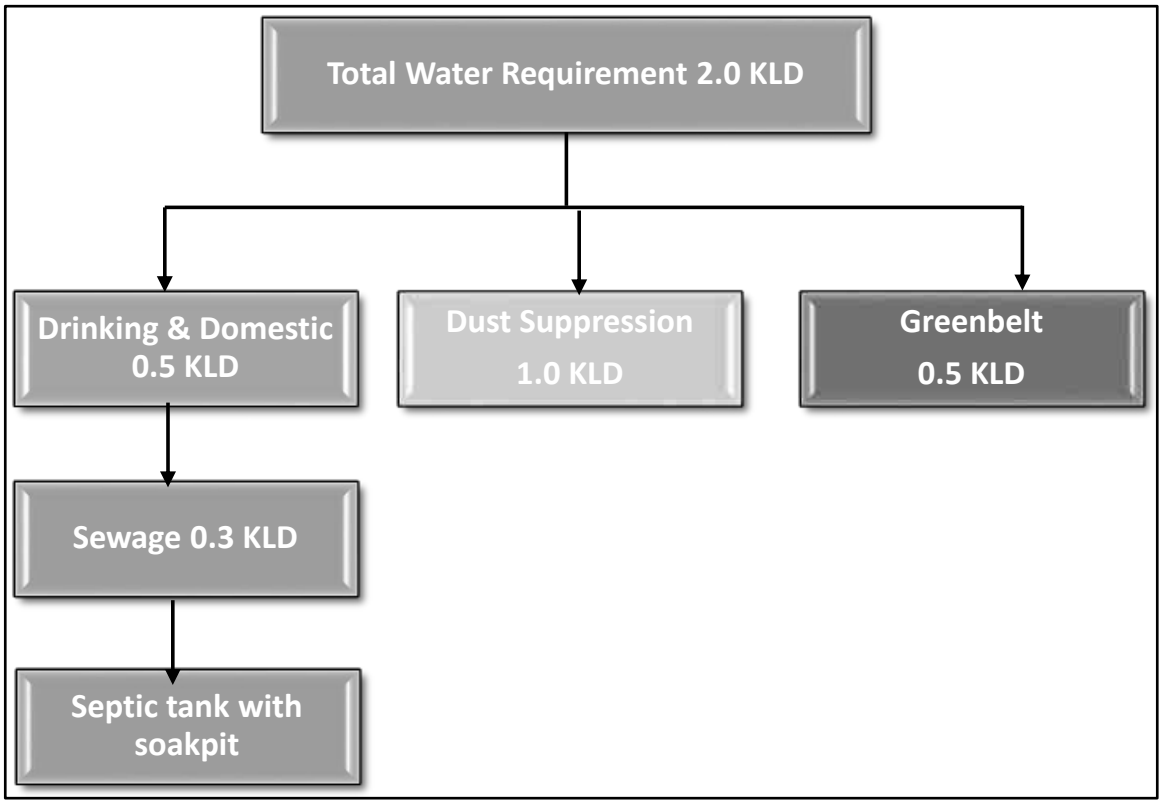


Figure 2.13 Water Balance Chart

2.10.2 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.

2.10.3 FUEL REQUIREMENT

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

Table 2.15 Details of Fuel (HSD) Requirement

i) For Gravel

Per hour excavator will consume	10 liters /hr
Per hour excavator will excavate	60m^3 of Gravel
For 2,46,535m^3	2,46,535/60 = 4,108.91
So, Diesel consumption	= 4,108.91 x 10 litres
	=41,089 litres of HSD

ii) For Rough Stone

Per hour excavator will consume	16 liters /hr
Per hour excavator will excavate	20m^3 of Rough Stone
For 13,48,090m^3	13,48,090 /20 = 67,404.5
So, Diesel consumption	= 67,404.5 x 16 litres
	=10,78,472 litres of HSD

The Total fuel consumption is around 1,119.561 KL of HSD for the entire period of life (5 Years).

2.10.4 EMPLOYMENT GENERATION

The project will provide employment opportunities totally to 18 persons directly and 17 indirectly.

Table 2.16 Details of Manpower requirement

1.	Skilled	Mines Manager	1 No.
		Foreman / Mate	2 No.
		Operator	14 No.
		Mechanic	1 No.
2.	Semi–skilled	Driver	5 No.
3.	Unskilled	Labours	12 Nos
Total			35 Nos

2.10.5 GREEN BELT REQUIREMENT

The safety zone, covering an area of 0.92.85 Hectares, will be maintained as a green belt and planted with 929 Nos. of local species.

2.10.6 VEHICULAR TRAFFIC DENSITY

The proposed quarry is located in Maruthamputhur Part-1 and Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State. The details of transport route from the quarry shown below:

Figure 2.15 Mineral Transportation Map

The vehicular traffic survey will be carried out in the route through which mined out minerals are transported. Within 500 m radius, there are two existing quarries and this proposed quarry. The final product from this quarry will be transported through (SH-40A) Kadayam - Mukkudal - 0.65Km (SW).

Methodology

Vehicle Count

The vehicles passing through the road (in both ways) were counted separately for 24 hours at the one elected 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)**

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 Summary on Traffic Volume

Route	Existing Traffic Survey in PCU	Incremental Traffic Survey due to project (cluster)	Total traffic survey volume	Hourly capacity in PCU as per IRC -1960 guidelines
(SH-40A) Kadayam - Mukkudal - 0.65Km (SW)	282	70	352	1500

Table 2.18 Modified Level of Service

Route	Existing Volume PCU/hr	Existing V/C Ratio	Additional Volume PCU/hr	Modified Volume PCU/hr	Modified V/C ratio	Modified LOS
(SH-40A) Kadayam - Mukkudal - 0.65Km (SW)	282	0.18	70	0.04	0.22	A*

2.10.7 INFRASTRUCTURE REQUIREMENT

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

2.10.8 PROJECT COST

The total project cost of this Rough Stone and Gravel Quarry is Rs. 156.633 lakhs

2.10.9 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 Maruthamputhur Part-1 and Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State over an extent of 5.99.05 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 M/s. Shrient Analytical & Research Labs Private Limited, Chennai it is an NABL and MOEF recognized laboratory for various components of environment, viz. Air, Noise, Water, Land was carried out during Summer Season i.e. March 2025 to May 2025 in the study area covering 10 km radial distance from the Rough Stone and Gravel mine. Other environmental data on flora and fauna, land-use pattern, forest etc. were also generated through field surveys and secondary information collected from different State Govt. departments. Sampling methods and analysis. Socio-economic survey was conducted, through interaction with the people, sarpanch and medical officers by floating questionnaires and collection of information are supported by census data for demographic structures, amenities, and infrastructure availability within the study area. Baseline values for various environmental components are discussed in this Chapter.

ENVIRONMENTAL SETTING OF THE STUDY AREA

Table 3.1 Description of the lease area

S.No.	Areas	Distance from project site
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Nil within 15km radius
2	Areas which are important or sensitive for ecological reasons	
A	Wetlands, water courses or other water bodies,	• Odai-280m (SW), • Odai-355m (NE),

		• Navaluthukulam Tank-6.9km (NE), • Mathavarayankulam Tank-7.0km (NE)
B	Coastal zone, biospheres,	Nil within 10km radius
C	Nil within 10km	Nil within 10km Radius
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	Mayamankurichi RF-8 km (NW), Kottamalai RF-6.4km(NE), Kavalkattu parambu RF6.6km(NE)
4	Inland, coastal, marine or underground waters	Nil within 10 km radius
5	State, National boundaries	Nil within 10 km radius
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Nil within 10 km radius
7	Defense installations	Nil within 10 km radius
8	Densely populated or built-up area	Maruthamputhur – 1.4 km - NW
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Alangulam – 5.0Km - NW
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.

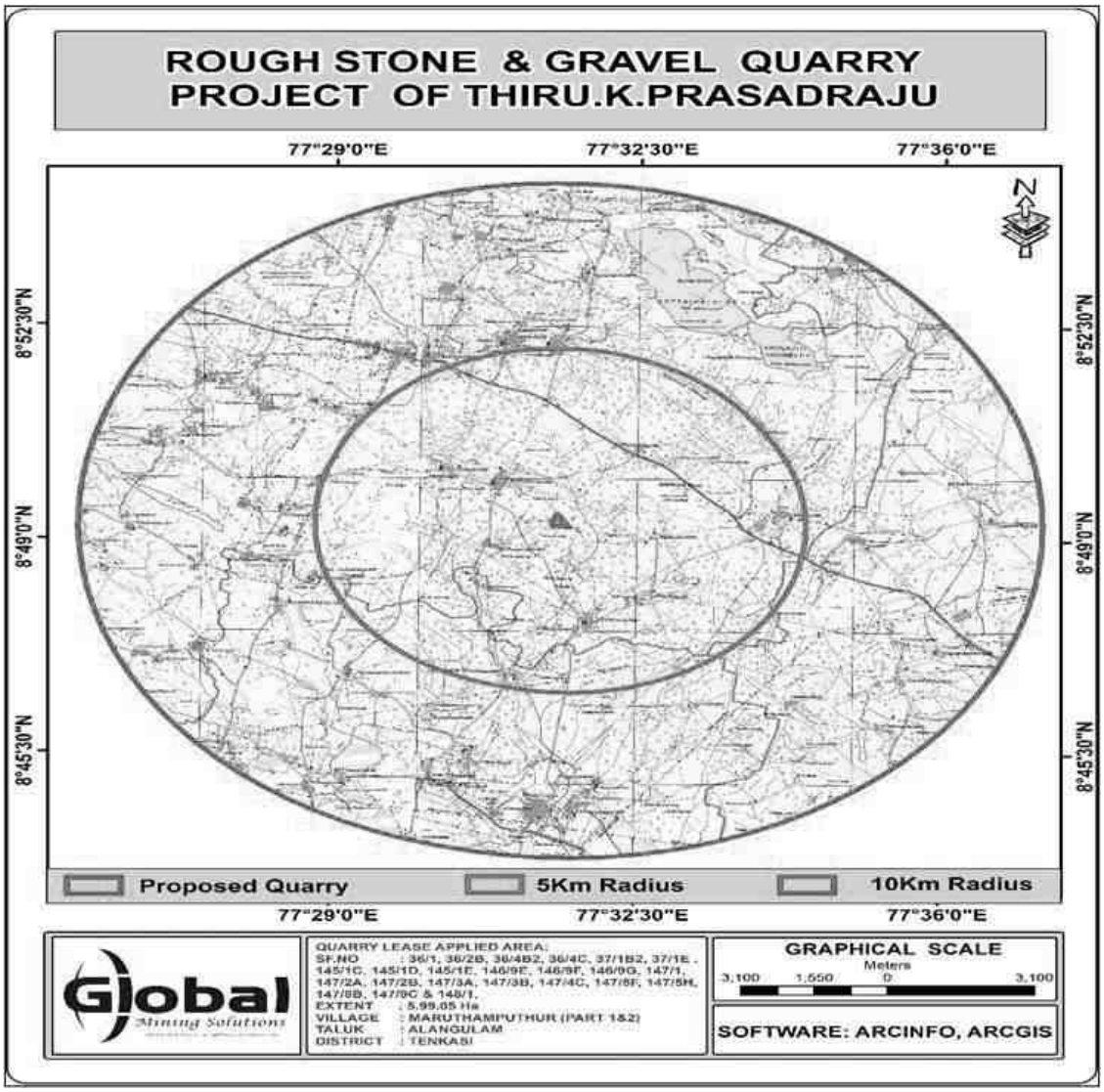


FIG 3.1 ENVIRONMENTAL SETTING OF THE STUDY AREA

STUDY PERIOD

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

3.2 ESTABLISHMENT OF BASELINE FOR VALUED ENVIRONMENTAL COMPONENTS:

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

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

BASELINE DATA COLLECTION

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

Baseline data collection During Post Monsoon Season (March., to May., 2025)

S.No.	Environmental Component	Primary data		
		Parameters	Frequency	Monitoring/ Sampling locations
1	Land	Agriculture, Habitation, Industry, Stony waste/ Quarries, Forest area, Plantation/ Vegetation, Open scrub, Water bodies etc.	Once in a Season	10 km radius study area
2	Meteorology	Temperature, Relative Humidity, Wind Speed, Wind Direction.	Hourly	1
3	Air	PM10, PM2.5, SO2, NO2, CO & PAH	twice a week (24 hourly)	7

4	Noise	Equivalent noise levels in Leq in dB (A)	Once in a season (day & night time)	7
5	Water	Parameters as per IS 10500 - 2012	Once in a season	
A	Surface Water	Parameters as per IS 10500 - 2012	Once in a season	3
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

INSTRUMENTS USED FOR ENVIRONMENTAL BASELINE DATA COLLECTION

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

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

3.3. BASE MAP OF ALL ENVIRONMENTAL COMPONENTS

(ENUMERATION OF THE STRUCTURES LOCATED WITHIN 300 m RADIUS FROM THE PROPOSED QUARRY SITE)

A site survey has been conducted to identify and list structures located within a 300 m radius from the proposed Quarry and are detailed below. There are no permanent approved structures within a 300 m radius from the project site. The PP has obtained a letter from Village Administrative Office (VAO), Maruthamputhur Part-1 and Maruthamputhur Part-2 stating that there are no structures situated within 300m radius. Study details will be incorporated in the final EIA report,

FIGURE 3.2 GOOGLE MAP SHOWING 50M INTERVALS WITHIN A 300M RADIUS

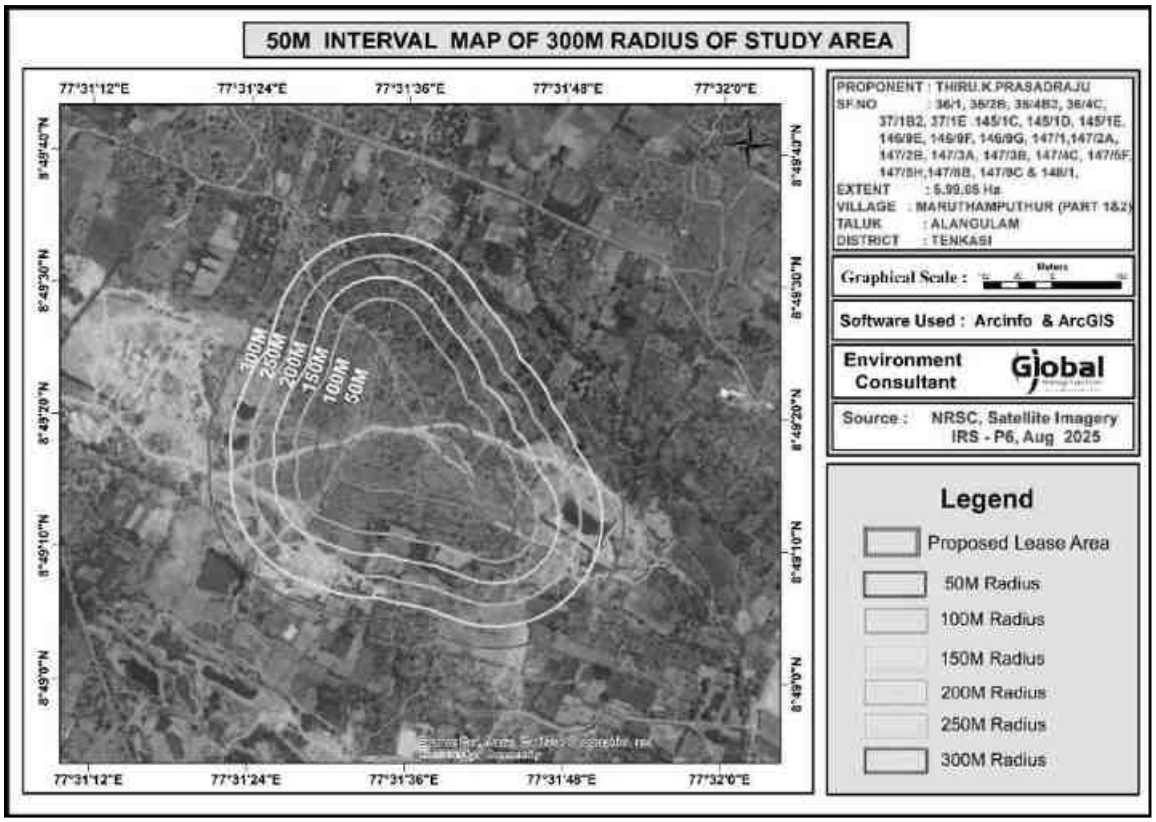
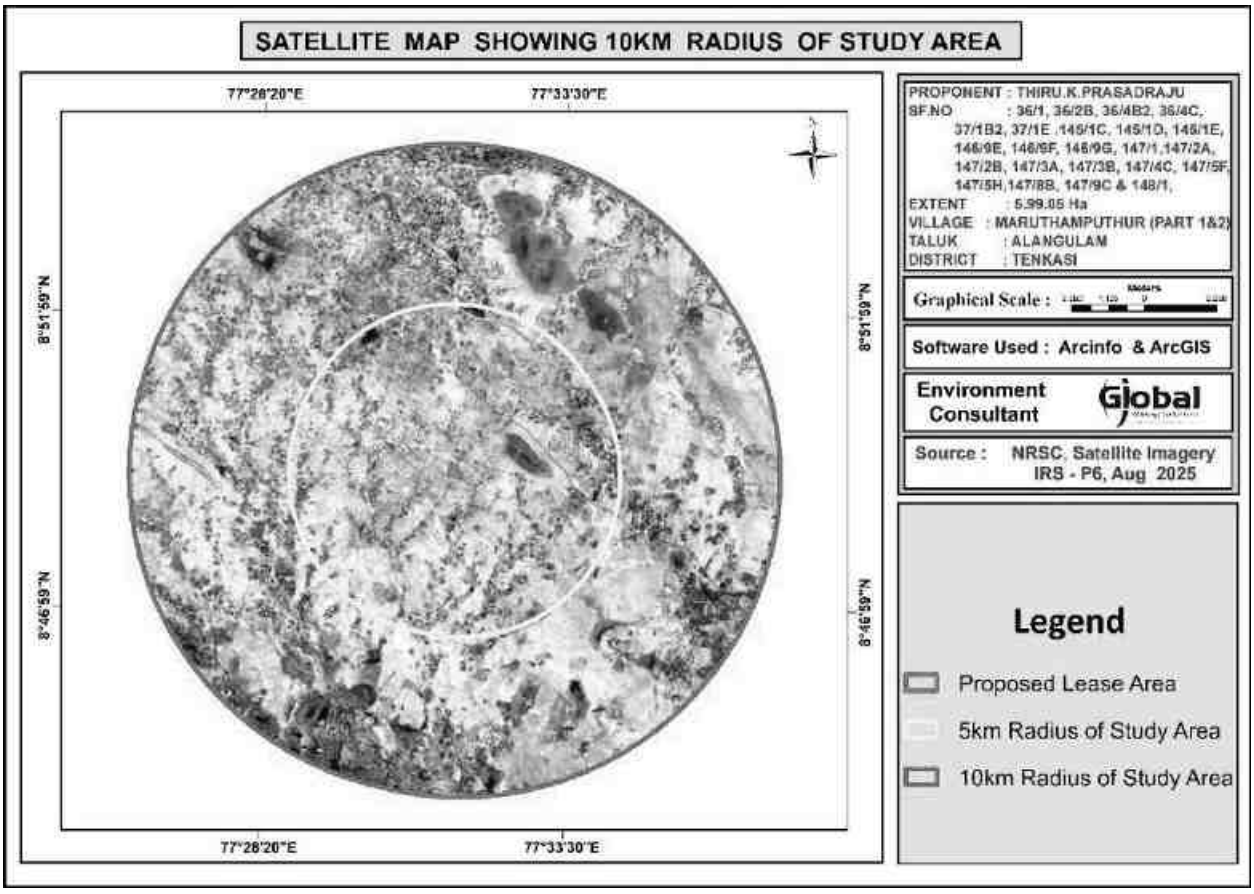


FIGURE - 3.5 SATELLITE MAP OF THE PROJECT AREA (10 KM RADIUS)



3.3.1 METEOROLOGICAL ENVIRONMENT

Meteorological conditions prevailing in the buffer zone is given below

Climate

Tenkasi has a tropical climate with hot summers (March-May), high humidity, and significant rainfall from both the Southwest (June-Sept) and Northeast (Oct-Dec) monsoons, making October/November the wettest months, while January is relatively cooler. Temperatures generally hover around 30°C (86°F), peaking in May, and it's known for its agricultural seasons tied to these monsoons.

Rainfall

The average annual rainfall and the 3 years rainfall collected from TN, TWAD Board is as follows:

Table 3.2 - Annual Rainfall Variation

Years	2021	2022	2023	2024 (30-09-2024	Normal Rainfall in mm
Rainfall in mm	779.7	855	1243.4	485.6	872.5

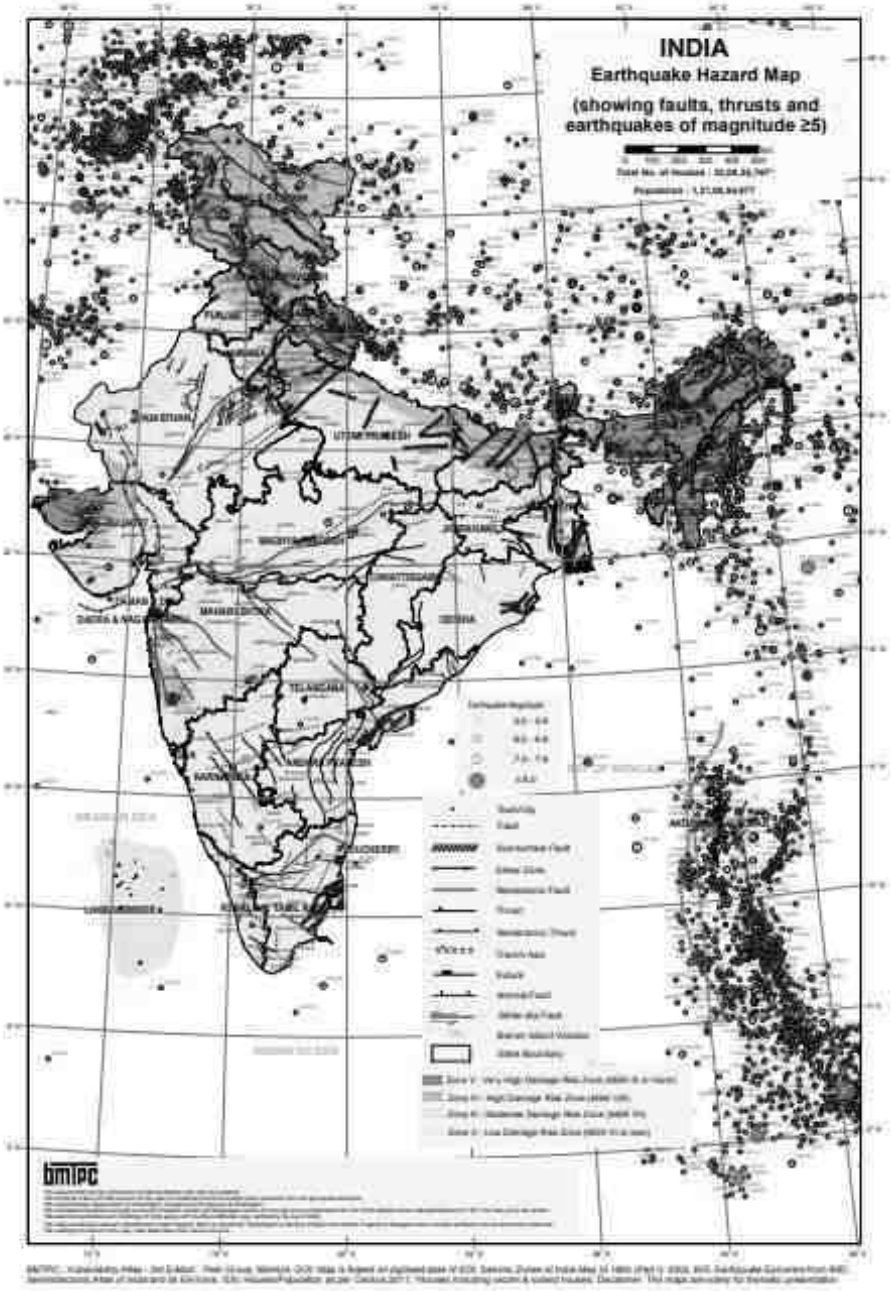
Relative Humidity

The current relative humidity in Tenkasi, Tamil Nadu, is around 73-88%, fluctuating throughout the day and night. Generally, Tenkasi is a very humid place year-round, with average monthly humidity often exceeding 80% during peak rainy seasons.

Seismic information

The study area falls in Zone II, which comes under the least active zone. The seismic map of India is given as Fig 3.6.

FIG 3.6 SEISMIC MAP OF INDIA


INDIA
Earthquake Hazard Map
(showing faults, thrusts and earthquakes of magnitude ≥5)
bmtpc

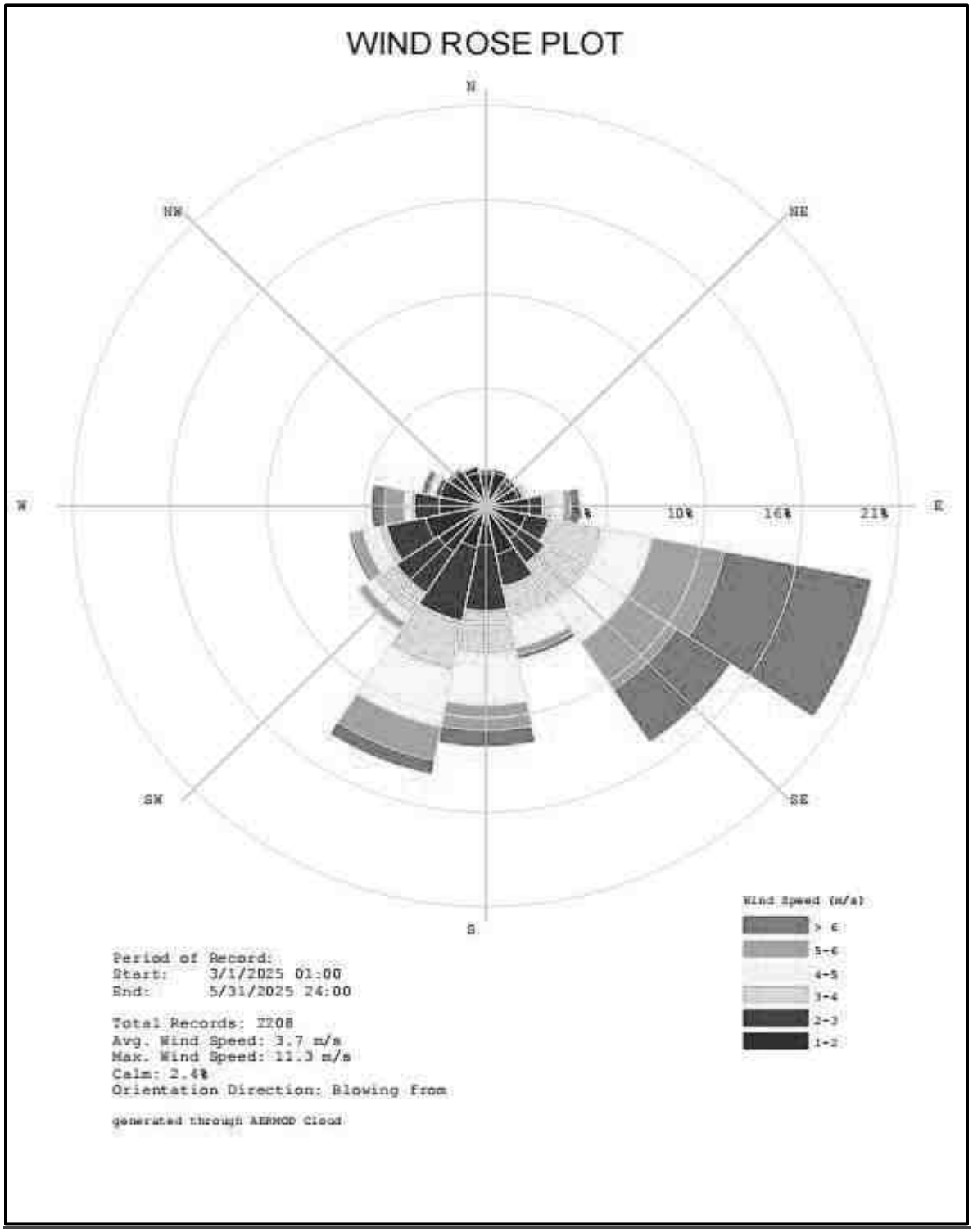


FIG 3.7 WIND ROSE PLOT DURING MARCH TO MAY 2025

Meteorological data of the project area

The meteorological data collected in the study area from March 2025 to May 2025 which includes Temperature, Wind speed, Wind direction and Relative humidity. The predominant wind blows from SES. The temperature of the area is reported to be 23°C and 40°C during summer.

Table 3.3 Meteorological Data Recorded at Site

S.NO	Parameters		March to May 2025
1.	Temperature (^{0}C)	Min	21
		Max	43
		Avg	30
2.	Relative Humidity (%)	Min	18
		Max	96
		Avg	62
3.	Wind Speed (m/s)	Min	0
		Max	11.3
		Avg	3.7
4.	Wind Direction	Blowing From – SES	

3.3.2 AMBIENT AIR MONITORING DATA

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

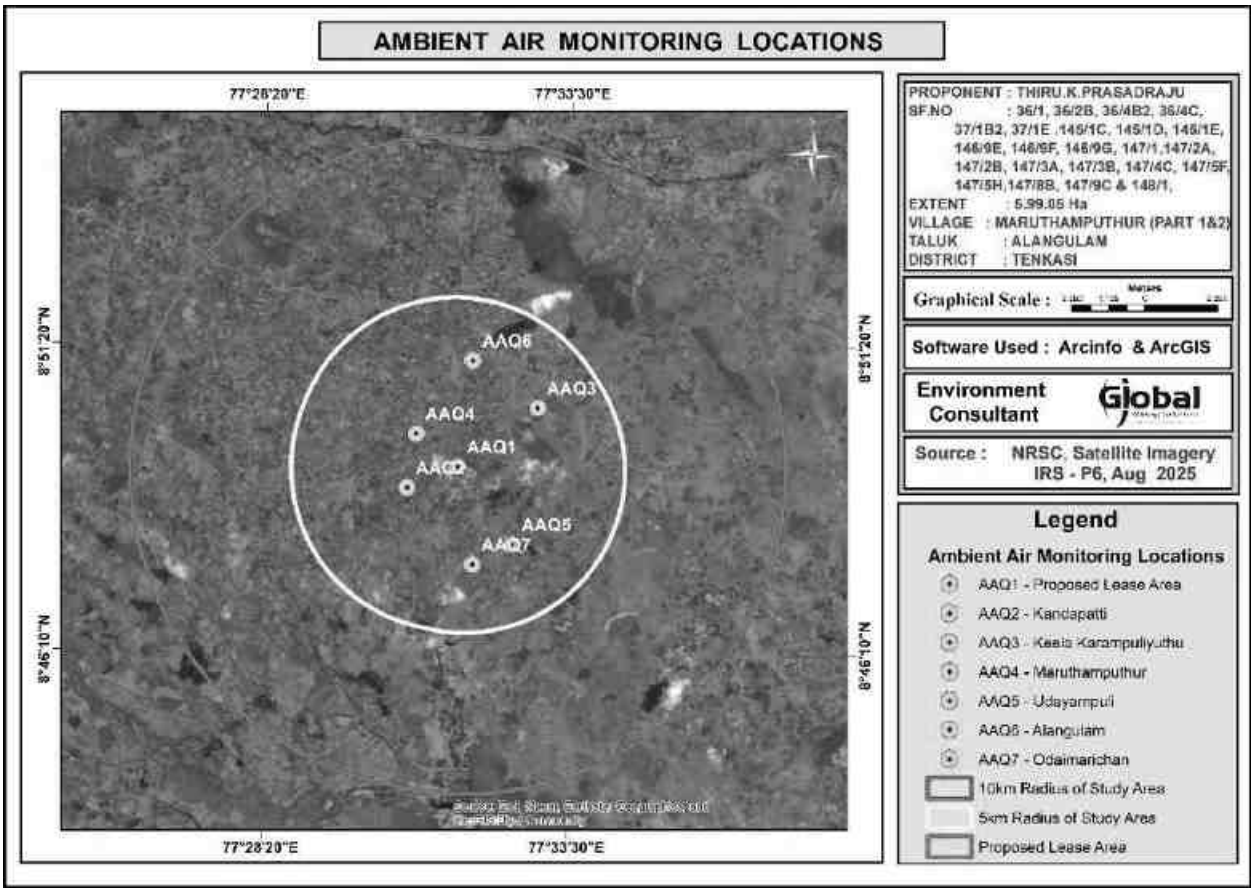
The regional climatologically data, was used as a guideline to know the predominant wind direction during study period. The locations were identified keeping in view predominant wind directions prevailing during study period, sensitive receptors, human settlements, and mining activities around.

The levels of Respirable Particulate Matter (PM10), Fine Particulates (PM2.5), Sulphur Dioxide (SO_2) 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 SO_2 & 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 – 3.4 and Figure 3.8 below.

Table 3.4: Details Of Ambient Air Quality Monitoring Locations

S.NO.	Station Code	Locations	Distance & Direction	Coordinates
1	AAQ 1	Within Mine Lease area	Core Zone	8°49’18.72”N & 77°31’35.35”E
2	AAQ 2	Kandapatti	1.42Km - SW	8°48’55.81”N & 77°30’46.20”N
3	AAQ 3	Keela Karumpuliyuthu	3.05Km - NE	8°50’18.76”N & 77°32’56.57”N
4	AAQ 4	Maruthamputhur	1.55Km - NW	8°49’50.20”N & 77°30’55.05”E
5	AAQ 5	Udayampuli	2.66Km - SE	8°48’2.03”N & 77°32’33.82”E
6	AAQ6	Alangulam	3.3Km - N	8°51’6.09”N & 77°31’50.11”E
7	AAQ7	Odaimarichan	2.92Km - S	8°47’39.54”N & 77°31’53.08”E

FIG 3.8 BASE MAP OF AMBIENT AIR MONITORING LOCATIONS

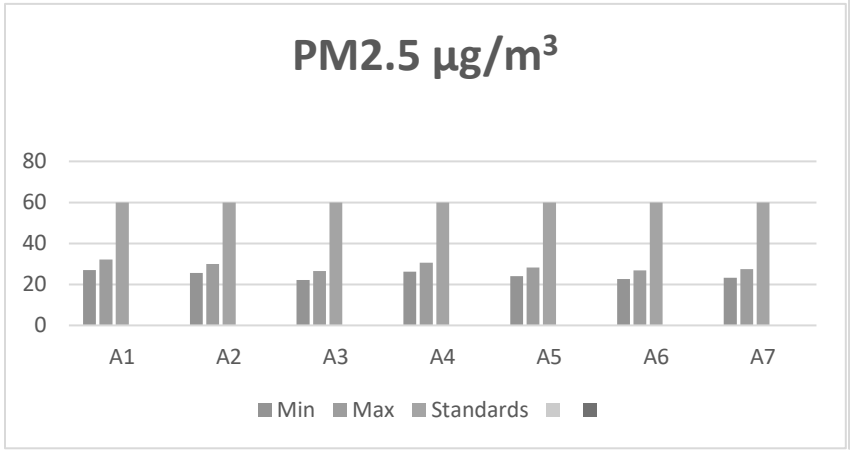


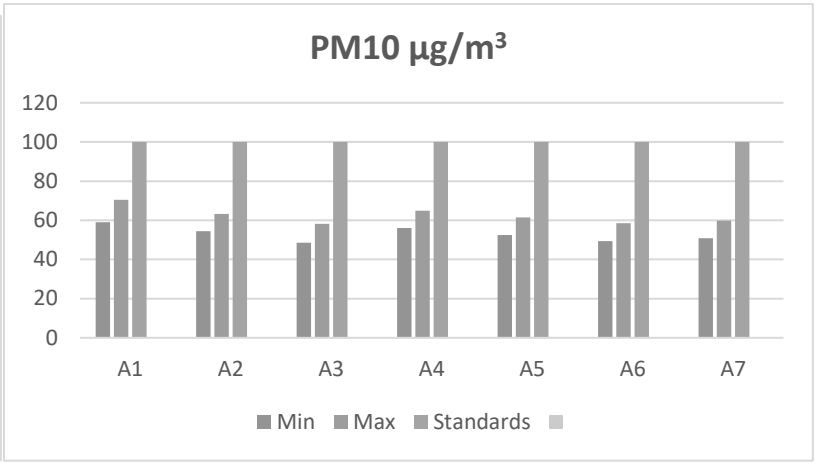
The concentrations of various air pollutants at the 7 locations are given below. For all the components in the table, the unit are in $\mu g/m^3$.

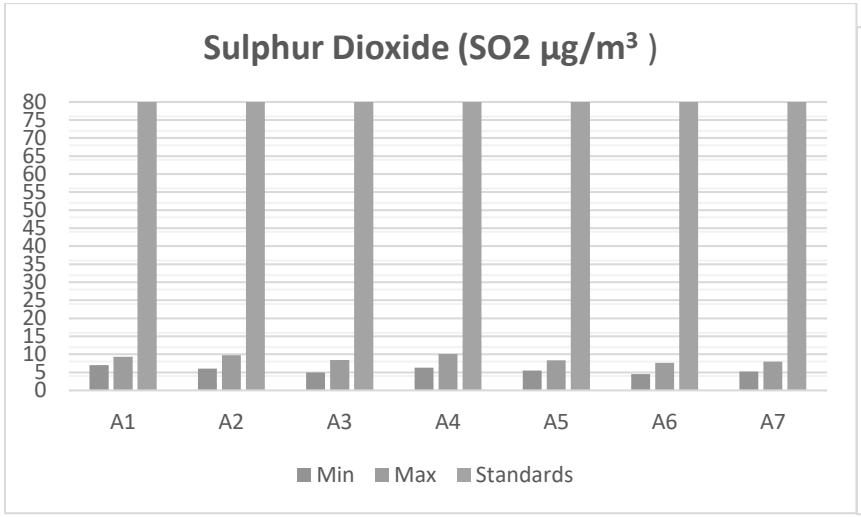
Table.3.5 Results of Air sampling Analysis in 7 locations

Station ID	Min	Max	Avg
Particulate matter PM-$_{2.5}$ ($\mu g/m^3$)			
AAQ-1	28.21	37.73	32.99
AAQ-2	17.0	23.5	20.20
AAQ-3	22.71	30.9	26.29
AAQ-4	23.52	31.93	27.46
AAQ-5	17.97	23.0	20.14
AAQ-6	23.52	31.93	27.46
AAQ-7	23.11	31.3	26.66
CPCB NAAQS 2009 for PM $_{2.5}$ - 60 $\mu g/m^3$			
Particulate matter PM-$_{10}$ ($\mu g/m^3$)			
AAQ-1	61.3	82.0	71.7
AAQ-2	37.0	50.8	43.90
AAQ-3	49.1	65.3	57.19
AAQ-4	50.1	68.0	58.47
AAQ-5	39.1	48.3	43.72
AAQ-6	50.1	68.0	58.47
AAQ-7	50.5	66.2	58.12
CPCB NAAQS 2009 for PM $_{10}$ - 100 $\mu g/m^3$			
Sulphur Di-oxide as SO_2 ($\mu g/m^3$)			
AAQ-1	5.1	11.4	7.97
AAQ-2	3.3	5.8	4.58
AAQ-3	4.9	9.5	7.2
AAQ-4	5.7	10.6	8.02
AAQ-5	4.4	9	6.71
AAQ-6	5.7	10.6	8.02
AAQ-7	5.1	9.7	7.4
CPCB NAAQS 2009 for SO_2 – 80 $\mu g/m^3$			
Oxide of Nitrogen as NO_2 ($\mu g/m^3$)			
AAQ-1	8.4	12.8	10.52
AAQ-2	6.7	9.0	7.85
AAQ-3	8.1	12.6	10.32
AAQ-4	8.6	13.2	10.91
AAQ-5	5.9	10.6	8.3
AAQ-6	8.6	13.2	10.91
AAQ-7	8.5	13.1	10.83
CPCB NAAQS 2009 for NO_2 – 80 $\mu g/m^3$			

The results are summarized in graph and given as below Figures.







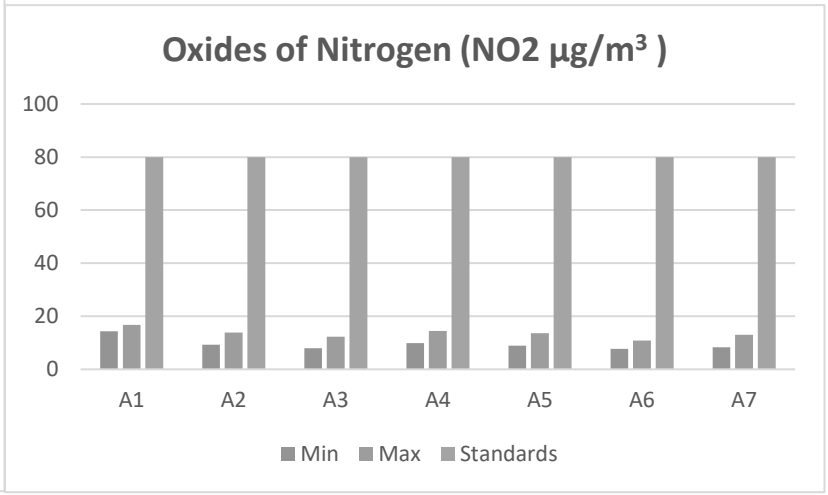


FIG 3.9 GRAPHICAL REPRESENTATION OF AIR QUALITY DATA

Discussion

From the table it is seen that, in core zone, the PM10 values were in the range of 61.30 – 82.0 µg/m^3. PM2.5 values in the range of 28.21 – 37.73 µg/m^3. SO_2 levels were ranging from 5.1 – 11.4 µg/m^3 and NO_2 levels were ranging from 8.4 – 12.8 µg/m^3. In buffer zone, the PM10 values were in the range of 37.0 – 68.0 µg/m^3. PM2.5 values were in the range of 17.0 – 31.93 µg/m^3. SO_2 levels were ranging from 3.3 – 10.6 µg/m^3. NO_2 levels were ranging from 5.9 – 13.2 µg/m^3. While comparing with the NAAQ Norms laid by MoEF, all monitored values of PM10, PM2.5, SO_2, NO_2 & CO were found to be well within the prescribed standards. The CO values in the all locations found to be below detectable limit (DL – 2.0 µg/m^3). The maximum value of all four parameters is observed in the mine lease area. The main contributing factor is the presence of another existing crusher unit located adjacent to the project site.

3.3.3 WATER ENVIRONMENT

Assessment of baseline data on water environment includes:

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

Surface Water

There are two water bodies within 1 km radius. The other major water bodies in buffer are given below.

- Odai-280m (SW),
- Odai-355m (NE),
- Navaluthukulam Tank-6.9km (NE),
- Mathavarayankulam Tank-7.0km (NE)

Ground Water

The groundwater exploration in the district down to a depth of 200m bgl has revealed that in the western part of the district potential fractures are encountered beyond 100m bgl while in the rest of the area, potential fractures are restricted to 100m bgl. The yield of the wells varies from 1 to 3.6 lps. In general, the wells drilled by various State agencies mainly for domestic purposes have yield in the range of 63 to 270 lpm.

The depth to water level in the district varied between 1.19 to 13.35 m bgl during pre- monsoon depth to water level (May 2006) and varied between 0.18 to 7.97 m bgl during post monsoon depth to water level (Jan 2007). The seasonal fluctuation shows a fall in water level, which ranges from –0.12 to –2.14 m bgl, and rise in water level, which ranges from 0.33 to 11.24 m bgl. The piezometric head varied between 1.72 to 13.65 m bgl (May 2006) during pre monsoon and 0.47 to 13.25 m bgl during post monsoon.

The scenario of ground water in Alangulam Taluk, Tenkasi District, is given below.

		Ground Water Level Status in Alangulam Taluk							
S. No.	Firka	Net Groundwater Availability (M.Cu.m)	Existing Gross Draft for Irrigation (M.Cu.m)	Existing Gross Draft for Domestic and industrial water supply (M.Cu.m)	Existing Gross Draft for all uses (M.Cu.m)	Allocation for Domestic and Industrial Requirement supply up to next 25 years (2029) (M.Cu.m)	Net groundwater Availability for future Irrigation Development (M.Cu.m)	Stage of Ground water Development (%)	Category
1	Alangulam	46.92	34.77	2.21	36.98	2.29	9.86	79	Semi Critical

Source:nwm.gov.in

Total Sevan (07) ground water monitoring locations were identified for assessment in different villages around the project site based on the usage of sub surface water by the settlements/ villages in the study area. The groundwater results are compared

with the acceptable and permissible water quality standards as per IS: 10500 (2012) for drinking water. Groundwater quality monitoring locations and results are given in Table 3.6 and Figure 3.10.

Sampling Locations

Sevan (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 3.6 and shown as Figure 3.11.

The monitoring locations were selected based on:

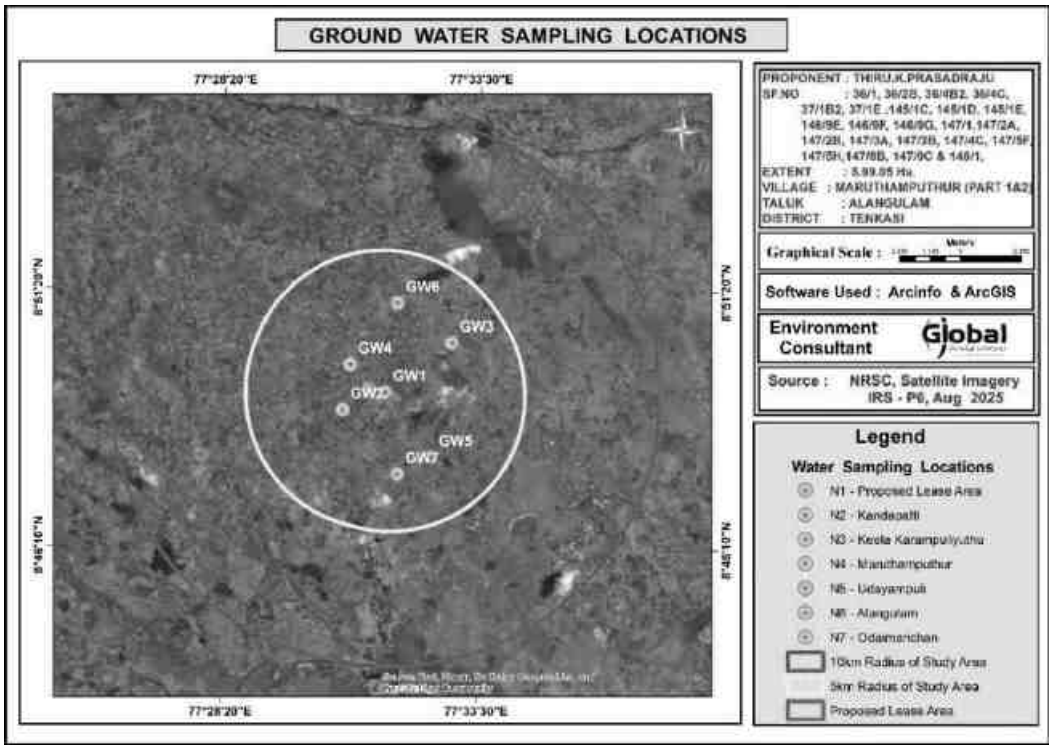
- Location of the major water bodies
- Location of project site,
- Likely areas that can represent baseline conditions

  Water bodies nearby

Table 3.6 Water Sampling Locations

S.NO	Location Code	Monitoring Locations	Latitude and longitude
Ground Water			
1	GW1	Within Mine Lease area	8°49’18.72”N & 77°31’35.35”E
2	GW2	Kandapatti	8°48’55.81”N & 77°30’46.20”N
3	GW3	Keela Karumpuliyuthu	8°50’18.76”N & 77°32’56.57”N
4	GW4	Maruthamputhur	8°49’50.20”N & 77°30’55.05”E
5	GW5	Udayampuli	8°48’2.03”N & 77°32’33.82”E
6	GW6	Alangulam	8°51’6.09”N & 77°31’50.11”E
7	GW7	Odaimarichan	8°47’39.54”N & 77°31’53.08”E

FIG 3.10 BASE MAP OF GROUND WATER SAMPLING LOCATIONS



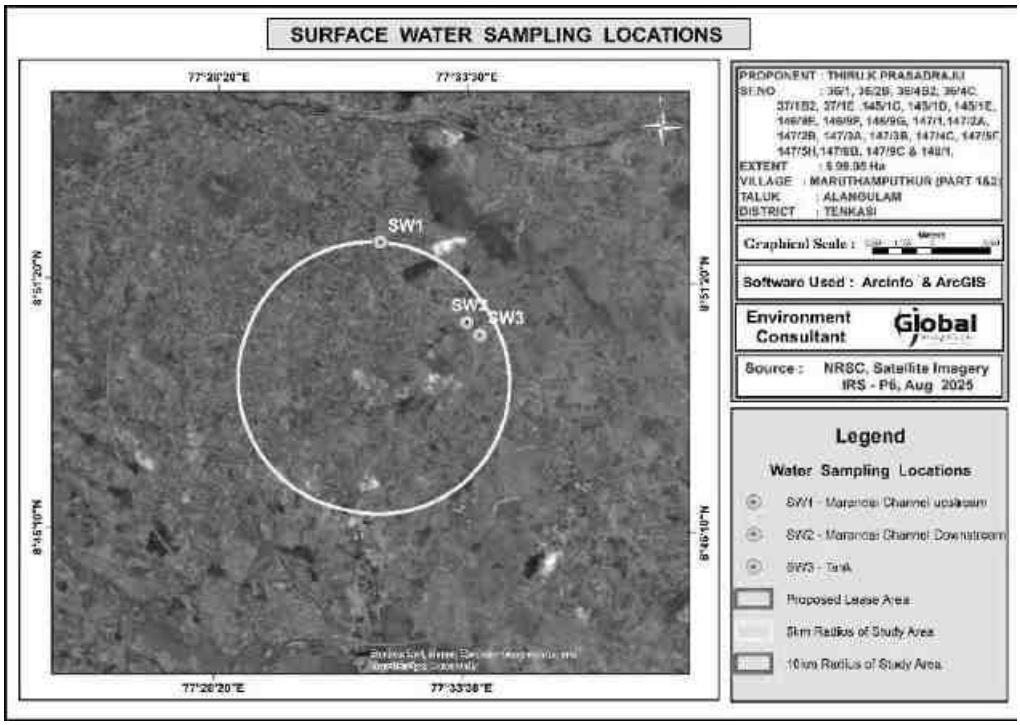


Table 3.8 Ground Water Analysis Results								Standards as Per IS 10500: 2012	
Parameter	**W1**	**W2**	**W3**	**W4**	**W5**	**W6**	**W7**	**Acceptable Limits**	**Permissible Limits**
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity	<1	<1	<1	<1	<1	<1	<1	1	5
pH at 25 ˚C	7.96	7.56	7.94	8.02	7.55	7.52	7.36	6.5- 8.5	No Relaxation
Electrical Conductivity	849.2	1217	1016	720.4	821.8	1515	1211	-	-
Total Dissolved Solids	522	735	618	436	498	910	730	500	2000
Total hardness (as $CaCO_3$)	272	492	142	216	276	230	392	200	600
Calcium (as Ca)	45.5	106	27.4	48	69.6	42.0	85.6	75	200
Magnesium (as Mg)	38	54.5	17.6	23	24.5	30.1	42.7	30.0	100
Calcium Hardness (as $CaCO_3$)	114	265	68.5	120	174	105	214	-	-
Magnesium Hardness (as $CaCO_3$)	158	227	73.5	96	102	125	178	-	-
Total alkalinity (as $CaCO_3$)	335	286	193	212	235	390	199	200	600
Chloride (as Cl)	112	210	232	126	144	315	257	250	1000
Free Residual chlorine	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	0.2	1
Sulphate as (SO_4^{2-})	73.6	116	182	49.8	52.3	270	214	200	400
Iron (as Fe)	0.05	0.07	0.03	0.05	0.04	0.07	0.03	0.3	No Relaxation
Nitrate (as NO_3)	1.85	2.28	2.44	BDL (D.L - 1.0)	BDL (D.L - 1.0)	4.56	4.05	45	No Relaxation
Fluoride (as F)	0.63	0.59	0.47	0.44	0.56	0.49	0.58	1	1.5
Manganese (as Mn)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	0.1	0.3

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

FIG 3.12 GRAPHICAL REPRESENTATION OF GROUND WATER ANALYSIS

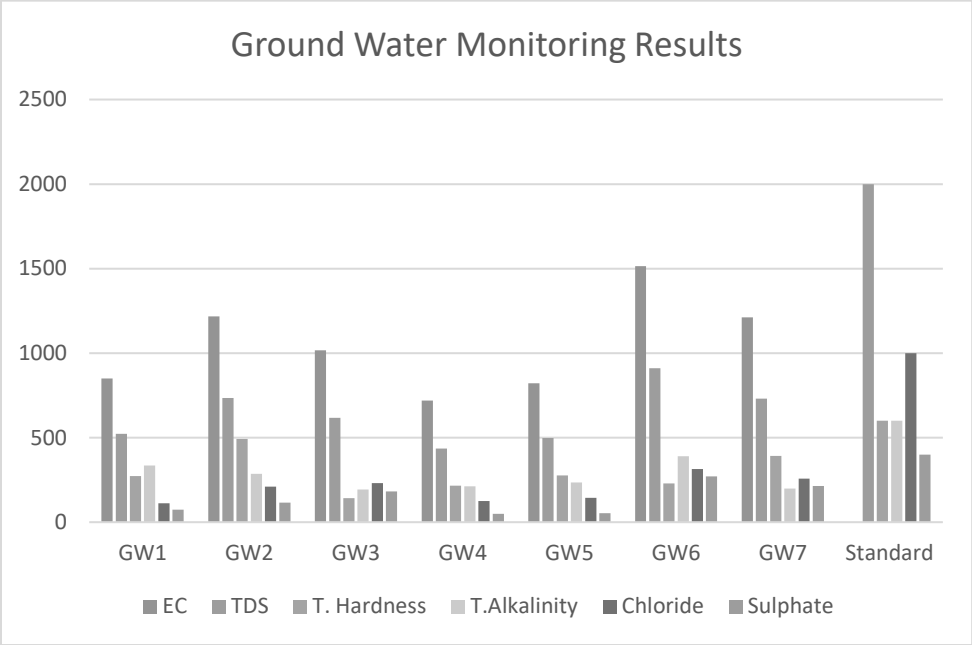


FIG 3.13 GRAPHICAL REPRESENTATION OF SURFACE WATER ANALYSIS

Discussion

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 7.36 – 8.02, Chlorides Ranges From 112 - 315 mg/l, Sulphates value found to be between 49.8 – 270 mg/l, Fluoride value varies from 0.44 – 0.63 mg/l, Total Hardness varies from 142 – 492 mg/l, and Total dissolved solid 436 – 910 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.

3.3.4 NOISE MONITORING

The vehicular movement on road and mining activities is the major sources of noise in study area, the environmental assessment of noise from the mining activity and vehicular traffic can be undertaken by taking into consideration various factors like potential damage to hearing, physiological responses, and annoyance and general community responses.

Sampling Locations

In order to assess the ambient noise levels within the study area, noise monitoring was carried out at Sevan (7) locations. The noise level of monitoring locations were carried out by covering 10 km radius of the project area. A noise monitoring methodology was chosen such that it best suited the purpose and objectives of the study. The noise monitoring locations are given in Figure 3.14 and in below table.

Table 3.9 Noise Monitoring Locations

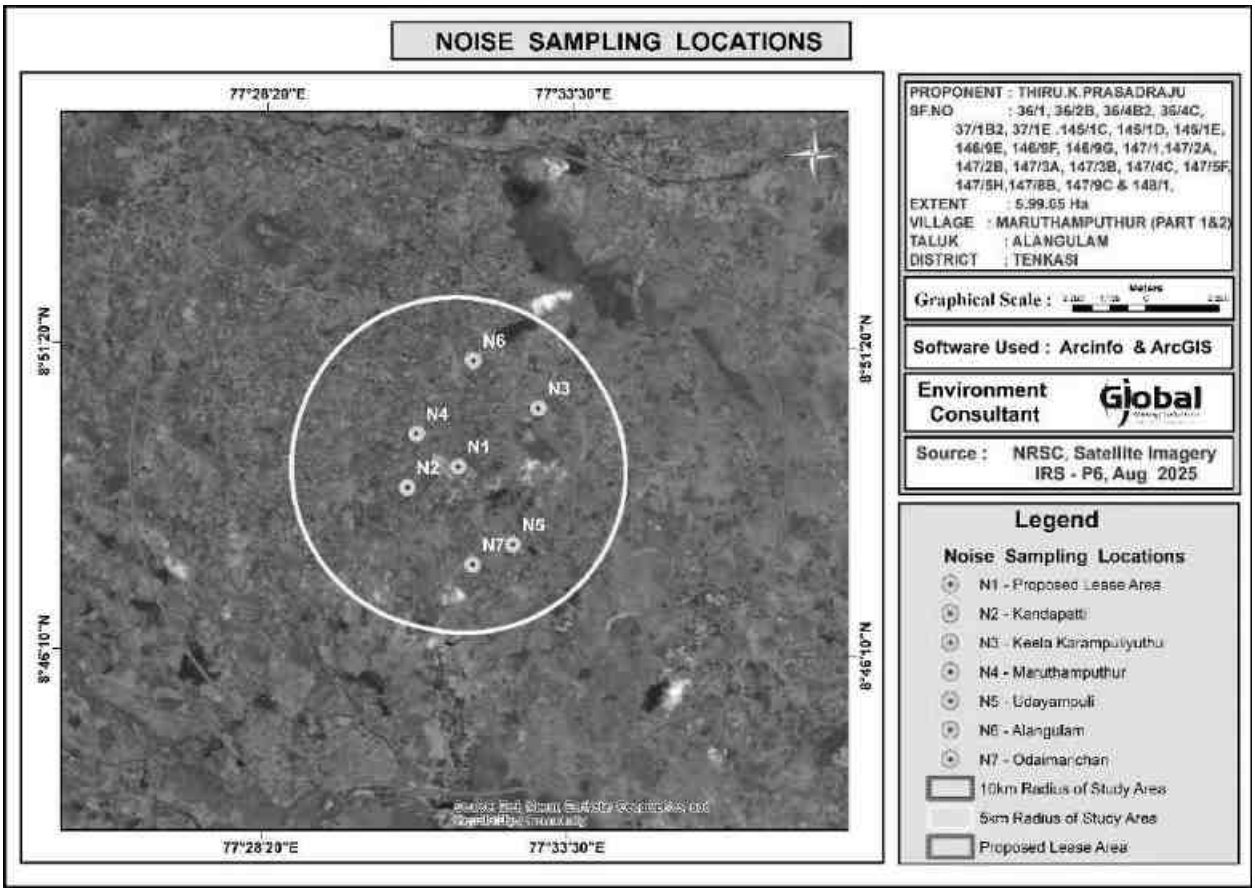
S.NO	Location Code	Monitoring Locations	Latitude and longitude
1	N1	Within Mine Lease area	8°49’18.72”N & 77°31’35.35”E
2	N2	Kandapatti	8°48’55.81”N & 77°30’46.20”N
3	N3	Keela Karumpuliyuthu	8°50’18.76”N & 77°32’56.57”N
4	N4	Maruthamputhur	8°49’50.20”N & 77°30’55.05”E

5	N5	Udayampuli	8°48’2.03”N & 77°32’33.82”E
6	N6	Alangulam	8°51’6.09”N & 77°31’50.11”E
7	N7	Odaimarichan	8°47’39.54”N & 77°31’53.08”E

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

The noise monitoring locations are given in Fig 3.14

FIG 3.14 BASE MAP OF NOISE MONITORING LOCATIONS



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.

Noise Monitoring Result

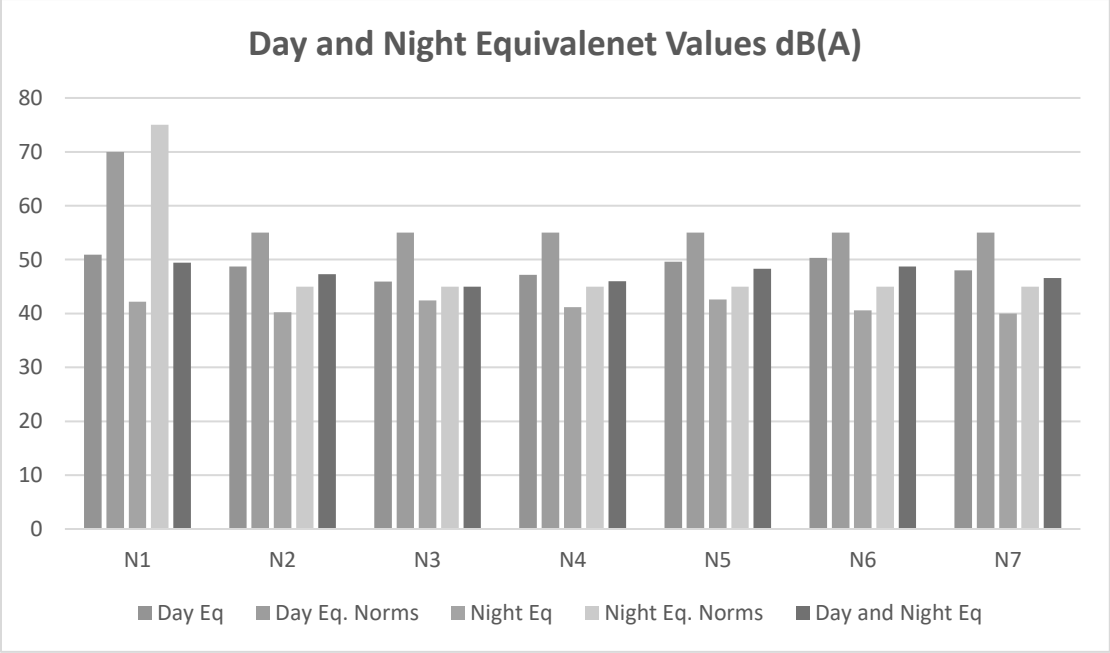
An analysis of the different Leq data obtained during the study period has been made. Variation was noted during the day-time as well as night-time. The results are presented in below Table 3.10.

Table 3.10 Noise Monitoring Result

Monitoring Location	N1	N2	N3	N4	N5	N6	N7
DAY EQUIVALENT	50.9	48.7	45.9	47.2	49.6	50.3	48.0
NIGHT EQUIVALENT	42.2	40.2	42.4	41.2	42.6	40.6	40.0
DAY & NIGHT EQUIVALENT	49.4	47.3	45.0	46.0	48.3	48.7	46.6
Limits as per MoEF&CC							
Day equivalent - 55 dB (A); Night equivalent - 45 dB (A); Work zone Exposure in 8 hr - 90 dB (A)							

The results are plotted as below.

FIG 3.15 DAY AND NIGHT EQUIVALENT VALUES IN 7 LOCATIONS



Discussion

From the table it is observed that the day Equivalent Noise (Leq-d) level were ranging from 45.9 to 50.9 dB(A) and Night Equivalent Noise (Leq-n) level were ranging from 40.0 to 42.6 dB(A). Day and Night Equivalent Noise (Leq-n) level were ranging from 45.0 to 49.40 dB(A). While comparing with the MoEF Norm of 55 dB(A) for day time and 45 dB(A) for night time, the monitored ambient noise levels are within the limit values.

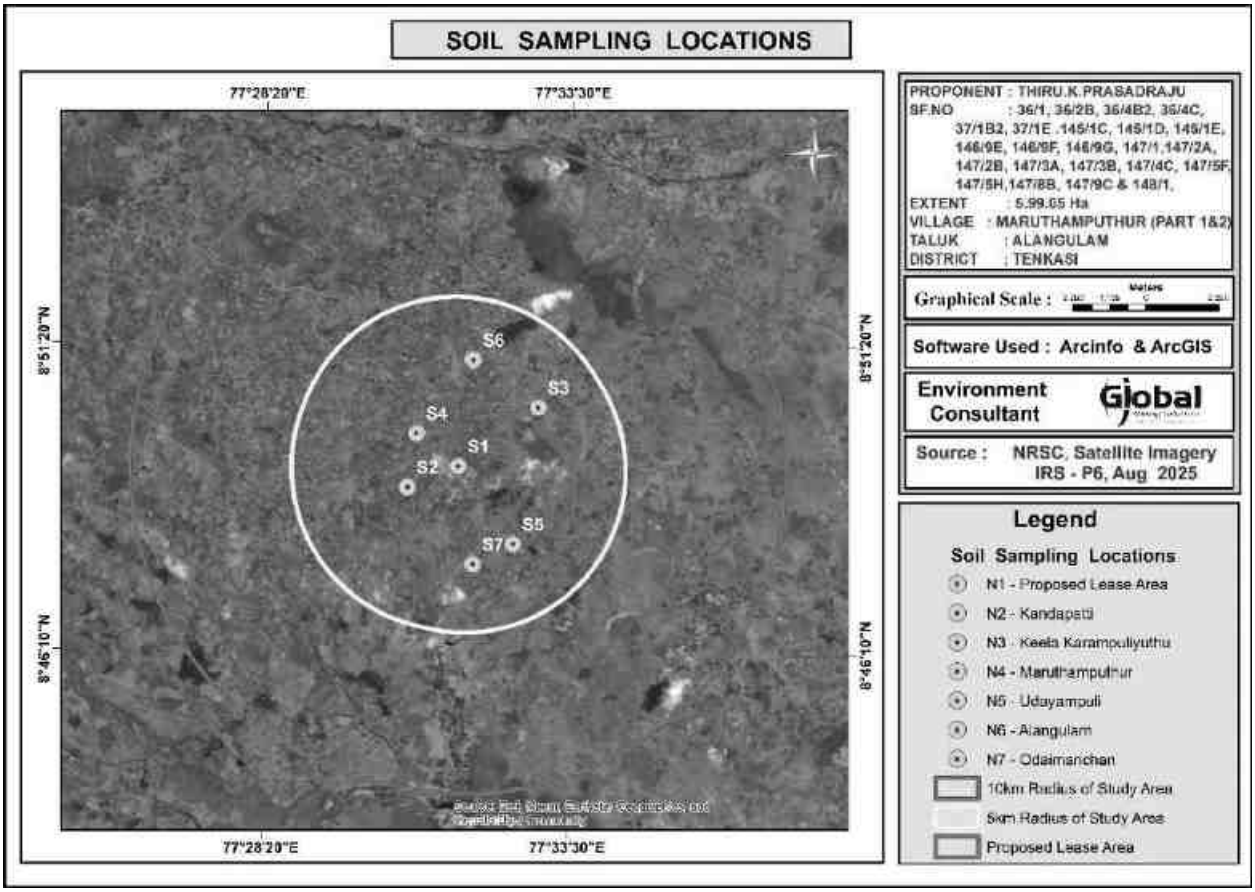
After commencement of mine operation the anticipated noise level will be 52 dB – 65 dB in the N1 location. (Project Site). It is very negligible and within the prescribed standards of MoEF & CC and DGMS.

3.3.5 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 Figure 3.16.

Soil samples have been collected from the mine lease area and 6 other locations from Kandapatti, Keela Karumpuliyuthu, Maruthamputhur, Udayampuli, Alangulam, Odaimarichan Villages. The locations are shown in figure below.

FIG 3.16 BASE MAP OF SOIL SAMPLING LOCATIONS



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 3.11 - Soil Testing Result

S.No	Parameter	Unit	S1	S2	S3	S4	S5	S6	S7
1	pH at 25 °C	-	6.32	6.96	6.22	6.14	6.72	7.05	6.89
2	Electrical Conductivity	µmhos/cm	46.72	181.2	79.25	21.94	92.21	192.5	110.3
3	Dry matter content	%	96.98	95.82	96.47	96.58	95.24	96.35	96.78
4	Water Content	%	3.02	4.18	3.53	3.42	4.76	3.65	3.22
5	Organic Matter	%	1.10	0.98	0.58	0.79	1.30	1.12	1.45
6	Nitrogen and Nitrogenous compounds	mg/kg	92.5	292	344.0	123.0	252.0	264	314.0
7	Soil Texture	%	silty clay	silty clay loam	silt loam	silt loam	loam	silty clay loam	loam
8	Grain Size Distribution	%	8.94	13.36	24.45	29.54	33.20	14.25	33.99
	i. Sand								
	ii. Silt	%	46.65	47.98	68.24	53.21	49.22	48.56	48.25
	iii. Clay	%	44.41	38.66	7.31	17.25	17.58	37.19	17.76
9	Phosphorous as P	mg/kg	1.2	2.1	1.4	3.2	2.5	2.9	2.7
10	Sodium as Na	mg/kg	422.0	1055	596.0	212	403.0	1100	426.0
11	Potassium as K	mg/kg	340	897	248.0	138	290.0	896	310.0
12	Total soluble sulphates	%	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)
13	Porosity	%	18.9	17.9	18.3	19.4	17.5	18.6	18.9
14	Water Holding Cabacity	Inches/foot	34	35	38	40	36	42	44

Soil Testing Result

Results of the soil samples show that the pH values were found to be 6.14 to 7.05 and Electrical Conductivity values were ranging between 21.94 – 192.50 µmhos/cm. Soils are generally Silt Loam. Organic matter values were ranging between 0.58 – 1.45 %. Total Nitrogen values were ranging between 92.50 – 344 mg/kg. Phosphorus values were ranging between 1.20 – 3.20 mg/kg. Potassium values were ranging between 138 – 897 mg/kg. Sodium values were ranging between 212 – 1100 mg/kg. The soil quality data for the 7 samples collected and analyzed are provided in Table no – 3.11.

3.3.6 BIOLOGICAL ENVIRONMENT

An ecological survey was conducted to collect the baseline data regarding flora and fauna in the study area of 10 km radius. Data were also collected from different sources, i.e., government departments such as District Forest Office, Government of Tamil Nadu. On the basis of onsite observations as well as forest department records the checklist of flora and fauna was prepared.

Methodology

Sampling locations were selected with reference to topography, land use, vegetation pattern, etc. In this study, quadrats of 25m × 25m were laid down to assess trees and quadrats of 10m × 10m were laid down for shrubs.

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.

Core Zone

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

Flora in 300 m radius zone

There are Agriculture land within 500 m radius. It contains a total of 13 species belonging to 12 families have been recorded from the buffer zone of 300 m radius. Trees 4 (30%), Shrubs 4 (30 %) Herbs 5 (40%) were identified.

Table 3. 12 - Flora in 300 m radius

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

FLORISTIC SCENARIO IN BUFFER ZONE AREA

Taxonomically a total of 60 species distributed among 46 families have been recorded from the buffer area. Based on habitat classification of the enumerated plants the majority of species were Trees 27 and Shrubs 12 followed by herbs (13), climbers 6. Details of flora with the scientific name were mentioned in Table No. 3.13.

Table 3.13 – List of Flora in Buffer Zone

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	
	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

Fauna in the study area

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

Table 3.14 – Fauna in Study Area

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

3.3.7 LAND ENVIRONMENT

The main objective of this section is to provide a baseline status of the study area covering 10km radius around the project periphery; so that temporal changes due to the mining activities on the surroundings can be assessed in future.

Land use Pattern of the Project Area

The present and the post mining land use pattern is shown below.

Table 3.15 Land use pattern of the project site

Description	Present Area in Ha.	Area at the end of life of Quarry in Ha.
Quarrying pit	Nil	5.03.20
Infrastructure	Nil	0.01.0
Roads	Nil	0.02.0
Greenbelt	Nil	0.92.85
Unutilized	5.99.05	Nil
Total	**5.99.05**	**5.99.05**

- At the end of life of mine, the excavated mine pit / void of 5.03.20 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 (0.92.85 Ha.) will be developed along the safety barrier and top benches and 0.02 ha are approach road and Infrastructure.

LAND USE PATTERN OF THE STUDY AREA

A visual interpretation technique has been adopted for land use classification based on the keys suggested in the chapter – V of the guidelines issued by NNRMS Bangalore & Level III classification with 1:50,000 scale for the preparation of land use mapping. Land use pattern of the area was studied through LISS III imagery of Bhuvan (ISRO). The 10 km radius map of study area was taken for analysis of Land use cover. The land use map of the study area is given in Figure 3.17.

Table 3.16 Land use pattern of the Study area of 10 km radius

S.No.	LAND USE / LAND COVER	Area in Sq.Km	Area in Percentage
1	Built-up Land	9.85	3.05
2	Crop Land	113.91	34.93
3	Existing Quarry	1.29	0.40
4	Fallow Land	15.6	4.78
5	Hill and Forest	8.62	2.64
6	Land with scrub	20.91	6.41
7	Land without scrub	123.83	37.97
8	Plantations	5.08	1.55
9	Self Affected Land	6.09	1.86
10	Water bodies	20.91	6.41
	Total Area	**326.09**	**100.00**

Source : Survey of India Toposheet and Landsat Satellite Imagery

From above table it is inferred that the majority of the land in the study area is Land

without scrub (37.974 %) followed by Crop land (34.93 %).

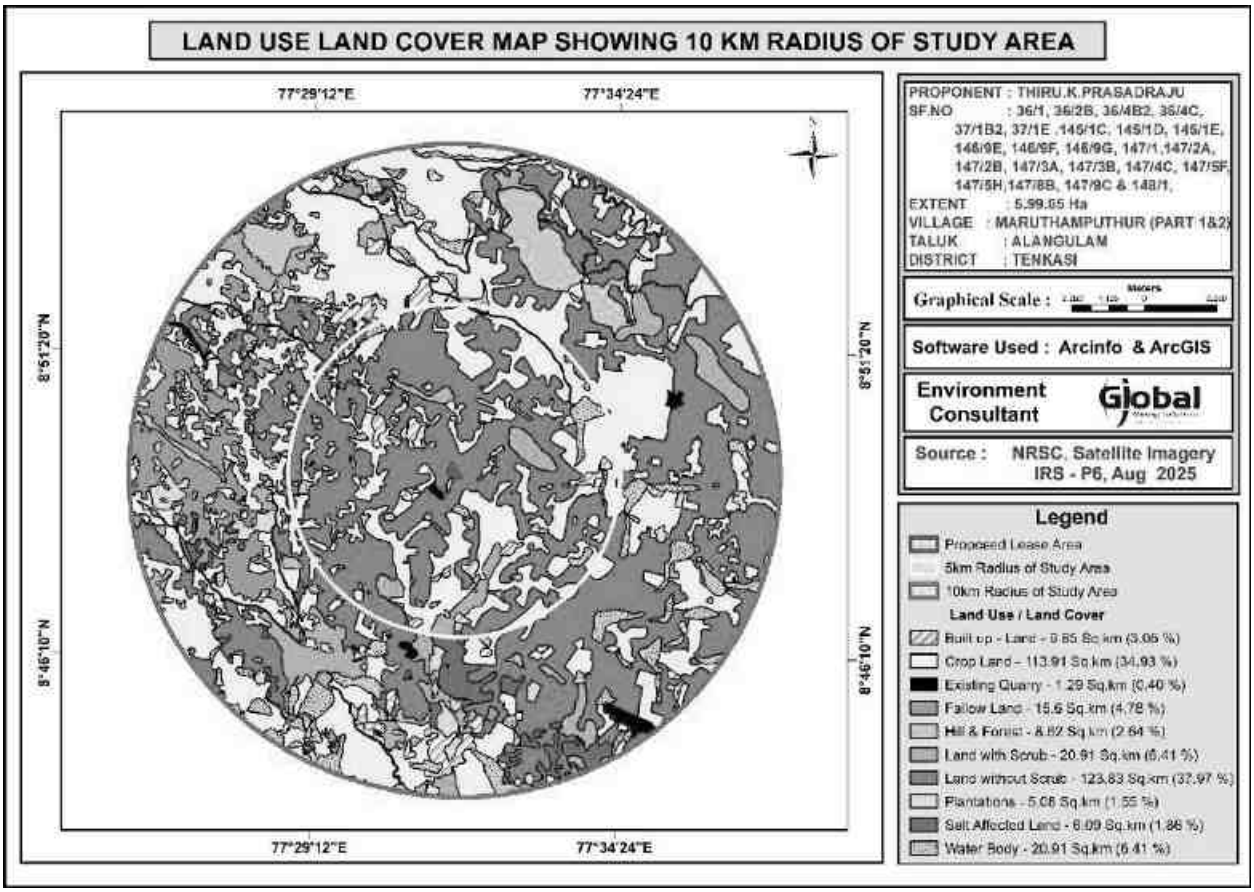
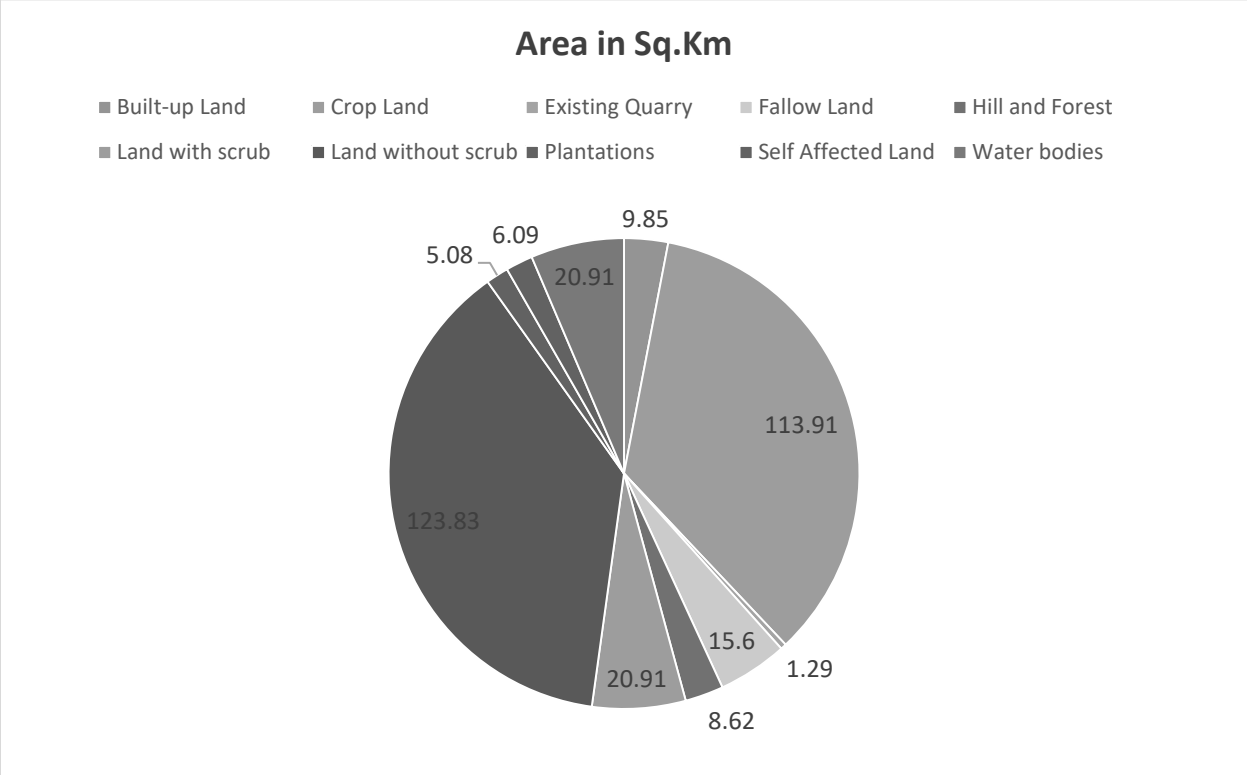


Figure 3.17 Land use map of the study area



Land use of the study area

3.3.8 SOCIOECONOMIC ENVIRONMENT

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

- Demographic pattern.
- Health pattern
- Occupational structure.

Objectives of the Study

The objectives of the socio-economic study are as follows:

- To study the socio-economic status of the people living in the study area of the proposed mining project

- To assess the impact of the project on Quality of life of the people in the study area
- To recommend Community Development measures needs to be taken up in the study Area.

Scope of Work

- To study the Socio-economic Environment of the area from the secondary sources;
- Data Collection & Analysis
- Prediction of project impact
- Mitigation Measures

3.11.1 DETAILS OF VILLAGES

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

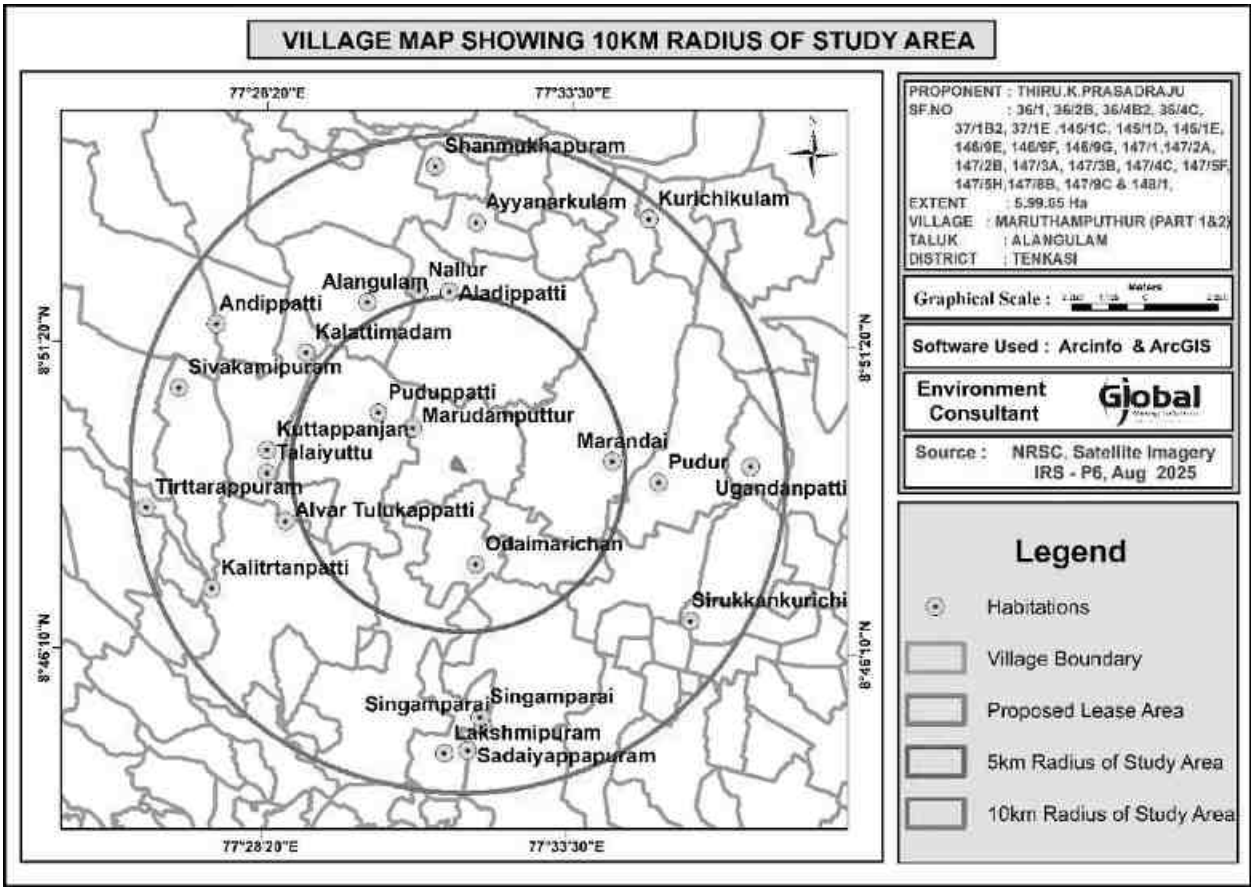


FIG 3.18 VILLAGE MAP OF THE STUDY AREA

DETAILS OF VILLAGES

The project is located in Maruthamputhur Part-1 and Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State. According to 2011 census, Tenkasi District has a population of 3.99 Lakh (3,99,946) with 1.99 Lakh (1,99,442) males and 2.0 Lakh (2,00,504) females.The sex ratio in Tenkasi is 1,005, indicating an above-average ratio compared to the national average of 940. Child Population (Age group 0-6 years) of Tenkasi District is 0.42 Lakh (42,275) which is 10.57% of Tenkasi District overall population, Child sex Ratio of Tenkasi District is 970 females for every 1000 males. There are 24 villages in the study area. (10 km radius).

Basic Amenities

A better network of physical infrastructure facilities (well-built roads, rail links, irrigation, power and telecommunication, information technology, market-network and social infrastructure support, viz. health and education, water and sanitation, veterinary services and co-operative) is essential for development of the rural economy. All basic amenities Education (higher education, colleges, universities, Medical college, Transport facilities, Railway station, Bus station area available.

Table 3.17 Population profile of the study area

Particulars	No of Population	Percentage (%)
A. Population break-up by Gender		
Male Population	10,266	49.0
Female Population	10,682	51.0
Total	**20,948**	100
B. Population break-up by Caste		
Scheduled Caste	1,223	5.84
Scheduled Tribes	69	0.33
Others	19,656	93.83
Total	**20,948**	100
C. Literacy Level		
Total Literate Population	17,494	83.51
Total illiterate population	3,454	16.49
Total	**20,948**	100
D. Occupational structure		
Main workers	10,507	50.15
Marginal workers	296	1.41
Total Workers	10,803	51.56
Total Non-workers	10,145	48.44
Total	**20,948**	**100**

The above table shows that the male and female population ratio are almost equal. Among the total population, 0.33 % belong to Scheduled Tribes, 5.84 % are Scheduled Caste and the balance is 93.83 % people belong to other castes. Among the total population, 83.51 % of the people are literate. Among the total population, 90.68 % are literate males and 76.68 % are literate females. This shows that the male literates are higher than the female literates. The results are plotted in the figures below.

FIG 3.19 GENDER-WISE POPULATION DISTRIBUTION

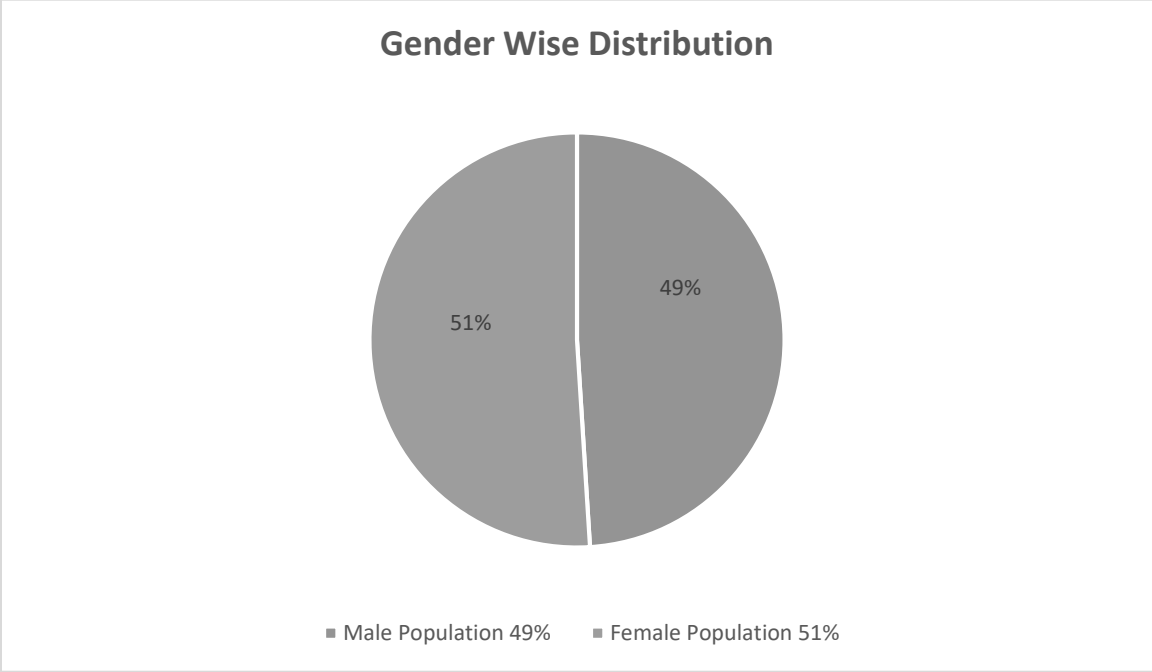


FIG 3.20 GENDER WISE LITERACY DISTRIBUTION

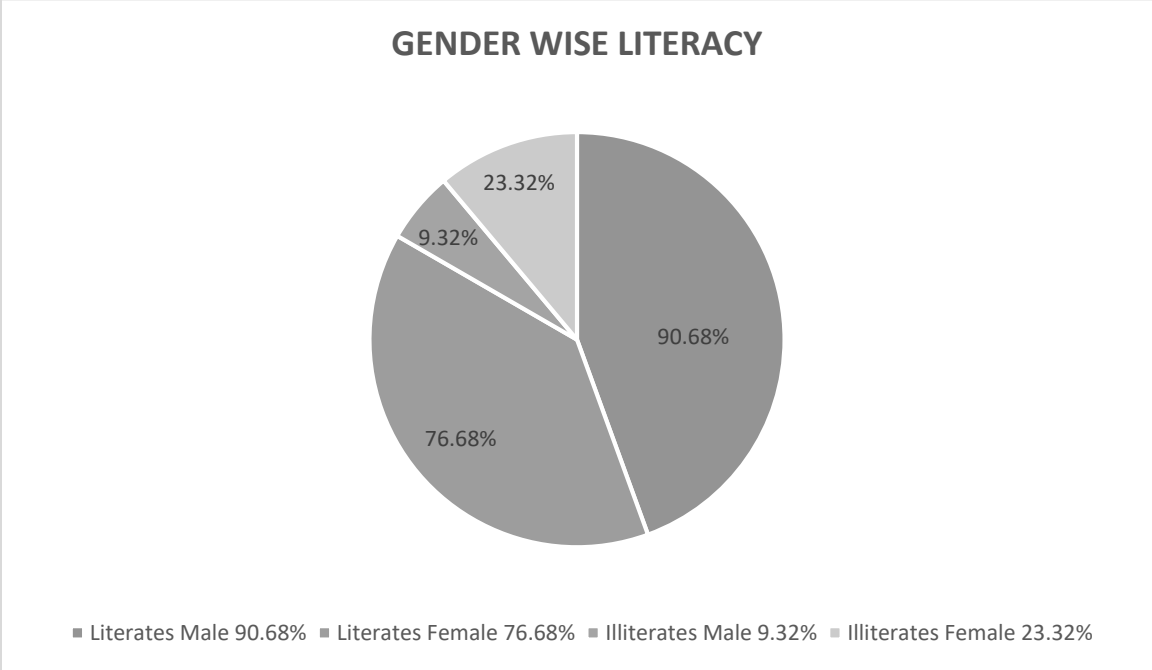


FIG 3.21 OCCUPATIONAL STRUCTURE WITHIN BUFFER ZONE

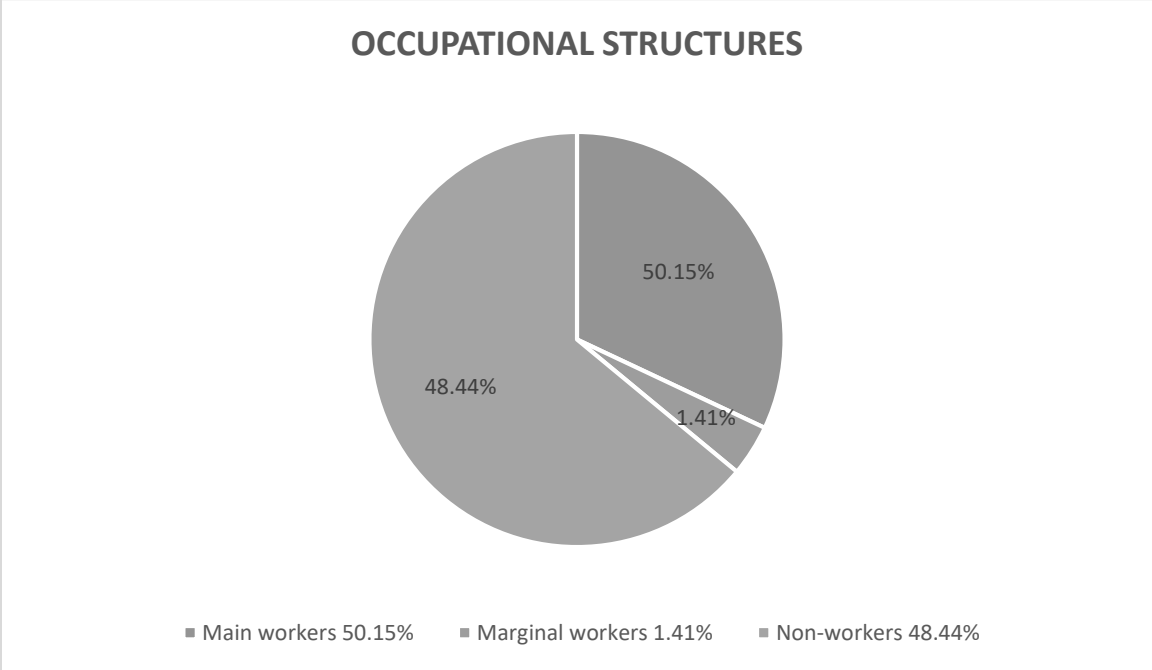


Table 3.18 Population profile – Maruthamputhur Part-1 and Maruthamputhur Part-2 Village

Particulars	No of Population	Percentage (%)
A. Population break-up by Gender		
Male Population	3,341	49.89
Female Population	3,355	50.11
Total	**6,696**	**100**
B. Population break-up by Caste		
Scheduled Caste	257	3.84
Scheduled Tribes	-	-
Others	6,439	96.16
Total	**6,696**	**100**
C. Literacy Level		
Total Literate Population	4,927	79.94
Illiterate	1,769	20.06
Total	**6,696**	**100**
D. Occupational structure		
Main workers	3,421	51.09
Marginal workers	408	6.09
Total Workers	3,829	57.18
Total Non-workers	2,867	42.82
Total	**6,696**	**100**

Sample Survey

The expert visited 6 villages in the study area Kandapatti, Keela Karumpuliyuthu, Maruthamputhur, Udayampuli, Alangulam, Odaimarichan Villages. Discussions were held with the people from nearby locality to study the social and economic conditions prevailing in the area. The expert also visited nearby hospitals, primary health centres and Nalmukkal. The following observations were made.

Primary schools are available in many villages. For hospital facilities, people in the locality have to go to hospital in Alangulam which is within 5.0 km from the lease area. Major schools with higher secondary and senior secondary schools are located in Alangulam. The major Panchayat Union located in the area is Alangulam. Facilities like petrol pump stations, ATM facility are available in Alangulam.

3.3.9 HYDROGEOLOGY OF THE STUDY AREA

Tenkasi's geology is dominated by hard rocks like gneiss and charnockite, forming weathered and fractured zones that act as aquifers, yielding water in weathered zones (2-10m deep) and deeper fractured zones, with issues of over-exploitation and water scarcity. Hydrogeologically, it's characterized by variable groundwater levels, dependence on monsoons (especially NE monsoon), and medium potential aquifers in fracture zones, requiring management strategies like recharge structures (check dams, recharge shafts) and efficient irrigation to balance supply and demand.

Aquifer System:

Weathered Zone: Extends to about 30m, with 12-20m thickness, acting as a good aquifer with moderate transmissivity (1-110 m^2/day).

Fractured Zone: Deeper (10m to 195m), formed by fractures in gneiss/charnockite, also holds water with variable transmissivity (1-135 m^2/day).

Groundwater Levels: Pre-monsoon levels are 2-10m below ground level (bgl), with some fluctuations.

A detailed hydrogeological study will be incorporated in the Final EIA/EMP report. The following water bodies are located in the buffer zone.

- Odai-280m (SW),
- Odai-355m (NE),
- Navaluthukulam Tank-6.9km (NE),
- Mathavarayankulam Tank-7.0km (NE)

The quarrying activity will not intersect ground water table as quarrying is proposed upto a depth of 65m BGL and water table is found at a depth of 78m BGL.

Topography

The area applied for quarry lease is exhibits almost plain topography covered by Gravel formation. The massive Charnockite formation is noticed below 5m (avg) Gravel formation and sloping towards southeastern side of the area, the altitude of the area is above 130m (maximum) from MSL.

Drainage pattern of the Area

The Drainage pattern study reveals that, Odai-280m (SW), Odai-355m (NE), Navaluthukulam Tank-6.9km (NE), Mathavarayankulam Tank-7.0km (NE). There is seasonal odai passing southwest and northeast side of the area and is 280m and 355m away from the area. The other major water bodies in buffer are given below.

- Odai-280m (SW),
- Odai-355m (NE),
- Navaluthukulam Tank-6.9km (NE),
- Mathavarayankulam Tank-7.0km (NE)

The drainage map of the study area is given in Figure 3.22.

GEOMORPHOLOGY

Predominantly the buffer zone is dominated by Shallow weathered Buried Pediplain (69.76 %), followed by Pediment – Inselberg Complex (15.68 %) and the lease area falls under Shallow weathered Buried Pediplain category. Geomorphology of the

study area is detailed below. The geomorphology of the study area is given in Figure 3.24.

S.No.	GEOMORPHOLOGY	Area in Sq.Km	Area in Percentage
1	Deeply weathered Buried Pediplain	1.14	0.35
2	Flood Plain	0.23	0.07
3	Moderately weathered Buried Pediplain	29.01	8.90
4	Pediment – Inselberg Complex	51.14	15.68
5	Pediplain	11.33	3.47
6	Residual Hills	1.31	0.40
7	Shallow weathered Buried Pediplain	227.47	69.76
8	Structural Hills	4.45	1.36
	Total Area	**326.08**	**100.00**

Geology

The geology of the study area is shown below in Figure 3.23. The majority of the buffer zone is composed of Hornblende biotite gneiss (89.20 %). The lease area also falls under the same category. The geology of the study area is detailed below.

S.No.	GEOLOGY	Area in Sq.Km	Area in Percentage
1	Calc granulite and limestone	1.43	0.44
2	Charnockite	5.33	1.63
3	Hornblende biotite gneiss	290.86	89.20
4	Quartzite	28.44	8.72
	Total Area	**326.06**	**100**

Soil texure

The major soil texture found in the buffer zone are Clay loam (50.54 %), followed by Sandy Loam (40.88 %). The lease area falls under Sandy Loam category. The soil texture of the study area is detailed below.

S.No.	SOIL TYPE	Area in Sq.Km	Area in Percentage
1	Clay loam	164.8	50.54
2	Loamy Sand	27.98	8.58
3	Sandy Loam	133.29	40.88
	Total	**318.73**	**100**

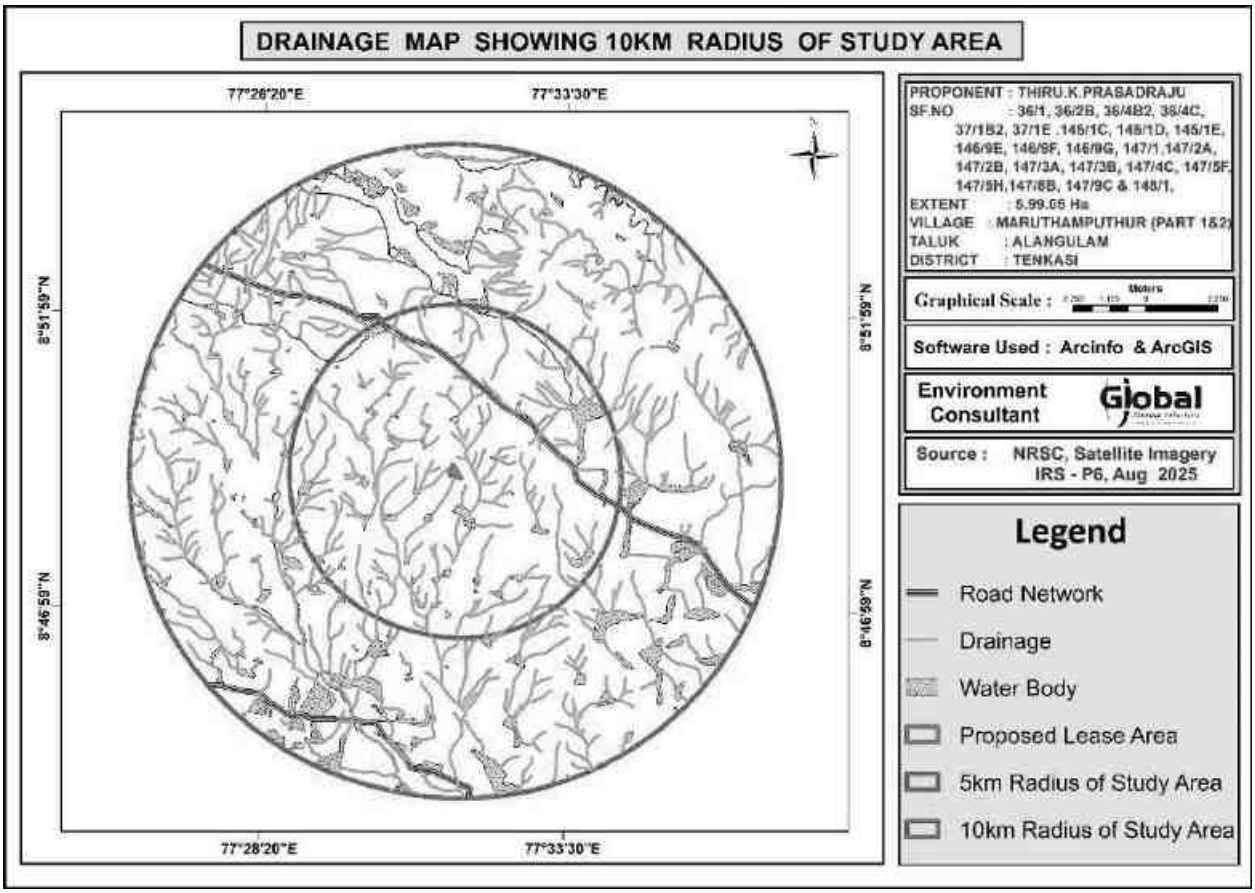


Figure 3.22 Drainage map of the study area

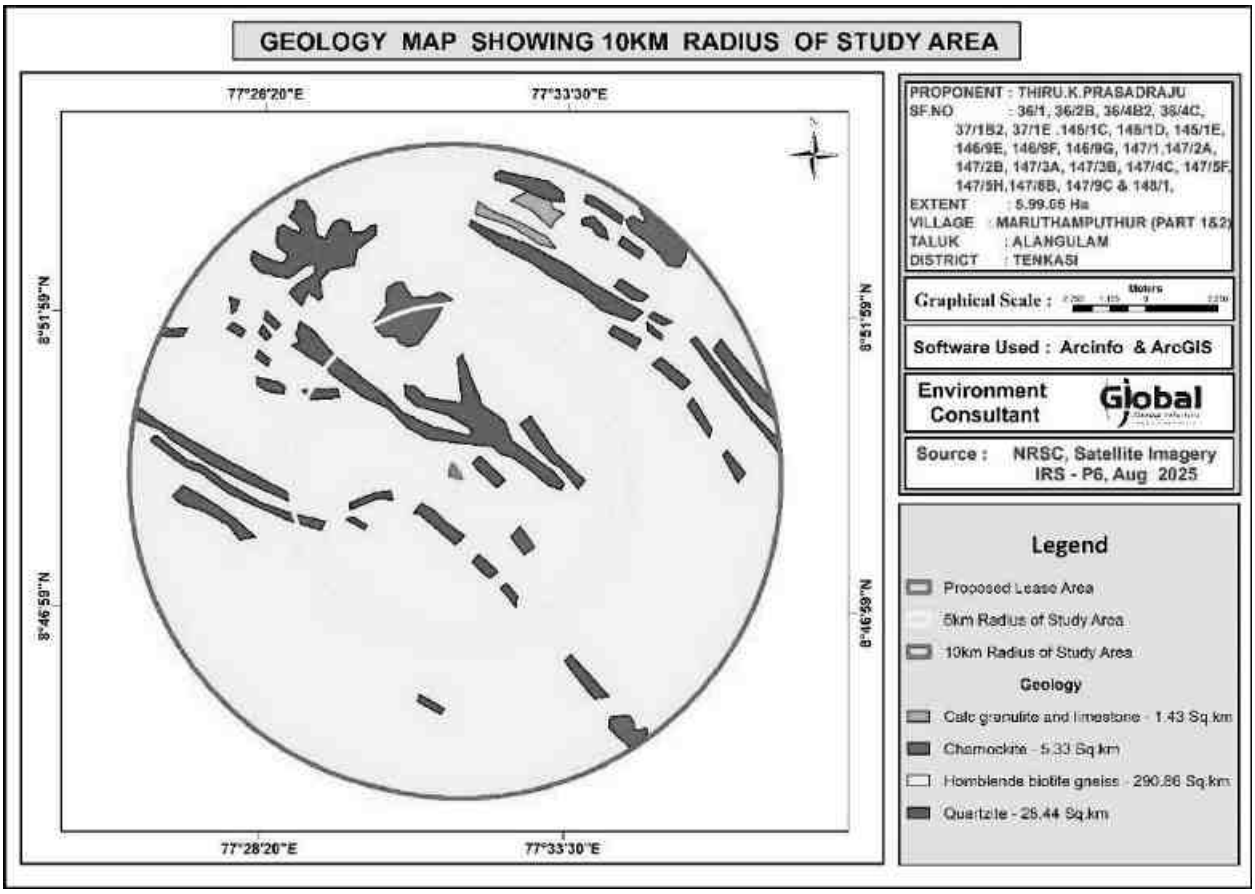


Figure 3.23 Geology map of the study area

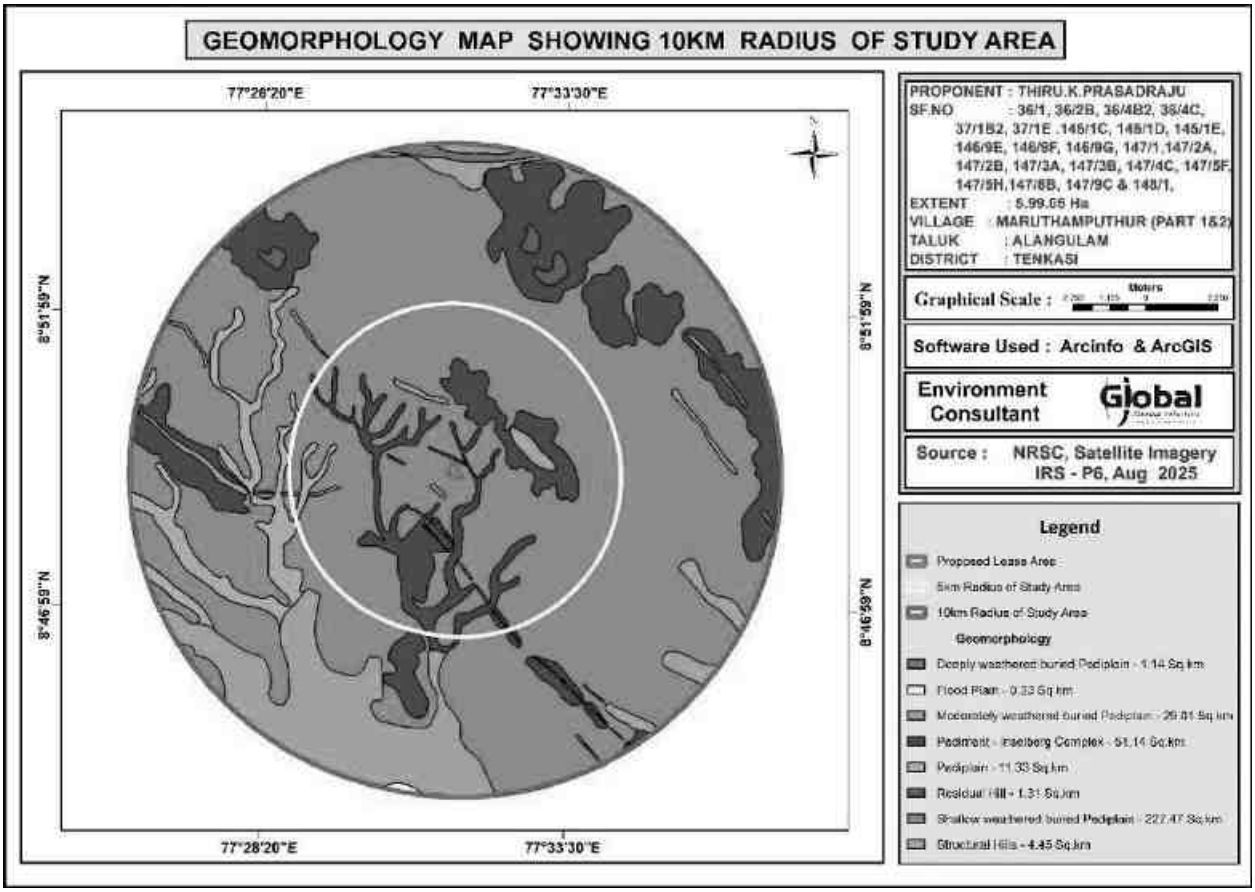


Figure 3.24 Geomorphology map of the study area

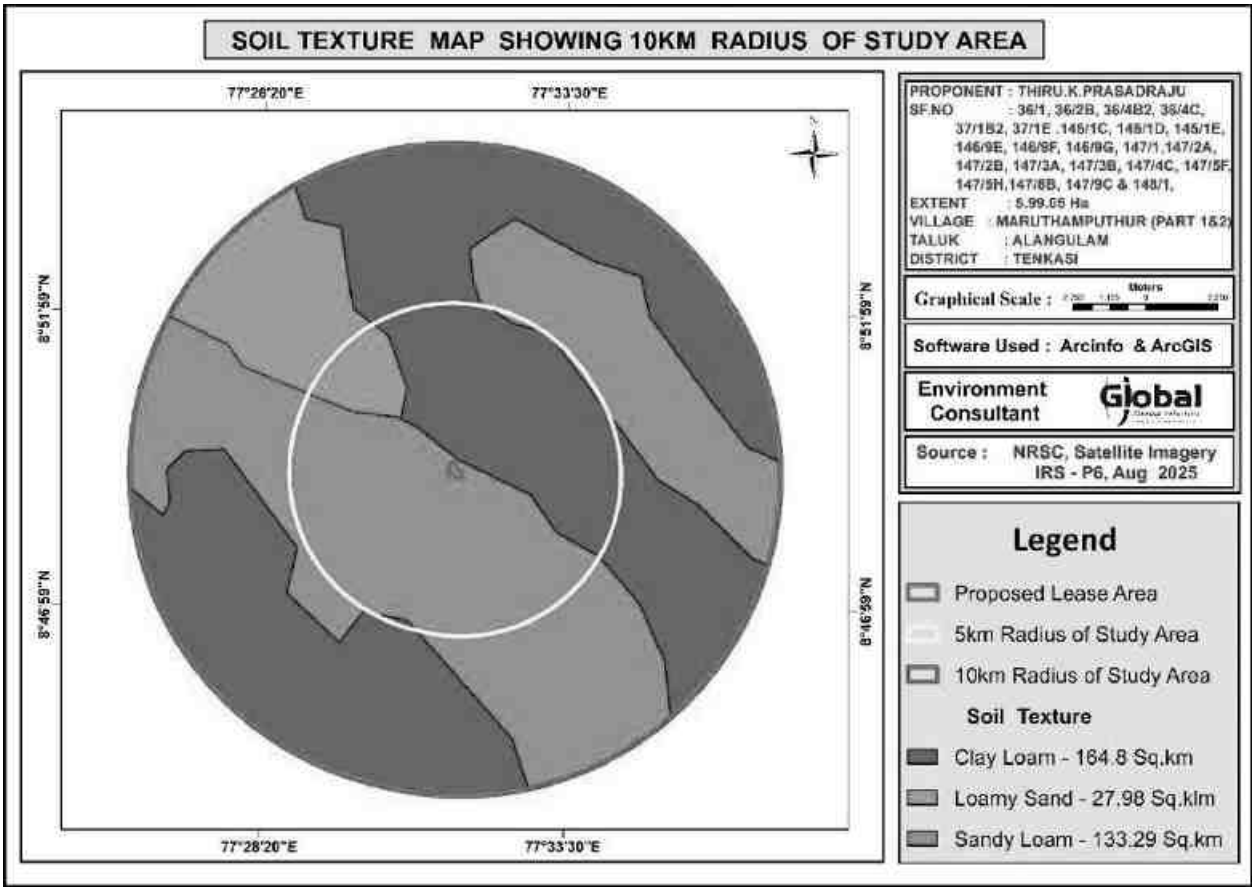


Figure 3.25 – Soil Texture Map of the Study Area

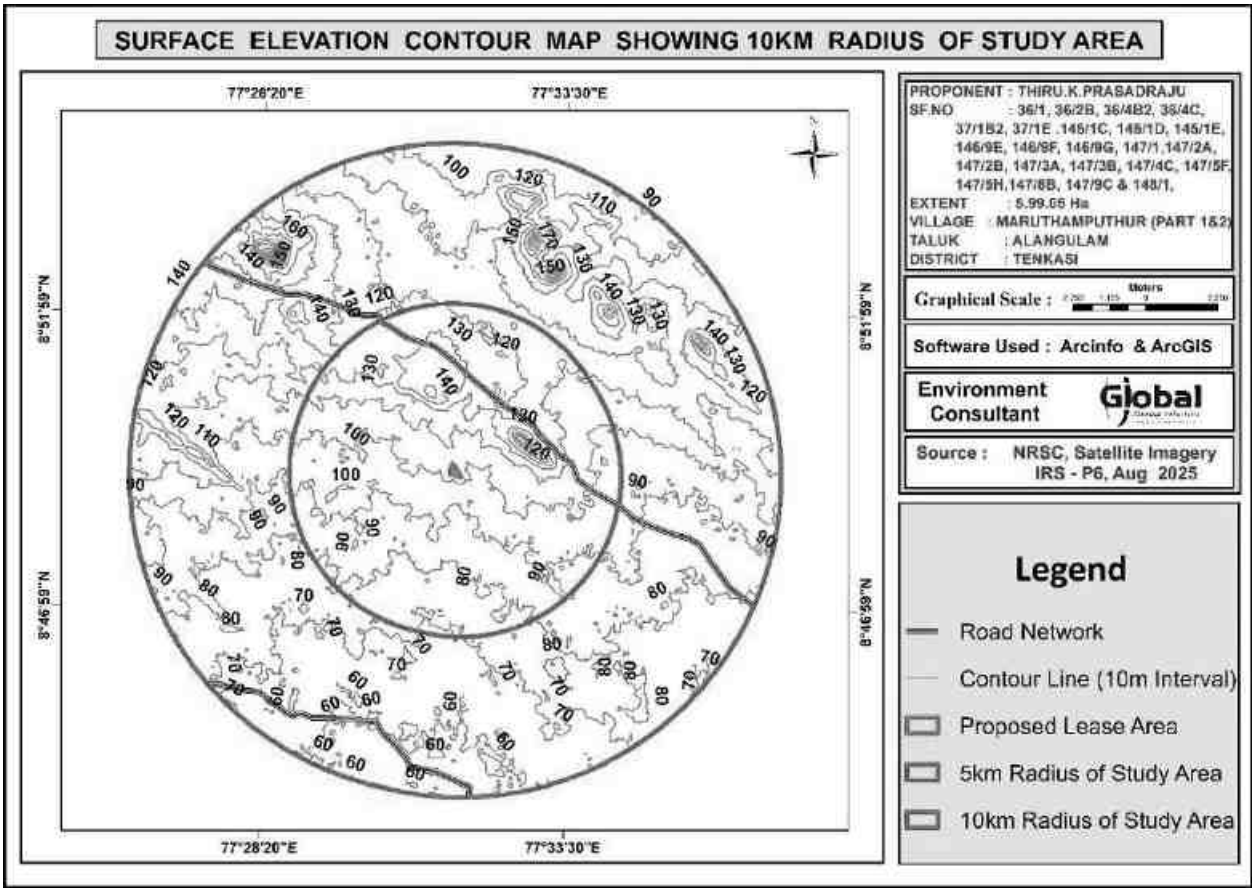


Figure 3.26 – Surface Elevation Contour Map showing 10 km radius of study Area

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CHAPTER 4

ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

INTRODUCTION

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

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

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

- Socio Economic Environment

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

This is a proposed Rough Stone and Gravel Quarry in S.Nos. 36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part-1 Village & 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C, 148/1 of Maruthamputhur Part-2 Village over an extent of 5.99.05 Hectares at Maruthamputhur Part-1 and Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi 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 13,48,090m^3 of Rough Stone and 2,46,535m^3 of Gravel for 5 Years upto a depth of 65m BGL. There is no stream/odai within the mine lease area.

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

The entire mine lease area is Patta Land. It is proposed to be altered by effective quarrying operation such as excavation (5.03.20 Ha), Infrastructure (0.01.00), Road (0.02.00 Ha) and green belt will be developed in the safety zone of 0.92.85 Ha. The ultimate depth of quarrying is proposed with maximum depth of 65m BGL and will not intersect the ground water table.

4.2 MEASURES FOR MINIMIZING AND /OR OFFSETTING ADVERSE IMPACTS IDENTIFIED

<table>
<tr><th>Aspect</th><th>Impact</th><th>Mitigation measures</th></tr>
<tr><td>Topography</td><td>The area is almost plain topography covered by Charnockite formation. Quarrying activity will lead to change in geological setting of the area i.e., Due to the quarrying activity in the mine lease area will leads to affect the aesthetic view on the environment. Further, due to the movement of heavy vehicles in and around the mine lease area will leads to affect the surrounding agricultural lands, ecology and biodiversity, human habitations due to the emissions from vehicles like SO_2, NO_x, PM_{10}, $PM_{2.5}$, etc., The existing land use pattern is given as under.
<table>
<tr><th>Land Use</th><th>Present Area (Hect)</th><th>Area in use during the quarrying period (Hect)</th></tr>
<tr><td>Quarrying Pit</td><td>Nil</td><td>5.03.20</td></tr>
<tr><td>Infrastructure</td><td>Nil</td><td>0.01.00</td></tr>
<tr><td>Roads</td><td>Nil</td><td>0.02.00</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 65m 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>5.03.20</td></tr>
<tr><td>Green Belt</td><td>0.92.85</td></tr>
<tr><td>Remaining area</td><td>0.03.00</td></tr>
<tr><td>Total</td><td>5.99.05</td></tr>
</table>
At the mine closure stage 5.03.20 Ha of lease area will be left as rain water harvesting pond 0.92.85 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>
</table></td></tr>
</table>

	Green Belt	Nil	0.92.85
	Unutilized	5.99.05	Nil
	Total	**5.99.05**	**5.99.05**

The ultimate pit dimension of the mine lease area is given below.

Ultimate Pit dimension (M) end of Mining plan Period

Pit No	Length (max) in(m)	Width (Avg) in (m)	Depth(max) in(m)
I	278	181	65

If mining is not done systematically it will leads to the dumping failure in the mining area.

I	Pungai, Vagai, Vembu, Manjal konrai, Naval, Puvarasu, etc	929	3m x 3m	80%
II		-		
III		-		
IV		-		
V		-		
Total		**929**		

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 7.5m & 10m shall be provided. There is no overburden anticipated during the entire Rough Stone quarrying operation. The excavated Rough Stone will be directly loaded into tipper to the needy crusher/other buyers.

Drainage	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.	As per the approved mining plan the ultimate pit limit is 65m (BGL). The ground water table is reported as 78m. In the proposed mining plan only 65m below ground level has been envisaged as workable depth for safe & economic quarrying for the entire lease period.

		Hence the quarrying operation may not affect the ground water.
Soil Quality and Agriculture	In monsoon seasons due to the excavation of minerals soil erosion and sediment deposition will occur in the nearby water bodies.	It is proposed to quarry upto a depth of 65m below ground level and the nearby water table is 78m. So, the mining activity will not affect the ground water. To prevent the soil erosion during monsoon season, garland drain will be constructed with silt traps.
Visual impact on surrounding environment	Quarrying activities and rock extraction generally cause several environmental effects on the surrounding areas. The alteration of landscape due to activities like excavation, drilling or blasting, in particular, often generates a visual impact on the receptors set in the surroundings. Among these effects, the shape, extent, or chromatic contrast of the mining surface with the original land form may represent a huge loss of appeal for the growth of new urban settlements.	The reclamation of the post mined quarry surface is aimed at restoring the ecological balance taking into account geological parameters but also local flora and climate. Further the ultimate depth of mining is 65m BGL. In the post mining stage, the quarried out pit will be used for rainwater harvesting.

4.2.1 SOLID WASTE GENERATION AND MANAGEMENT

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

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

4.2.2 SOIL ENVIRONMENT

Anticipated Impact

Mining activities often disrupt the existing environment as they involve disturbing the untouched earth materials. The massive Charnockite formation is noticed below 5m (avg) Gravel formation and sloping towards southeastern side of the area, the altitude of the area is above 130m (maximum) from MSL. The overburden in the form of Gravel, after the excavation of Gravel and Rough Stone will be directly loaded into tipper to the needy crushers/other buyers for road project and construction works for filling and leveling of low lying areas. The entire mined out mineral will be transported to the needy buyers through tippers.

Mitigation Measures for Soil Erosion and Soil Conservation

- Runoff water will be collected in bottom of the quarry and used for plantation and dust suppression during dry season.no run off water will be discharged beyond lease area.
- Wet drilling and haul road water sprinkling will be carried out to minimize air born dust at source level, which may cause soil pollution due to sedimentation.

- Garland drains will be constructed around the project area with silt traps to control the soil erosion during rainy seasons.
- Greenbelt development (0.92.85 Ha.) all along the periphery of the project area (i.e., 7.5m & 10m safety barrier) will ensure binding strength and minimizes soil erosion.
- Soil sampling will be carried out in the core zone for every season to ensure the soil quality is not affected due to the quarrying activities.

4.2.3 WATER ENVIRONMENT

Impact on Surface Water Resources

The impact due to quarrying on the water quality is expected to be insignificant because of no use of chemicals or hazardous substances during quarrying process.

There are two water bodies within 1 km radius. The other major water bodies in buffer are given below.

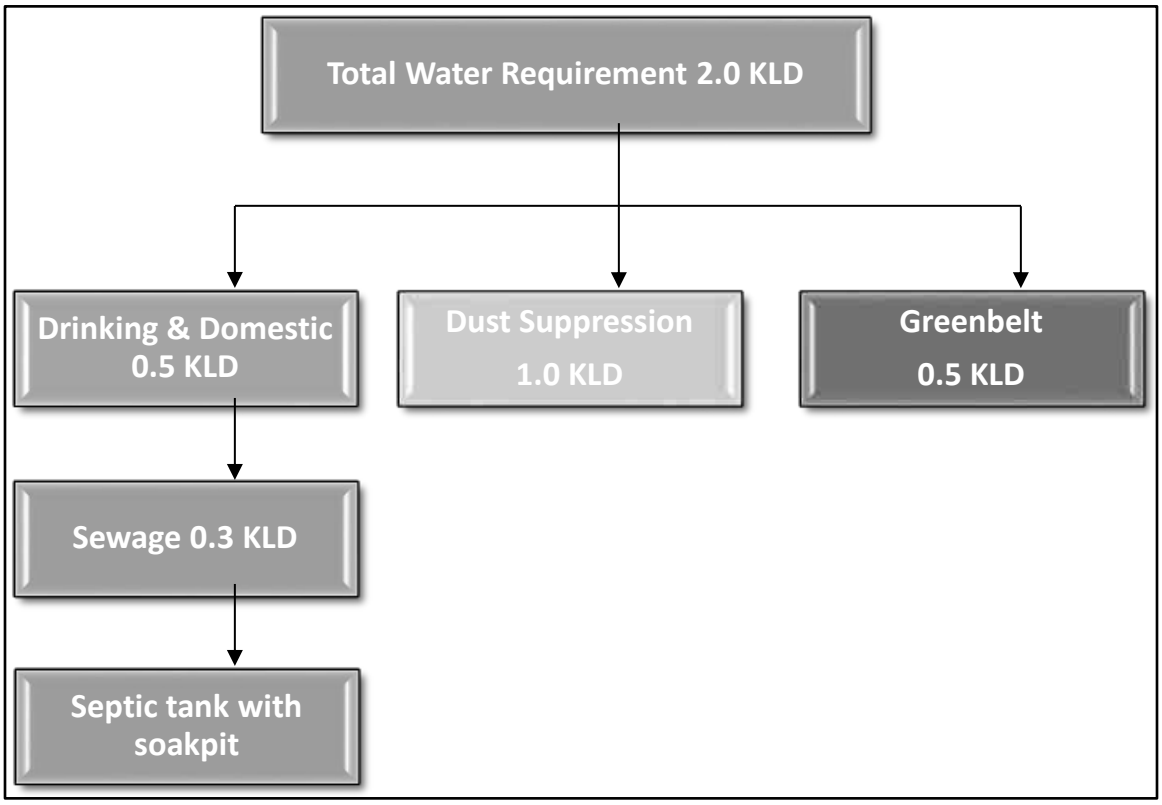
- Odai-280m (SW),
- Odai-355m (NE),
- Navaluthukulam Tank-6.9km (NE),
- Mathavarayankulam Tank-7.0km (NE)

Based on the drainage map given in the Fig.No.3.22, it is found that there is no stream connect the lease area to the water body. As the proposed mining activity takes place with 100 % recovery. Moreover, no toxic element will be quarried out or no chemicals or hazardous substances are used during mining process. No other water bodies close to the project site, there is no proposal for discharging of wastewater outside the project area. There is no proposal for a Rough Stone processing or workshop within the project area, so no effluent is anticipated in the mine.

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 2.0 KLD which will be sourced from outside agencies. Negligible sewage of 0.5 KLD will be generated, for which a septic tank with soak pit will be set up. The water balance diagram is given below.

FIG 4.1 WATER BALANCE DIAGRAM



Impact on Ground Water

The mining activity is not likely to intersect ground water as the ground water table occurs at a depth of 78m BGL. The mining will go up to the maximum depth of 65m

BGL. So, there will be no chance of intersecting the ground water table by the mining activity. So, the impact of mining on the ground water is not envisaged.

Mitigation measures

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

Ground water environment in buffer zone

The scenario of ground water in Alangulam Taluk is given below.

		Ground Water Level Status in Alangulam Taluk							
S. No.	Firka	Net Groundwater Availability (M.Cu.m)	Existing Gross Draft for Irrigation (M.Cu.m)	Existing Gross Draft for Domestic and industrial water supply (M.Cu.m)	Existing Gross Draft for all uses (M.Cu.m)	Allocation for Domestic and Industrial Requirement supply up to next 25 years (2029) (M.Cu.m)	Net groundwater Availability for future Irrigation Development (M.Cu.m)	Stage of Ground water Development (%)	Category
1	Alangulam	46.92	34.77	2.21	36.98	2.29	9.86	79	Semi Critical

Source: nwm.gov.in

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

Rainwater Harvesting Plan

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

- Development of garland drain around the quarry connected to settling tank.
- Cleaning of drain periodically to prevent siltation
- The supernatant clear water from the settling pond will drain into the nearby channel on the eastern side of the lease.
- Utilizing the rainwater harvested in the mine pit to meet the water requirement of the project.

The maximum annual rainfall of the area is 970 mm. Taking into consideration of 0.35 as runoff co-efficient for mining area, the total quantity of rain water can be harvested per annum from the area has been tabulated as below.

Table 4.1 – Rainwater Harvesting Plan

S.No	Rainwater Harvesting Area	Area in Sq.m	Average annual rainfall	Volume of harvestable quantity (Cum) of rain water per annum
1	Lease Area	59905	0.9	18870
Total Harvested Rainfall				18870

Total surface water runoff is 18870 Cum per Annum. 10% of this amount will be evaporated and rest 16983 m^3 will be recharged in the rain water harvesting pit.

Six sumps with each capacity 5000 Cu.m will provided to harvest the rainwater. The rain water stored in the sump will be utilized for plantation, dust suppression activities. The capacity of Rain water harvesting post will be sufficient to arrest the surface runoff from the lease area considering the highest amount of rain fall.

4.2.3 BIOLOGICAL ENVIRONMENT

The details and list of flora, fauna, reserved forest and cropping pattern within the 10km radius of study area is given in chapter 3. The impact on ecology and biodiversity due to the proposed mining activity has to be studied in detail to prepare the management plan to safeguard the flora, fauna, forest products and aquatic living organism etc.

A detailed anticipated impact of Ecology and Biodiversity due to mining activity is described in below Table.

Table 4.2 Ecological Impact Assessments and Its Mitigations -Part 1

S.NO	Issues	Assessment	Mitigations
1	Proximity to national park/ wildlife sanctuary / reserve forest / mangroves / coastline/estuary/sea	Nil within 10Km radius. The proposed project does not attract Forest Conservation Act, 1980. There is no wild life sanctuaries found around 10km radius and the area does not attract Wildlife Protection Act, 1972 and C.R.Z. Notification, 1991.	The fugitive dust generated by the mining activity will be suppressed by frequent sprinkling of water based on evaporation rate in the site specific.
2	Activities of the project affects the breeding / nesting sites of birds and animals	No breeding and nesting site was identified in mining lease site. The fauna sighted mostly migrated from buffer area. The fauna in the buffer zone may be affected by	The noise due to the mining activity will be controlled by developing green belt all along the lease boundary, regular maintenance of

		noise generated due to mining activity.	tippers, excavators, transporting the tippers within speed limits.
3	Located near an area populated by rare or endangered species	No endangered, critically endangered, vulnerable species sighted in core mining lease area and also in buffer zone.	NIL
4	Proposed project restricts access to waterholes for wildlife	No waterholes are in core zone. No Wild life sanctuary within 10km radius.	NIL
5	Proposed mining project impact surface water quality that also provide water to wildlife	"NO" scheduled or threatened wildlife animal sighted regularly in core area. There is no proposal for discharge of wastewater to nearby water bodies.	NIL
6	Proposed mining project increase siltation that would affect nearby Biodiversity area.	Surface runoff management structures like garland drain, settling pond etc. as explained above will be constructed and as such there will not be any appreciable impact on surface water quality which in turn can affect the bio diversity of the area.	

7	Risk of fall/slip or cause death to wild animals due to project activities	In the post mining stage, wire fencing is proposed all around the mined-out void to prevent falling of animals in the mine pits.	
8	The project release effluents into a water body that also supplies water to a wildlife	As the proposed project is mining activity there will be no possibilities of release of effluents. Also, no Wild life sanctuary within 10km radius.	NIL
9	Mining project effect the forest-based livelihood/ any specific forest production which local livelihood depended	Nil within 10Km radius.	All the necessary control measures will be adopted to protect the nearby forest.
10	Project likely to affect migration routes	No migration route observed during monitoring period.	NIL
11	Project likely to affect flora of an area, which have medicinal value	No such significantly important medicinal value species within the ML area and its nearby region.	NIL
12	Forestland is to be diverted, has carbon high sequestration	"NO". There is no forest land within the lease area.	NIL

13	The project likely to affect wetlands, fish breeding grounds, marine ecology	"NO". No wetland, fish breeding grounds, marine ecology present in core mining area.	NIL

(Format Source: EIA Guidance Manual-Mining and Minerals, 2010)

Table 4.3 Ecological Impact Assessments and Its Mitigations -Part 2

Identified Impacts	Ecological Significance of impact	Magnitude	Phase / duration	Reversibility	Mitigation
Project site Habitat due to Site Clearance.	There are no trees in the core zone. The Mining activity will be carried within the lease area. No clearance of vegetation in the buffer zone	Low impact	Planning stage	Irreversible	The quarried-out pit will be used as water storage pond which increases agricultural activity in the buffer zone.
Impact on Surrounding habitat due to fugitive emission	The fugitive emission due to the mining activities such as drilling, blasting, loading and transportation on the haul road will be deposited on the flora and crop field in the buffer zone which affects growth and its productivity.	Temporary Impact	Operational stage	Reversible	The sprinkling of water over the haul road will be done. Then completely wet drilling will be take place. The transportation vehicles will be maintained and serviced Properly.
road construction	No Road construction is required to assess the project site. The existing internal Road connects the project site to the existing SH and NH	No Impact	-	-	-
Ecological Impact on Surrounding/ Eco sensitive habitat due to waste water generated from	Since the proposed project is a mining activity no waste water generation is expected. Sewage will be generated due to the workers	No impact	-	-	-

the project activity.					
Ecological Impact on Surrounding / Eco sensitive habitat due to Noise generated from the project activity.	During drilling or blasting, transportation of Rough Stone noise will be generated and it may slightly affect the movement of fauna around the lease area.	Temporary impact	Only during drilling, blasting operation and transportation period. (5 years)	NO	Avenue trees will be planted along the lease area to minimize the noise level. Milli second detonators shall be used preferably 25–50ms per delay to control vibrations. Regular maintenance of vehicles and driving the tipper within specified limits also control the noise generations.
Ecological Impact on Surrounding/ Eco sensitive habitat due to Transportation	There is no eco sensitive habitat found around the lease area. The fugitive emission from drilling, blasting, vehicle movement will form layer in leaves thus reducing the gaseous exchange process. This ultimately affects the growth of plants. The animals like dog, cattle may get accident due to truck movement.	Temporary impact	During Operation Phase	NO	The truck driver will be advised to drive the vehicle within 20km/hr inside the lease area and 40km/hr outside the lease area. The sprinkling of water over the haul road will be done. Then completely wet drilling will be take place.

Carbon Emission:

Carbon released from quarrying machineries and tippers during quarrying would be 1643 kg per day, 4,92,900 kg per year and 24,64,500 kg over 5 Years, as provided in below Table.

Description	Per Day	Per year	For 5 Years
Total fuel consumption in liters	613	2,23,912	11,19,561
Co_2 emission in kg	1643	4,92,900	24,64,500

Carbon Sequestration:

To mitigate carbon emission due to mining activities. We recommend planting trees around the quarry to offset the carbon emission. Fuel efficient machinery and optimize transportation routes to reduce emissions from diesel powered vehicles. Conduct regular vehicular emission tests for the transport vehicles to ensure minimal impact due to carbon emissions. To further mediate the carbon emissions, additional plantation will be carried out around the lease area.

Greenbelt Development

In order to compensate the loss of vegetation cover, it is suggested to carry out afforestation program mainly in proposed mine lease area earmarked for plantation program as per Approved Mining Plan in different phases. This habitat improvement program would ensure the faunal species to re-colonize and improve the abundance status in the core zone. Greenbelt / Plantation will be carried out to enhance the vegetative growth and aesthetic in the safety zone area.

Table – 4.4 GREENBELT DEVELOPMENT PLAN

Year	No. of trees proposed to be planted	Survival %	Name of the Species	No. of trees expected to be grown
I	929	80%	Neem, Casuarina, Pongamia pinnata, etc.,	743
II				
III				
IV				
V				
Total	**929**			**743**

Nearly 0.92.85 Ha. of area is proposed for Greenbelt development by planting 929 Nos of trees and expected growth is around 743 Nos @ survival rate of 80%.

The objectives of the green belt cover will cover the following:

- Noise abatement.
- Reuse of waste water to the extent possible.
- Prevention of soil erosion.
- Ecological restoration.
- Aesthetic, biological and visual improvement of area due to improved vegetative and plantations cover.

4.3 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF ENVIRONMENTAL COMPONENTS.

4.3.1 IMPACT DUE TO MINING OPERATION

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

the baseline data to calculate the net impact on the environment after the proposed mine Project comes into production.

4.3.2 IMPACT ON AIR ENVIRONMENT

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

4.3.3 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 production of 13,48,090m^3 of Rough Stone and 2,46,535m^3 of Gravel for the period of 5 years upto a depth of 65m BGL.

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

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

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

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

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

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

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

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

Salient features of the AERMOD model are given hereunder:

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

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

4.3.4 Sources of Dust Emission

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

a. Area sources.

b. Line sources.

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

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

4.3.5 Emission Details

All the emissions discussed above are quantified for proposed maximum production of 13,48,090m^3 of Rough Stone and 2,46,535m^3 of Gravel for the period of 5 Years upto a depth of 65m BGL by the open-cast 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.

The emissions are computed based on AP-42 emission factors. Operational hours, activity rate, wind speed and moisture content have been considered for estimation of emissions from point and area sources. For line source, apart from operational hours, activity rate, moisture, silt content and vehicle weight have been considered. Predictions are carried out for the worst-case scenario of simultaneous operation of excavators (area sources) and tippers for transportation from mine pit to loading pit (line sources) over a distance of 500 m.

The number of working days has been taken at 300 days per year with 8 hours of operation/day, hence the concentrations predicted are considered to be the worst

case. With control measures, the emissions have been taken at 30% of uncontrolled emissions for handling and 10% of uncontrolled emissions for transportation.

4.3.6 Meteorological Data

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

4.3.7 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 2.77 µg/m^3 of PM 2.5 & 4.26 µg/m^3 of PM10 within the mine area and surrounding cluster area 3.39 µg/m^3 of PM 2.5 & 5.34 µg/m^3 of PM10, where mining operations are being carried out. The impact of mining operations would be negligible beyond 0.5 km.

Figure – 4.2 – Figure 4.5 represents the spatial distribution of the predicted ground level concentrations of PM_{10} due to emissions from mine.

4.3.8 Emission sources & Quantification

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

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

Quantity, TPA	Thiru.K.Prasadraju 37,07,247.50Ts Rough Stone 4,93,070Ts Gravel
Operational Hours Per Year	2400
Activity Rate, t/hr.	400.912
Emission of dust, g/t.	0.17
Emission of dust, g /hr.	55.357
Area of influence, m^2	626
Uncontrolled emission rate g/s/m^2	0.00005829
Controlled emission rate, PM10 g/s/m^2	0.000058294
Controlled emission rate, PM2.5 g/s/m^2	0.00031658

Area Emissions – Total Material handling (Cluster Rough Stone)

Quantity, m^3	**Proposed Quarries:** Thiru.K.Prasadraju: 37,07,247.50Ts Rough Stone & 4,93,070Ts Gravel (5 Years) **Existing Quarries:** • G.Karuppasamy: Rough Stone - 18,64,362.5 Ts & Gravel: 1,11,864 Ts • M.Niraikulathan : Rough Stone - 8,07,523.75 Ts & Gravel - 1,09,320 Ts.
Operational Hours Per Year	2400
Activity Rate, t/hr.	386.66
Emission of dust, g/t.	0.33
Emission of dust, g /hr.	90.33
Area of influence, m^2	630
Uncontrolled emission rate g/s/m^2	0.0006921
Controlled emission rate, PM10 g/s/m^2	0.00069214
Controlled emission rate, PM2.5 g/s/m^2	0.00045117

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

Quantity, TPA	Thiru.K.Prasadraju: 37,07,247.50Ts Rough Stone 4,93,070Ts Gravel
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	68620
Lead length/trip, Km	0.97
Total VKT/Year	96324
Emission Kg/VKT	0.27
Total emission Kg/Year	85972
Uncontrolled emission rate g/s/m	4.9524
Controlled emission rate, PM10 g/s/m	0.49524
Controlled emission rate, PM2.5 g/s/m	0.35641

Line Source – Transport of Rough Stone (Cluster)

Quantity, m^3	**Proposed Quarries:** Thiru.K.Prasadraju: 37,07,247.50Ts Rough Stone & 4,93,070Ts Gravel (5 Years) **Existing Quarries:** • G.Karuppasamy: Rough Stone - 18,64,362.5 Ts & Gravel: 1,11,864 Ts M.Niraikulathan : Rough Stone - 8,07,523.75 Ts & Gravel - 1,09,320 Ts.
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	141255
Lead length/trip, Km	0.22
Total VKT/Year	953498
Emission Kg/VKT	0.22
Total emission Kg/Year	22139
Uncontrolled emission rate g/s/m	7.45268
Controlled emission rate, PM10 g/s/m	0.745268
Controlled emission rate, PM2.5 g/s/m	0.57414

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

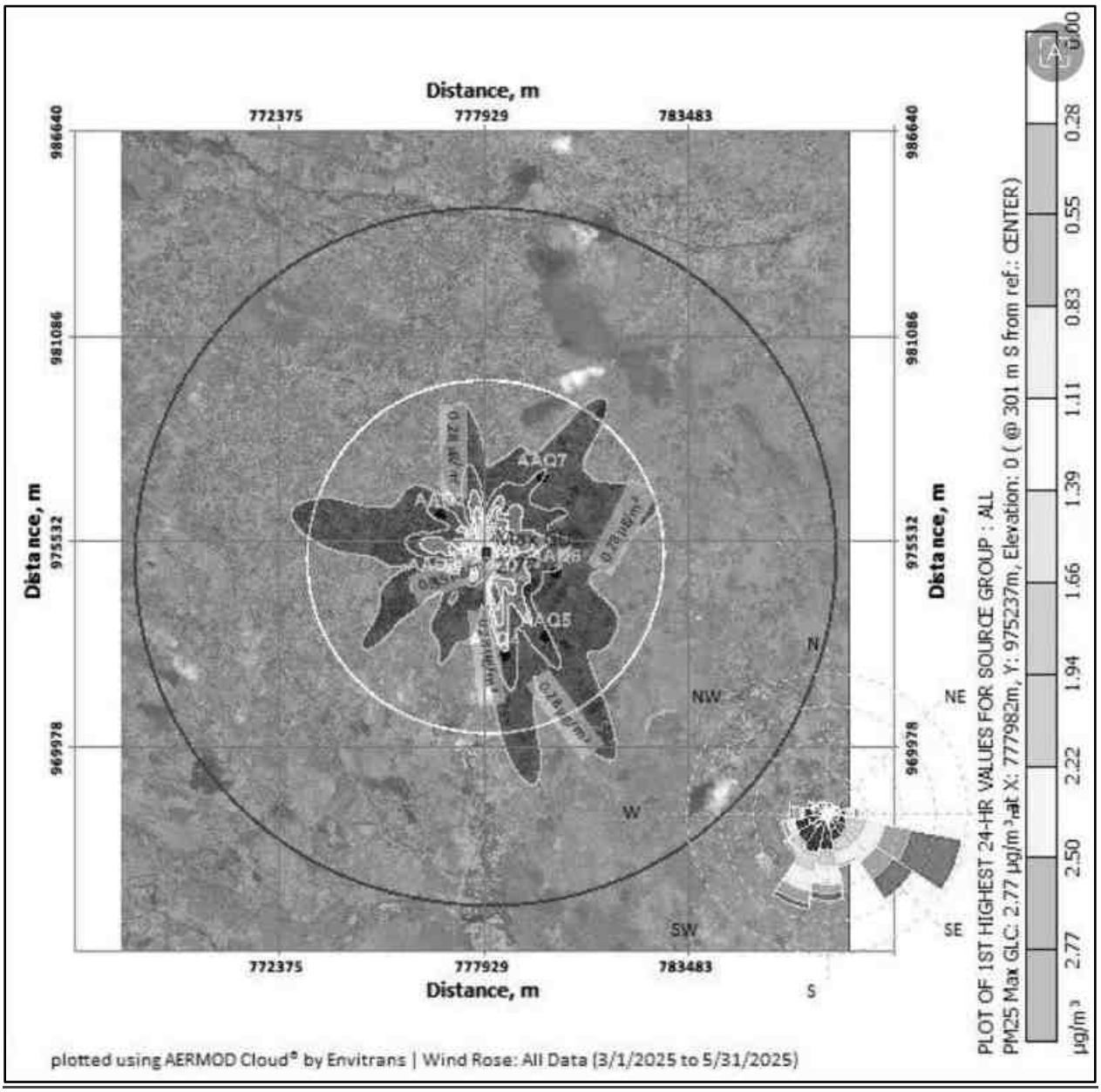


FIG 4.2 Isopleth of GLC Prediction for $PM_{2.5}$

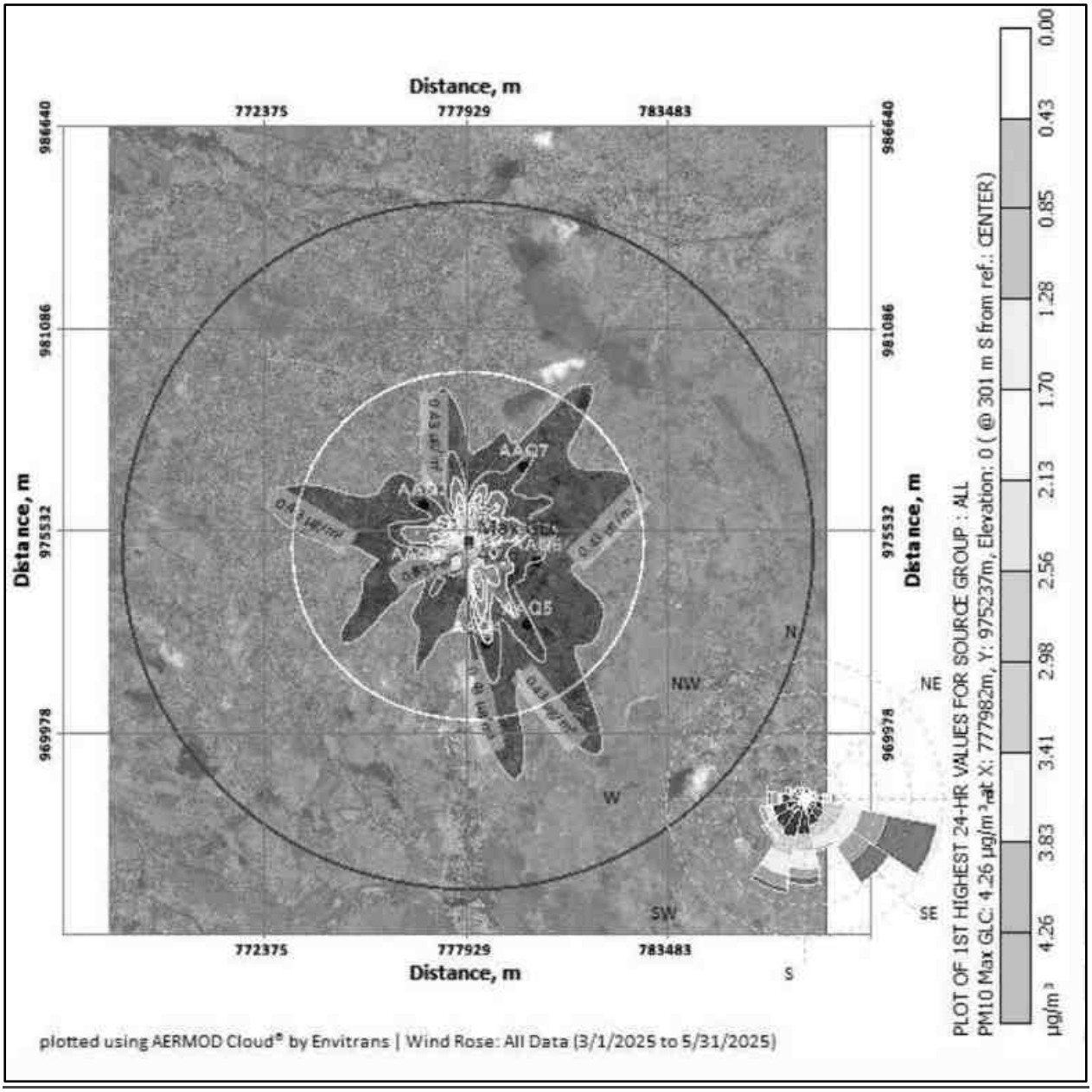


FIG 4.3 Isopleth of GLC Prediction for PM_{10}

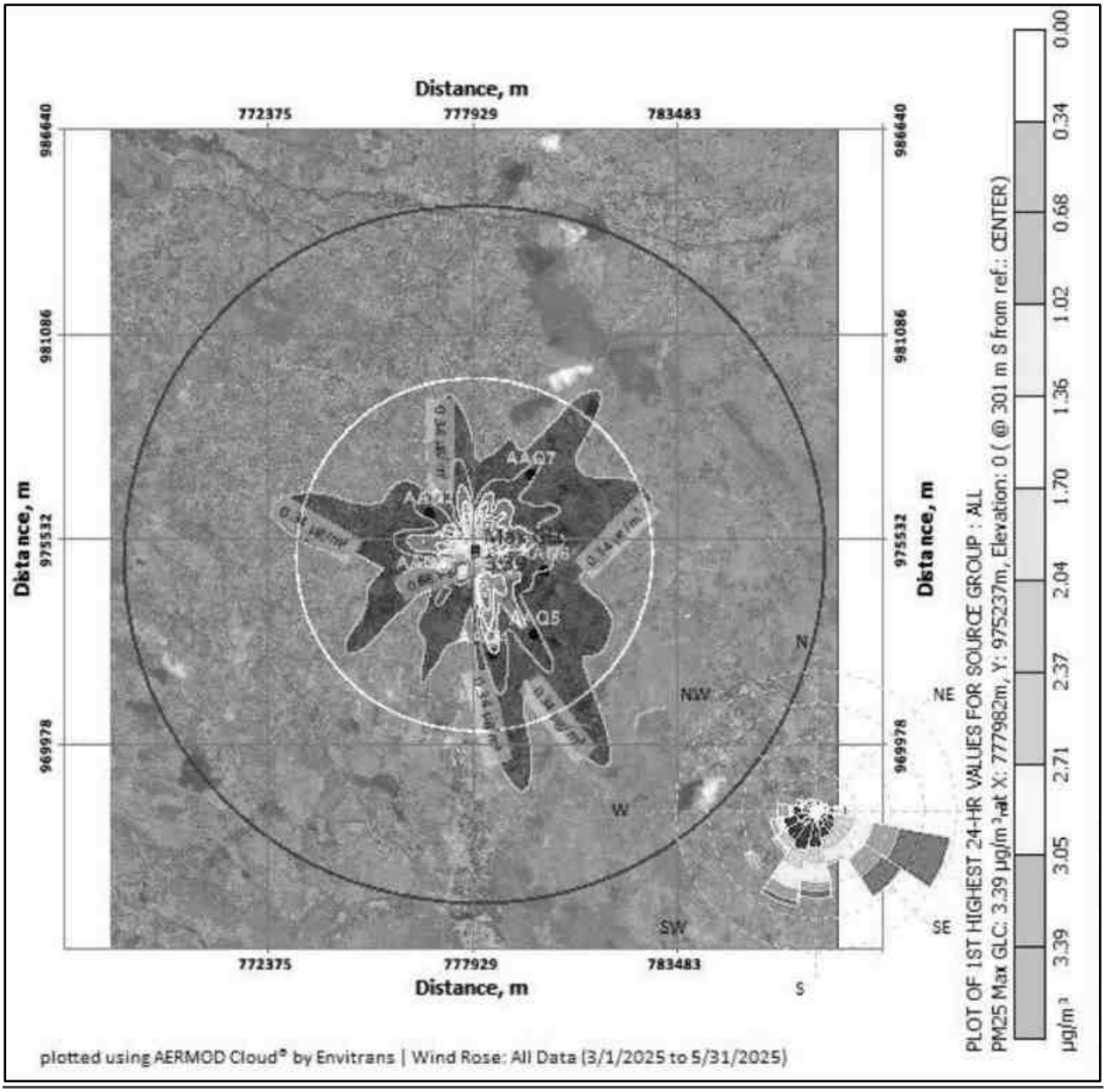


FIG 4.4 Isopleth of GLC Prediction –Cumulative for $PM_{2.5}$

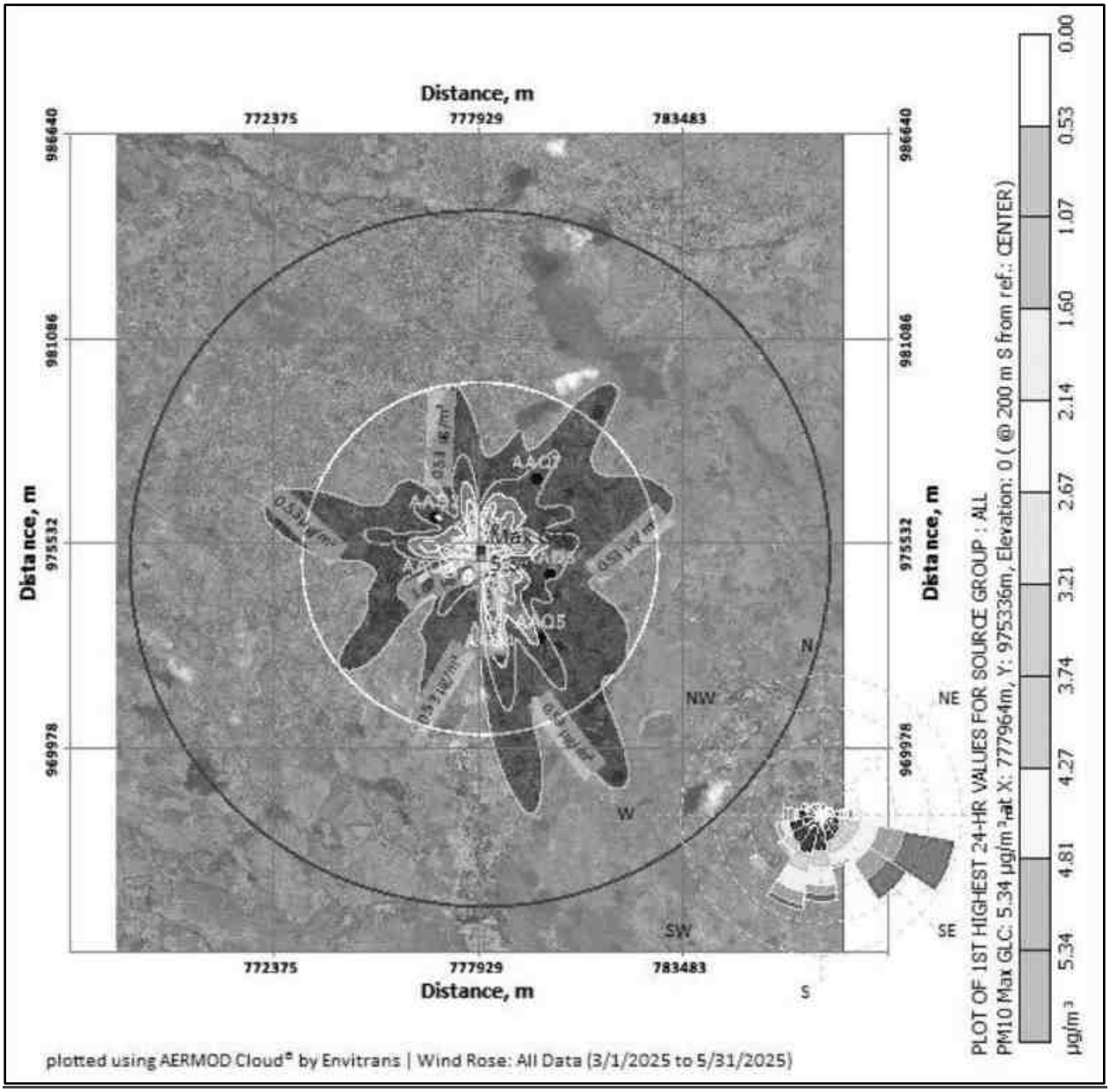


FIG 4.5 Isopleth of GLC Prediction –Cumulative for PM_{10}

PREDICTED AMBIENT AIR QUALITY:

The post project Concentrations of PM10, PM2.5, (GLC) (base line + incremental) after adopting necessary control measures is given in Table No - 4.5 to 4.8.

Table 4.5 Concentrations of PM2.5 after Project Implementation

S.No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Project site	37.73	2.77	40.5	60
2	Kandapatti	23.5	2.50	26	
3	Keela Karumpuliyuthu	30.9	2.22	33.12	
4	Maruthamputhur	31.93	1.94	33.87	
5	Udayampuli	23.0	1.66	24.66	
6	Alangulam	31.93	1.39	33.32	
7	Odaimarichan	31.3	1.11	32.41	

Table 4.6 Cluster Concentrations of PM2.5 after Project Implementation

S.No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Project site	37.73	3.39	41.12	60
2	Kandapatti	23.5	3.05	26.55	
3	Keela Karumpuliyuthu	30.9	2.71	33.61	
4	Maruthamputhur	31.93	2.37	34.3	
5	Udayampuli	23.0	2.04	25.04	
6	Alangulam	31.93	1.70	33.63	
7	Odaimarichan	31.3	1.36	32.66	

Table 4.7 Concentrations of PM10 after Project Implementation

S.No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³

1	Project site	82.0	4.26	86.26	100
2	Kandapatti	50.8	3.83	54.63	
3	Keela Karumpuliyuthu	65.3	3.41	68.71	
4	Maruthamputhur	68.0	2.98	70.98	
5	Udayampuli	48.3	2.13	50.43	
6	Alangulam	68.0	1.70	69.7	
7	Odaimarichan	66.2	1.28	67.48	

Table 4.8 Cluster Concentrations of PM10 after Project Implementation

S.No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Kandapatti	82.0	5.34	87.34	100
2	Keela Karumpuliyuthu	50.8	4.81	55.61	
3	Maruthamputhur	65.3	4.27	69.57	
4	Udayampuli	68.0	3.74	71.74	
5	Alangulam	48.3	3.21	51.51	
6	Odaimarichan	68.0	2.67	70.67	
7	Kandapatti	66.2	2.14	68.34	

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 50.43 µg/m³ to 86.26 µg/m³ and for $PM_{2.5}$ are in the range of 24.66 µg/m³ to 40.50 µg/m³ and PM_{10} are surrounding area range of 51.51 µg/m³ to 87.34 µg/m³ and for $PM_{2.5}$ are in the range of 25.04 µg/m³ to 41.12 µg/m³ which are within the statutory limits in each case. The mitigation measures undertaken in the mine for control of air pollution are given below.

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

- Three-layer plantation in the safety zone.
- DG sets shall be periodically maintained as per manufacturer's specifications.

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

4.4.1 NOISE ENVIRONMENT

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

4.4.2 Likely Noise Levels in Lease Area due to mining activity

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

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

Noise levels were measured in the lease area and in the nearby Kandapatti, Keela Karumpuliyuthu, Maruthamputhur, Udayampuli, Alangulam, Odaimarichan Villages, the values are given below.

TABLE 4.9 Noise Levels in Monitoring Locations

S.NO.	Location	Distance and direction from Mine lease area	Day Equivalent (in dBA)	Night Equivalent (dBA)
1	Within Mine Lease area	Core Zone	50.9	42.2
2	Kandapatti	1.42Km - SW	48.7	40.2
3	Keela Karumpuliyuthu	3.05Km - NE	45.9	42.4
4	Maruthamputhur	1.55Km - NW	47.2	41.2
5	Udayampuli	2.66Km - SE	49.6	42.6
6	Alangulam	3.3Km - N	50.3	40.6
7	Odaimarichan	2.92Km - S	48.0	40.0

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

4.4.3 Impact of Noise due to mining

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

of wildlife.

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

4.5 MITIGATION MEASURES

4.5.1 Noise level control.

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

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

4.5.2 IMPACTS DUE TO VIBRATION

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

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

Impacts

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

felt only for a short period.

Mitigation measures

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

4.5.3 SOCIO ECONOMIC IMPACT

From the primary Socio-economic survey & through secondary data available from established literature and census data 2011, it is found that there would be positive impact on Socio-economic condition of the nearby area. There is no habitation within 300 m of the proposed mining lease area. Therefore, no major impact is anticipated on the nearby habitation during the entire life of the mine. The entire lease area is in the proponent’s possession. Hence, there are no habitations or hutments in the core zone area and no rehabilitation or resettlement problems will arise here.

The mining operations in the proposed mine will employ about 35 persons directly and indirect basis through allied opportunities in logistics, trading, repairing works etc. good employment potential will arise, which will provide raising income levels and standards of living in the area through various service related activities connected with the project operations as shown under.

- Project related logistical operations for transport of Rough Stone, etc,
- Various trading services for consumer goods, spare parts, sundry items, etc.
- Contractual services connected with the project.
- Green belt and horticultural works in the project.
- Casual labor needs for various activities.

The State and the Central governments will also get benefited through financial revenues by way of royalty, tax etc from this project.

Mine management will contribute for the upliftment of these villages by conducting regular medical camps, assistance in developing necessary infrastructure facilities like maintenance of schools, village roads, drinking water supply, etc.

From above details, it is clear that the project operations will have highly beneficial positive impact in the area. However, towards the socio economic development of the surrounding area, the proponent has earmarked an amount of Rs.5.0 Lakhs under Corporate Environmental Responsibility.

4.5.4 OCCUPATIONAL HEALTH

Impacts on humans due to various mining activities

The occupational risk due to proposed mining may be due to drilling, blasting, excavation and transportation. A total of 35 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 4.10 Impacts on humans due to various mining activities		
S.No.	**Type of activity**	**Impact**
1	Dust generation due to drilling and blasting	Continuous exposure to dust causes Pneumonia, Tuberculosis, Rhematic arthritis and Segmental Vibration
2	Noise generation due to drilling and blasting	Short term impact will be lack of sleep, high blood pressure and heart ailments. Long term exposure may lead to partial or permanent deafness
3	Unexpected accidents	Risks include fly rocks, cracks or fissures due to improper mining methods

Mitigation measures

- The mines worker will be provided with dust mask to minimize the inhalation of the dust.
- Water sprinkling twice in a day is in practice on the haul roads, near excavation and roads to reduce the fugitive dust emission.
- Wet drilling and drilling with dust extractor will be practiced.
- Ear muffs will be supplied to the workers working in the noise prone area
- The mining site will be supplied with first aid facilities and the entire mines worker will have access to that.
- The mines workers will be well trained about the safety practices in the mining activities.
- As per Mines Rules, 1955, medical examination of employees at the initial stage and periodically, shall be done by a team of qualified medical officers provided by the project proponent.
- Regular medical checkup camps shall also be arranged for detection of occupational diseases and minor disease in the nearby rural population.
- Free checkup and medicine for treatment for their acute and chronic illness shall be provided by the lessee. Conducting periodical Medical Examination as per DGMS.
- Making all first aid kits available in mines office
- Keeping fire extinguisher in place
- Educating the employees about how to handle unexpected happenings

- Posting information containing emergency contact numbers in mines office
- By adopting all these measures, the safety of the employees working in the quarry will be ensured.

4.5.5 WASTE MANAGEMENT

Solid Waste

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

Liquid Waste

There is no process effluent generation from this mine. Hence no liquid waste is generated. Domestic wastewater i.e. 0.5 KLD will be discharged in soak pit via septic tank.

Hazardous Waste Management

In this project the following management practices will be followed:

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

Plastic Waste

Single use plastics/ use and throwaway plastics will be banned in the site as directed by the Tamil Nadu Government vide GO(Ms)No.84 regarding ban on use of plastic

products. The employees will be encouraged to use compostable material or reusable material.

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CHAPTER 5

ANALYSIS OF ALTERNATIVES

5.1 DESCRIPTION OF EACH ALTERNATIVE

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

5.2 SUMMARY OF ADVERSE IMPACTS OF EACH ALTERNATIVE

The project proponent has prepared mining plan under rule 19(1) 41 & 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 and the same has been approved by the Deputy Director, Department of Geology and Mining, Tenkasi vide Rc.No.M1/10/2025, Dated: 27.06.2025.

- 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 2.

5.4 SELECTION OF ALTERNATIVE

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

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

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CHAPTER 6

ENVIRONMENTAL MONITORING PROGRAMME

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

6.1.1 ENVIRONMENTAL MONITORING

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

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

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

6.1.2 OBJECTIVES OF ENVIRONMENTAL MONITORING

The objectives of Environmental Monitoring are as follows.

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

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

6.1.3 ENVIRONMENTAL MONITORING SCHEDULE

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

Table 6.1 Environmental Monitoring Schedule

S.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 – 3.8, 3.10,3.11 3.14 & 3.16.

6.1.5 MEASUREMENT METHODOLOGY

(a) Ambient Air Quality

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

(b) Water Quality

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

(c) Noise Monitoring

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

(d) Green Belt and Afforested Areas

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

(e) Socio-Economics

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

6.1.6 TECHNICAL ASPECTS OF MONITORING THE EFFECTIVENESS OF MITIGATION MEASURES

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

6.1.7 EMERGENCY PROCEDURES

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

6.1.8 REPORTS TO BE GENERATED

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

Table 6.2 Important Records to be maintained by PP

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

6.1.9 DETAILED BUDGET AND PROCUREMENT SCHEDULES

The budget planned for environmental monitoring is given below.

Table 6.3 - Environmental Management Plan Budget

S.No	Budget planned for	Capital Cost Amount (INR)	Recurring Cost/Annum Amount (INR)
1	Air Environment	8.56	2.29
2	Noise Environment	0.30	0.02
3	Waste Management	0.25	0.12
4	Mine Closure	0.93	0.19
5	Implementation of EC, Mining Plan & DGMS Condition	1.20	0.82
Total		**11.24**	**3.44**

Total EMP Cost for 5 Years is 30.19 lakhs

(This amount will be subjected to change after public hearing) i.e., 11.24 Lakhs of Capital Cost + 18.95 Lakhs of Recurring cost (For 5 Years)

Year	Recurring Cost (in lakhs) @ 5% escalation
1	3.44
2	3.60
3	3.78
4	3.97
5	4.17
TOTAL	18.95

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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-TamilNadu. • 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 and Gravel 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 are two existing quarries and this proposed quarry are located within a radius of 500 m. The existing and proposed quarries situated within 500 m radius are presented in below Table 7.2 and the letter received from Dept. of Geology and Mining, Tenkasi stating the quarries detail within 500m radius is enclosed in Annexure – 3.

Table 7.2 Details of Quarries within 500m radius

S.No.	Name of the Quary Owner	Village, Taluk & S.F.Nos.	Lease Period	Area in Ha
a. Existing Quarry				
1.	G.Karuppasamy, S/o. Gurusamy	Maruthamputhur-1 Village, Alangulam Taluk & 35/4A, 35/4B, 35/4C, 35/4D, 35/4E, 35/4F, 35/4G, 35/4H & 3/4I	5 Years 19.06.2023 to 18.06.2028	3.99.00

2.	M.Niraikulathan, S/o. Muthaiah	Maruthamputhur-2 Village, Alangulam Taluk & 144/2C, 144/2D, 144/2E, 144/2F, 144/2G & 144/2I	5 Years 30.11.2021 to 29.11.2026	2.07.00
b. Expired Quarry				
1.	G.Karuppasamy, S/o. Gurusamy	Maruthamputhur-2 Village, Alangulam Taluk & 162/6A, 162/6B, 163/4 & 163/5A	5 Years 08.01.2016 to 07.01.2021	3.76.00
2.	V.Muthaiah Konar	Maruthamputhur-1 Village, Alangulam Taluk & 35/5G & 35/5H	5 Years 18.05.2011 to 17.05.2016	1.54.00
c. Abandoned Quarry - Nil				
c. Present Proposed Quarry				
1.	Thiru.K.Prasadraju	S.F.Nos. 36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part-1 Village & 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C, 148/1 of Maruthamputhur Part-2 Village, Alangulam Taluk	Presently Proposed	5.99.05
Total Area of Cluster		12.05.05 Ha		

As seen above, the total lease area of the project 5.99.05 Ha, which is exceeding the 5 Ha and total cluster area including this proposal is 12.05.05 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 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.Prasadraju**	**G.Karuppasamy**	**M.Niraikulathan**
Geological Resources in Ts	Rough Stone	98,76,570	71,00,843.75	19,08,720
	Gravel	5,98,580	Gravel: 1,58,900 Weathered Rock: 3,97,250	Gravel: 1,38,816
Mineable Reserves in Ts	Rough Stone	37,07,247.50	18,64,362.5	8,07,523.75
	Gravel	4,93,070	Gravel: 1,11,864 Weathered Rock: 2,73,000	Gravel: 1,09,320
Production quantity for the period of 5years	Rough Stone	37,07,247.50	18,64,362.5	First 5 Years: Rough Stone - 4,03,755 Gravel - 66,120 Second 5 Years: Rough Stone - 4,03,768.75 Gravel - 43,200
	Gravel	4,93,070	Gravel: 1,11,864 Weathered Rock: 2,73,000	First 5 Years: Gravel - 66,120 Second 5 Years:

				Gravel - 43,200
	Peak Production	Rough Stone – 7,67,868.75 Gravel – 3,59,630	Rough Stone – 3,73,450 Gravel – 1,11,864 Weathered Rock: 2,73,000	First 5 Years: Rough Stone - 81,358.75 Gravel - 26,880 Second 5 Years: Rough Stone - 82,472.5 Gravel - 12,600
Production per day in Ts		2,471	1,245	269
Lorry Loads per day in Nos -		159	80	17 (First 5 Years)
Employment in Nos		35	19	18
Proposed Depth in meters		65 BGL	72 BGL	33 BGL
Status of the quarry		Proposed	Existing	Existing

AIR ENVIRONMENT

Based on the above production quantities the emissions due to various activities in cluster quarries include various activities like ground preparation, excavation, handling and transport.

The data on the cumulative production resulting from the 3 projects have been given in Tables 7.4.

Table 7.4 Cumulative Production Load

Quarry	Total Mineral Production per day (Ts)	Number of Lorry load per day
P1 (Proposed)	2,471	159
P2 (Existing)	1,245	80
P3 (Existing)	269	17
Grand Total	**3,985**	**256**

As two existing quarries are part of the current traffic flow. Hence, the incremental volume of the proposed project will bring 159 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 Chapter 2.

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 conceptual plan is provided in Figure 2.12.

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 area applied for quarry lease is exhibits almost plain topography covered by Gravel formation. The massive Charnockite formation is noticed below 5m (avg) Gravel formation and sloping towards southeastern side of the area, the altitude of the area is above 130m (maximum) from MSL.
- 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 & 10m safety zone which will form a ridge which can also take care of the top section and as such no risk is envisaged on this front.

Mitigation Measures

- Regular inspection of the mine faces to be carried out by pp for ensuring absence of any structural features like faults, joints, dyke, intrusive material in the rock strata which may affect the slope stability and cleared.
- No loose material or boulders is to be stacked on the mine top or pit benches.
- Height of the benches should be 5m.
- Haul road formation will be at 1 in 15 slope with adequate road width.
- There will be no ground water table intersection.
- No seepage is expected due to formation. Adequate drainage management system comprising peripheral garland drain, settling pond to regulate monsoon

water will be created to prevent saturation of compact layers, apparent drainage over the bench slope to avert damages to quarry face and manage the water flow.

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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.Prasadraju will create direct employment opportunity for 35 local people.

PP has proposed CER amount of Rs. 5.0 Lakhs for various activities. The copy of the letter is enclosed below and CER activities will be implemented in Government School. The list of activities proposed for CER is mentioned below

Table 8.1 CER Activities

S.NO.	PROPOSED CER ACTIVITIES	COST IN LAKHS.
1	Providing Compound Wall	5.0
Total		**5.0**
The above-mentioned CER activities will be spent for Government High School.		

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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. TO25B0108TN5458424N, dated 25/09/2025 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	There are two water bodies within 1 km radius. The other major water bodies in buffer are given below. • Odai-280m (SW), • Odai-355m (NE),

	• Navaluthukulam Tank-6.9km (NE), • Mathavarayankulam Tank-7.0km (NE)
	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 65m below ground level, Water table is found at a depth of 78m, hence the project will not intersect the Ground water table during entire quarry period.
Water Consumption and Wastewater generation	Water required for this project will be sourced from vendors.
	Domestic wastewater generation of 0.5 KLD will be treated in septic tank with soak pit.
	Conduct ground water and surface water monitoring for parameters specified by CPCB
Noise	The workers employed are provided with protection equipment, earmuffs and ear- plugs for the protection from high noise level generated at the mine site wherever required.
	Noise levels are controlled by using optimum explosive charge, proper delay detonators and proper stemming to prevent blow out of holes.
	Development of thick greenbelt all along the safety Zone (7.5m & 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	The overburden in the form of Gravel, after the 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.

Biological Environment	During mining, thick plantation will be carried out on the mentioned safety zone areas.
	The main attributes that retard the survival of sapling is fugitive dust, this fugitive dust can be controlled by water sprinkling on the haul roads and installing a sprinkler unit near the newly planted area.
	Regular review on green belt development programme.
	Year wise greenbelt development plan mentioned in Chapter III will be monitored.

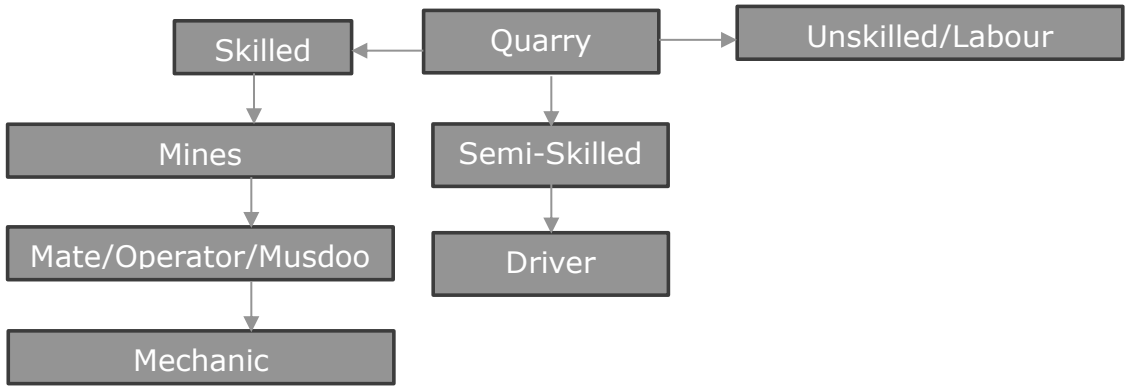
10.1.3 ADMINISTRATION AND TECHNICAL SETUP

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

- Monitoring of the water/ waste water quality, air quality and solid waste generated.
- Analysis of the water and air samples collected through external laboratory.
- Implementation and monitoring of the pollution control and protective measures/ devices which shall include financial estimation, ordering, installation of air pollution control equipment, waste water treatment plant, etc.
- Co-ordination of the environment related activities within the project as well as with outside agencies.
- Collection of health statistics of the workers and population of the surrounding villages.
- Green belt development.

- Monitoring the progress of implementation of the environmental monitoring programme.
- Compliance to statutory provisions, norms of State Pollution Control Board, Ministry of Environment and Forests and the conditions of the environmental clearance as well as the consents to establish and consents to operate.

Fig. 10.1 Organization Chart



1	Skilled	Mines Manager(II Class)	1 No
		Foreman/Mine Mate	2 Nos
		Operator	14 Nos
		Mechanic	1 No
2	Semi-Skilled	Diver	5 Nos
3	Un-skilled	Labours	12 Nos
		Total	**35 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.Prasadraju 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

S.No	Budget planned for	Capital Cost Amount (INR)	Recurring Cost/Annum Amount (INR)
1	Air Environment	8.56	2.29
2	Noise Environment	0.30	0.02
3	Waste Management	0.25	0.12
4	Mine Closure	0.93	0.19
5	Implementation of EC, Mining Plan & DGMS Condition	1.20	0.82
Total		11.24	3.44

Total EMP Cost for 5 Years is 30.19 lakhs

(This amount will be subjected to change after public hearing) i.e., 11.24 Lakhs of Capital Cost + 18.95 Lakhs of Recurring cost (For 5 Years)

Year	Recurring Cost (in lakhs) @ 5% escalation
1	3.44
2	3.60
3	3.78
4	3.97
5	4.17
TOTAL	18.95

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 30.19 lakhs has been

allocated for the same. The EMP is dynamic, flexible, and subjected to periodic review. For projects where major environmental impacts are associated, EMP will be under regular review. Thus, the proper steps will be taken to accomplish all the goals mentioned in the EMP, and the project will have a positive impact on the study area.

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CHAPTER 11

SUMMARY& CONCLUSION

11.1 OVER ALL JUSTIFICATION FOR IMPLEMENTATION OF THE PROJECT

INTRODUCTION

Thiru.K.Prasadraju has obtained Precise Area Communication Letter from Deputy Director, Department of Geology and Mining, Tenkasi, to quarry out 13,48,090m^3 of Rough Stone and 2,46,535m^3 of Gravel for 5 Years from an extent of 5.99.05 Ha located in S.Nos. 36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part-1 Village & 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C, 148/1 of Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State.

As per EIA notification, 2006 and its subsequent amendments the proposed "Rough Stone and Gravel Quarry of Thiru.K.Prasadraju mines 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. TO25B0108TN5458424N, dated 25/09/2025. This report has been prepared in line with the approved ToR for production of maximum excavation of 13,48,090m^3 of Rough Stone and 2,46,535m^3 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 and Gravel
4.	Type of Lease	Fresh Project
5.	Extent of the lease	5.99.05 Ha
6.	Proposed depth of Mining	65m BGL
7.	Method of mining	Opencast Mechanized
8.	Proposed lease period	5 Years
9.	Proposed Environmental Clearance	5 Years

10.	Proposed production quantity	13,48,090m^3 (37,07,247.50Ts) of Rough Stone and 2,46,535m^3 (4,93,070Ts) of Gravel for 5 Years.

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

1.1.1 LOCATION

This project site is located in Maruthamputhur Part-1 and Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State with Latitude 08°49'12.29"N to 08°49'25.62"N and Longitude: 77°31'31.17"E to 77°31'43.16"E with Survey of India Topo Sheet No. 58-H/09. To conduct the study, the proposed mine lease area (core zone) and an impact zone of 10 km radius (called buffer zone) around the proposed mine site were considered. The EIA report is based on three months baseline data (i.e. March 2025 to May 2025)

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 and Gravel quarry by Opencast Mechanized mining method with drilling and blasting. The quarrying is restricted up to a depth of 65m below ground level. The geological reserves are estimated to be 35,91,480m^3 of Rough Stone and 2,99,290m^3 of Gravel. The mineable reserve calculated by deducting 7.5m & 10m safety distance and bench loss. The mineable reserves are 13,48,090m^3 (37.53 %) of Rough Stone and 2,46,535m^3 of Gravel which will be recovered at the rate of 100% recovery upto a depth of 65m below ground level for the period of 5 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 Project
3	Category	B1
4	Nature of mineral	Minor mineral
5	Production	13,48,090m^3 (37,07,247.50Ts) of Rough Stone and 2,46,535m^3 (4,93,070Ts) of Gravel for 5 Years.
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	65m (BGL)
10	End use	Rough Stone will be loaded into tippers to needy buyers for producing aggregates, M-sand.

11.1.4 PROJECT REQUIREMENTS

The requirements of the project is given below.

S.No.	Nature of requirement	Description
1	Water requirement	Total water requirement of 2.0 KLD which will be procured from the outside agencies. Out of 0.5 KLD drinking water & Domestic requirements, Green belt development is 0.5 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 11,19,561 Litres of HSD. for entire life of the project**.**
3	Manpower requirement	Permanent employees – 12, temporary employees – 23
4	Financial requirement	The total project cost as per PFR will be INR 156.633 lakhs including Operational cost, Fixed Asset cost and EMP cost
5	Funds for Socio economic development	INR 5.0 Lakhs is allocated. In addition, any demand raised by people during public hearing will also be met.

11.1.5 DESCRIPTION OF LEASE AREA

The features in the study area is given below.

Table 11.1 Description of the lease area

S.No.	Areas	Distance from project site
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Nil within 15km radius
2	Areas which are important or sensitive for ecological reasons	
A	Wetlands, water courses or other water bodies,	• Odai-280m (SW), • Odai-355m (NE), • Navaluthukulam Tank-6.9km (NE), • Mathavarayankulam Tank-7.0km (NE)
B	Coastal zone, biospheres,	Nil within 10km radius
C	Mountains, forests	Nil within 10km Radius
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	Nil within 10 km radius

4	Inland, coastal, marine or underground waters	Nil within 10 km radius
5	State, National boundaries	Nil within 10 km radius
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Nil within 10 km radius
7	Defense installations	Nil within 10 km radius
8	Densely populated or built-up area	Odaimarichan – 0.8 km- NE
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Alangulam – 5.0Km - NW
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Nil
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	Nil
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earth quakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions) similar effects	No. The area is not prone to earthquakes, floods, etc.

The baseline data collection for meteorology, air, water, noise and soil environments have been carried out during March 2025 to May 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 have been carried out in 7 locations and the results are given below.

Table 11.2 : Details Of Ambient Air Quality Monitoring Locations

S.NO.	Station Code	Locations	Distance & Direction	Coordinates
1	AAQ 1	Within Mine Lease area	Core Zone	8°49'18.72"N & 77°31'35.35"E
2	AAQ 2	Kandapatti	1.42Km - SW	8°48'55.81"N & 77°30'46.20"N
3	AAQ 3	Keela Karumpuliyuthu	3.05Km - NE	8°50'18.76"N & 77°32'56.57"N
4	AAQ 4	Maruthamputhur	1.55Km - NW	8°49'50.20"N & 77°30'55.05"E
5	AAQ 5	Udayampuli	2.66Km - SE	8°48'2.03"N & 77°32'33.82"E
6	AAQ6	Alangulam	3.3Km - N	8°51'6.09"N & 77°31'50.11"E
7	AAQ7	Odaimarichan	2.92Km - S	8°47'39.54"N & 77°31'53.08"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	28.21	37.73	32.99
AAQ-2	17.0	23.5	20.20
AAQ-3	22.71	30.9	26.29
AAQ-4	23.52	31.93	27.46
AAQ-5	17.97	23.0	20.14
AAQ-6	23.52	31.93	27.46
AAQ-7	23.11	31.3	26.66
CPCB NAAQS 2009 for PM $_{2.5}$ - 60 $\mu g/m^3$			
Particulate matter PM-$_{10}$ ($\mu g/m^3$)			
AAQ-1	61.3	82.0	71.7
AAQ-2	37.0	50.8	43.90
AAQ-3	49.1	65.3	57.19
AAQ-4	50.1	68.0	58.47

AAQ-5	39.1	48.3	43.72
AAQ-6	50.1	68.0	58.47
AAQ-7	50.5	66.2	58.12
CPCB NAAQS 2009 for PM $_{10}$ - 100 µg/m^3			
Sulphur Di-oxide as SO_2 (µg/m^3)			
AAQ-1	5.1	11.4	7.97
AAQ-2	6	5.8	4.58
AAQ-3	5	9.5	7.2
AAQ-4	5.7	10.6	8.02
AAQ-5	4.4	9	6.71
AAQ-6	5.7	10.6	8.02
AAQ-7	5.1	8	6.6
CPCB NAAQS 2009 for SO_2 – 80 µg/m^3			
Oxide of Nitrogen as NO_2 (µg/m^3)			
AAQ-1	8.4	12.8	10.52
AAQ-2	6.7	9.0	7.85
AAQ-3	8	12.6	10.32
AAQ-4	8.6	13.2	10.91
AAQ-5	5.9	10.6	8.3
AAQ-6	8.6	13.2	10.91
AAQ-7	8.5	13.1	10.83
CPCB NAAQS 2009 for NO_2 – 80 µg/m^3			

11.2.2 WATER ENVIRONMENT

All the values were found to be within permissible limits

Table 3.8 Ground Water Analysis Results								**Standards as Per IS 10500: 2012**	
Parameter	**W1**	**W2**	**W3**	**W4**	**W5**	**W6**	**W7**	**Acceptable Limits**	**Permissible Limits**
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity	<1	<1	<1	<1	<1	<1	<1	1	5
pH at 25 ˚C	7.96	7.56	7.94	8.02	7.55	7.52	7.36	6.5- 8.5	No Relaxation
Electrical Conductivity	849.2	1217	1016	720.4	821.8	1515	1211	-	-
Total Dissolved Solids	522	735	618	436	498	910	730	500	2000

Total hardness (as $CaCO_3$)	272	492	142	216	276	230	392	200	600
Calcium (as Ca)	45.5	106	27.4	48	69.6	42.0	85.6	75	200
Magnesium (as Mg)	38	54.5	17.6	23	24.5	30.1	42.7	30.0	100
Calcium Hardness (as $CaCO_3$)	114	265	68.5	120	174	105	214	-	-
Magnesium Hardness (as $CaCO_3$)	158	227	73.5	96	102	125	178	-	-
Total alkalinity (as $CaCO_3$)	335	286	193	212	235	390	199	200	600
Chloride (as Cl)	112	210	232	126	144	315	257	250	1000
Free Residual chlorine	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	0.2	1
Sulphate as (SO_4^{2-})	73.6	116	182	49.8	52.3	270	214	200	400
Iron (as Fe)	0.05	0.07	0.03	0.05	0.04	0.07	0.03	0.3	No Relaxation
Nitrate (as NO_3)	1.85	2.28	2.44	BDL (D.L - 1.0)	BDL (D.L - 1.0)	4.56	4.05	45	No Relaxation
Fluoride (as F)	0.63	0.59	0.47	0.44	0.56	0.49	0.58	1	1.5
Manganese (as Mn)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	0.1	0.3

11.2.3 NOISE ENVIRONMENT

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

Monitoring Location	**N1**	**N2**	**N3**	**N4**	**N5**	**N6**	**N7**
DAY EQUIVALENT	50.9	48.7	45.9	47.2	49.6	50.3	48.0
NIGHT EQUIVALENT	42.2	40.2	42.4	41.2	42.6	40.6	40.0

DAY & NIGHT EQUIVALENT	49.4	47.3	45.0	46.0	48.3	48.7	46.6
Limits as per MoEF&CC							
Day equivalent - 55 dB (A); Night equivalent - 45 dB (A); Work zone Exposure in 8 hr - 90 dB (A)							

11.2.4 SOIL ENVIRONMENT

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

S. No	Parameter	Unit	S1	S2	S3	S4	S5	S6	S7
1	pH at 25 °C	-	6.32	6.96	6.22	6.14	6.72	7.05	6.89
2	Electrical Conductivity	µmhos/cm	46.72	181.2	79.25	21.94	92.21	192.5	110.3
3	Dry matter content	%	96.98	95.82	96.47	96.58	95.24	96.35	96.78
4	Water Content	%	3.02	4.18	3.53	3.42	4.76	3.65	3.22
5	Organic Matter	%	1.10	0.98	0.58	0.79	1.30	1.12	1.45
6	Nitrogen and Nitrogenous compounds	mg/kg	92.5	292	344.0	123.0	252.0	264	314.0
7	Soil Texture	%	silty clay	silty clay loam	silt loam	silt loam	loam	silty clay loam	loam
8	Grain Size Distribution i. Sand	%	8.94	13.36	24.45	29.54	33.20	14.25	33.99
	ii. Silt	%	46.65	47.98	68.24	53.21	49.22	48.56	48.25
	iii. Clay	%	44.41	38.66	7.31	17.25	17.58	37.19	17.76
9	Phosphorous as P	mg/kg	1.2	2.1	1.4	3.2	2.5	2.9	2.7
10	Sodium as Na	mg/kg	422.0	1055	596.0	212	403.0	1100	426.0
11	Potassium as K	mg/kg	340	897	248.0	138	290.0	896	310.0
12	Total soluble sulphates	%	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)

13	Porosity	%	18.9	17.9	18.3	19.4	17.5	18.6	18.9
14	Water Holding Cabacity	Inches/foot	34	35	38	40	36	42	44

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.	LAND USE / LAND COVER	Area in Sq.Km	Area in Percentage
1	Built-up Land	9.85	3.05
2	Crop Land	113.91	34.93
3	Existing Quarry	1.29	0.40
4	Fallow Land	15.6	4.78
5	Hill and Forest	8.62	2.64

6	Land with scrub	20.91	6.41
7	Land without scrub	123.83	37.97
8	Plantations	5.08	1.55
9	Self Affected Land	6.09	1.86
10	Water bodies	20.91	6.41
	Total Area	**326.09**	**100.00**

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 6 villages in the study area namely Kandapatti, Keela Karumpuliyuthu, Maruthamputhur, Udayampuli, Alangulam, Odaimarichan Villages. Discussions were held with the people from nearby locality to study the social and economic conditions prevailing in the area. The expert also visited nearby hospitals, primary health 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 Alangulam which is within 5.0 km from the lease area. Major schools with higher secondary and senior secondary schools are located in Alangulam. The major Panchayat Union located in the area is Alangulam. Facilities like petrol pump stations, ATM facility are available in Alangulam.

11.2.8 HYDROGEOLOGY OF THE LEASE AREA

There are two water bodies within 1 km radius. The other major water bodies in

buffer are given below.

- Odai-280m (SW),
- Odai-355m (NE),
- Navaluthukulam Tank-6.9km (NE),
- Mathavarayankulam Tank-7.0km (NE)

The quarrying activity will not intersect ground water table as quarrying is proposed upto a depth of 65m BGL and water table is found at a depth of 78m BGL.

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 65m BGL. Hence, there will not be any major impact due to mining on water levels or ground water levels in the area.

ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

Environmental impacts on the following environments are identified.

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

11.2.10 LAND ENVIRONMENT: IMPACT AND MITIGATION MEASURES

The major impact due to this project on land environment is the change in land use. Since this quarry is a small one and the production is less, mining activity will be carried out upto 65m BGL. Other than quarrying of minerals, no other change will be done since there is no dumping. To prevent soil erosion during monsoon season, garland drain will be constructed with silt traps. At the mine closure stage, 5.03.20 Ha of lease area will be left as rain water harvesting pond. 0.92.85 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 929 trees are planned to be planted. Spacing will be 3m x 3m.

11.2.11 WATER ENVIRONMENT: IMPACT AND MITIGATION MEASURES

There is no water body present inside the lease area. The entire water requirement for the project is 2.0 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 to the collection pond with silt traps.

Since the mining operation will be limited upto depth of 65m (BGL), there will not be any seepage. However, the rain water percolation and collection of water from seepage shall be less than 300lpm and it shall be pumped out periodically by a stand by diesel powered Centrifugal pump motivated with 7.5H.P.Motor. The quality of water is expected to be potable. Hence, water stored in the quarry pit will be pumped into the adjacent agricultural fields. Further the water can also be used for plantation purposes

The major water bodies found in the buffer zone are. There are two water bodies within 1 km radius. The other major water bodies in buffer are given below.

- Odai-280m (SW),

- Odai-355m (NE),
- Navaluthukulam Tank-6.9km (NE),
- Mathavarayankulam Tank-7.0km (NE)

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. The proponent will restrict the mining operation only within the lease and no other work will be carried out near the water body or any area outside the lease.

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

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

11.2.12 BIOLOGICAL ENVIRONMENT: IMPACT AND MITIGATION MEASURES

Impacts

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

Mitigation measures

- Sirens will be blown before blasting in the mines. To reduce noise levels, plantation will be done. Blasting will be carried out only in the allotted time.

- To reduce dust generation, mist sprayers will be used. During transportation, the material will be covered with tarpaulin. Water sprinkling will be done to reduce generation of pollutants
- After the mine closure stage, the mine pit will be left as rain water collecting tank, which can attract bird population in the nearby areas.
- To prevent entry of animals, the mining area will be properly fenced.

11.2.13 AIR ENVIRONMENT: IMPACT AND MITIGATION MEASURES

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

The major impacts are Dust emission due to drilling, blasting and transportation. The major mitigation measures include Using Wet drilling methods, Allowing drilling only with PPE, Carrying out blasting only during specified times, Avoiding blasting during unfavourable weather conditions, Using explosives of good quality, Using mist sprayers Regular wetting of transport, Covering the materials carried in tippers with tarpaulin, Proper maintenance of vehicles used for transportation, Conducting regular emission tests for vehicles used for transport Development of greenbelt is proposed in the safety zone 7.5m & 10m barriers in the lease area.

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

11.2.14 NOISE ENVIRONMENT: IMPACT AND MITIGATION MEASURES

Impacts

- Noise generation in mining is due to operation like drilling, blasting and transportation of minerals within and outside the lease area.
- As per DGMS (Directorate General of Mines Safety) and OSHA (Occupational Safety and Health Administration) limits, the acceptable noise level is 85 dB(A) for an exposure period of 8 hours.

- Exposure to loud noise can also cause high blood pressure, heart disease, sleep disturbances, and stress. Noise pollution also impacts the health and well-being of wildlife.
- Noise exceeding prescribed limits may cause impairment like abnormal loudness perception, tinnitus, which causes a persistent high-pitched ringing in the ears, paracusis or distorted hearing

Mitigation measures

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

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

11.2.15 VIBRATION: IMPACT AND MITIGATION MEASURES

Impacts

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

Mitigation measures

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

- Shallow depths jackhammer drilling and blasting is proposed to be carried out with minimum use of explosive
- Supervising blasting by competent and statutory foreman/ mines manager

11.2.16 SOCIO ECONOMIC ENVIRONMENT

Impact and Mitigation measures

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

11.2.17 OCCUPATIONAL HEALTH

Impacts

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

Mitigation measures

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

- Posting information containing emergency contact numbers in mines office
- By adopting all these measures, the safety of the employees working in the quarry will be ensured.

11.2.18 ENVIRONMENTAL MONITORING PROGRAMME

Monitoring is done to measure the efficiency of control measures implemented. Regular monitoring of various environmental parameters like air, water, noise and soil environments is needed to assess the status of environment during the project operation. A schedule is framed with timeline to monitor various parameters during the operation of the project. To evaluate the effectiveness of environmental management programme, regular monitoring of the important environmental parameters will be taken up. Air monitoring will be carried out once in 3 months, water sample will be collected once in a season, noise will be monitored once in 3 months, soil samples will be analyzed once per season. For EMP, a budget of INR 30.19 lakhs is allocated.

11.2.19 PROJECT BENEFITS

Financial benefits

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

Social benefits

- This project provides employment to 35 people directly. Local people will be hired for unskilled labour.

- Through CSR, nearby schools, hospitals will be benefitted.
- For CSR, INR 5,00,000 is allocated.
- Based on the demand of the people during public hearing, further funds will be allocated, if necessary.

Various aspects of mining activities were considered and related impacts were evaluated. Considering all the possible ways to mitigate the environmental concerns Environmental Management Plan was prepared and 30.19 lakhs for the 5 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.

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CHAPTER 12

DISCLOSURE OF CONSULTANTS

Global Mining Solutions is a NABET Accredited EIA consultant as per NABET certificate NABET/EIA/23-26/SA 0241. 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 a lease extent of 5.99.05 Ha. & Cluster extent of 12.05.05 Ha located at Maruthamputhur Part-1 and Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi 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

Period of involvement: March 2025 to May 2025.

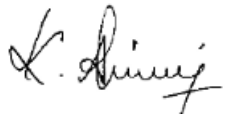
Contact information:

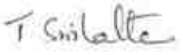
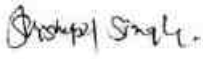
M/s Global Mining Solutions

Plot No.6, SF No. 13/2, A2, VS City, RC Chettypatty,

Kottamettupatty, Omalur,

Salem, Tamil Nadu – 636 455

S.NO.	*Functional areas*	*Name of the expert/s*	*Involvement (period and task**)*	*Signature and Date*
1	*AP*	*Dhanalakshmi Ramanathan*	*Assessment of existing air quality, Impact of the project on ambient air and suggested mitigation measures for air pollution.* *Period: March 2025 to May 2025.*	
2	*WP*	*Abirami Kaliaperumal*	*Assessment of existing water quality, impact of the project on surface and ground water quality, suggested mitigation measures for minimizing the impact.* *Period: March 2025 to May 2025*	
3	*SHW*	*Ramadoss N*	*Assessment of waste generated from the project, suggested waste management practices.* *Period: March 2025 to May 2025*	
4	*SE*	*Sarasvathy K*	*Baseline SE studies. Data compilation and assessment. Impact of the project on SE status of the area. Formulation of CER plan.* *Period: March 2025 to May 2025*	
5	*EB*	*Saravanan S*	*Baseline data collection of related to ecology of the area.* *Period: March 2025 to May 2025*	
6	*HG*	*Ravinthiran N*	*Hydrogeological feature of the area. Ground water depth and impact of project on ground water of the area.*	

			Period: March 2025 to May 2025	
7	*AQ*	*Srilatha Thiruveedhula*	*Air quality modeling utilizing the area source model. Predication of the ground level concentration of the dust. Suggesting suitable mitigation measures.* *Period: March 2025 to May 2025*	
8	*NV*	*Dhanalakshmi Ramanathan*	*Ambient noise study of the area. Incremental noise generation due to quarry operation and impact of the noise due to the project.* *Period: March 2025 to May 2025*	
9	*LU*	*Srilatha Thiruveedhula*	*Preparation of land use map based on satellite imagery. Land use classification and analysis. Impact prediction of the project on the surrounding land environment.* *Period: March 2025 to May 2025*	
10	*RH*	*S.V. Prashant*	*Identification of the Risk related to the mining activities. Preparation of emergency disaster management plan. Plan for supply of safety equipment for the worker.* *Period: March 2024 to May 2024*	
11	*SC*	*Shisupal Sing*	*Soil monitoring, secondary data collection on soil type, soil management practices, utilization of topsoil.* *Period: March 2025 to May 2025*	

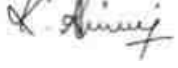
12	*GEO*	*Valliappan Meyyappan*	*Geological map, stability of quarry and dump, management plan for mine stability, after use of mining quarry and geological feature of the area.* *Period: March 2025 to May 2025*	

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(a)*	*Manikandan Manickam*	*Period: March to May 2025.*	*Associated with EIA Coordinator in overall preparation of Draft EIA/EMP report.*	

TM- FAE:						
S. NO	**Name of TM (FAE)**	**Functional Area**	**Approved FAE (to work under)**	**Period of involvement**	**Type of work**	**Signature**
1	Kamaraj S	HG	Ashok Kumar Rajagopal	*Period: March to May 2025.*	Associated with Experts in studying hydrogeological pattern of study area, Studying ground water and the impact of the project on ground water	
2	B.J.Sampatkkumar	SE	Saraswathy K	*Period: March to May 2025.*	Assisted by the Expert in preparation of socio-economic report.	
		SC	Shishupal Singh	*Period: March to May 2025.*	Assisted by the Expert in interpretation of soil sampling and their quality	

					involved in the project.	
3	Mownica Balaji	NV	Dhanalakshmi Ramanathan	*Period: March to May 2025.*	Associated with the expert team in suggesting control measures for noise and Ground Vibration.	Mownica.B
		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: March to May 2025.*	Associated with the expert in selection of base line monitoring stations, Review of Noise quality results, Review of emission sources – drilling, blasting, excavation and transportation, Identification of impacts on environment, identification of	

					remedial measures and input to EIA preparation	
		Geo	Valliappan Meyyappan		Associated with the expert in preparing Geological map.	
5	Suresh Mani	LU	Srilatha Thiruveedhula	*Period: March to May 2025.*	Associated with Experts in preparing Land use map based on satellite imagery, Land use classification and analysis, Impact prediction on surrounding land environment.	M. Suresh
		HG	Ashok Kumar Rajagopal		Associated with Experts in studying hydro-geology pattern of study area, studying water and the impact of the project on ground water.	
6	Asan Ali S	NV	Srilatha Thiruveedhula	*Period: March to May 2025.*	Associated with the expert in monitoring and analysis of blast induced ground vibration in order to develop the site-specific equation for its	S. Asan ali

					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: March to May 2025.*	Associated with Experts and involved in Field Investigations, Mapping /Geo-referencing	
8	Abirami Kaliyaperumal	RH	S V Prashant	*Period: March to May 2025.*	Associated with experts and involved in the identification risk and hazard, suggesting	

					safeguard measures.	
9	Dhanalakshmi Ramanathan	AQ	Srilatha Thiruveedhula	*Period: March to May 2025*	Involved with Expert team and involved in calculating air emission values using Meteorological data and Providing inputs for running modelling (ISCT3, AERMOD).	
10	Manikandan Manickam	AP	Ramadoss N	*Period: March to May 2025.*	Associated with expert team in assessing existing air quality, impact of the project on ambient air and suggesting mitigation measures for air pollution	
		WP	Abirami Kaliyaperumal		Involved in the identification of source of water and waste generation, suggesting treatment for safe disposal of wastewater	

ANNEXURE-1

File No: 12579
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA), TAMIL NADU)
***

Dated **25/09/2025**

To,

Thiru.K.PRASADRAJU
S/o.Kalyanasundaram, No.4/48, Indra Nagar, Nallur, Alangulam Taluk, Tenkasi District-627 853.
TAMIL NADU.
prasadraju.47@gmail.com

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

Sir/Madam,

Sub: SEIAA, Tamil Nadu – Terms of Reference along with Public Hearing (ToR) for the Proposed Rough Stone and Gravel Quarry over an extent of 5.99.05 Ha at S.F. No. 36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part-1 village, S.F. No. 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C and 148/1 of Maruthamputhur Part - 2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu by Thiru. K. Prasadraju – "B1" and Schedule S.No.1(a) – ToR issued along with Public Hearing- preparation of EIA report – Regarding.

Ref: 1. Online proposal No. SIA/TN/MIN/547582/2025, Dated: 09.08.2025.
2. Minutes of the 611th Meeting of SEAC held on 29.08.2025.
3. Minutes of the 887th Meeting of Authority held on 16.09.2025.

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO25B0108TN5458424N
(ii) File No.	12579
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vii) Name of Project	proposed roughstone and gravel quarry of Thiru.K.Prasadraju
(viii) Name of Company/Organization	PRASADRAJU
(ix) Location of Project (District, State)	TENKASI, TAMIL NADU
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions	no

(xii) 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 16.09.2025. The minutes of the meeting and all the Application and documents submitted [viz. Form-1 Part A, Part B] are available on PARIVESH portal which can be accessed by scanning the QR Code above.

3.The State Expert Appraisal Committee (SEAC), based on the information & clarifications provided by the project proponent and after detailed deliberations on all technical aspects recommended the proposal for grant of Terms of Reference with public hearing under the provision of EIA Notification, 2006 and as amended thereof subject to the stipulation of specific and general conditions as detailed in Annexure (2).

4.The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the SEAC hereby decided to issue the following Terms of Reference with public hearing for instant proposal of **Thiru. K. Prasadraju** 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 Additional Principal Chief Conservator of Forests, Regional Office (SZ), 34, HEPC Building, 1st& 2nd Floor, Cathedral Garden Road, Nungambakkam, Chennai – 34.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
6. The Chairperson, TNPC Board,76, Mount Salai, Guindy, Chennai-32.
7. The District Collector, Tenkasi District.
8. The Commissioner of Geology and Mines, Guindy, Chennai-32.
9. The Assistant Director, Department of Geology & Mining, Tenkasi District.
10. EI Division, Ministry of Environment & Forests, Paryavaran Bhawan, New Delhi.
11. File Copy.

Annexure 1

Specific Terms of Reference for (Mining Of Minerals)

1. Seac Conditions - Site Specific

S. No	Terms of Reference
1.1	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,**

S. No	Terms of Reference
	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 Boundary pillars to be erected 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 centers 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) 300 m & up to 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc. and spell out the mitigation measures to be proposed for the protection of the above structures, if any during the quarrying operations. 5. The proponent shall furnish photographs of adequate fencing; garland drainage built with siltation tank & green belt along the periphery including replantation of existing trees; maintaining the safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan. 6. The Proponent shall carry out Bio diversity study as a part of EIA study and the same shall be included in the Report. 7. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine. 8. The PP shall carry out the comprehensive studies on the cumulative environmental impacts of the existing & proposed quarries which included drilling & blasting, loading & hauling on the surrounding village and structures. 9. The PP shall prepare a conceptual action 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.

2. Seac Standard Conditions

S. No	Terms of Reference
2.1	1. In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following: (i) Original pit dimension (ii) Quantity achieved Vs EC Approved Quantity (iii) Balance Quantity as per Mineable Reserve calculated. (iv) Mined out Depth as on date Vs EC Permitted depth (v) Details of illegal/illicit mining (vi) Violation in the quarry during the past working. (vii) Quantity of material mined out outside the mine lease area (viii) Condition of Safety zone/benches (ix) Revised/Modified Mining Plan showing the benches of not exceeding 6 m height and ultimate depth of not exceeding 50m. 2. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site. 3. The proponent is requested to carry out a survey and enumerate on the structures located within

S. No	Terms of Reference
	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.

S. No	Terms of Reference
	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

S. No	Terms of Reference
	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.

3. Seiaa Specific Conditions :

S. No	Terms of Reference
3.1	The authority noted that the subject was placed in the 611th meeting of SEAC-II held on 29.08.2025. After detailed discussions, the Authority accepts the recommendation of SEAC-II and decided to **grant Terms of Reference (ToR) along with Public Hearing for the quantity of 13,48,090m^3 of Rough Stone and 2,46,535m^3 of Gravel up to the depth of 65m BGL. The annual peak production is 2,79,225m^3 of Rough Stone and 1,79,815m^3 of gravel as** per the approved mining plan, under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC-II & normal conditions & the SEIAA Standard conditions.

4. Seiaa Standard Conditions :

S. No	Terms of Reference
4.1	**Cluster Management Committee** 1. Cluster Management Committee shall be framed which must include all the proponents in the cluster as members including the existing as well as proposed quarry. 2. The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc., 3. The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease and the same shall be updated every year to the AD/Mines. 4. Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network. 5. The committee shall deliberate on risk & emergency management plan, fire safety & evacuation plan and sustainable development goals pertaining to the cluster in a holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan. 6. The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the Environmental policy devised shall be given in detail in the EIA Report. 7. The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner. 8. The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public in the vicinity. **Agriculture & Agro-Biodiversity** 9. Impact on surrounding agricultural fields around the proposed mining Area. 10. Impact on soil flora & vegetation around the project site. 11. Details of type of vegetation including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetation all along the boundary of the proposed mining area shall committed mentioned in EMP. 12. The Environmental Impact Assessment should study the agro-biodiversity, agro- forestry, horti-cultural plantations, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem. 13. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services. 14. The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock. **Forests** 15. The project proponent shall detailed study on impact of mining on Reserve forests and free ranging wildlife. 16. The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna. 17. The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection. 18. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site. **Water Environment** 19. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the entire mine lease period. 20. Erosion Control measures.

S. No	Terms of Reference
	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 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

S. No	Terms of Reference
	all the activities proposed shall be part of the Environment Management Plan. 39. The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the Environment. The ecological risks and impacts of plastic & microplastics on aquatic Environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.

Standard Terms of Reference for (Mining of minerals)

1.

S. No	Terms of Reference
1.1	Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994
1.2	A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given
1.3	All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee
1.4	All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the areashould be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone)
1.5	Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics
1.6	Details about the land proposed for mining activities should be givenwith information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority
1.7	It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large,may also be detailed in the EIA Report
1.8	Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided

S. No	Terms of Reference
1.9	The study rea will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period
1.10	Land use of the study rea delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given
1.11	Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given
1.12	A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the State Expert Appraisal Committees
1.13	Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished
1.14	Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated
1.15	The vegetation in the RF / PF areas in the study area, with necessary details, should be given
1.16	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted
1.17	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlifeand copy furnished
1.18	A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost

S. No	Terms of Reference
1.19	Proximity to Areas declared as Critically Polluted or the Project areas likely to come under the Aravali Range, (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered
1.20	Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority)
1.21	R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report
1.22	One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given
1.23	Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map
1.24	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated
1.25	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided
1.26	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided
1.27	Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided
1.28	Based on actual monitored data, it may clearly be shown whether working will intersect

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

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

STANDARD TERMS OF REFERENCE

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

9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.

10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.

12) Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.

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

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

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

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

17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects

due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.

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

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

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

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

22) One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season); December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented

date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.

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

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

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

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

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

28) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.

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

30) Information on site elevation, working depth, groundwater table etc. Should be provided

both in AMSL and Bgl. A schematic diagram may also be provided for the same.

31) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted 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.

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 -11013/77/2004-IA-II(I) dated 2nd December, 2009, 18th March 2010, 28th May 2010, 28th June 2010, 31st December 2010 & 30th September 2011 posted on the Ministry's website http://www.moef.nic.in/ may be referred.

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

Signed by
Rahul Nadh Anikkadu Reghunadhan
Date: 25-09-2025 18:43:43
Reason: Verified and signed

ANNEXURE-2

குறிப்பாணை

பொருள்: 36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E மற்றும் மருதம்புத்தூர் பகுதி -2 கிராமம் - பட்டா புலஎண்கள். 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C, 148/1 மொத்தம் 5.99.05 ஹெக்டேர் பரப்பில் சாதாரணை, கற்கள் மற்றும் கிராவல் வெட்டி எடுக்க குத்தகை உரிமம் 5 வருடங்களுக்கு வழங்கக் கோரி திரு.மு.பிரசாத்ராஜ் த/பெகல்யாணசுந்தரம் என்பவர் விண்ணப்பம் செய்தது - அங்கீகரிக்கப்பட்ட சுரங்கத்திட்டம் மற்றும் சுற்றுச் சூழல் ஒப்புதல் பெற்று அளிக்க கோருதல் - தொடர்பாக.

பார்வை:

1. திரு. கபிரசாத்ராஜ் த.பெ. கல்யாணசுந்தரம், எண்.4/48, இந்திரா நகர், நல்லூர்,ஆலங்குளம் வட்டம், தென்காசி மாவட்டம் - 627 853 என்பவரது விண்ணப்பம் நாள் : 23.01.2025.
2. ஆலங்குளம் வட்டார வளர்ச்சி அலுவலர் அவர்களின் கடிதம் ந.க.எண் BDOALG/343/2024-B3 நாள் 27.03.2025.
3. ஆலங்குளம் வட்டாட்சியர் அறிக்கை REVALG/142/2025-A1 நாள். 22.04.2025.
4. தென்காசி வருவாய் கோட்டாட்சியர் அவர்களின் கடிதம் ந.க.அ2-RDOTKS.562/2025 நாள்:27.05.2025.
5. தென்காசி புவியியல் மற்றும் சுரங்கத்துறை உதவி புவியியலாளர் அவர்களின் தணிக்கை குறிப்பு நாள்: 10.06.2025.
6. அரசு அனை எண் 169 தொழில் (எம்எம்சி1) துறை நாள் 04.08.2020.

தென்காசி மாவட்டம், ஆலங்குளம் வட்டம் - மருதம்புத்தூர் பகுதி -1 கிராமம் புல எண்கள் 36/1(0.14.5), 36/2B(0.17.55), 36/4B2(0.06.53), 36/4C(0.27.0), 37/1B2(0.03.47), 37/1E(0.20.5) மற்றும் மருதம்புத்தூர் பகுதி -2 கிராமம் - பட்டா புலஎண்கள் 145/1C(0.01.0), 145/1D (0.16.5), 145/1E(0.04.5), 146/9E(0.03.0), 146/9F(0.02.0), 146/9G(0.02.0), 147/1(0.39.5), 147/2A(0.27.0), 147/2B(0.52.5), 147/3A(0.37.0), 147/3B(0.47.0), 147/4C(0.76.0), 147/5F(0.07.5), 147/5H(0.24.5), 147/8B(0.40.0), 147/9C(0.30.0)&148/1(0.99.0) ஆகியவற்றின் மொத்தப்பரப்பு 5.99.05 ஹெக்டேரில் சாதாரணை, கற்கள் மற்றும் கிராவல் வெட்டி எடுக்க 5 ஆண்டுகளுக்கு குத்தகை உரிமம் வழங்கக் கோரி திரு.கபிரசாத்ராஜ் த/பெ.கல்யாணசுந்தரம் என்பவர் 1959 வருடத்தில்

தமிழ்நாடு சிறுகனிம சலுகை விதிகள், விதி எண் 19 (1) -ன் படி பார்வை1-ல் காண்பவாறு விண்ணப்பம் செய்துள்ளார்.

மேற்காணும் விண்ணப்பம் தொடர்பாக, ஆலங்குளம், வட்டார வளர்ச்சி அலுவலர் (கி.ஊ), ஆலங்குளம், வட்டாட்சியர், தென்காசி, வருவாய் கோட்டாட்சியர், தென்காசி, புவியியல் மற்றும் சுரங்கத்துறை உதவி புவியியலாளர் ஆகியோர் புலத்தணிக்கை செய்து முறையே பார்வை 2 முதல் 5 -ல் காணும் அறிக்கைகளின் படி மேற்காணும் விண்ணப்பப் புல எண்களின் மொத்தப் பரப்பு 5.99.05 ஹெக்டர் பரப்பில் ஐந்து ஆண்டுகளுக்கு தமிழ்நாடு சிறுகனிம சலுகை விதிகள், 1959-ன் விதி எண். 19 (1), 20, 22 ஆகியவற்றின் கீழ் சாதாரண கற்கள் மற்றும் கிராவல் மண் வெட்டியெடுக்க குவாரி குத்தகை உரிம அனுமதி சில நிபந்தனைக்குட்பட்டு வழங்கலாம் என பரிந்துரை செய்துள்ளனர்.

எனவே, ஆலங்குளம், வட்டார வளர்ச்சி அலுவலர் (கி.ஊ), ஆலங்குளம், வட்டாட்சியர், தென்காசி, வருவாய் கோட்டாட்சியர், தென்காசி, புவியியல் மற்றும் சுரங்கத்துறை உதவி புவியியலாளர் ஆகியோரது பரிந்துரையின் பேரில் திரு. மு.பிரசாத்ராஜு த/பெ. கல்யாணசுந்தரம், என்பவருக்கு தென்காசி மாவட்டம், ஆலங்குளம் வட்டம் - மருதம்புத்தூர் பகுதி -1 கிராமம் புல எண்கள் 36/1(0.14.5), 36/2B(0.17.55), 36/4B2(0.06.53), 36/4C(0.27.0), 37/1B2 (0.03.47), 37/1E(0.20.5) மற்றும் மருதம்புத்தூர் பகுதி -2 கிராமம் - பட்டா புலஎண்கள் 145/1C(0.01.0), 145/1D(0.16.5), 145/1E(0.04.5), 146/9E(0.03.0), 146/9F(0.02.0), 146/9G(0.02.0), 147/1(0.39.5), 147/2A(0.27.0), 147/2B(0.52.5), 147/3A(0.37.0), 147/3B(0.47.0), 147/4C(0.76.0), 147/5F(0.07.5), 147/5H(0.24.5), 147/8B(0.40.0), 147/9C(0.30.0)&148/1(0.99.0) ஆகியவற்றின் மொத்தப்பரப்பு 5.99.05 ஹெக்டேரை சாதாரண, கற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்கு தக்க பரப்பாக இறுதி செய்து 1959 -ஆம் வருட தமிழ்நாடு சிறுகனிம சலுகை விதிகள், விதி எண் 19 (1) -ன் 20 மற்றும் 22-ன் கீழ் ஐந்து ஆண்டுகளுக்கு குத்தகை உரிமம் வழங்க ஏதுவாக கீழ்க்காணும் நிபந்தனைகளுக்குட்பட்டு மேற்படி விதிகள் விதி எண் 41 மற்றும் 42-ன் படி சுரங்கத்திட்டம் மற்றும் தமிழ்நாடு மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் சுற்றுச்சூழல் இசைவு பெற்று சமர்ப்பிக்க மனுதாரருக்கு அறிவுறுத்தப்படுகிறது.

1. விண்ணப்ப புலங்களை சுற்றி அமைந்துள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு குவாரி பணிபுரிய வேண்டும்.
2. விண்ணப்ப புலத்திற்கு வடக்கு திசையில் செல்லும் வண்டி பாதை மற்றும் நிலவியல் பாதைக்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு குவாரிப் பணிபுரிய வேண்டும்.
3. குவாரி பணி மேற்கொள்ளும் போது அருகில் உள்ள பட்டதாரர்களுக்கு எவ்வித இடையூருகள்வராதவண்ணம் குவாரி பணி மேற்கொள்ள வேண்டும்.

4. 1959 -ஆம் வருட தமிழ்நாடு சிறுகனிம சலுகை விதிகள், விதி எண் 41 -ன் படி அங்கீகரிக்கப்பட்ட சுரங்கத்திட்டம் மற்றும் விதி எண் 42 -ன் படி சுற்றுச்சூழல் தடையின்மை சான்று பெற்று சமர்ப்பிக்க வேண்டும்.

18/06/25

துணை இயக்குநர்,
புவியியல் மற்றும் சுரங்கத்துறை,
தென்காசி.

பெறுநர்

திரு.மு.பிரசாத்ராஜ்
த.பெ. கல்யாணசுந்தரம்,
எண்.4/48, இந்திரா நகர்,
நல்லூர்,ஆலங்குளம் வட்டம்,
தென்காசி மாவட்டம் - 627 853.

18/06/25

ANNEXURE-3

From
Thiru.K.Ramesh, M.Sc.,
Deputy Director,
Geology and Mining,
Tenkasi.

To
Thiru.K. Prasadraju,
S/o. Kalyanasundaram,
No: 4/48, Indra Nager,
Nallur, Alangulam Taluk,
Tenkasi District – 627853.

Rc.No: M1/10/2025, dated:27.06.2025.

Sir,

Sub: Mines and Minerals – Tenkasi District Minor Minerals – TNMMCR, 1959 Rule 19(1) - Application preferred by Thiru.K. Prasadraju, S/o. Kalyanasundaram, for quarrying and transportation of Roughstone and Gravel in patta lands in – S.F.Nos.36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part -1 Village & 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C & 148/1 of Maruthamputhur Part-2 Village, of Alangulam Taluk, Tenkasi District, totally over an extent of 5.99.05Ha Hectares - precise area communicated - Mining plan submitted - Approval accorded - Reg.

Ref:
1. Application preferred by Thiru.K. Prasadraju, S/o. Kalyanasundaram, under Rule 19(1) dated: 23.01.2025.
2. Block Development Officer, Alangulam letter Rc.No. BDOALG/343/2024-B3 dated 27.03.2025.
3. Tahsildar, Alangulam letter Rc.No. REVALG/142/2025-A1 dated 22.04.2025.
4. The Revenue Divisional Officer - Tenkasi, Letter No. RDOTKS/562/2025-A2, dated. 27.05.2025.
5. Inspection report of the Assistant Geologist, Geology and Mining, Tenkasi, dated 10.06.2025.
6. The Deputy Director of Geology and Mining, Tenkasi, letter RC. No. M1/10/2025 dated: 18.06.2025.

7. Thiru.K. Prasadraju Letter dated: 24.06.2025

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Kind attention is invited to the references cited

2. Thiru.K.Prasadraju,S/o. Kalyanasundaram,No: 4/48, Indra Nagar, Nallur, Alangulam Taluk, Tenkasi District – 627853 has applied for grant of quarrying lease for Roughstone and Gravel in patta lands over an extent of 5.99.05 Hectares comprised in SF.Nos. 36/1(0.14.5), 36/2B(0.17.55), 36/4B2 (0.06.53), 36/4C (0.27.0), 37/1B2 (0.03.47), 37/1E (0.20.5) of Maruthamputhur Part -1 Village & 145/1C (0.01.0), 145/1D (0.16.5), 145/1E (0.04.5), 146/9E (0.03.0), 146/9F(0.02.0), 146/9G (0.02.0), 147/1(0.39.5), 147/2A(0.27.0), 147/2B(0.52.5), 147/3A (0.37.0), 147/3B (0.47.0), 147/4C (0.76.50), 147/5F (0.07.5), 147/5H (0.024.5), 147/8B (0.40.0), 147/9C (0.30.0) & 148/1 (0.99.0) of Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District for a period of 05 years under Rule 19 (1) of Tamil Nadu Minor Mineral Concession Rules, 1959 vide reference 1st cited.

3. The Block Development Officer, Alangulam, Tahsildar, Alangulam, the Revenue Divisional Officer, Tenkasi and the Assistant Geologist, Geology and Mining, Tenkasi inspected the subject area and furnished their report recommending for grant of quarrying lease in favour of the applicant, over an extent of 5.99.05Ha Hectares comprised in SF.Nos. 36/1(0.14.5), 36/2B(0.17.55), 36/4B2(0.06.53), 36/4C(0.27.0), 37/1B2(0.03.47), 37/1E(0.20.5) of Maruthamputhur Part -1 Village & 145/1C(0.01.0), 145/1D(0.16.5), 145/1E(0.04.5), 146/9E(0.03.0), 146/9F(0.02.0), 146/9G(0.02.0), 147/1(0.39.5), 147/2A(0.27.0), 147/2B(0.52.5), 147/3A(0.37.0), 147/3B(0.47.0), 147/4C(0.76.50), 147/5F(0.07.5), 147/5H(0.024.5), 147/8B(0.40.0), 147/9C(0.30.0) & 148/1(0.99.0) of Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District subject to certain conditions vide reference 2nd to 5th cited respectively.

4. Based on the recommendations and conditions imposed by the Block Development Officer, Alangulam, Tahsildar, Alangulam, the Revenue Divisional Officer, Tenkasi and the Assistant Geologist, Geology and Mining, Tenkasi precise area was communicated to the applicant over an extent of

5.99.05 Hectares comprised in SF.Nos. 36/1(0.14.5), 36/2B(0.17.55), 36/4B2(0.06.53), 36/4C(0.27.0), 37/1B2(0.03.47), 37/1E(0.20.5) of Maruthamputhur Part -1 Village & 145/1C(0.01.0), 145/1D(0.16.5), 145/1E(0.04.5), 146/9E(0.03.0), 146/9F(0.02.0), 146/9G(0.02.0), 147/1(0.39.5), 147/2A(0.27.0), 147/2B(0.52.5), 147/3A(0.37.0), 147/3B(0.47.0), 147/4C(0.76.50), 147/5F(0.07.5), 147/5H(0.024.5), 147/8B(0.40.0), 147/9C (0.30.0) & 148/1(0.99.0) of Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District for grant of quarrying lease for quarrying Roughstone and Gravel for a period of 05 years vide reference 6th cited.

5. As directed, the applicant has submitted three copies of draft Mining Plan duly prepared by a Qualified Person and requested for approval of the same vide reference 7th cited.

6. The draft mining plan submitted by the applicant was verified with reference to the field conditions. All the conditions stipulated in the precise area communicated have been incorporated in the Mining plan.

7. In view of the above, in exercise of the powers conferred under sub rule (2) and (5) of Rule 41 of Tamil Nadu Minor Mineral Concession Rules, 1959, the mining plan is hereby approved subject to the following conditions:-

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

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

iii. The approval of the mining plan does not in any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Development and Regulation) Act 1957, or any other connected laws including Forest (Conservation) Act 1980, forest Conservation Rules, 1981, Environment protection Act, 980, Indian Explosives Act, 1884 (Central Act IV of 1884) and the Rules made there

under and the Tamil Nadu Minor Mineral Concession Rules, 1959.

iv. Quarrying operations should be carried out in accordance with the Approved Mining Plan.

v. The applicant is entitled for total production of 37,07,247.5 T / 13,48,090 cbm of Rough stone and 4,93,070 T/ 2,46,535 cbm Gravel upto depth of 65 metres (5.0m Gravel + 60.0 m Rough Stone) below ground level for a period of 05 years as per the Mining Plan.

vi. A safety distance of 7.5 meters should be provided to the adjoining patta lands.

vii. A safety distance of 10 meters should be maintained to the cart track and to the nilaviyal pathai passing to the North of the applied area.

viii. No hindrance shall be caused to the adjoiing patta lands while carrying out quarrying operations.

ix. The applicant shall make his own arrangements for approach road.

x. Environmental Clearance should be obtained from the State Level Environment Impact Assessment Authority (SEIAA).

Encl: 2 copies of Approved Mining Plan.

27/06/25

Deputy Director
Geology and Mining
Tenkasi.

27/6/25

APPROVAL MINING PLAN

MINING PLAN FOR MARUTHAMPUTHUR PART-1 & MARUTHAMPUTHUR PART-2 ROUGH STONE & GRAVEL QUARRY

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

LOCATION OF THE QUARRY LEASE APPLIED AREA

STATE	:	TAMIL NADU
DISTRICT	:	TENKASI
TALUK	:	ALANGULAM
VILLAGE	:	MARUTHAMPUTHUR PART-1 & MARUTHAMPUTHUR PART-2
S.F.NOS	:	36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E OF MARUTHAMPUTHUR PART-1 VILLAGE & 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C & 148/1 OF MARUTHAMPUTHUR PART-2
EXTENT	:	5.99.05Ha

ECO-FRIENDLY

SUSTAINABILITY

SAFETY

FOR

APPLICANT

Thiru. K.Prasadraju,
S/o. Kalyanasundaram,
No:4/48, Indra Nagar,
Nallur, Alangulam Taluk,
Tenkasi District-627 853.

PREPARED BY

N.Ravinthiran, M.Sc.,(App.Geo)

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/2326/IA 0110

CONTACT: 97502 23535, 94446 54520

Email: infoglobalmining@gmail.com, globalminingsolutionssalem@gmail.com

(PPE)

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

K.Prasadraju,
S/o. Kalyanasundaram,
No:4/48, Indra Nagar,
Nallur, Alangulam Taluk,
Tenkasi District-627 853.

CONSENT LETTER FROM THE APPLICANT

The Mining Plan in respect of **Rough Stone and Gravel** quarry over an extent of 5.99.05hectares of Patta lands in S.F.Nos.36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part-1 Village and 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C and 148/1 of Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State has been prepared by

N.Ravinthiran, M.Sc.,(App.Geo)
Qualified Person

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

N.Ravinthiran, M.Sc.,(App.Geo)
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/2326/IA 0110
CONTACT: 97502 23535, 94446 54520

I hereby undertake that all modifications so made in the Mining Plan by the Qualificd Pcrson may bc 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.Prasadraju

Place: Tenkasi
Date: 19.06.2025

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

K.Prasadraju,
S/o. Kalyanasundaram,
No:4/48, Indra Nagar,
Nallur, Alangulam Taluk,
Tenkasi District-627 853.

DECLARATION

The Mining Plan in respect of **Rough Stone and Gravel** quarry over an extent of 5.99.05hectares of Patta lands in S.F.Nos.36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part-1 Village and 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C and 148/1 of Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi 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.Prasadraju

Place: Tenkasi
Date: 19.06.2025

N.Ravinthiran, M.Sc.,(App.Geo)
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/2326/IA 0110
CONTACT: 97502 23535, 94446 54520

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

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 5.99.05hectares of Patta lands in S.F.Nos.36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part-1 Village and 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C and 148/1 of Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State applied by Thiru.K.Prasadraju, 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.

N.Ravinthiran, M.Sc.,(App.Geo)
Qualified Person

Place:
Date: 20.06.2025

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

N.Ravinthiran, M.Sc.,(App.Geo)
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/2326/IA 0110
CONTACT: 97502 23535, 94446 54520

CERTIFICATE

Certified that, in preparation of Mining Plan for **Rough Stone and Gravel** quarry over an extent of 5.99.05hectares of Patta lands in S.F.Nos.36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part-1 Village and 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C and 148/1 of Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State for Thiru.K.Prasadraju, 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.

N.Ravinthiran, M.Sc.,(App.Geo)
Qualified Person

Place:
Date: 20.06.2025

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

CERTIFICATE

Certified that I, N.Ravinthiran, residing at 1699 / 1 – Madurai Road, Opp. Abcoy Garden, Sankar Nagar & (Po) – 627357. Tirunelveli District. I am a Post graduate in Geology (App.Geo) from university of Madras 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 5.99.05hectares of Patta land in S.F.Nos.36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part-1 Village and 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C and 148/1 of Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, by Thiru.K.Prasadraju, for a period of Five years. Since the Mining Plan is prepared as per the provisions contained in Rule 15(1) (a) and (b) of Minerals (Other than Atomic, Hydro Carbons Energy Minerals) concession Rules 2016, the same may be approved by the Competent Authority.

N.Ravinthiran, M.Sc.,(App.Geo)

Qualified Person

Place: Tirunelveli

Date: 20.06.2025

MINING PLAN APPROVED
By
Deputy Director
of Geology & Mining
Tenkasi Dist.

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Annexure

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6.0	Copy of A Register	VI
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LIST OF PLATES

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4.0	Topo sketch of Quarry lease applied area for 10Km Radius	I-C
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MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

MINING PLAN FOR MINOR MINERALS

ROUGH STONE AND GRAVEL

Over an extent of 5.99.05hectares of Patta land in S.F.Nos. 36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part-1 and S.F.Nos. 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C and 148/1of Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi 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.Prasadraju, S/o.Kalyanasundaram, residing at No.4/48, Indra Nagar, Nallur, Alangulam Taluk, Tenkasi District-627 853.
2. The application was processed by the Deputy Director, Department of Geology and Mining, Tenkasi, and passed an order vide Rc.No. M1/10/2025 dated 18.06.2025 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 5.99.05 hectares of Patta lands in S.F.Nos. 36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E, of Maruthamputhur Part-1 village and S.F.Nos. 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C and 148/1 of Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District of Tamil Nadu State for a period of five years.
3. Accordingly, Mining Plan is prepared under the provisions of rule 19(1), 41 and 42 as per the amendments under Tamil Nadu Minor Mineral Concession Rules, 1959 by incorporating following the conditions imposed in the precise area communication letter.

MINING PLAN APPROVED
By
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a) A 7.5 meters of safety distance should be left out for the adjacent patta lands while quarrying operation.

b) A 10-meter safety distance should be left out for the cart track & Pathway passing on the north side of the lease applied area, while quarrying operations.

c) No hindrance shall be caused to the adjoining pattadars while carrying out quarrying operations.

d) The applicant should submit the draft mining plan and environmental clearance per rules 41 and 42 of the Tamil Nadu Minor Mineral Concession Rules–1959.

4. Geological Resources is estimated at 98,76,570Ts of Rough stone, 5,98,580Ts of gravel formation. Mineable Reserves is estimated at 37,07,247.50Ts of Rough Stone, 4,93,070Ts 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 37,07,247.50Ts of Rough Stone, 4,93,070Ts 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 6.3km radius.

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

iii) There is no wild life animal sanctuary within 10Kms radius from the project site area under the Wildlife (Protection) Act, 1972.

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

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9. Environmental measures to be adopted shall be,

i) Dust Control at source while drilling and blasting,

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

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

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

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

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

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

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

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

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

EXECUTIVE SUMMARY:

a.	Name of the Village Panchayat	:	Maruthamputhur
b.	Name of the Panchayat Union	:	Alangulam
c.	The proposed total Minable Reserves	:	37,07,247.50Ts of Rough Stone 4,93,070Ts of gravel
d.	The proposed quantity of reserves (level of production) for Five years to be mined is(Recoverable reserves)	:	37,07,247.50Ts of Rough Stone 4,93,070Ts of gravel
e.	Total extent of the area	:	5.99.05Ha
f.	Proposed Period of mining	:	Five Years
g.	Existing depth	:	It is fresh quarry lease applied area
h.	Proposed Depth of mining	:	65m (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. 38,94,300 /- Rs. 82,50,000/- Rs. 6,70,000/- Total Project cost(A+B+C)=**Rs. 1,28,14,300/-**
l.	The area applied for lease is bounded by thirty five corners and the coordinates are clearly marked in plate no II.		

Corners	Co- ordinates		Distance between the corners
	Latitude	Longitude	
1	08° 49' 15.23"N	77° 31' 31.23"E	1-2 = 58.6m
2	08° 49' 17.02"N	77° 31' 31.90"E	2-3 = 9.8m
3	08° 49' 17.33"N	77° 31' 31.97"E	3-4 = 28.6m
4	08° 49' 17.82"N	77° 31' 31.17"E	4-5 = 42.0m
5	08° 49' 19.02"N	77° 31' 31.65"E	5-6 = 3.0m

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6	08° 49' 19.12"N	77° 31' 31.68"E	6-7 =	13.8m
7	08° 49' 19.53"N	77° 31' 31.85"E	7-8 =	9.2m
8	08° 49' 19.43"N	77° 31' 32.13"E	8-9 =	31.4m
9	08° 49' 20.40"N	77° 31' 32.46"E	9-10 =	3.2m
10	08° 49' 20.42"N	77° 31' 32.57"E	10-11 =	3.4m
11	08° 49' 20.37"N	77° 31' 32.68"E	11-12 =	109.6m
12	08° 49' 23.65"N	77° 31' 34.08"E	12-13 =	8.4m
13	08° 49' 23.76"N	77° 31' 33.83"E	13-14 =	59.8m
14	08° 49' 25.62"N	77° 31' 34.43"E	14-15 =	34.6m
15	08° 49' 24.71"N	77° 31' 35.10"E	15-16 =	36.6m
16	08° 49' 23.70"N	77° 31' 35.73"E	16-17 =	66.4m
17	08° 49' 22.06"N	77° 31' 37.15"E	17-18 =	2.2m
18	08° 49' 22.01"N	77° 31' 37.19"E	18-19 =	17.6m
19	08° 49' 21.32"N	77° 31' 37.48"E	19-20 =	72.4m
20	08° 49' 19.11"N	77° 31' 38.29"E	20-21 =	30.0m
21	08° 49' 18.60"N	77° 31' 39.16"E	21-22 =	23.4m
22	08° 49' 18.16"N	77° 31' 39.78"E	22-23 =	30.0m
23	08° 49' 17.15"N	77° 31' 39.40"E	23-24 =	18.0m
24	08° 49' 17.16"N	77° 31' 38.81"E	24-25 =	29.8m
25	08° 49' 16.13"N	77° 31' 38.54"E	25-26 =	15.4m
26	08° 49' 16.12"N	77° 31' 39.05"E	26-27 =	38.4m
27	08° 49' 15.77"N	77° 31' 40.25"E	27-28 =	40.6m
28	08° 49' 15.29"N	77° 31' 41.49"E	28-29 =	16.8m
29	08° 49' 14.76"N	77° 31' 41.65"E	29-30 =	11.2m
30	08° 49' 14.52"N	77° 31' 41.38"E	30-31 =	87.6m
31	08° 49' 12.29"N	77° 31' 43.16"E	31-32 =	99.2m
32	08° 49' 13.37"N	77° 31' 40.10"E	32-33 =	86.2m
33	08° 49' 13.90"N	77° 31' 37.33"E	33-34 =	36.0m
34	08° 49' 14.30"N	77° 31' 36.28"E	34-35 =	87.0m
35	08° 49' 14.44"N	77° 31' 33.44"E	35-1 =	70.2m

2.0 General Information:

2.1	a.	Name of the Applicant	:	Thiru.K.Prasadraju,
	b.	Address of the Applicant with phone No and e-mail id if any	:	S/o.Kalyanasundaram, No.4/48, Indra Nagar, Nallur, Alangulam Taluk, Tenkasi District. Pincode – 627 853. Cell No.:9443555063.
	c.	Status of the Applicant	:	Individual
2.2	a.	Mineral Which the applicant intends to mine	:	Rough Stone and Gravel.
	b.	Precise area communication letter No.	:	Precise area communication letter received from the Deputy Director, Department of Geology and Mining, Tenkasi, vide Rc.No. M1/10/2025 dated 18.06.2025.
	c.	Period of permission / lease granted	:	The Deputy Director, Department of Geology and Mining, Tenkasi, has grant of lease period for **five years.**
	d.	Name and Address of the QP preparing Mining Plan	:	**N.Ravinthiran,M.Sc.,(App.Geo)** **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/2326/IA 0110 Contact: 97502 23535, 94446 54520

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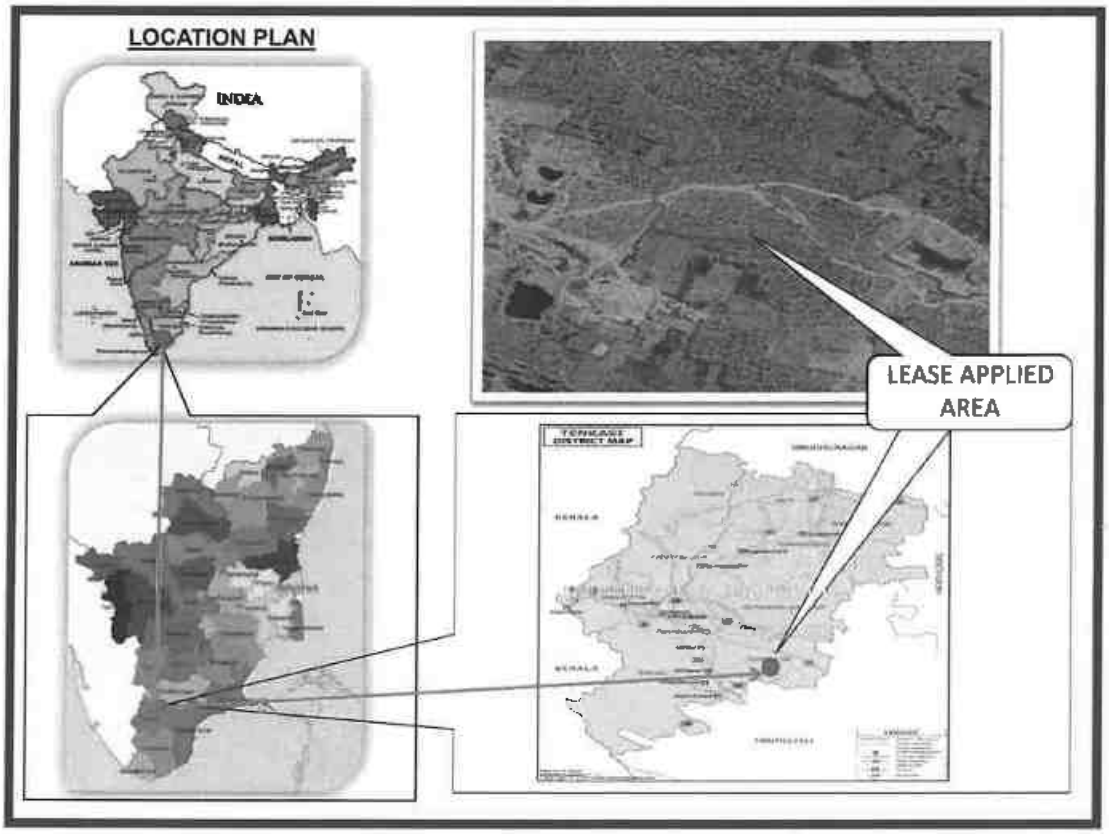
3.0 Location:

S.No		Details of the Area:
1	Corner Coordinates	Latitude :08°49'12.29"N to 08°49'25.62"N Longitude :77°31'31.17"E to 77°31'43.16"E
2	Toposheet Number	58-H/09
3	The altitude of the area	130m (MSL)
4	Extent	5.99.05Ha
5	Survey Nos	S.F.Nos. 36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E, of Maruthamputhur Part-1 and S.F.Nos. 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C and 148/1of Maruthamputhur Part-2
6	Village	Maruthamputhur Part- 1 & 2
7	Taluk	Alangulam
8	District	Tenkasi
9	State	Tamil Nadu



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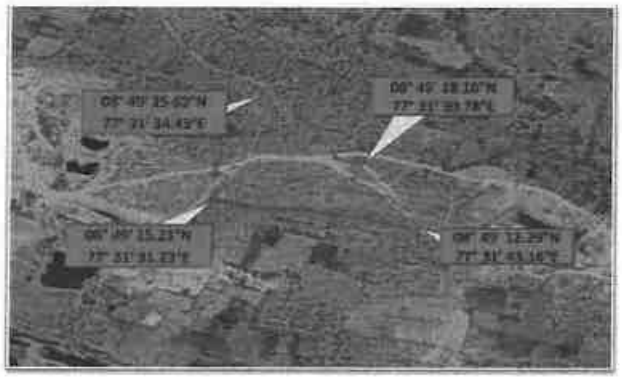
a.	Classification of the Area (Ryotwari / poramboke / others)	:	Patta land
b.	Ownership / Occupancy of the Applied area (Surface rights)	:	It is patta land registered in the name of Thiru.Pannerselvan, Thiru.Jaisundar, Thiru.Raju, Thiru.Karuppasamy Thiru.Niraikulathan vide patta no. 1828, 1871, 1913, 1011, 143, 900, 911, 1015, 1096 the applicant has obtained consent from the pattadar, Please refer Annexure No: IV and VII.
c.	Toposheet No. with Latitude and Longitude	: : :	Topo Sheet No: 58-H/ 09 Latitude :08°49'12.29"N to 08°49'25.62"N Longitude :77°31'31.17"E to 77°31'43.16"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 Maruthamputhur – Nalankurichi road on north side of the area. The Nearest Railway line is Tirunelveli to Tenkasi line which is about 13.3Km on southeast 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 5m Gravel formation and sloping towards southeastern side of the area, the altitude of the area is above 130m (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 from outcrops surrounding the lease applied area.
4.3	a.	Estimation of Reserves	:	The Geological and Recoverable reserves are estimated by cross sectional method. Totally three sections have been drawn, one section drawn length wise as (X-Y), and another two sections drawn width wise as (A-B), (C-D) to cover maximum area considered for lease. The Plans and Sections have been drawn with a scale of 1:1000 and 1:500 respectively. Please refer plate No.III.

a. Geological Resources

The quarrying is restricted up to a depth of 65m (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	Geological Resources of rough stone in m^3	Bulk Density	Gravel in Ts	Geological Resources of Rough stone in Ts
XY-AB	I	182	169	5	153790	-	2.00	307580	-
	II	182	169	5	-	153790	2.75	-	422922.5
	III	182	169	5	-	153790	2.75	-	422922.5
	IV	182	169	5	-	153790	2.75	-	422922.5
	V	182	169	5	-	153790	2.75	-	422922.5
	VI	182	169	5	-	153790	2.75	-	422922.5
	VII	182	169	5	-	153790	2.75	-	422922.5
	VIII	182	169	5	-	153790	2.75	-	422922.5
	IX	182	169	5	-	153790	2.75	-	422922.5
	X	182	169	5	-	153790	2.75	-	422922.5
	XI	182	169	5	-	153790	2.75	-	422922.5
	XII	182	169	5	-	153790	2.75	-	422922.5
	XIII	182	169	5	-	153790	2.75	-	422922.5
	Total				**153790**	**1845480**	-	**307580**	**5075070**
XY-CD	I	97	300	5	145500	-	2.00	291000	-
	II	97	300	5	-	145500	2.75	-	400125
	III	97	300	5	-	145500	2.75	-	400125
	IV	97	300	5	-	145500	2.75	-	400125
	V	97	300	5	-	145500	2.75	-	400125
	VI	97	300	5	-	145500	2.75	-	400125
	VII	97	300	5	-	145500	2.75	-	400125
	VIII	97	300	5	-	145500	2.75	-	400125
	IX	97	300	5	-	145500	2.75	-	400125
	X	97	300	5	-	145500	2.75	-	400125
	XI	97	300	5	-	145500	2.75	-	400125
	XII	97	300	5	-	145500	2.75	-	400125
	XIII	97	300	5	-	145500	2.75	-	400125
	Total				**145500**	**1746000**	-	**291000**	**4801500**
Grand Total					**299290**	**3591480**	-	**598580**	**9876570**

Gravel : 5,98,580Ts

The Geological Resources of Rough stone : 98,76,570Ts

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b. Mineable Reserve

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

Table No-2

Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel in m^3	Mineable Reserves of rough stone in m^3	Bulk Density	Gravel in (Ts)	Mineable Reserves of rough stone in (Ts)
XY-AB	I	169	147	5	124215	-	2.00	248430	-
	II	162	132	5	-	106920	2.75	-	294030.00
	III	157	122	5	-	95770	2.75	-	263367.50
	IV	152	112	5	-	85120	2.75	-	234080.00
	V	147	102	5	-	74970	2.75	-	206167.50
	VI	142	92	5	-	65320	2.75	-	179630.00
	VII	137	82	5	-	56170	2.75	-	154467.50
	VIII	132	72	5	-	47520	2.75	-	130680.00
	IX	127	62	5	-	39370	2.75	-	108267.50
	X	122	52	5	-	31720	2.75	-	87230.00
	XI	117	42	5	-	24570	2.75	-	67567.50
	XII	112	32	5	-	17920	2.75	-	49280.00
	XIII	107	22	5	-	11770	2.75	-	32367.50
	Total				**124215**	**657140**	-	**248430**	**1807135.00**
XY-CD	I	88	278	5	122320	-	2.00	244640	-
	II	80	263	5	-	105200	2.75	-	289300.00
	III	75	253	5	-	94875	2.75	-	260906.25
	IV	70	243	5	-	85050	2.75	-	233887.50
	V	65	233	5	-	75725	2.75	-	208243.75
	VI	60	223	5	-	66900	2.75	-	183975.00
	VII	55	213	5	-	58575	2.75	-	161081.25
	VIII	50	203	5	-	50750	2.75	-	139562.50
	IX	45	193	5	-	43425	2.75	-	119418.75
	X	40	183	5	-	36600	2.75	-	100650.00
	XI	35	173	5	-	30275	2.75	-	83256.25
	XII	30	163	5	-	24450	2.75	-	67237.50
	XIII	25	153	5	-	19125	2.75	-	52593.75
	Total				**122320**	**690950**	-	**244640**	**1900112.50**
Grand Total					**246535**	**1348090**	-	**493070**	**3707247.50**

The mineable reserve is computed as 37,07,247.50Ts of Rough stone, 4,93,070Ts of Gravel formation upto a depth 65m (below ground level) only.

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

The Yearwise Production and Development Table

Table No –3

Year	Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel in m^3	Mineable Reserves in of rough stone m^3	Bulk Density	Gravel in (Ts)	Mineable Reserves of rough stone in (Ts)
I	XY-AB	I	169	147	5	124215	-	2.00	248430	-
		II	162	132	5	-	106920	2.75	-	294030.00
		III	157	122	5	-	95770	2.75	-	263367.50
	XY-CD	I	40	278	5	55600	-	2.00	111200	-
		II	40	263	5	-	52600	2.75	-	144650.00
Total						**179815**	**255290**	-	**359630**	**702047.50**
II	XY-CD	I	48	278	5	66720	-	2.00	133440	-
		II	40	263	5	-	52600	2.75	-	144650.00
		III	75	253	5	-	94875	2.75	-	260906.25
		IV	70	243	5	-	85050	2.75	-	233887.50
	XY-AB	IV	70	112	5	-	39200	2.75	-	107800.00
Total						**66720**	**271725**	-	**133440**	**747243.75**
III	XY-AB	IV	82	112	5	-	45920	2.75	-	126280.00
		V	147	102	5	-	74970	2.75	-	206167.50
		VI	20	92	5	-	9200	2.75	-	25300.00
	XY-CD	V	65	233	5	-	75725	2.75	-	208243.75
		VI	60	223	5	-	66900	2.75	-	183975.00
Total						-	**272715**	-	-	**749966.25**

IV	XY-AB	VI	122	92	5	-	56120	2.75	-	154330.00
		VII	137	82	5	-	56170	2.75	-	154467.50
		VIII	132	72	5	-	47520	2.75	-	130680.00
	XY-CD	VII	55	213	5	-	58575	2.75	-	161081.25
		VIII	50	203	5	-	50750	2.75	-	139562.50
Total						-	**269135**	-	-	**740121.25**
V	XY-AB	IX	127	62	5	-	39370	2.75	-	108267.50
		X	122	52	5	-	31720	2.75	-	87230.00
		XI	117	42	5	-	24570	2.75	-	67567.50
		XII	112	32	5	-	17920	2.75	-	49280.00
		XIII	107	22	5	-	11770	2.75	-	32367.50
	XY-CD	IX	45	193	5	-	43425	2.75	-	119418.75
		X	40	183	5	-	36600	2.75	-	100650.00
		XI	35	173	5	-	30275	2.75	-	83256.25
		XII	30	163	5	-	24450	2.75	-	67237.50
		XIII	25	153	5	-	19125	2.75	-	52593.75
Total						-	**279225**	-	-	**767868.75**
Grand Total						**246535**	**1348090**	-	**493070**	**3707247.50**

The applicant has proposed to carry out 37,07,247.50Ts of Rough Stone, 4,93,070Ts of gravel upto a depth of 65m (below ground level) for the period of five years.

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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	12	32	Atlas Copco	Compressed air
2	Compressor	3	-	Atlas Copco	Diesel Drive

	b.	Loading	:	Excavator of 0.90m³ bucket capacity (with Rock breaker attachment) (2No).
	c.	Transportation	:	Tipper 5Nos (10/20Ts) capacity.
5.6		Disposal of Overburden	:	The overburden in the form of Gravel, after the excavation gravel will be directly loaded into tipper to the needy buyers for road project and construction works for filling and leveling of low lying areas.
5.7		Brief Note on Conceptual Mining Plan for the entire lease period	:	Conceptual Mining Plan is prepared with an object of five years of systematic development of bench lay outs, selection of ultimate pit limit, depth of quarrying, ultimate pit slope, selection of sites for construction of infrastructures etc. Ultimate pit size is designed based on certain practical factors such as the economical depth of mining, safety zones, permissible areas etc. Ultimate Pit dimension is given as under,

Ultimate Pit dimension (M) end of Mining plan Period			
Pit No	Length (max) in (m)	Width (Avg) in (m)	Depth(max) in(m)
I	278	181	65

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

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

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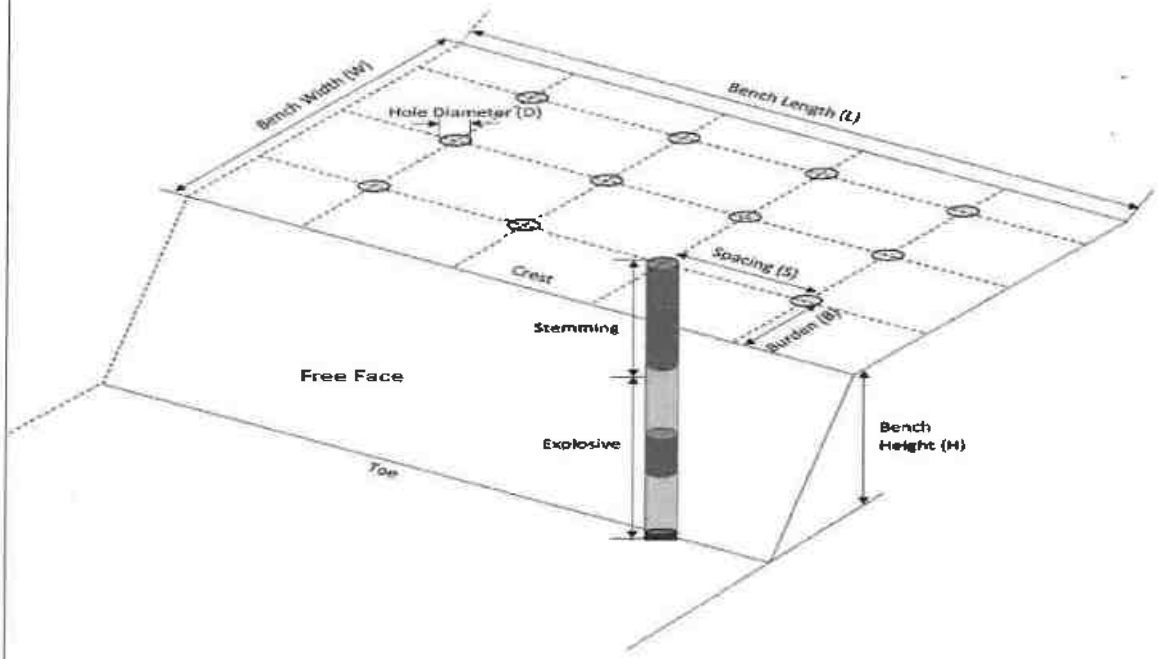
6.0 Blasting:

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

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



6.2	Types of Explosives	:	Small dia, 25mm slurry explosive are proposed to be used for shattering and heaving effect for removal and winning of Rough stone. No deep hole drilling or primary blasting is proposed.

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6.3	Measures proposed to minimize ground vibration due to blasting	:	➢ Controlled blasting measures will be adopted for minimizing ground vibration and fly rock. ➢ Shallow depths jackhammer drilling and blasting is proposed to be carried out with minimum use of explosive mainly to give shattering effect in rough stone for easy excavation and to control fly rock.

Number of holes	:	824
Powder factor	:	6Ts/Kg of explosives
Total explosive required	:	412Kg 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 65m (below ground level) depth has been envisaged as workable depth for safe & economic quarrying for the entire lease period. Hence the quarrying operation may not affect the ground water.
7.2	Arrangement and Places where the mine water is finally proposed to be discharged	:	The ground water may not rise immediately in this type of mining. However, the rain water percolation and collection of water from the seepage shall be less than 300lpm and it shall be pumped about periodically by a stand by diesel powered Centrifugal pump motivated with 7.5H.P.Motor. The quality of water is potable and it is not contaminated with any hazardous things. Hence, water stored in the quarry pit will be pumped into the adjacent agricultural fields. Further the water stored in the old pit will also be used for plantation purposes

8.0 Other Permanent Structures:

8.1	Habitations / Village	:	There is no habitations situated within a radius of 300m.
8.2	Power lines (HT/LT)	:	There is no Power line (HT/LT) passing within a radius of 50m.
8.3	Water bodies (River, Pond, Lake, Odai, Channel etc)	:	There is seasonal odai passing southwest and northeast side of the area and is 280m and 355m 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-44) Madurai – Tirunelveli is about 22km on east side of the area. The State Highway (SH-40A) Kadayam - Mukkudal is about 0.65Km on southwest 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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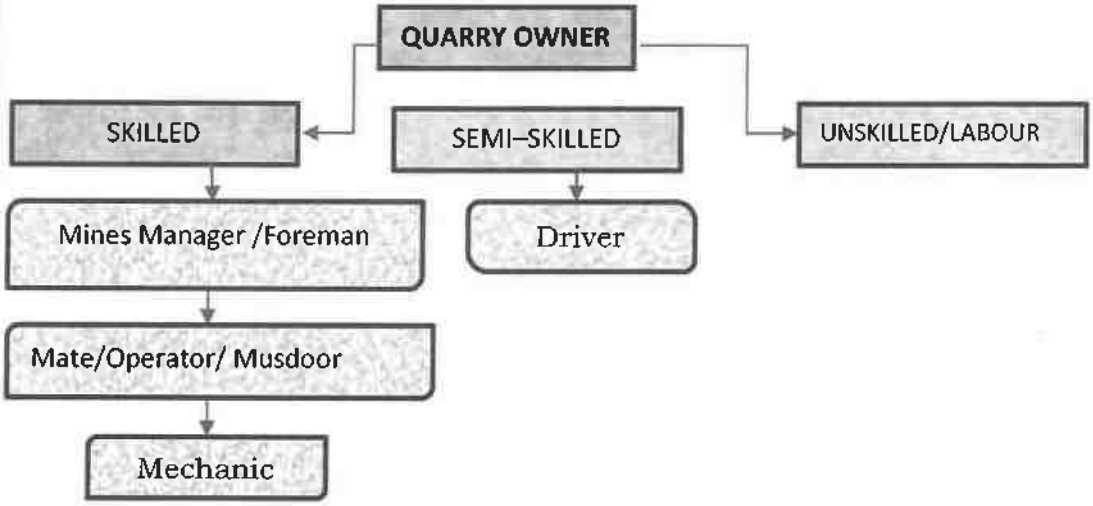
9.0 Employment Potential & Welfare Measures:

9.1 Employment Potential (Management & Supervisory personal)

The proposed organization chart



1.	Skilled	Mines Manager	1 No.
		Foreman / Mate	2 No.
		Operator	14 No.
		Mechanic	1 No.
2.	Semi–skilled	Driver	5 No.
3.	Unskilled	Labours	12Nos
		Total =	35Nos

Allowing 10% absentee, the no. of men of roll will be around 33.

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 Maruthamputhur village which is about 1.4Km on northwest side of the area.

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	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 4Km (NW) in Alangulam 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. 		

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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 65m (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	5.03.20
2.	Infrastructure	Nil	0.01.00
3.	Roads	Nil	0.02.00
4.	Green Belt	Nil	0.92.85
5.	Unutilized	5.99.05	Nil
	Total =	**5.99.05**	**5.99.05**

10.2	Water Regime	:	Water table in this area is noticed at a depth of 78m and presently, in the proposed mining plan only 65m (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.

MINING PLAN APPROVED
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of Geology & Mines

<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 18ºC during winter and to a maximum of 42ºC 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>Karumpuliyuthu</td><td>2.5Km - NE</td><td>700</td></tr>
<tr><td>2.</td><td>Maruthamputhur</td><td>1.4km - NW</td><td>1500</td></tr>
<tr><td>3.</td><td>Nalankurichi</td><td>1.7km - E</td><td>500</td></tr>
<tr><td>4.</td><td>Kandapatti</td><td>1.3km - SW</td><td>600</td></tr>
</table></td></tr>
<tr><td>10.6</td><td>Plan for Air, Dust Suppression</td><td>:</td><td>Air or dust expected to be generated from drilling process, hauling roads, places of excavation etc., will be suppressed by periodical wetting of land by water spraying. Wet drilling and dust extractor arrangements will be provided to drilling units so as to control raise of dust from the site of drilling. Operators, those exposed directly to such conditions will be provide such protective equipment like mask, ear plug, helmet, gloze etc., as per the Mines Act.</td></tr>
<tr><td>10.7</td><td>Plan for Noise Control</td><td>:</td><td>Quarrying of Rough Stone will be carried out by drilling and blasting by using low power explosives, and hence, noise will be very minimum. However, periodical noise level monitoring will be carried out to check the noise level in and around the quarry site. Nowhere the noise level should exceed the permissible limit of 80db during the quarry working hours.</td></tr>
</table>

10.8	Environmental Impact Assessment Statement Describing Impact on mining on the next Five years	:	The mining plan proposed is for a small production of Rough stone without involving deep hole drilling and heavy blasting. Such limited mining activity is not likely to cause any impact adversely on environment as far as pollution of air, water and noise is concerned, anyhow environmental impact studies will be conducted as per EIA notification issued by MOEF.
10.9	Proposal for Waste Management	:	There is no waste anticipated in this rough stone quarry operation.
10.10	Proposal of Reclamation of Land affected during mining activities and at the end of mining.	:	In the proposed mining plan 65m (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 65m depth, fencing will be constructed around the quarried pits to prevent inherent entry of the public and cattle.
10.11	Program for Afforestation	:	The 7.5m and 10m safety distance along the lease boundary has been identified to be utilized for afforestation Appropriate native species of Neem/Pungan trees will be planted in the first year. Nearly 9285Sqm area is proposed to use under afforestation by planting 1115nos 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. 35,94,300 Rs.1,00,000 Rs.1,00,000 Rs.1,00,000 **Rs. 38,94,300 /-**

	B. Operational Cost: 1. Machineries 2. Fencing cost **Total**	: : :	 Rs.80,00,000- Rs. 2,50,000 **Rs.82,50,000/-**
	C.EMP Cost: **Expenditure** 1. Drinking water facility 2. Sanitary Arrangements 3. Safety kids 4. Water sprinkling 5. Afforestation **Total=**	: : : :

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

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

N.Ravinthiran,M.Sc.,(App.Geo).,
Qualified Person

Place :
Date : 20.06.2025

This Mining Plan is approved Subject to the Conditions / Stipulation Indicated in the Mining Plan Approval
Letter Roc. No: M1/10/2025
Dated 27/06/25

Deputy Director
Dept. of Geology and Mining
Tenkasi.
27/06/25

27/6/25

ந.க. எண்1/10/2025 நாள்: 18.06.2025.

குறிப்பாணை

பொருள்: 36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E மற்றும் மருதம்புத்தூர் பகுதி -2 கிராமம் - பட்டா புலஎண்கள். 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C, 148/1 மொத்தம் 5.99.05 ஹெக்டேர் பரப்பில் சாதாரணை, கற்கள் மற்றும் கிராவல் வெட்டி எடுக்க குத்தகை உரிமம் 5 வருடங்களுக்கு வழங்கக் கோரி திரு.மு.பிரசாத்ராஜ் த/பெகல்யாணசுந்தரம் என்பவர் விண்ணப்பம் செய்தது - அங்கீகரிக்கப்பட்ட சுரங்கத்திட்டம் மற்றும் சுற்றுச் சூழல் ஒப்புதல் பெற்று அளிக்க கோருதல் - தொடர்பாக.

பார்வை:

1. திரு. கபிரசாத்ராஜ் த.பெ. கல்யாணசுந்தரம், எண்.4/48, இந்திரா நகர், நல்லூர்,ஆலங்குளம் வட்டம், தென்காசி மாவட்டம் - 627 853 என்பவரது விண்ணப்பம் நாள் : 23.01.2025.
2. ஆலங்குளம் வட்டார வளர்ச்சி அலுவலர் அவர்களின் கடிதம் ந.க.எண் BDOALG/343/2024-B3 நாள் 27.03.2025.
3. ஆலங்குளம் வட்டாட்சியர் அறிக்கை REVALG/142/2025-A1 நாள். 22.04.2025.
4. தென்காசி வருவாய் கோட்டாட்சியர் அவர்களின் கடிதம் ந.க.அ2-RDOTKS.562/2025 நாள்:27.05.2025.
5. தென்காசி புவியியல் மற்றும் சுரங்கத்துறை உதவி புவியியலாளர் அவர்களின் தணிக்கை குறிப்பு நாள்: 10.06.2025.
6. அரசு அனை எண் 169 தொழில் (எம்எம்சி1) துறை நாள் 04.08.2020.

தென்காசி மாவட்டம், ஆலங்குளம் வட்டம் - மருதம்புத்தூர் பகுதி -1 கிராமம் புல எண்கள் 36/1(0.14.5), 36/2B(0.17.55), 36/4B2(0.06.53), 36/4C(0.27.0), 37/1B2(0.03.47), 37/1E(0.20.5) மற்றும் மருதம்புத்தூர் பகுதி -2 கிராமம் - பட்டா புலஎண்கள் 145/1C(0.01.0), 145/1D (0.16.5), 145/1E(0.04.5), 146/9E(0.03.0), 146/9F(0.02.0), 146/9G(0.02.0), 147/1(0.39.5), 147/2A(0.27.0), 147/2B(0.52.5), 147/3A(0.37.0), 147/3B(0.47.0), 147/4C(0.76.0), 147/5F(0.07.5), 147/5H(0.24.5), 147/8B(0.40.0), 147/9C(0.30.0)&148/1(0.99.0) ஆகியவற்றின் மொத்தப்பரப்பு 5.99.05 ஹெக்டேரில் சாதாரணை, கற்கள் மற்றும் கிராவல் வெட்டி எடுக்க 5 ஆண்டுகளுக்கு குத்தகை உரிமம் வழங்கக் கோரி திரு.கபிரசாத்ராஜ் த/பெ.கல்யாணசுந்தரம் என்பவர் 1959 வருடத்தில்

தமிழ்நாடு சிறுகனிம சலுகை விதிகள், விதி எண் 19 (1) -ன் படி பார்வை1-ல் காண்பவாறு விண்ணப்பம் செய்துள்ளார்.

மேற்காணும் விண்ணப்பம் தொடர்பாக, ஆலங்குளம், வட்டார வளர்ச்சி அலுவலர் (கி.ஊ), ஆலங்குளம், வட்டாட்சியர், தென்காசி, வருவாய் கோட்டாட்சியர், தென்காசி, புவியியல் மற்றும் சுரங்கத்துறை உதவி புவியியலாளர் ஆகியோர் புலத்தணிக்கை செய்து முன்மொழிவு பார்வை 2 முதல் 5 -ல் காணும் அறிக்கைகளின் படி மேற்காணும் விண்ணப்பப் புல எண்களின் மொத்தப் பரப்பு 5.99.05 ஹெக்டர் பரப்பில் ஐந்து ஆண்டுகளுக்கு தமிழ்நாடு சிறுகனிம சலுகை விதிகள், 1959-ன் விதி எண். 19 (1), 20, 22 ஆகியவற்றின் கீழ் சாதாரண கற்கள் மற்றும் கிராவல் மண் வெட்டியெடுக்க குவாரி குத்தகை உரிம அனுமதி சில நிபந்தனைக்குட்பட்டு வழங்கலாம் என பரிந்துரை செய்துள்ளனர்.

எனவே, ஆலங்குளம், வட்டார வளர்ச்சி அலுவலர் (கி.ஊ), ஆலங்குளம், வட்டாட்சியர், தென்காசி, வருவாய் கோட்டாட்சியர், தென்காசி, புவியியல் மற்றும் சுரங்கத்துறை உதவி புவியியலாளர் ஆகியோரது பரிந்துரையின் பேரில் திரு. மு.பிரசாத்ராஜ் த/பெ. கல்யாணசுந்தரம், என்பவருக்கு தென்காசி மாவட்டம், ஆலங்குளம் வட்டம் - மருதம்புத்தூர் பகுதி -1 கிராமம் புல எண்கள் 36/1(0.14.5), 36/2B(0.17.55), 36/4B2(0.06.53), 36/4C(0.27.0), 37/1B2 (0.03.47), 37/1E(0.20.5) மற்றும் மருதம்புத்தூர் பகுதி -2 கிராமம் - பட்டா புலஎண்கள் 145/1C(0.01.0), 145/1D(0.16.5), 145/1E(0.04.5), 146/9E(0.03.0), 146/9F(0.02.0), 146/9G(0.02.0), 147/1(0.39.5), 147/2A(0.27.0), 147/2B(0.52.5), 147/3A(0.37.0), 147/3B(0.47.0), 147/4C(0.76.0), 147/5F(0.07.5), 147/5H(0.24.5), 147/8B(0.40.0), 147/9C(0.30.0)&148/1(0.99.0) ஆகியவற்றின் மொத்தப்பரப்பு 5.99.05 ஹெக்டேரை சாதாரண, கற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்கு தக்க பரப்பாக இறுதி செய்து 1959 -ஆம் வருட தமிழ்நாடு சிறுகனிம சலுகை விதிகள், விதி எண் 19 (1) -ன் 20 மற்றும் 22-ன் கீழ் ஐந்து ஆண்டுகளுக்கு குத்தகை உரிமம் வழங்க ஏதுவாக கீழ்க்காணும் நிபந்தனைகளுக்குட்பட்டு மேற்படி விதிகள் விதி எண் 41 மற்றும் 42-ன் படி சுரங்கத்திட்டம் மற்றும் தமிழ்நாடு மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் சுற்றுச்சூழல் இசைவு பெற்று சமர்ப்பிக்க மனுதாரருக்கு அறிவுறுத்தப்படுகிறது.

1. விண்ணப்ப புலங்களை சுற்றி அமைந்துள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு குவாரி பணிபுரிய வேண்டும்.
2. விண்ணப்ப புலத்திற்கு வடக்கு திசையில் செல்லும் வண்டி பாதை மற்றும் நிலவியல் பாதைக்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு குவாரிப் பணிபுரிய வேண்டும்.
3. குவாரி பணி மேற்கொள்ளும் போது அருகில் உள்ள பட்டதாரர்களுக்கு எவ்வித இடையூருகள்வராதவண்ணம் குவாரி பணி மேற்கொள்ள வேண்டும்.

4. 1959 -ஆம் வருட தமிழ்நாடு சிறுகனிம சலுகை விதிகள், விதி எண் 41 -ன் படி அங்கீகரிக்கப்பட்ட சுரங்கத்திட்டம் மற்றும் விதி எண் 42 -ன் படி சுற்றுச்சூழல் தடையின்மை சான்று பெற்று சமர்ப்பிக்க வேண்டும்.

18/06/25

துணை இயக்குநர்,
புவியியல் மற்றும் சுரங்கத்துறை,
தென்காசி.

18/6/25

பெறுநர்

திரு.மு.பிரசாத்ராஜ்
த.பெ. கல்யாணசுந்தரம்,
எண்.4/48, இந்திரா நகர்,
நல்லூர்,ஆலங்குளம் வட்டம்,
தென்காசி மாவட்டம் - 627 853.

18/6/25 18/06/2025

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

ANNEXURE IV

District : Tenkasi

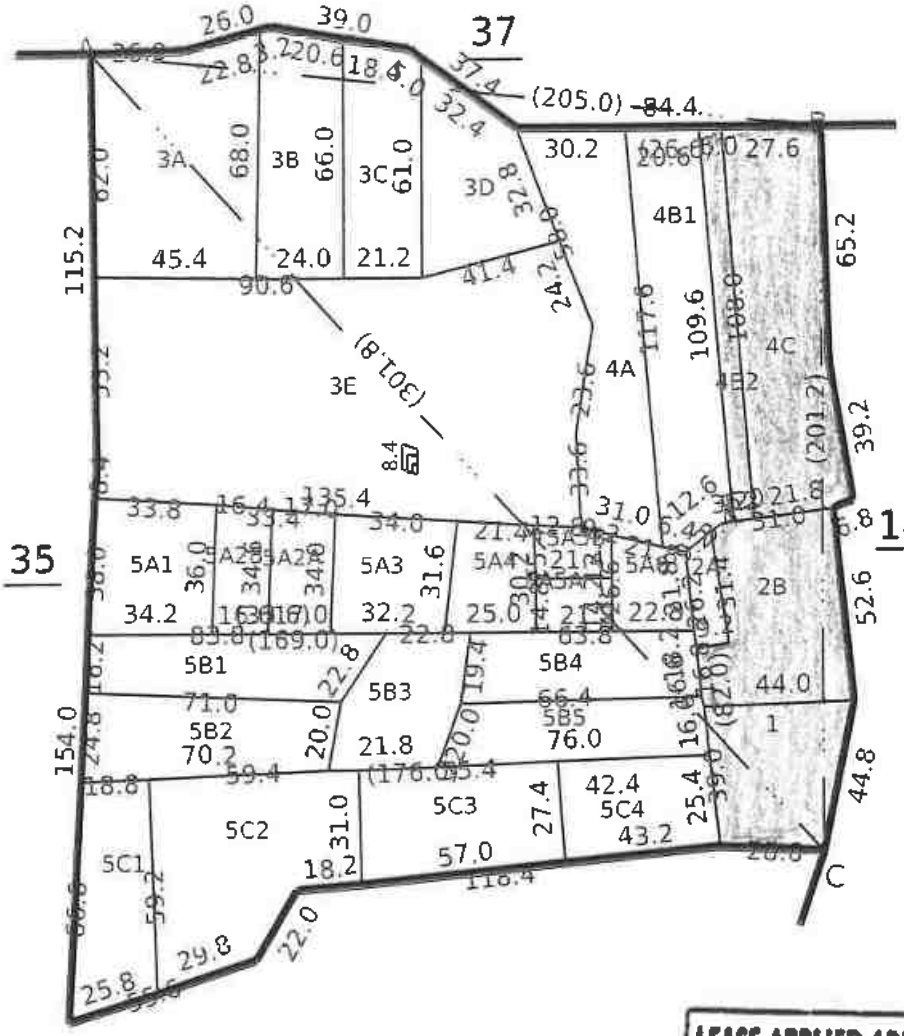
Taluk : Alangulam

Village : Maruthamputhur-1 [271]

Survey No : 36

Area : Hect 04 Ares 68.00

Scale : 1 : 2000



Data Digitally Signed By
K OSANA FERNANDO

Date of Issue: 27-06-2025 20:16:12

Survey and Settlement Department, Government of TamilNadu

270 fv.6

District : Tenkasi

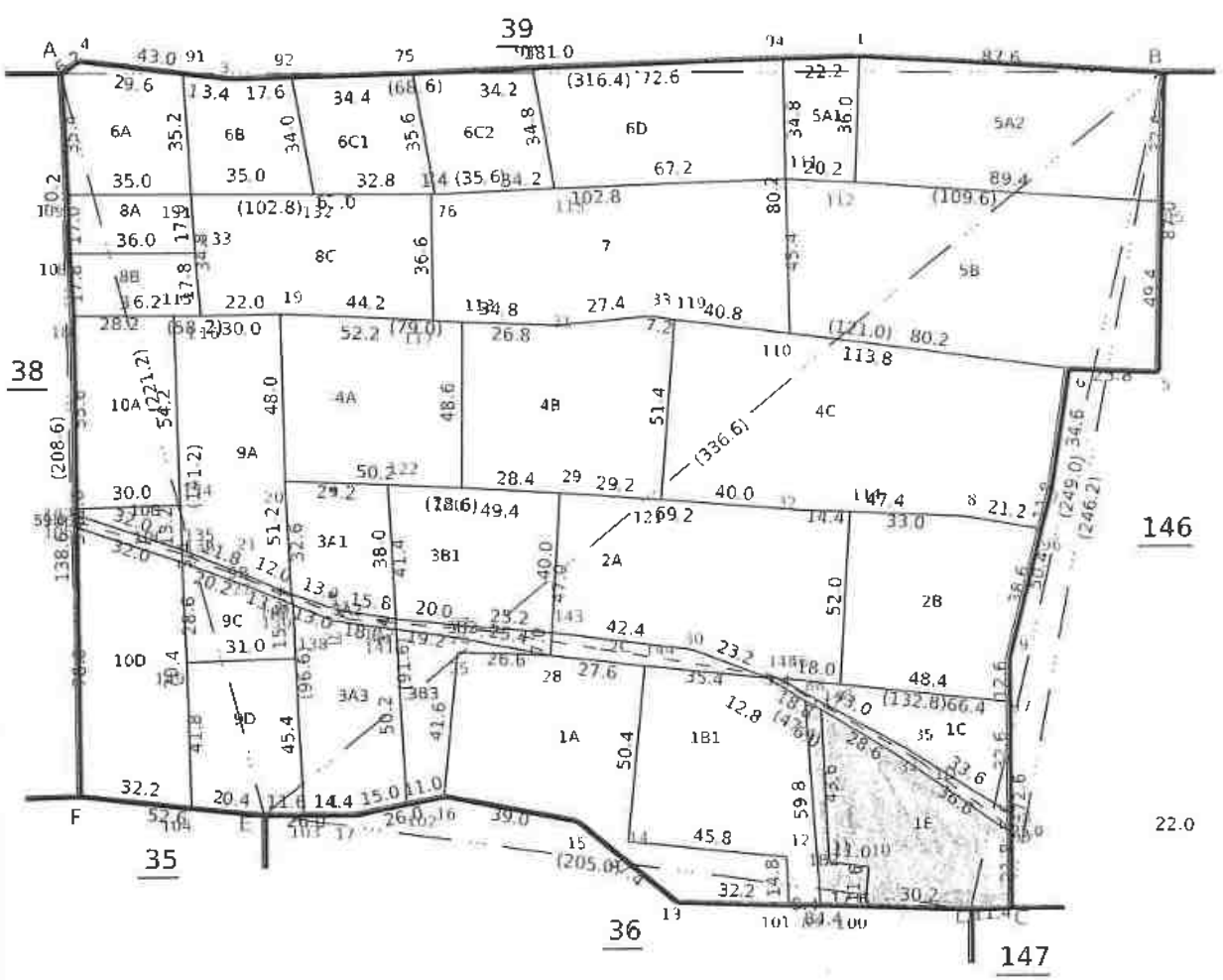
Taluk : Alangulam

Village : Maruthamputhur-1 [271]

Survey No : 37

Area : Hect 06 Ares 50.00

Scale : 1 : 1456



LEASE APPLIED AREA

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

Data Digitally Signed By
K OSANA FERNANDO

Date of Issue: 27-06-2025 20:19:15

Survey and Settlement Department, Government of TamilNadu

270 fv.5

MINING PLAN APPROVED
By
Deputy Director
of Geology & Mining
Tenkasi Dist.

மாவட்டம் : தென்காசி

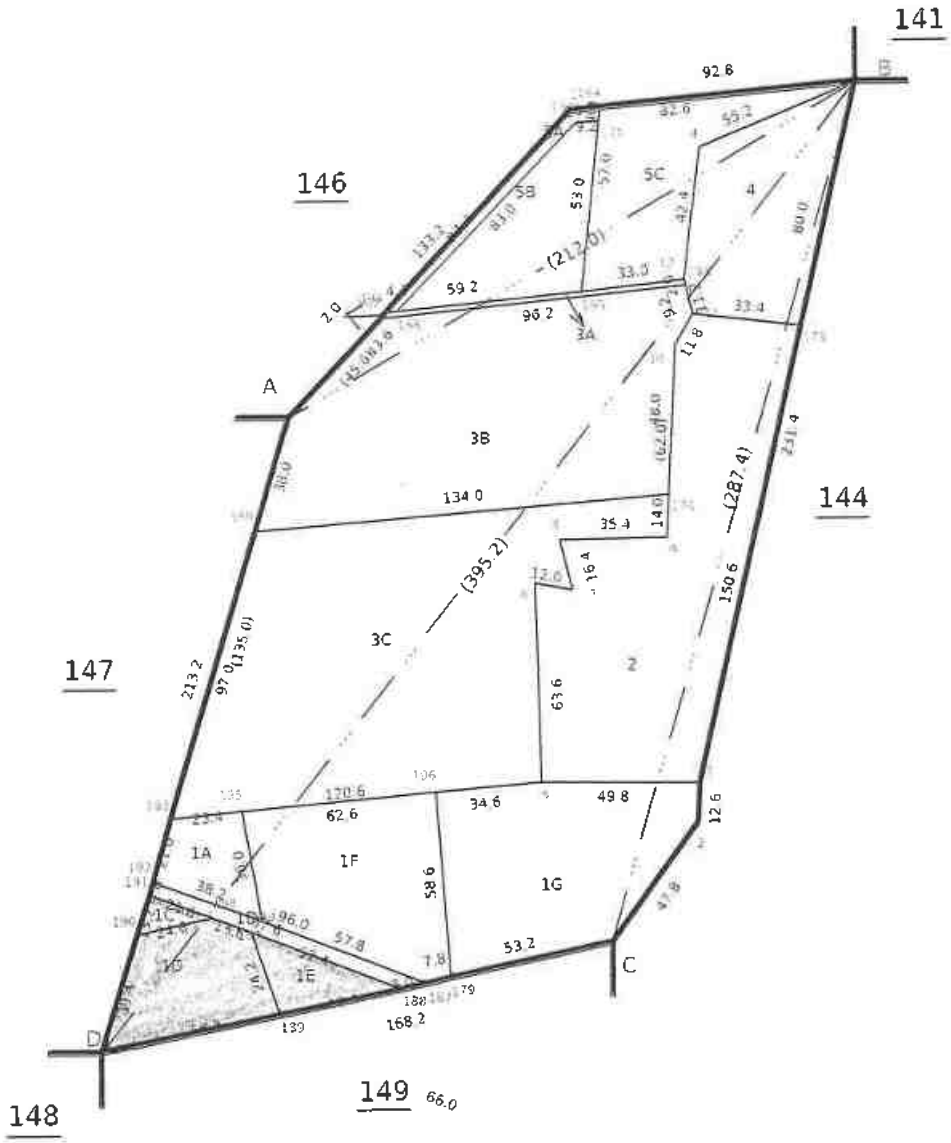
வட்டம் : ஆலங்குளம்

கிராமம் : மருதம்புத்தூர்-2 [272]

புல எண் : 145

பரப்பளவு : எக்டர் 04 ஏர் 29.62

அளவு : 1 : 1640



LEASE APPLIED AREA

Signed By Tahsildar
Name of approver : kand
Date of Approval : 11-06-2020

Date of Issue: 26-06-2025 16:51:34

District : Tenkasi

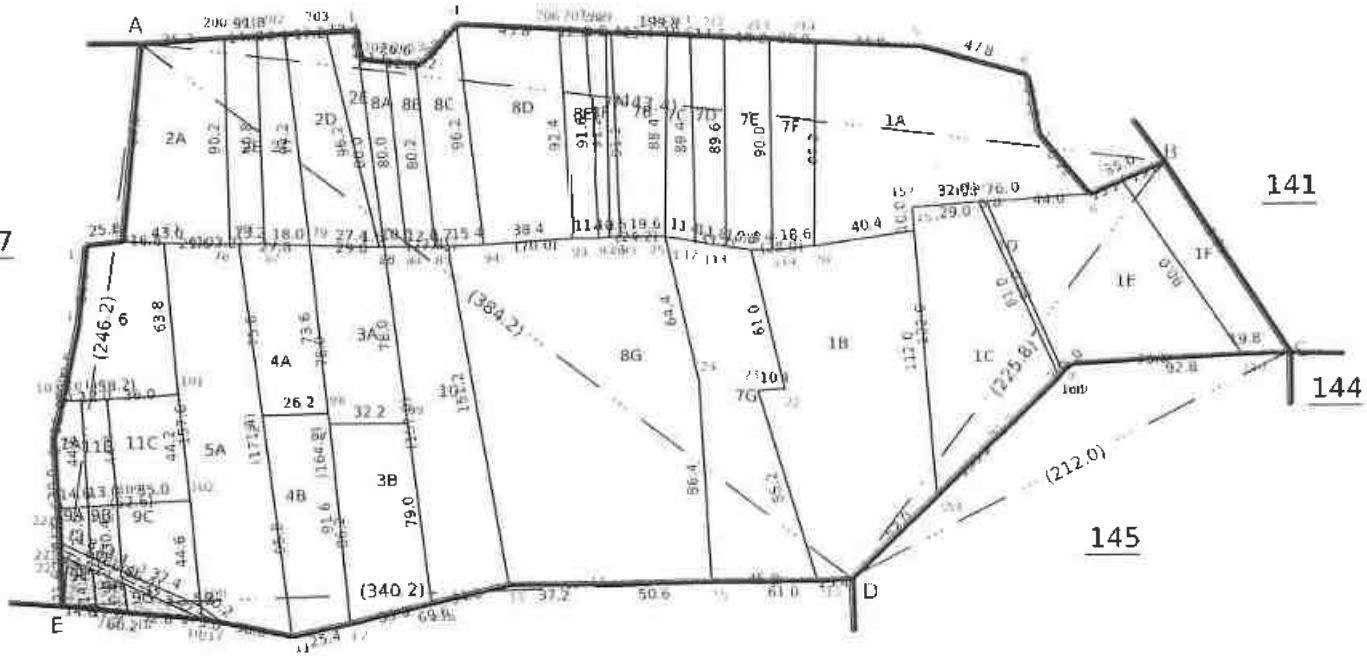
Taluk : Alangulam

Village : Maruthamputhur-2 [272]

Survey No : 146

Area : Hect 10 Ares 15.51

Scale : 1 : 2201



LEASE APPLIED AREA

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

Signed By Tahsildar

Name of approver : kand

Date of Approval : 11-06-2020

Date of Issue: 27-06-2025 20:21:42

Survey and Settlement Department, Government of TamilNadu

260 fv 2

District : Tenkasi

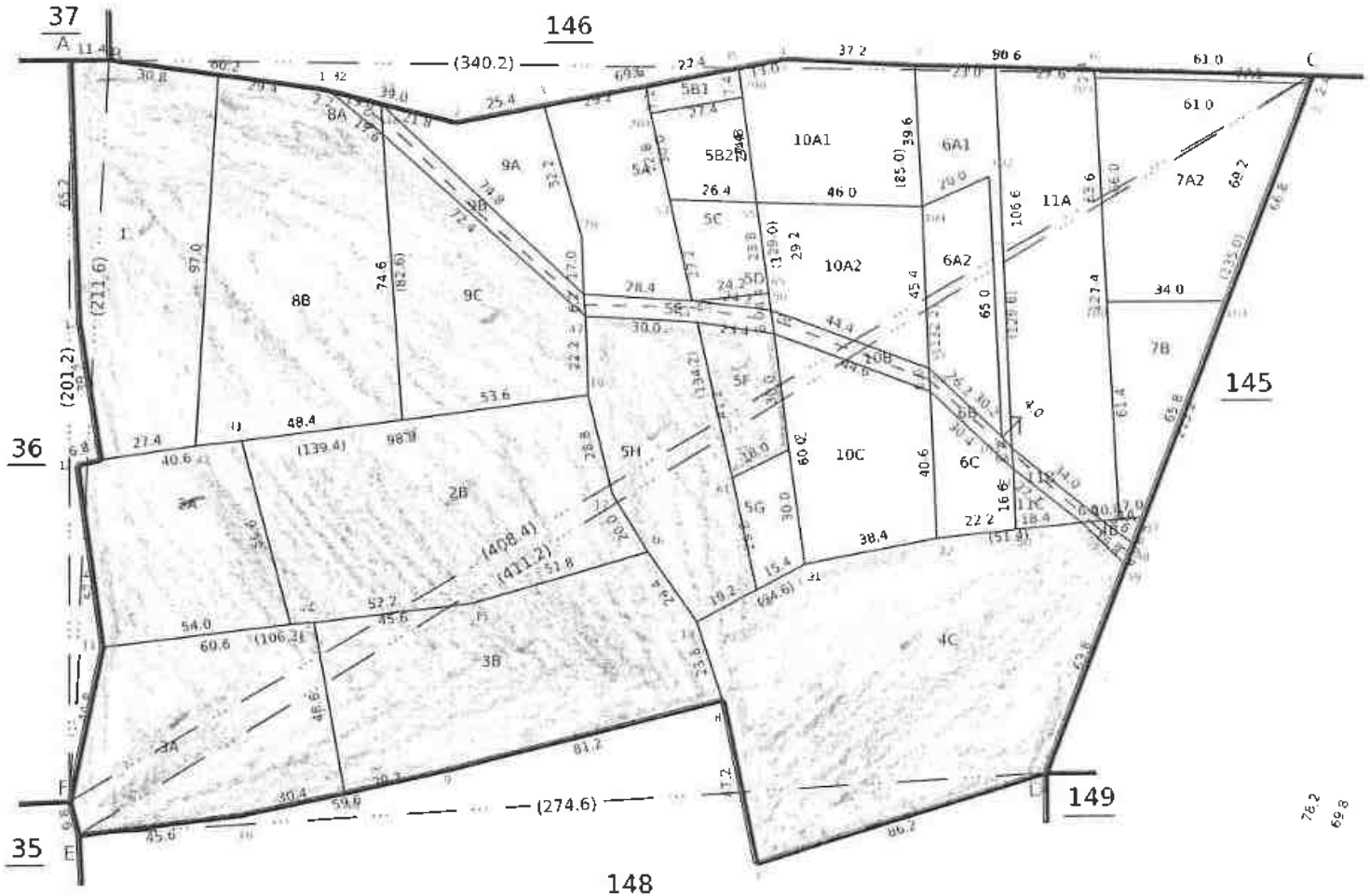
Taluk : Alangulam

Village : Maruthamputhur-2 [272]

Survey No : 147

Area : Hect 06 Ares 8.74

Scale : 1 : 1349



LEASE APPLIED AREA

MINING PLAN APPROVED BY Deputy Director of Geology & Mining Tenkasi Dist.

Signed By Tahsildar

Name of approver : [illegible]

Date of Approval : 07-02-2024

Date of Issue: 27-06-2025 20:24:16

Survey and Settlement Department, Government of TamilNadu

260 fv 4

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

District : Tenkasi

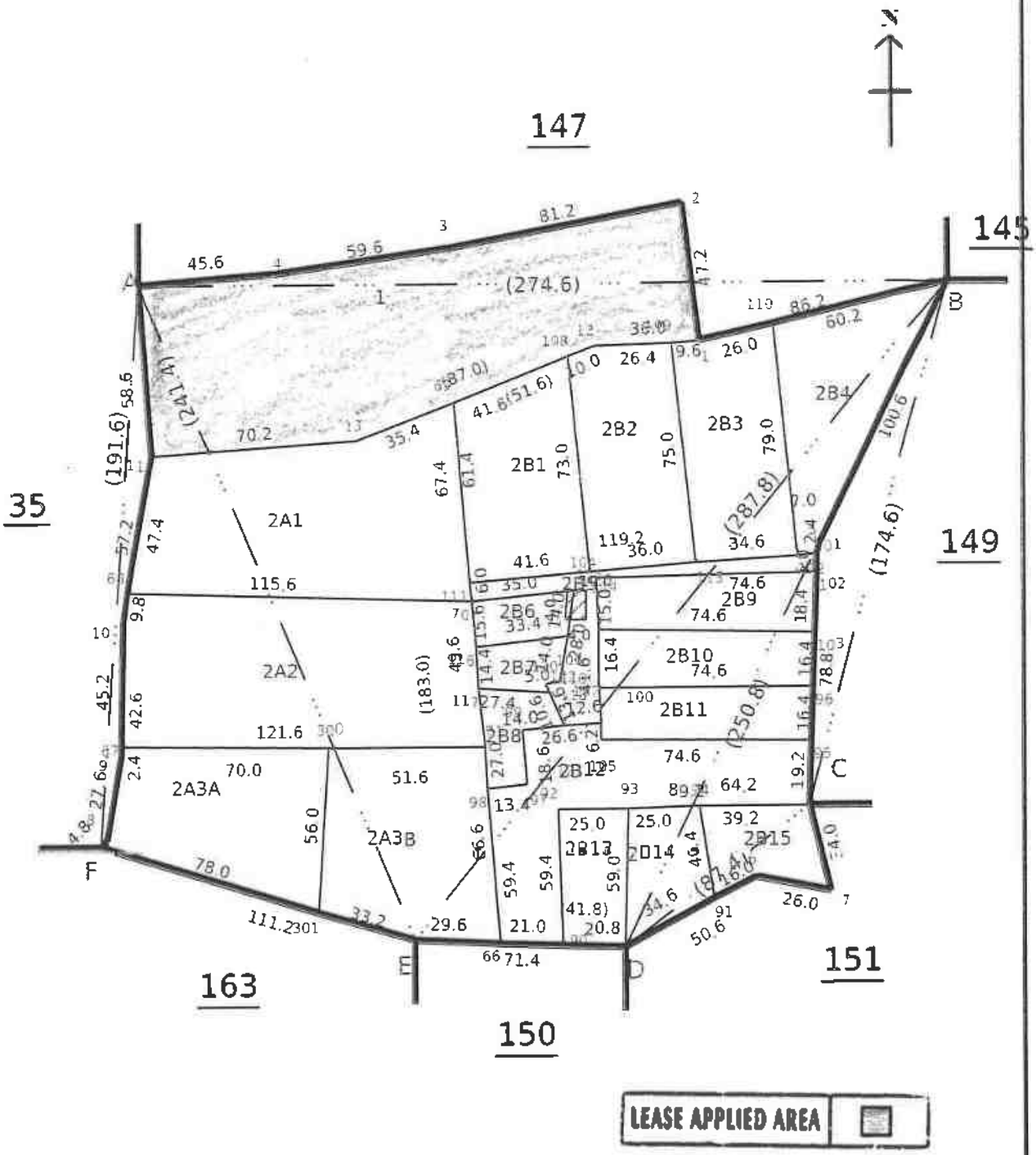
Taluk : Alangulam

Village : Maruthamputhur-2 [272]

Survey No : 148

Area : Hect 05 Ares 30.50

Scale : 1 : 2000



Signed By Tahsildar

Name of approver : tks_jl

Date of Approval : 07-02-2024

Date of Issue: 27-06-2025 20:25:30

Survey and Settlement Department, Government of TamilNadu

260 fv.4

MINING PLAN APPROVED
By
Deputy Director
of Geology & Mining
Tenkasi Dist.

ANNEXURE III

LEASE APPLIED AREA

ANNEXURE IV

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-1 **பட்டா எண் : 1828**

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்	
2.	கல்யாணசுந்தரம்	மகன்	ஜெயசுந்தர்	
3.	கிருஷ்ணன்	மகன்	ராஜ	
4.	குருசாமி	மகன்	கருப்பசாமி	
5.	முத்தையா	மகன்	நிறைகுளத்தான்	

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	
35	4A	0 - 28.50	0.35	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4B	0 - 28.00	0.35	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4C	0 - 46.00	0.57	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4D	0 - 53.00	0.65	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4E	0 - 29.00	0.36	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4F	0 - 33.00	0.40	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4G	0 - 31.00	0.40	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4H	0 - 70.50	0.87	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4I	0 - 80.00	1.00	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
36	1	0 - 14.50	0.19	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
36	SC3	0 - 18.00	0.23	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
36	SC4	0 - 11.00	0.14	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
		4 - 42.50	5.51					

புத்தகம் 2024 ம் வருடத்தில் ஆவணம்
நகல் செய்தது
வழி சான்

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின்னணு முறையில் பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணையதளத்தில் **34/11/271/01828/20199** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:03:30 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-1 **பட்டா எண் : 1871**

உரிமையாளர்கள் பெயர்

1.	கல்யாணசுந்தரம்	மகன்	ஜெயசுந்தர்
2.	கிருஷ்ணன்	மகன்	ராஜு
3.	முத்தையா	மகன்	நிறைகுளத்தான்
4.	குருசாமி	மகன்	கருப்பசாமி
5.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்

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	
31	9	0 - 40.00	0.50	--	--	--	--	2019/0103/29/176526-- -- 11-06-2019
34	2B	0 - 7.00	0.09	--	--	--	--	2019/0103/29/176526-- -- 11-06-2019
35	6J	0 - 19.00	0.25	--	--	--	--	2019/0103/29/176526-- -- 11-06-2019
36	2B	0 - 17.55	0.20	--	--	--	--	2017/0105/29/018898--2017/29/11/000022SD -- 06-11-2017
36	5A1	0 - 13.00	0.16	--	--	--	--	2018/0103/29/150918-- -- 30-03-2019
36	5A4	0 - 7.00	0.10	--	--	--	--	2018/0103/29/150918-- -- 30-03-2019
37	2A	0 - 37.00	0.46	--	--	--	--	2019/0103/29/188780-- -- 24-07-2019
37	2B	0 - 25.00	0.31	--	--	--	--	2019/0103/29/176526-- -- 11-06-2019
37	2C	0 - 3.00	0.06	--	--	--	--	2019/0103/29/188201-- -- 24-07-2019
37	9D	0 - 15.00	0.19	--	--	--	--	2018/0103/29/150918-- -- 30-03-2019
		1 - 83.55	2.32					

புதுதகம் 2024 ம் வருடத்தில் 12.5 ஆவணம்

குறிப்பு2 :

1. மேற்கண்ட தகவல்/ சான்றிதழ் நகல் விவரங்கள் இணையதளத்திலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணையதளத்தில் 34/11/271/01871/20127 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:04:41 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-1 **பட்டா எண் : 2793**

உரிமையாளர்கள் பெயர்

1. கல்யாணசுந்தரம் மகன் பிரசாத்ராஜு

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	
36	4B2	0 - 6.53	0.20	--	--	--	--	2024/0105/34/319046--2024/34/11/000327SD ------ Digitally signed:Osana Fernando K Tahsildar 29/11/2024 10:20:47:AM
37	1B2	0 - 3.47	0.10	--	--	--	--	2024/0105/34/319046--2024/34/11/000327SD ------ Digitally signed:Osana Fernando K Tahsildar 29/11/2024 10:20:47:AM
		0 - 10.00	0.30					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **P/34/11/271/02793/30141** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 04-06-2025 அன்று 04:20:45 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி

வட்டம் : ஆலங்குளம்

வருவாய் கிராமம் : மருதம்புத்தூர்-1

பட்டா எண் : 1913

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாணசுந்தரம்	மகன்	ஜெய்சுந்தர்
3.	கிருஷ்ணன்	மகன்	ராஜ"
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

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	
36	3B	0 - 16.00	0.20	--	--	--	--	2018/0103/29/114234- -- -- 01-06-2018
36	4C	0 - 27.00	0.33	--	--	--	--	2020/0103/34/249928- -- -- 04-12-2020
37	1C	0 - 10.00	0.12	--	--	--	--	2020/0103/34/249928- -- -- 04-12-2020
37	1E	0 - 20.50	0.25	--	--	--	--	2020/0103/34/249928- -- -- 04-12-2020
		0 - 73.50	0.90					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/271/01913/20144** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:05:35 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

பதிவு அலுவலர்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம்: தென்காசி

வட்டம்: ஆலங்குளம்

வருவாய் கிராமம்: மருதம்புத்தூர்-2

பட்டா எண்: **1164**

உரிமையாளர்கள் பெயர்

1 கல்யாணசுந்தரம் மகன் பிரசாத்ராஜ்

வ.எண்	புல எண்ணும் உட்பிரிவும்	நன்செய்				புன்செய்				மற்றவை				குறிப்பு
		பரப்பு		தீர்வை		பரப்பு		தீர்வை		பரப்பு		தீர்வை		
		ஹெ.	ஏர்	ரூ	பை	ஹெ	ஏர்	ரூ	பை	ஹெ.	ஏர்	ரூ	பை	
1	146 - 9E					0	03.00	00	06					2024/0103/34/423201 19-11-2024
	மொத்தம் -	0		0		0	03.00	0	06	0		0		

மின்கையெப்பம் / Digital Signature : **19-11-2024** அன்று **08:50:41 PM** நேரத்தில் இடப்பட்டது

பெயர்/Name : **Arumugam T**
பதவி/ Designation: **Head Quarters Deputy Tahsildar**

இடம்/Place : ஆலங்குளம் **(11)** வட்டம்,
தென்காசி**(34)** மாவட்டம்

குறிப்பு	
1	மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை.இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 2024/0103/34/423201 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2	இத்தகவல்கள் 04-06-2025 அன்று 01:36:30 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3	கைப்பேசி கேமராவின் 2D barcode படிப்பான் மூலம் இத்தகவல்களை இணையத்தளத்தில் சரிபார்க்கவும்.

வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் இராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 1015**

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்	
2.	கல்யாணசுந்தரம்	மகன்	ஜெய்சுந்தர்	
3.	இருஷ்ணன்	மகன்	ராஜூ	
4.	குருசாமி	மகன்	கருப்பசாமி	
5.	முத்தையா	மகன்	நிறைகுளத்தான்	

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	
146	10	0 - 46.00	0.29	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	11B	0 - 6.00	0.06	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	11C	0 - 14.50	0.12	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	4B	0 - 27.50	0.26	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	5A	0 - 54.50	0.44	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	6	0 - 30.50	0.31	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	9B	0 - 3.50	0.06	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	9C	0 - 13.00	0.12	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	9F	0 - 2.00	0.06	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	9G	0 - 2.00	0.06	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
147	8A	0 - 1.00	0.06	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
147	8B	0 - 40.00	0.31	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
		2 - 40.50	2.15					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/01015/20267** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:08:48 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

MINING PLAN APPROVED By Deputy Director of Geology Tenkasi (MD)

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் இராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 1011**

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாணசுந்தரம்	மகன்	ஜெய்சுந்தர்
3.	கிருஷ்ணன்	மகன்	ராஜூ
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

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	
144	2A	0 - 33.50	0.30	--	--	--	--	2020/0103/34/240105-- -- 22-09-2020
145	2	0 - 70.50	0.43	--	--	--	--	2020/0103/34/240105-- -- 22-09-2020
146	2B	0 - 12.00	0.11	--	--	--	--	2020/0103/34/238028-- -- 21-09-2020
147	1 ✓	0 - 39.50	0.37	--	--	--	--	2020/0103/34/238028-- -- 21-09-2020
		1 - 55.50	1.21					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/01011/20223** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:06:38 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

...2024 ...ம் ஆவணம்
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...

வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 900**

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாணசுந்தரம்	மகன்	ஜெய்சுந்தர்
3.	கிருஷ்ணன்	மகன்	ராஜு
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

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	
146	3A	0 - 24.00	0.22	--	--	--	--	2017/0103/29/067046-- -- 29-06-2017
147	2A	0 - 27.00	0.25	--	--	--	--	2017/0103/29/067046-- -- 29-06-2017
147	2B	0 - 52.50	0.50	--	--	--	--	2017/0103/29/067046-- -- 29-06-2017
147	3A	0 - 37.00	0.34	--	--	--	--	2017/0103/29/067046-- -- 29-06-2017
		1 - 40.50	1.31					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/00900/100219** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:07:00 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படிதது ULPKS வழி இலாயதளத்தில் சரிபார்க்கவும்

புத்தகம் 2024 ம் வருடத்தில் 2 வது ஆவணம்
..... நகல் - உண்மை சான்றிட்டது
17..... வது நகல்
பதிவு அலுவலர்

வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 143**

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாண சுந்தரம்	மகன்	ஜெய்சுந்தர்
3.	கிருஷ்ணன்	மகன்	ராஜு
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

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	
147	3B ✓	0 - 47.00	0.41	--	--	--	--	2018/0103/29/137897-- -- 26-10-2018
147	9A	0 - 10.00	0.09	--	--	--	--	2018/0103/29/137897-- -- 26-10-2018
147	9B	0 - 3.00	0.06	--	--	--	--	2018/0103/29/137897-- -- 26-10-2018
147	9C ✓	0 - 30.00	0.22	--	--	--	--	2018/0103/29/137897-- -- 26-10-2018
148	1 ✓	0 - 99.00	0.94	--	--	--	--	2018/0103/29/137897-- -- 26-10-2018
		1 - 89.00	1.72					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/00143/20248** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:07:38 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் இராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 1096**

உரிமையாளர்கள் பெயர்

1. மற்றவை எம்/எஸ் கிருஷ்ணா புளுமெட்டல்

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	
145	1A	0 - 8.00	0.07	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
145	1B	0 - 5.00	0.06	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
145	1C	0 - 1.00	0.06	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
145	1D	0 - 16.50	0.14	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
145	1E	0 - 4.50	0.06	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
145	1F	0 - 29.50	0.25	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
145	1G	0 - 42.00	0.36	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
147	4A	0 - 0.50	0.06	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
147	4B	0 - 0.50	0.06	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
147	4C	0 - 76.50	0.57	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
		1 - 84.00	1.69					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/01096/20276** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:10:00 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

.....யுத்தகம் 2024 ம் வருடத்திற்கு ..... வரை
..... தாக்கல் செய்தது
..... வரை தான்
..... அலுவலர்

வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்

MINING PLAN APPROVED by Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 911**

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாணசுந்தரம்	மகன்	ஜெய்சுந்தர்
3.	கிருஷ்ணன்	மற்றவை	ராஜு
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

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	
147	5A	0 - 14.50	0.12	--	--	--	--	2017/0103/29/082234- -- -- 24-10-2017
147	5D	0 - 1.00	0.06	--	--	--	--	2017/0103/29/082234- -- -- 24-10-2017
147	5F	0 - 7.50	0.06	--	--	--	--	2017/0103/29/082234- -- -- 24-10-2017
147	5H ✓	0 - 24.50	0.19	--	--	--	--	2017/0103/29/082234- -- -- 24-10-2017
		0 - 47.50	0.43					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/00911/100221** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:08:15 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான்மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

.....பந்தகம் 2024 ம் வருடத்திற்கு உரிமை ஆவணம்
24..... நாட்கள் வரை செல்லத்தக்கது
18..... வது நாள்
பதிவு அலுவலர்

ANNEXURE V

(45) - ஆம் பகலியில் ஆக்கர) மாவட்டம் திருநெல்வேலி கிராமக் கணக்கு வட்டம் மேலகரம்

நில வரித் திட்டத்தின்படி புலன்களின் விபரம்.					கைப்பற்று தாரருடைய பெயரும் எண்ணும் அல்லது அனுபோக தாரருடைய பெயர்.	சாகுபடியாளரின் பெயர்.	முதல் போகம்.				
நில அளவை எண்.	உட்பிரிவு எண்.	பரப்பு.	தீர்வை.	ஒரு போகம் அல்லது இரு போகம்.		நிலத்தின் எந்த பகுதி யாவது சாகுபடியாளரால் பயிரிடப்பட்டுள்ளதா.	எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது.	பயிரின் பெயர்.	பயிரான / அறுவடை யான பரப்பு.	உண்மையான பாய்ச்சல் ஆதாரம்.	விளைச்சல் அளவு விழுக்காடு.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
36	1	0.14.5	0.19	1913	பன்னீர் செல்வன் (ஆ)						
36	2B	0.17.5	0.20	1971	சுயசாந்தம் (ஆ)						
36	4B2	0.06.5	0.20	2193	பிறசாந்தம்						
36	4C	0.27.0	0.33	1913	பன்னீர் செல்வன் (ஆ)						
37	1B2	0.34.0	0.10	2193	பிறசாந்தம்						
37	1E	0.20.5	0.25	1913	பன்னீர் செல்வன் (ஆ)						
					— 2 —		நஞ்சை				

24.12.2024
கிராம நிர்வாக அலுவலர்
27. மருதம்புத்தார் I கிராமம்
ஆலங்குளம் வட்டம்
தென்காசி மாவட்டம்.

380/4-R.F. III-A-10-20,00,000 Cps.-GBP.-MDU.-7-2021.

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1/3 அம் பகுதியில் புஞ்சைநிலம் மாவட்டம் கிராமம் எண் 27 வட்டம் மருதம்புத்தூர் II

நில வகித் திட்ட த்திலுள்ள புலங்களின் விபரம்.					கைம்பற்று காரருடைய பெயரும் எண்ணும் அல்லது அறுமோக காரருடைய பெயர்.	நிலத்தின் மற்ற பகுதி யாரது சமுதாயத்தால் பயிரிடப்பட்டுள்ளதா.	முதல் போகம்.				
(1) நில அளவை எண்.	(2) உட்பிரிவு எண்.	(3) பரப்பு.	(4) தீர்வை.	(5) தரிசு போகம் அல்லது இரு போகம்.	(6)	(7)	(8) எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது.	(9) பயிரின் பெயர்.	(10) பயிரான / அறுவடை யான பரப்பு.	(11) உண்மையான பாய்ச்சல் ஆதாரம்.	(12) விளைச்சல் அளவு விபரம்.
145	1C	0.1.00	0.06	மஞ்சள்	அந்தோணி ஆரோக்கியம்						
145	1D	0.16.5	0.14	1096	அந்தோணி ஆரோக்கியம்						
145	1E	0.45	0.06	1096	அந்தோணி ஆரோக்கியம்						
~~146~~	~~9A~~	~~0.00~~	~~0.00~~	~~1164~~	~~பிரகாஷ்~~						
146	9E	0.3.00	0.06	1164	பிரகாஷ்						
146	9F	0.2.00	0.06	1019	பன்னீர்செல்வம் (இ)						
146	9G	0.2.00	0.06	1019	பன்னீர்செல்வம் (இ)						
147	5F	0.7.50	0.06	911	பன்னீர்செல்வம் (இ)						
~~147~~	~~9B~~	~~0.00~~	~~0.00~~	~~1140~~	~~பன்னீர்செல்வம் (இ)~~						

(கையெழுத்து)

கிராம நிர்வாக அலுவலர்
27, மருதம்புத்தூர்-II கிராமம்
ஆலங்குளம் வட்டம்
தென்காசி மாவட்டம்.

380/4-R.F. III-A-10-20,00,000 Cps.-GBP.-MDU.-7-2021.

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147 மற்றும் பகுதியில் தென்காசி தாலுக்கா/ஊராட்சி ஒன்றியம் கிராமம் மருதம்புத்தூர் II

நில வரித் திட்டத்தின்படி புலன்களின் விபரம்.						நிலத்தின் வகை பற்றி மாவட்ட சாகுபடி ஆலோசனைக் குழுவால் பதிவிடப்பட்டுள்ளதை.	முதல் போகம்.				
நில அளவை எண்.	உட்பிரிவு எண்.	பரப்பு	தீர்வை.	ஒரு போகம் அல்லது இரு போகம்.	கைப்பற்று தாரருடைய பெயரும் எண்ணும் அல்லது அனுபோக தாரருடைய பெயர்.		எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது	பயிரின் பெயர்.	பயிரை உறுதிபடுத்திய பரப்பு	உள்ளங்கையின் பாய்ச்சல் ஆதாரம்	விவசாயம் அல்லது விவசாயம் அல்லாதது
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
					1011						
147	1	0.39.5	0.12	111	பன்னீர்செல்வம்			1			
147	2A	0.27.0	0.25	900	பன்னீர்செல்வம்			1			
147	2B	0.51.5	0.48	900	பன்னீர்செல்வம்			1			
147	3A	0.37.0	0.34	900	பன்னீர்செல்வம்			—			
147	3B	0.47.0	0.41	143	பன்னீர்செல்வம்						
147	4C	0.65.5	0.52	109	திருத்தாடியிடம்						
147	5A	0.24.5	0.19	911	பன்னீர்செல்வம்						
147	5B	0.40.0	0.31	915	பன்னீர்செல்வம்						
147	9C	0.30.0	0.27	1143	பன்னீர்செல்வம்						
148	1	1.99.0	1.56	113	பன்னீர்செல்வம்						

கிராம நிர்வாக அலுவலர்
27, மருதம்புத்தூர்-II கிராமம்
ஆலங்குளம் வட்டம்
தென்காசி மாவட்டம்

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இ. நம்பர் 10 பிரிவு I -13
மருதம்பத்தூர் II
நம்பர்

நம்பர். 1096

வருவாய் விவரங்களும் (1)	புலத்தின் நம்பரும் உட் பிரிவும் (2)	பயன்பாடு: விஸ்தீர்ணம் (3) ஹெக்டேர்.	ஏர்.	தீர்வை (4) ரூ.	பை.	நிலவரம்: விஸ்தீர்ணம் (5) ஹெக்டேர்.	ஏர்.	தீர்வை (6) ரூ.	பை.	மொத்த தீர்வை (7) ரூ.	பை.	வேறு (8)
	145/1A	0.080		0.07								
	145/1B	0.050		0.06								
	145/1C ✓	0.010		0.02								
	145/1D ✓	0.165		0.14								
	145/1E ✓	0.045		0.05								
	145/1F	0.295		0.25								
	145/1G	0.170		0.14								
	147/4A	0.055		0.05								
	147/4B	0.005		0.01								
	147/4C ✓	0.715		0.57								
		1.630		1.61								

உதவி இயக்குநர் (சுரங்கம்)
27, மருதம்பத்தூர்-II கிராமம்
ஆலங்குளம் வட்டம்
தென்காசி மாவட்டம்

R.F. III-A-27- 5 Lakhs GRI MDU-2009

ANNEXURE VI
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1		2	3	4	5	6	7	8	9	10	
								ரூ. பை.	ஹெ.ஏர்ஸ்	ரூ. பை.	
35	6K	35-6பா	ர	ப	...	8-4	6	1 24	0 01·0	0 06	604 அ. பூவையா நாடார்.
	6L	-6பா	ர	ப	...	8-4	6	1 24	0 26·0	0 32	604 அ. பூவையா நாடார்.
	6M	-6பா	ர	ப	...	8-4	6	1 24	0 44·5	0 55	975 ந. கல்யாணி நாடார் (1), ந. சுடலை யாண்டி நாடார் (2).
	6N	-6பா	ர	ப	...	8-4	6	1 24	0 34·0	0 42	721 கு. மாடமுத்து நாடார்.
	6O	-6பா	ர	ப	...	8-4	6	1 24	0 01·0	0 06	721 கு. மாடமுத்து நாடார்.
									12 43·5	15 22	
36	1	36-1	ர	ப	...	8-4	6	1 24	0 14·5	0 19	468 சு. தெய்வேந் திர நாடார்.
	2	-2	ர	ப	...	8-4	6	1 24	0 20·0	0 25	353 மா. சுப்பன்.
	3A	-3பா	ர	ப	...	8-4	6	1 24	0 29·5	0 37	552 சு. பாண்டிய நாடார் (எ) சுடலைமுத்து நாடார்.
	3B	-3பா	ர	ப	...	8-4	6	1 24	0 16·0	0 20	759 சி. முத்தையா நாடார்.
	3C	-3பா	ர	ப	...	8-4	6	1 24	0 14·0	0 17	586 சி. இச்சையா நாடார்.
	3D	-3பா	ர	ப	...	8-4	6	1 24	0 14·0	0 17	629 பா. பெருமாள் நாடார்.
	3E	-3பா	ர	ப	...	8-4	6	1 24	0 85·5	1 18	807 தி. ராமச் சந்திரன்.
	4A	-4பா	ர	ப	...	8-4	6	1 24	0 21·0	0 26	807 தி. ராமச் சந்திரன்.
	4B	-4பா	ர	ப	...	8-4	6	1 24	0 31·0	0 38	353 மா. சுப்பன்.
	4C	-4பா	ர	ப	...	8-4	6	1 24	0 27·0	0 33	685 பூ. மாடக் கண்ணு நாடார்.
	5A1	-5A1பா	ர	ப	...	8-4	6	1·24 0 24	0 13·0	0 16	976 இளவர் பொ. காசி (1), காப்பாளர் தாயார் பொன் னம்மாள். பெர். சொர் ணம் (2).

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1		2	3	4	5	6	7	8		9		10		11
								ரூ.	பை.	ஹெ.ஏர்ஸ்.		ரூ.	பை	
37	1C	37–1பா	ர	பு	...	8–4	6	1	24	0	10·0	0	12	685 பூ. மாடக் கண்ணு நாடார்.
	1D	–1பா	ர	பு	...	8–4	6	1	24	0	02·0	0	06	978 மா. சுப்பன் (1), பூ. மாடக் கண்ணு நாடார்(2).
	1E	–1பா	ர	பு	...	8–4	6	1	24	0	20·5	0	25	685 பூ. மாடக் கண்ணு நாடார்.
	2A	–2பா	ர	பு	...	8–4	6	1	24	0	37·0	0	46	318 மு. சுடலை முத்து நாடார்.
	2B	–2பா	ர	பு	...	8–4	6	1	24	0	25·0	0	31	849 நா. லெட்சுமண நாடார்.
	2C	–2பா	ர	பு	...	8–4	6	1	24	0	03·0	0	06	318 மு. சுடலை முத்து நாடார்.
	3A1	–3Aபா	ர	பு	...	8–4	6	0	91	0	10.5	0	13	441 ரா. செளந்திர ராஜ்.
	3A2	–3Aபா	ர	பு	...	8–4	6	0	91	0	01·0	0	06	441 ரா. செளந்திர ராஜ்.
	3A3	–3Aபா	ர	பு	...	8–4	6	0	91	0	16·0	0	20	441 ரா. செளந்திர ராஜ்.
	3B1	–3Bபா	ர	பு	...	8–4	6	0	91	0	18·0	0	22	441 ரா. செளந்திர ராஜ்.
	3B2	–3Bபா	ர	பு	...	8–4	6	0	91	0	01·5	0	06	441 ரா. செளந்திர ராஜ்.
	3B3	–3Bபா	ர	பு	...	8–4	6	0	91	0	08·0		10	441 ரா. செளந்திர ராஜ்.
	4A	–4பா	ர	பு	...	8–4	6	1	24	0	25·0	0	31	75 இ. இளங் கோட்டி நாடார்.
	4B	–4பா	ர	பு	...	8–4	6	1	24	0	30·0	0	37	853 பொ. வண்ண முத்து நாடார்.
	4C	–4பா	ர	பு	...	8–4	6	1	24	0	54·5	0	70	75 இ. இளங் கோட்டி நாடார்.
	5A	–5பா	ர	பு	...	8–4	6	1	24	0	39·0	0	48	580 சி. பிச்சுமணி நாடார்.
	5B	–5பா	ர	பு	...	8–4	6	1	24	0	51·0	0	64	408 சு. சுவிஷேச முத்து நாடார்.
	6A	–6பா	ர	பு	...	8–4	6	1	24	0	12·0	0	15	184 ஞா. கோபால்.

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1	2	3	4	5	6	7	8	9	10	11	
							ஹெ. ஏ. சது. மீ.	ஹெ. ஏ.	ஹெ. ஏ.		
144	2P	144-2பா	ச	மு	...	8-5	7	0 91	0 13-0	0 12	363 ச. சாலைப் தாட்சி.
	2B	-2பா	ச	மு	...	8-5	7	0 91	0 12-5	0 13	139 வ.எ. கிணறுகள் தாட்சி.
	2R	-2ஊ	ச	மு	...	8-5	7	0 91	0 07-5	0 06	139 வ.எ. கிணறுகள் தாட்சி.
	3A1	-3A1பா	ச	மு	...	8-5	7	0 91	0 [illegible]	0 05	46 ச. [illegible] தாட்சி.
	3A2	-3A2பா	ச	மு	...	8-5	7	0 91	0 02-5	0 06	10 ச. [illegible] தாட்சி.
	3A3	-3A3பா	ச	மு	...	8-5	7	0 91	0 04-0	0 03	40 ச. [illegible] தாட்சி.
	3B	-3B	ச	மு	...	8-5	7	0 91	0 16-0	0 12	238 ச. முந்திரை தாட்சி.
	3C1	-3C1பா	ச	மு	...	8-5	7	0 91	1 23-0	1 12	515 ச.ச. புளிய தாட்சி (1), முந்திரை தாட்சி (2), ம. ஏ. [illegible] தாட்சி (3).
	3C2	-3C2பா	ச	மு	...	8-5	7	0 91	0 14-0	0 13	515 ச.ச. புளிய தாட்சி (1), முந்திரை தாட்சி (2), ம. ஏ. [illegible] தாட்சி (3).
	3C3	-3C3பா	ச	மு	...	8-5	7	0 91	1 16-5	1 06	515 ச.ச. புளிய தாட்சி (1), முந்திரை தாட்சி (2), ம. ஏ. [illegible] தாட்சி (3).
								11 22-5	10 30		
145	1A	145-1பா	ச	மு	...	8-5	7	0 91	0 08-0	0 07	112 ப. சிலைமையா தாட்சி.
	1B	-1ஆ	ச	மு	...	8-5	7	0 91	0 05-0	0 06	432 ப. சிலைமையா தாட்சி (1), க. கரி தாட்சி (2).
	1C	-1பா	ச	மு	...	8-5	7	0 91	0 01-0	0 06	112 ப. சிலைமையா தாட்சி.
	1D	-1ஆ	ச	மு	...	8-5	7	0 91	0 16-5	0 14	48 பெ. கரி தாட்சி.

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1	2	3	4	5	6	7	8	9	10	11	12
								ரூ. பை. தெ. ஏர்ஸ்.	ரூ. பை.		
145	1E	145-1பா	ர	ப	...	8-5	7	0 91	0 04·5	0 86	50 சு. காசி நாடார்.
	1F	-1பா	ர	ப	...	8-5	7	0 91	0 29·5	0 25	50 சு. காசி நாடார்.
	1G	-1பா	ர	ப	...	8-5	7	0 91	0 42·0	0 36	142 க. சுப்பிரமணிய நாடார்.
	2	-2	ர	ப	...	8-5	7	0 91	0 70·5	0 43	333 க. முத்துமாலை நாடார்.
	3	-3	ர	ப	...	8-5	7	0 91	1 82·0	1 25	504 த. சுப்பையா நாடார் (1), வெள்ளப் பாண்டி நாடார்(2), அருணாசல நாடார்(3).
	4	-4	ர	ப	...	8-5	7	0 91	0 26·0	0 25	504 த. சுப்பையா நாடார் (1), வெள்ளப் பாண்டி நாடார் (2), அருணாசல நாடார் (3).
	5	-5	ர	ப	...	8-5	7	0 91	0 45·0	0 44	504 த. சுப்பையா நாடார்(1), வெள்ளப் பாண்டி நாடார்(2), அருணாசல நாடார்(3).
								4 30.0	3 37		
146	1	146-1	ர	ப	...	8-5	7	0 91	2 82·5	2 62	504 த. சுப்பையர் நாடார்(1), வெள்ளப் பாண்டி நாடார்(2), அருணாசல நாடார்(3).
	2A	-2பா	ர	ப	...	8-5	7	0 91	0 34·5	0 32	333 க. முத்துமாலை நாடார்.
	2B	-2பா	ர	ப	...	8-5	7	0 91	0 12·0	0 11	16 ந. ஆதிமூலம் நாடார்.
	2C	-2பா	ர	ப	...	8-5	7	0 91	0 14·0	0 13	159 க. செண்பகத் தம்மாள்.
	2D	-2பா	ர	ப	...	8-5	7	0 91	0 19·5	0 19	234 மா. நாகமணி நாடார்.

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1	2	3	4	5	6	7	8	9	10	11	12
							ஹெ. ஏ.	ஹெ. ஏ.	ஹெ. ஏ.		
146	8D	146-8பா	7	4	...	8-5	7	0 91	0 39-5	0 36	122 ச. சேரி நாடார்.
	8E	-8பா	7	4	...	8-5	7	0 91	0 11-5	0 10	15 ச. ஆறுமுக நாடார்.
	8F	-8பா	7	4	...	8-5	7	0 91	0 05-5	0 05	294 மா. தங்கமணி நாடார்.
	8G	-8பா	7	4	...	8-5	7	0 91	0 32-0	0 26	584 மா. கடலை முத்து நாடார் மற்றும் இந்து மிச்சனம் *
	9A	-9பா	7	4	...	8-5	7	0 91	0 03-0	0 06	380 பொ. வள்ளை முத்து நாடார்.
	9B	-9பா	7	4	...	8-5	7	0 91	0 03-5	0 06	336 கு. முத்தையா நாடார்.
	9C	-9பா	7	4	...	8-5	7	0 91	0 13-0	0 12	23 வை. இசக்கி நாடார்.
	9D	-9பா	7	4	...	8-5	7	0 91	0 03-5	0 06	538 பொ. வள்ளை முத்து நாடார்(1). கு. முத்தையா நாடார்(2). வை. இசக்கி நாடார்(3). இரண்டு வண்டிப் பாதை.
	9E	-9பா	7	4	...	8-5	7	0 91	0 03-0	0 06	380 பொ. வள்ளை முத்து நாடார்.
	9F	-9பா	7	4	...	8-5	7	0 91	0 02-0	0 06	336 கு. முத்தையா நாடார்.
	9G	-9பா	7	4	...	8-5	7	0 91	0 02-0	0 06	23 வை. இசக்கி நாடார்.
	10	-10	7	4	...	8-5	7	0 62	0 46-0	0 29	42 லெ. வைபதி நாடார்.
	11A	-11பா	7	4	...	8-5	7	0 91	0 07-5	0 07	380 பொ. வள்ளை முத்து நாடார்.
	11B	-11பா	7	4	...	8-5	7	0 91	0 06-0	0 06	336 கு. முத்தையா நாடார்.
	11C	-11பா	7	4	...	8-5	7	0 91	0 14-5	0 12	23 வை. இசக்கி நாடார்.
									10 20-5	9 34	

* விவரப் பட்டியலைப் பார்க்கவும்.

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கி. சன்.- 12. மருதம் புத்தூர் (பகுதி-II).

1	2	3	4	5	6	7	8	9	10	11	12
							கு. மை. தெ. எச்ஸ்.		அ. வை.		
147	1	147-1	ர	பு	...	8-5	7	0 91	0 39·5	0 37	229 பொ. தங்க மாடியம்மாள்.
	2A	-2பர	ர	பு	...	8-5	7	0 91	0 27·0	0 25	113 மா. சிவஜு.
	2B	-2பர	ர	பு	...	8-5	7	0 91	0 52·5	0 50	225 சி. தனினார் நாடார்.
	3A	-3பர	ர	பு	...	8-5	7	0 91	0 37·0	0 34	149 த. சுப்பையா நாடார்.
	3B	-3பர	ர	பு	...	8-5	7	0 91	0 47·0	0 41	143 பெ. சுப்பையா நாடார்
	4A	-4பர	ர	பு	...	8-5	7	0 91	0 00·5	0 06	50 சு. காசி நாடார்.
	4B	-4பர	ர	பு	...	8-5	7	0 91	0 00·5	0 06	50 சு. காசி நாடார்.
	4C	-4பர	ர	பு	...	8-5	7	0 91	0 76·5	0 57	50 சு. காசி நாடார்.
	5A	-5பர	ர	பு	...	8-5	7	0 91	0 14·5	0 12	122 த. சீனி நாடார்.
	5B	-5பர	ர	பு	...	8-5	7	0 91	0 09·0	0 08	87 மா. சங்கரப்பு நாடார்.
	5C	-5பர	ர	பு	...	8-5	7	0 91	0 07·0	0 06	131 மா. கடலை முத்து.
	5D	-5பர	ர	பு	...	8-5	7	0 91	0 01·0	0 06	17 மா. ஆதிமூலம் நாடார்.
	5E	-5பர	ர	பு	...	8-5	7	0 91	0 03·0	0 06	408 மா. ஆதி மூலம்(1), த. சீனி நாடார்(2)).
	5F	-5பர	ர	பு	...	8-5	7	0 91	0 07·5	0 06	17 மா. ஆதிமூலம் நாடார்.
	5G	-5பர	ர	பு	...	8-5	7	0 91	0 06·0	0 06	234 மா. நாகமணி நாடார்.
	5H	-5பர	ர	பு	...	8-5	7	0 91	0 24·5	0 19	122 த. சீனி நாடார்.
	6A	-6பர	ர	பு	...	8-5	7	0 91	0 21·5	0 19	504 த. சுப்பையா நாடார்(1), வெ. பாண்டி நாடார்(2), அருணாசலம் நாடார்(3).

நிலையில் வண்டிப் பாதை.

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1	2	3	4	5	6	7	8	9	10		12
							ஏ. ஏ. ஹெ.-ஏர்ஸ்.		ஏ. ஏ.		
147	11B	147-11B பா	ச	பு	...	8-5	7	0 91	0 01·5	0 06	504 த. சுப்பையா நாடார் (1), வெள்ளப்பாண்டி நாடார் (2), அருணாசல நாடார் (3).	நிலையில் வண்டிப் பாதை.
	11C	-11பா	ச	பு	...	8-5	7	0 91	0 01·5	0 06	504 த. சுப்பையா நாடார் (1), வெள்ளப்பாண்டி நாடார் (2), அருணாசல நாடார் (3).	
									6 06·0	5 46		
148	1.	148-I	ச	பு	...	8-5	7	0 91	0 99·0	0 94	34 சு. உமையாள்.	
	2A1	-2A1பா	ச	பு	...	8-5	7	0 91	0 57·0	0 52	275 அ. பூவையா நாடார்.	
	2A2	-2A2பா	ச	பு	...	8-5	7	0 91	0 61·0	0 56	57 அ. குட்டி நாடார்.	
	2A3	-2A3பா	ச	பு	...	8-5	7	0 91	0 70·0	0 67	257 அ. பூனையா நாடார்.	
	2B	-2B	ச	பு	...	8-5	7	0 91	2 40·0	2 25	335 இ. முத்து மாலையம்மாள்.	சதுரக்கிண
									5 27·0	4 94		
149	1.	149-பா	ச	பு	...	8-5	7	0 91	0 06·0	0 06	128 இ. சீதாள்.	
	2	-பா	ச	பு	...	8-5	7	0 91	0 02·5	0 06	120 இ. சீதாள்.	நிலையில் வண்டிப் பாதை.
	3	-பா	ச	பு	...	8-5	7	0 91	0 52·0	0 47	128 இ. சீதாள்.	
	4	-பா	ச	பு	...	8-5	7	0 91	0 60·0	0 56	389 பூ. வெள்ளைச் சாமி நாடார்.	
	5	-பா	ச	பு	...	8-5	7	0 91	0 41·0	0 37	417 வை. அய்யணம் மாள் (1), வை. சுப்பையா நாடார் (2).	
	6	-பா	ச	பு	...	8-5	7	0 91	0 34·0	0 31	44 இ. கனக கோட்டி நாடார்.	
	7	-பா	ச	பு	...	8-5	7	0 91	0 46·5	0 42	333 க. முத்துமாலை நாடார்.	
									2 42·0	2 25		

ANNEXURE VII

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L.No. 10/93

குத்தகை ஆவணம்

2024ம் ஆண்டு பிப்ரவரி மாதம் 26க்கு மாசி மாதம் 14ம் தேதி ஆலங்குளம் தாலுகா, மருதம்புத்தூர் கிராமம், முக்கூடல் ஆலங்குளம் மெயின் ரோடு கதவு எண் 34/6A நம்பர் விலாசத்தில் இயங்கிவரும் **'M/S KRISHNA BLUE METAL'** (Pan card no AAQFK1381G) நிறுவனத்திற்காக

K. Ravi

G. Kuppuraj

M. Nallathambi.

குத்தகை கொடுப்பவர்கள்

குத்தகை பெறுபவர்

...புத்தகம் 2024 ம் வருடத்தில் ...ம் ஆவணம்
...தாலுகா அலுவலகம் கொண்டது
...வது தாள்
பதிவு அலுவலர்

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INDIA NON JUDICIAL

தமிழ்நாடு तमिलनाडु TAMILNADU

EB 011205

K.SURESH
Stamp Vendor,
ALANGULAM.
L.No. 10/93.

Prasad Raju
Nallur
05-02-2024

ஷை நிறுவனத்தின் பங்குதாரர்களும், திருநெல்வேலி மாவட்டம், சேரன்மகாதேவி தாலுகா, சேரன்மகாதேவி, செட்டிக்குடி தெரு 3/83 நம்பர் விலாசத்திலிருக்கும் சுப்பிரமணியன் அவர்கள் குமாரருமான பன்னீர்செல்வன் (அதார் அட்டை எண் 9022 9604 9697) .1

K. Ravi

குத்தகை கொடுப்பவர்கள்

குத்தகை பெறுபவர்

புத்தகம் 2024 ம் வருடத்திய ... ஆவணம்

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தமிழ்நாடு तमिलनाडु TAMILNADU

EB 011206

K.SURESH
Stamp Vender,
ALANGULAM.
L.No. 10/93.

-3-

ஆலங்குளம் தாலுகா, சிவலார்குளம் கிராமம், கஸ்பா பிள்ளையார்கோவில் தெரு விலாசத்திலிருந்து தற்சமயம் ஆலங்குளம் தாலுகா, ஆலங்குளம் கிராமம் கஸ்பா காமராஜ் நகர், முன்னாள் ராணுவ வீரர்கள் தெரு கதவு எண் 11/63 நம்பர் விலாசத்திலிருக்கும் கல்யாணசுந்தரம் அவர்கள் குமாரருமான **ஜெய்சுந்தர்** (ஆதார் அட்டை எண் 3626 8084 0179) .2

குத்தகை கொடுப்பவர்கள் ... குத்தகை பெறுபவர்

பதிவு அலுவலர்

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திருநெல்வேலி தாலுகா சங்கர்நகர் நாரணம்மாள்புரம் ஊரில் செல்வி அம்மன் கோவில் தெரு கதவு எண் 177C நம்பர் விலாசத்திலிருக்கும் கிருஷ்ணன் அவர்கள் குமாரருமான **ராஜ்** (ஆதார் அட்டை எண் 6092 8753 4543) .3 தென்காசி மாவட்டம், தென்காசி, குத்துக்கல்வலசை, கே.ஆர்.காலனி 11வது தெரு, கதவு எண் 5/262-8 விலாசத்திலிருக்கும் குருசாமி அவர்கள் குமாரருமான **கருப்பசாமி** (ஆதார் அட்டை எண் 7159 7983 9465) .4 ஆலங்குளம் தாலுகா சிவலார்குளம் கிராமம் கஸ்பா அம்மன் கோவில் தெரு கதவு எண் 4/111 நம்பர் விலாசத்திலிருக்கும் முத்தையா அவர்கள் குமாரருமான **நிறைகுளத்தான்** (ஆதார் அட்டை எண் 6298 9516 2471) .5 ஆகிய ஐந்து பேர்களும் தங்கள் சொந்த நிலமையிலும், மேற்கண்ட **'M/S KRISHNA BLUE METAL'** நிறுவனத்தின் பங்குதாரர்கள் நிலமையிலுமாக சேர்ந்து 1வது பார்ட்டிகள் (குத்தகைக்கு கொடுப்பவர்கள்)

தென்காசி மாவட்டம், ஆலங்குளம் தாலுகா, சிவலார்குளம் கிராமம், நல்லூர் பஞ்சாயத்து, இந்திரா நகர், கதவு எண் 4/148 விலாசத்திலிருக்கும் கல்யாணசுந்தரம் அவர்கள் குமாரர் **பிரசாத்ராஜ்** (ஆதார் அட்டை எண் 7638 6910 0350) 2வது பார்ட்டி (குத்தகை வாங்குபவர்) ஆகிய நாம் இரு பார்ட்டிகளும் சேர்ந்து எழுதிகொண்ட கிரஷர் குத்தகை ஆவணம் என்னவென்றால்

K. Ravi

G. Kuppuraj

M. Nainarmohamed.

குத்தகை கொடுப்பவர்கள்

குத்தகை பெறுபவர்

பதிவு அலுவலர்

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இதன் தபசில் கண்ட 1 முதல் 10 அயிட்டம் மற்றும் 12, 13 அயிட்ட நிலங்கள் நம்மில் 1வது பார்ட்டிகள் பெயரால் ஆலங்குளம் சப்ரி ஆபிஸ் 1.1341/2017, 1.2158/2017, 1.5106/2020, 1.5749/2018, 1.2155/2017, 1.2241/2017, 1.1340/2017, 1.5476/2017, 1.4118/2017, 1.3010/2020, 1.1940/2018, 1.1941/2018 நம்பர்களாகவும் உள்ள கிரைய ஆவணங்கள் மூலமும், 1 வது பார்ட்டிகள் பெயரால் 1828, 1871, 1913, 1011, 900, 143, 911, 1015, நம்பர்களாக தனிப்பட்டா பெற்றும், இதன் 11 அயிட்ட நிலம் மேற்கண்ட **'M/S KRISHNA BLUE METAL'** நிறுவனத்தின் பெயரால் ஷை ஆலங்குளம் சப்ரி ஆபிஸ் 1.2372/2023 நம்பராகவும் உள்ள கிரைய ஆவணம் மூலம் பாத்தியப்பட்டும், மேற்கண்ட நிறுவனத்தின் பெயரால் 1096 நம்பராக தனிப்பட்டா பெற்றும் நாளது தேதி வரை சர்க்கார் தீர்வைகள் செலுத்தி சர்வசுதந்திரமாக சகல உரிமைகளுடன் ஆண்டு அனுபவித்து வரும் சொத்தாகும். இதன் தபசில் கண்ட சொத்திற்கு அரசு அனுமதி பெற்ற கனிமம் சார்ந்த தொழில் செய்வதற்காக குத்தகைக்கு தேவைப்படும் பட்சத்தில் 1வது பார்ட்டிகள் ஐந்து பேர்களும் வெளியூரில் இருப்பதால் 2வது பார்ட்டி கேட்டுக்கொண்டதை ஏற்று இன்று முதல் வருடம் ஒன்றுக்கு ரூ.10,000 (பத்தாயிரம்) குத்தகை தொகையாக நிர்ணயித்து 15 (பதினைந்து) ஆண்டுகளுக்கு (26.02.2024 முதல் 26.02.2039 வரை) தங்களுக்கு குத்தகைக்கு விட 1வது பார்ட்டிகள் தங்கள் சொந்த நிலமையிலும் மேற்கண்ட நிறுவனத்தின் பங்குதாரர்கள் நிலமையிலும் சம்மதம் தெரிவிக்கிறோம் இன்று முதல் இதன் தபசில் கண்ட சொத்தின் சுவாதீனத்தை பெற்றுள்ள 2வது பார்ட்டி தொழிலுக்கு தேவையான மாற்றங்களை தபசில் கண்ட சொத்தில் தனது சொந்த பெருட்செலவில் செய்து கொள்ள வேண்டியது

K. Ram

குத்தகை கொடுப்பவர்கள்

பதிவு அலுவலர்

குத்தகை பெறுபவர்

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மின் இணைப்பு, வண்டி வாகனங்கள் போன்றவற்றை 2வது பார்ட்டி ஏற்பாடு செய்து கொண்டு அரசு அலுவலகங்களில் 2வது பார்ட்டி பெயரிலோ, நிறுவனத்தின் பெயரிலோ, 2வது பார்ட்டி கையொப்பம் செய்து கொண்டு தபசில் கண்ட சொத்தில் தொழிலுக்கு தேவையான கட்டிடங்களை அரசு அனுமதியுடன் அமைத்து கொள்ள வேண்டியது. இதன் தபசில் கண்ட சொத்தில் அரசின் சட்டத்திட்டங்களுக்கு பாதமாக 2வது பார்ட்டி செய்யக்கூடாது. கனிமவளம் எடுக்கும் போது அரசின் சட்டம் மற்றும் விதிமுறைகளுக்கு உட்பட்டு மட்டுமே தபசில் கண்ட சொத்தின் நிலத்தில் இருந்து கனிம வளங்களை 2வது பார்ட்டி எடுக்க வேண்டும்.

இதன் தபசில் கண்ட சொத்தினை குத்தகை காலம் முடியும் தருணத்தில் குத்தகையை நீடித்து கொள்ள நாம் இருபார்ட்டிகளும் விரும்பாத நிலையில் மீண்டும் நாம் இருபார்ட்டிகளும் சேர்ந்து இன்றைய நிலையிலோ கட்டிடத்தோடோ சுவாதீனத்தை ஒப்படைத்து விட வேண்டியது. குத்தகை நீட்டிப்பு செய்யும் பட்சத்தில் அதற்கு தனியாக ஒரு ஆவணம் எழுதி அதனை பதிவு செய்து கொள்ள வேண்டும். இதன்படி நாம் இரு பார்ட்டிகளும் சேர்ந்து மன நிறைவுடன் எழுதிக்கொண்ட குத்தகை பத்திரம்.

தபசில் விபரம்

தென்காசி பதிவு மாவட்டம் ஆலங்குளம் சப்ரி சரகம் ஆலங்குளம் தாலுகா **மருதம்புத்தூர் கிராமம்** அயன் புஞ்சை

1. சர்வே **36/1** நம்பர் ஹெக்டேர் 0.14.50ம் முழுவதும்

K. Ravi

குத்தகை கொடுப்பவர்கள்

குத்தகை பெறுபவர்

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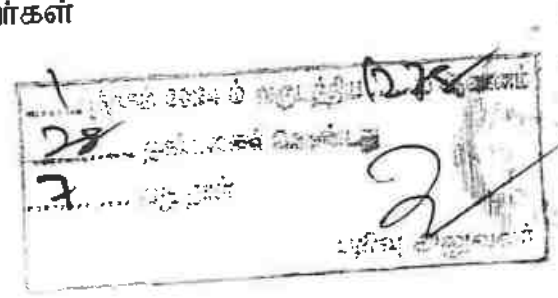
2. சர்வே **36/2B** நம்பர் ஹெக்டேர் 0.17.55ம் முழுவதும், வைத நிலம் பழைய சர்வேபடி 36/2 நம்பர் ஹெக்டேர் 0.20.0க்கு செண்டு 49.50ல், மேலஓரத்தில் வடக்கோரம் செண்டு 6 நிலம் நீங்கலாக மீதமுள்ள செண்டு 43.50ம் என்றுள்ளது
3. சர்வே **36/4C** நம்பர் ஹெக்டேர் 0.27.0ம் முழுவதும்
4. சர்வே **147/1** நம்பர் ஹெக்டேர் 0.39.50ம் முழுவதும்
5. சர்வே **147/2A** நம்பர் ஹெக்டேர் 0.27.0ம் முழுவதும்
6. சர்வே **147/2B** நம்பர் ஹெக்டேர் 0.52.50ம் முழுவதும்
7. சர்வே **147/3A** நம்பர் ஹெக்டேர் 0.37.0ம் முழுவதும்
8. சர்வே **147/3B** நம்பர் ஹெக்டேர் 0.47.0ம் முழுவதும்
9. சர்வே **147/9C** நம்பர் ஹெக்டேர் 0.30.0ம் முழுவதும்
10. சர்வே **148/1** நம்பர் ஹெக்டேர் 0.99.0ம் முழுவதும்
11. சர்வே **147/4C** நம்பர் ஹெக்டேர் 0.76.50ம் முழுவதும்
12. சர்வே **147/5H** நம்பர் ஹெக்டேர் 0.24.50ம் முழுவதும்
13. சர்வே **147/8B** நம்பர் ஹெக்டேர் 0.40.0ம் முழுவதும்

K. Rani

குத்தகை பெறுபவர்

குத்தகை கொடுப்பவர்கள்



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எல்கை::

கிழக்கே - வண்டிப்பாதையும், சர்வே 147/5F, 147/5G, 145/1C, 1D நம்பர் நிலமும்

மேற்கே - சர்வே 36/5C4, 36/5B4, 36/5B5, 36/2A, 36/4B நம்பர் நிலம்

வடக்கே - வண்டிப்பாதையும், சர்வே 37/1E, 146/9E, 146/9F, 146/9G, 147/5G, 147/10C, 147/6C, 147/11C நம்பர் நிலம்

தெற்கே - சர்வே 35/4I, 148/2A1, 148/2B, 148/2B2, 148/2B3, 148/2B4 நம்பர் நிலம்

இதற்குள்பட்டதும் ஆக மொத்தம் ஹெக்டேர் 5.32.05க்கு ஏக்கர் 13 செண்டு 14ம் பூராவும் தபசில் விபரம் சரி. தபசில் சொத்து மருதம்புத்தூர் பஞ்சாயத்து எல்கைக்குள்ளும் பாப்பாக்குடி யூனியன் ஆளுகைக்குள்ளும்பட்டது.

குத்தகை கொடுப்பவர்கள்

குத்தகை பெறுபவர்

சாட்சிகள்

1. (மரியசாம் ஜீனோ) s/o ஜெய்சுந்தர் 11/63 முன்னாள் ராணுவ வீரர்கள் தெரு, ஆலங்குளம் (ஆதார் அட்டை எண 5277 6919 2900)

2. (ராமர்) s/o முத்து 4/319-1 கீழப்பரும்பு, காளத்திமடம், குத்தப்பாஞ்சான் (ஆதார் அட்டை எண் 2482 7074 4783)

இந்த பத்திரம் தயாரித்தவர்

M.குமார் த/பெ மயிலேறும்பெருமாள் பிள்ளை, சிவலார்குளம்
உரிமம் எண் C.21/TKS/84 Cell no 9585998889

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of Geology & Mining
Tenkasi Dist.

சொத்தானது நீர்நிலை பகுதியில் அமையப்பெறவில்லை என்பதற்கான சான்று/ உறுதிமொழி (Declaration) (நீதிபேராணை எண் 22163/2018ல், வழங்கப்பட்ட தீர்ப்புரை)

இந்த ஆவணத்தில் கண்ட சொத்தானது நீர்நிலைகள், நீர்வழிப்பாதைகள், நீர்பிடிப்பு பகுதிகளில் கட்டுப்படவில்லை என சான்றளிக்கிறோம். மேலும் இதனில் தங்களுக்கு தவறான தகவல் அல்லது சான்று அளிக்கப்பட்டதாக பின்னாளில் கண்டுபிடிக்கப்பட்டால் அதனால் நான்/நாங்கள் சட்ட பூர்வநடவடிக்கைகளுக்கு உட்படுத்தப்படுவோம் என்பதையும் அறிவேன்/அறிவோம்.

K. Rani

ஆவணத்தை எழுதிக்கொடுப்பவர்களின் கையொப்பம்

ஆவணத்தை எழுதிப்பெறுவர்களின் கையொப்பம்

28 ... 2.18 ஆவணம்

பதிவு அலுவலர்

பன்னீர்செல்வன்
Panneerselvan
பிறந்த நாள் / DOB : 20/06/1958
ஆண்பால் / Male

19/08/2013

9022 9604 9697

எனது ஆதார், எனது அடையாளம்

முகவரி: S/O. சுப்பிரமணியன், எண் 3/2
மேலநாலாந்தெரு, சேரன்மகாதேவி,
அம்பாசமுத்திரம், திருநெல்வேலி, தமிழ்
நாடு, 627414

Address: S/O: Subbiramanian, no 3/2,
MELA NATHAN STREET,
CHERANMAHADEVI, Ambasamudram,
Tirunelveli, Tamil Nadu, 627414

9022 9604 9697

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

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Government of India

ஜெயசுந்தர் கல்யாணசுந்தரம்
Jaisundar Kalyanasundaram
தந்தை : கல்யாணசுந்தரம்
Father : KALYANMSUNDARAM
பிறந்தவருடம் / Year of Birth : 1963
ஆண்பால் / Male

3626 8084 0179

ஆதார் - சாதாரண மனிதனின் அதிகாரம்

Unique Identification Authority of India

முகவரி:
S/O: கல்யாணசுந்தரம், 11/63,
முனைவர் ராணுவவீரர்கள் தெரு
காமராஜ் நகர், ஆலங்குளம்,
ஆலங்குலம், திருநெல்வேலி,
ஆலங்குளம், தமிழ் நாடு, 627851

Address:
S/O: Kalyanasundaram, 11/63,
EX- SERVICE MEN STREET
KAMARAJ NAGAR,
ALANGULAM, Alangulam,
Tirunelveli, Alangulam, Tamil
Nadu, 627851

3626 8084 0179

1800 300 1947 help@uidai.gov.in www.uidai.gov.in

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ராஜு
Raju
தந்தை கிருஷ்ணன்
Father KRISHNAN
பிறந்த நாள் DOB
ஆண்பால் Male

6092 8753 4543

எனது ஆதார், எனது அடையாளம்

Unique Identification Authority of India

முகவரி:
S/O எஸ் கிருஷ்ணன் 177C
செல்வி அம்மன் கோவில் தெரு
நாராயணமாளபுரம்
திருநெல்வேலி சங்கர்நகர்
சங்கர்நகர் திருநெல்வேலி
தமிழ் நாடு 627357

Address:
S/O, S Krishnan, 177C Selvi
Amman Kovil Street,
Narayanamalpuram, Tirunelveli
Sankarnagar, Sankarnagar,
Tirunelveli Tamil Nadu, 627357

6092 8753 4543

1947

Government of India

கருப்பசாமி
Karuppasamy
பிறந்த நாள்/DOB: 27/06/1974
ஆண்/ MALE

Download Date: 11/08/2020

Issue Date: 18/07/2014

7159 7983 9465
VID : 9116 3291 9229 1927

எனது ஆதார், எனது அடையாளம்

Unique Identification Authority of India

முகவரி:
S/O: குருசாமி, 271-A, கன்னிமாரம்மன்
கோவில் தெரு, தென்காசி, தென்காசி,
திருநெல்வேலி,
தமிழ் நாடு - 627811

Address:
S/O: Gurusamy, 271-A, KANNIMARAMMAN
KOVIL STREET, TENKASI, Tenkasi,
Tirunelveli,
Tamil Nadu 627811

7159 7983 9465
VID : 9116 3291 9229 1927

Government of India

நிரைகுளத்தான் முத்தையா
Niraikulathan Muthiah
பிறந்த நாள்/DOB: 27/05/1976
ஆண்/ MALE

6298 9516 2471

எனது ஆதார், எனது அடையாளம்

Unique Identification Authority of India

முகவரி:
S/O முத்தையா, எண் 4/98, [illegible]
தெரு, சிவனாகுளம், சிவனாகுளம்,
திருநெல்வேலி,
தமிழ்நாடு - 627853

Address:
S/O Muthiah, NO 4/98, ANNAI
[illegible] SIVANARKULAM,
Sivanarkulam, Tirunelveli,
Tamil Nadu 627853

6298 9516 2471

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Government of India

Prasadraja
பிறந்த நாள்/DOB: 29/08/1961
ஆண்/ MALE

7638 6910 0350

VID : 9190 9839 9065 2160

Government of India

முகவரி:
S/O: கல்யாண சுந்தரம், 4/148, இந்திரா நகர்,
நல்லூர், நல்லூர், திருநெல்வேலி,
தமிழ் நாடு - 627853

Address:
S/O: Kalyana Sundaram, 4/148, INDRA
NAGAR, NALLUR, Nallur, Tirunelveli,
Tamil Nadu - 627853

7638 6910 0350

VID : 9190 9839 9065 2160

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இந்திய அரசாங்கம்
Government of India

மரிய சாம் ஜீனோ ஜெய்சுந்தர்
Maria Sam Jeeno Jaisundar
பிறந்த நாள் / DOB : 03/10/1990
ஆண்பால் / Male

5277 6919 2900

ஆதார்

முகவரி: s/o: ஜெய்சுந்தர், 11/63,
முன்னால் ராணுவவீரர்கள் தெரு
காமராஜ் நகர், ஆலங்குளம், ஆலங்குளம்,
ஆலங்குளம், திருநெல்வேலி, தமிழ் நாடு,
627851

Address: S/O: Jaisundar, 11/63,
EX-SERVICE MEN STREET KAMARAJ
NAGAR, ALANGULAM, Alangulam,
Alangulam, Tirunelveli, Tamil Nadu, 627851

5277 6919 2900

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இந்திய அரசாங்கம்
Government of India

மு ராமர்
M.Ramar
தந்தை : முத்து
Father : MUTHU

பிறந்த நாள்/DOB: 19/05/1950
ஆண்பால் / Male

2482 7074 4783

ஆதார் - சாதாரண மனிதனின் அதிகாரம்

ஆதார்

Unique Identification Authority of India

முகவரி: த/பெ: முத்து, 4/319-1
கீழபரம்பு, காளத்தி மடம்
குத்தபாஞ்சான், குத்தபாஞ்சான்
திருநெல்வேலி, தமிழ் நாடு, 627851

Address: S/O: Muthu,
4/319-1, KEELAPARAMBU,
KALATHI MADAM,
Kuthapanjan, Tirunelveli,
Kuthapanjan, Tamil Nadu,
627851

மு.ராமர்

2482 7074 4783

1947
1800 300 1947

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தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி

வட்டம் : ஆலங்குளம்

வருவாய் கிராமம் : மருதம்புத்தூர்-1

பட்டா எண் : 1828

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாணசுந்தரம்	மகன்	ஜெயசுந்தர்
3.	கிருஷ்ணன்	மகன்	ராஜு
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

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	
35	4A	0 - 28.50	0.35	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4B	0 - 28.00	0.35	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4C	0 - 46.00	0.57	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4D	0 - 53.00	0.65	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4E	0 - 29.00	0.36	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4F	0 - 33.00	0.40	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4G	0 - 31.00	0.40	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4H	0 - 70.50	0.87	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4I	0 - 80.00	1.00	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
36	1	0 - 14.50	0.19	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
36	5C3	0 - 18.00	0.23	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
36	5C4	0 - 11.00	0.14	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
		4 - 42.50	5.51					

புத்தகம் 2024 ம் வருடத்து ... ஆவணம்
... நகல் கொண்டது
... வருகிறது

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின்னணு முறையில் பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணையதளத்தில் 34/11/271/01828/20199 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:03:30 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி வட்டம் : ஆலங்குளம்

வருவாய் கிராமம் : மருதம்புத்தூர்-1 பட்டா எண் : 1871

உரிமையாளர்கள் பெயர்

1.	கல்யாணசுந்தரம்	மகன்	ஜெயசுந்தர்
2.	கிருஷ்ணன்	மகன்	ராஜு
3.	முத்தையா	மகன்	நிறைகுளத்தான்
4.	குருசாமி	மகன்	கருப்பசாமி
5.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்

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	
31	9	0 - 40.00	0.50	--	--	--	--	2019/0103/29/176526-- -- 11-06-2019
34	2B	0 - 7.00	0.09	--	--	--	--	2019/0103/29/176526-- -- 11-06-2019
35	6J	0 - 19.00	0.25	--	--	--	--	2019/0103/29/176526-- -- 11-06-2019
36	2B	0 - 17.55	0.20	--	--	--	--	2017/0105/29/018898--2017/29/11/000022SD -- 06-11-2017
36	5A1	0 - 13.00	0.16	--	--	--	--	2018/0103/29/150918-- -- 30-03-2019
36	5A4	0 - 7.00	0.10	--	--	--	--	2018/0103/29/150918-- -- 30-03-2019
37	2A	0 - 37.00	0.46	--	--	--	--	2019/0103/29/188780-- -- 24-07-2019
37	2B	0 - 25.00	0.31	--	--	--	--	2019/0103/29/176526-- -- 11-06-2019
37	2C	0 - 3.00	0.06	--	--	--	--	2019/0103/29/188201-- -- 24-07-2019
37	9D	0 - 15.00	0.19	--	--	--	--	2018/0103/29/150918-- -- 30-03-2019
		1 - 83.55	2.32					

புதுதாக 2024 ம் வருடத்தில் 23 வது தாள்

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் பொது அதிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in எனற இணையதளத்தில் 34/11/271/01871/20127 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:04:41 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி

வட்டம் : ஆலங்குளம்

வருவாய் கிராமம் : மருதம்புத்தூர்-1

பட்டா எண் : 1913

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாணசுந்தரம்	மகன்	ஜெய்சுந்தர்
3.	கிருஷ்ணன்	மகன்	ராஜு
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

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	
36	3B	0 - 16.00	0.20	--	--	--	--	2018/0103/29/114234- -- -- 01-06-2018
36	4C	0 - 27.00	0.33	--	--	--	--	2020/0103/34/249928- -- -- 04-12-2020
37	1C	0 - 10.00	0.12	--	--	--	--	2020/0103/34/249928- -- -- 04-12-2020
37	1E	0 - 20.50	0.25	--	--	--	--	2020/0103/34/249928- -- -- 04-12-2020
		0 - 73.50	0.90					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/271/01913/20144** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:05:35 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

...மாத்தம் 2024 ம் ஆண்டு ...ம் ஆவணம்

...வது நகல்

பதிவு அலுவலர்

வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்

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தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி

வட்டம் : ஆலங்குளம்

வருவாய் இராமம் : மருதம்புத்தூர்-2

பட்டா எண் : 1011

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாணசுந்தரம்	மகன்	ஜெய்சுந்தர்
3.	கிருஷ்ணன்	மகன்	ராஜூ
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

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	
144	2A	0 - 33.50	0.30	--	--	--	--	2020/0103/34/240105-- -- 22-09-2020
145	2	0 - 70.50	0.43	--	--	--	--	2020/0103/34/240105-- -- 22-09-2020
146	2B	0 - 12.00	0.11	--	--	--	--	2020/0103/34/238028-- -- 21-09-2020
147	1 ✓	0 - 39.50	0.37	--	--	--	--	2020/0103/34/238028-- -- 21-09-2020
		1 - 55.50	1.21					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/01011/20223** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இச் சுருவல்கள் 24-02-2024 அன்று 02:06:38 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்

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தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 143**

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்	
2.	கல்யாண சுந்தரம்	மகன்	ஜெய்சுந்தர்	
3.	கிருஷ்ணன்	மகன்	ராஜு	
4.	குருசாமி	மகன்	கருப்பசாமி	
5.	முத்தையா	மகன்	நிறைகுளத்தான்	

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	
147	3B ✓	0 - 47.00	0.41	--	--	--	--	2018/0103/29/137897-- -- 26-10-2018
147	9A	0 - 10.00	0.09	--	--	--	--	2018/0103/29/137897-- -- 26-10-2018
147	9B	0 - 3.00	0.06	--	--	--	--	2018/0103/29/137897-- -- 26-10-2018
147	9C ✓	0 - 30.00	0.22	--	--	--	--	2018/0103/29/137897-- -- 26-10-2018
148	1 ✓	0 - 99.00	0.94	--	--	--	--	2018/0103/29/137897-- -- 26-10-2018
		1 - 89.00	1.72					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/00143/20248** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:07:38 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்

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தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 900**

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாணசுந்தரம்	மகன்	ஜெய்சுந்தர்
3.	கிருஷ்ணன்	மகன்	ராஜு
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

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	
146	3A	0 - 24.00	0.22	--	--	--	--	2017/0103/29/067046-- -- 29-06-2017
147	2A	0 - 27.00	0.25	--	--	--	--	2017/0103/29/067046-- -- 29-06-2017
147	2B	0 - 52.50	0.50	--	--	--	--	2017/0103/29/067046-- -- 29-06-2017
147	3A	0 - 37.00	0.34	--	--	--	--	2017/0103/29/067046-- -- 29-06-2017
		1 - 40.50	1.31					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/00900/100219** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:07:00 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

பதிவு அலுவலர்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 911**

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாணசுந்தரம்	மகன்	ஜெய்சுந்தர்
3.	கிருஷ்ணன்	மற்றவை	ராஜு
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

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	
147	5A	0 - 14.50	0.12	--	--	--	--	2017/0103/29/082234- -- -- 24-10-2017
147	5D	0 - 1.00	0.06	--	--	--	--	2017/0103/29/082234- -- -- 24-10-2017
147	5F	0 - 7.50	0.06	--	--	--	--	2017/0103/29/082234- -- -- 24-10-2017
147	5H ✓	0 - 24.50	0.19	--	--	--	--	2017/0103/29/082234- -- -- 24-10-2017
		0 - 47.50	0.43					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/00911/100221** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:08:15 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான்மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

...பத்தாம் 2024 ம் ஆண்டு ... ஆவணம்
... நகல் ...
18 ... ஆம் நாள்
... அலுவலர்

வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்

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தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 1015**

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாணசுந்தரம்	மகன்	ஜெய்சுந்தர்
3.	கிருஷ்ணன்	மகன்	ராஜூ
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

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	
146	10	0 - 46.00	0.29	--	--	--	--	2020/0103/34/240114- -- -- 22-09-2020
146	11B	0 - 6.00	0.06	--	--	--	--	2020/0103/34/240114- -- -- 22-09-2020
146	11C	0 - 14.50	0.12	--	--	--	--	2020/0103/34/240114- -- -- 22-09-2020
146	4B	0 - 27.50	0.26	--	--	--	--	2020/0103/34/240114- -- -- 22-09-2020
146	5A	0 - 54.50	0.44	--	--	--	--	2020/0103/34/240114- -- -- 22-09-2020
146	6	0 - 30.50	0.31	--	--	--	--	2020/0103/34/240114- -- -- 22-09-2020
146	9B	0 - 3.50	0.06	--	--	--	--	2020/0103/34/240114- -- -- 22-09-2020
146	9C	0 - 13.00	0.12	--	--	--	--	2020/0103/34/240114- -- -- 22-09-2020
146	9F	0 - 2.00	0.06	--	--	--	--	2020/0103/34/240114- -- -- 22-09-2020
146	9G	0 - 2.00	0.06	--	--	--	--	2020/0103/34/240114- -- -- 22-09-2020
147	8A	0 - 1.00	0.06	--	--	--	--	2020/0103/34/240114- -- -- 22-09-2020
147	8B	0 - 40.00	0.31	--	--	--	--	2020/0103/34/240114- -- -- 22-09-2020
		2 - 40.50	2.15					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/01015/20267** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:08:48 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்

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தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 1096**

உரிமையாளர்கள் பெயர்

1. - மற்றவை எம்/எஸ் கிருஷ்ணா புளுமெட்டல்

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	
145	1A	0 - 8.00	0.07	--	--	--	--	2023/0103/34/349957- -- -- 08-05-2023
145	1B	0 - 5.00	0.06	--	--	--	--	2023/0103/34/349957- -- -- 08-05-2023
145	1C	0 - 1.00	0.06	--	--	--	--	2023/0103/34/349957- -- -- 08-05-2023
145	1D	0 - 16.50	0.14	--	--	--	--	2023/0103/34/349957- -- -- 08-05-2023
145	1E	0 - 4.50	0.06	--	--	--	--	2023/0103/34/349957- -- -- 08-05-2023
145	1F	0 - 29.50	0.25	--	--	--	--	2023/0103/34/349957- -- -- 08-05-2023
145	1G	0 - 42.00	0.36	--	--	--	--	2023/0103/34/349957- -- -- 08-05-2023
147	4A	0 - 0.50	0.06	--	--	--	--	2023/0103/34/349957- -- -- 08-05-2023
147	4B	0 - 0.50	0.06	--	--	--	--	2023/0103/34/349957- -- -- 08-05-2023
147	4C	0 - 76.50	0.57	--	--	--	--	2023/0103/34/349957- -- -- 08-05-2023
		1 - 84.00	1.69					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/01096/20276** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:10:00 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

.....யத்தம் 2024 ம் ஆண்டு
..... தாலுகா
..... வட்டம்
வருவாய் அலுவலர்

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Tenkasi Dist.

FORM C (See Rule 9(a))

GOVERNMENT OF TAMIL NADU

ACKNOWLEDGEMENT OF REGISTRATION OF FIRM

The Registrar of Firms, Tenkasi hereby acknowledges the receipt of the statement prescribed by section 58(1) of the Indian Partnership Act 1932.

The statement has been filed and the name of the firm has been entered in the Register of Firms as No. 06 of 2016

"M/S KRISHNA BLUE METAL"

REGISTRAR OF FIRMS
TENKASI

DISTRICT REGISTRAR OFFICE TENKASI

Dated the TH of 19th January 2016

Tenkasi.

भारतीय गैर न्यायिक

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बीस रुपये Rs.20

रु.20 TWENTY RUPEES

INDIA

INDIA NON JUDICIAL

TAMIL NADU

Krishna Blue metal
Maruthampudhur
28.4.2022

M.Ramasamy
Stamp Vendor
ALANKULAM
L.No. 11/93.

கிரையம் வாங்குவதற்கான தீர்மானம்

-ம் வருடம் ஏப்ரல் மாதம் (28-04-2022) 28-ம் தேதிக்கு,

தென் சி மாவட்டம்-627851, ஆலங்குளம், ஆலங்குளம் முன்னாள் ராணுவ வீரர் தெரு காமராஜர் நகர் கதவு எண் 11/63 என்ற முகவரியில் வசித்து, வரும் வயது 60 உடைய திரு.கல்யாணசுந்தரம் அவர்களின் குமார் திரு.க.ஜெய்சுந்தர் அவர்கள் 1-வது பார்ட்டியாளர்,

திருநெல்வேலி மாவட்டம்-627414, சேரன்மகாதேவி, மேலநாலான் தெரு, 3/2 என்ற முகவரியில் வசித்து வரும் திரு.சுப்பிரமணியன் அவரின் குமாரர் 64 வயதுடைய திரு.க.பன்னீர்செல்வன்-1,

1-வது பார்ட்டியார்

2-வது பார்ட்டியார்கள்

K. Pan

G. Kumaresan

M. பன்னீர்செல்வம்.

முத்திரை 2024 ம் ஆண்டு ... திருநெல்வேலி
... தென்காசி மாவட்டம்
22 ... வது தாள்

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திருநெல்வேலி-627354, சங்கர்நகர், நாராயணம்மாள்புரம், செல்வி அம்மன் கோவில் தெரு, கதவு எண் 177சி என்ற முகவரியில் வசித்து வரும் திரு.கிருஷ்ணன் அவர்களின் குமாரர் 45 வயதுடைய **திரு.கி.ராஜு-2,**

தென்காசி-627811, குத்துக்கல்வலசை, வார்டு எண் 5, 11-வது தெரு, K.R.காலனி, கதவு எண் 262/8 என்ற முகவரியில் வசித்து வரும் திரு.குருசாமி அவர்களின் குமாரர் 46 வயதுடைய **திரு.கு.கருப்பசாமி-3,** தென்காசி மாவட்டம், சிவலார்குளம்-627853, அம்மன் கோயில் தெரு, கதவு எண் 4/98 என்ற முகவரியில் வசித்து வரும் திரு.முத்தையா அவர்களின் குமாரர் 44 வயதுடைய **திரு.மு.நிறைகுளத்தான்-4** ஆகியோர்கள் 2-வது பார்ட்டியார்கள், ஆக 1, 2 பார்ட்டியார்கள் எழுதிகொள்ளும் கிரையம் வாங்குவதற்கான தீர்மான ஆவணம் என்னவென்றால்,

நம் இரு பார்ட்டியார்களுக்கும் பாத்தியப்பட்டு Registration No.**06 of 2016**-ன் படி பதிவுசெய்யப்பட்ட **கிருஷ்ணா புளு மெட்டல்** நிறுவனத்திற்கு நிலங்கள் வாங்குவதற்கு நம் ஐந்து பேர்களும் பங்குதாரர்களாக உள்ளோம். நம் ஐந்து பேர்களும் வெவ்வேறு ஊர்களில் இருப்பதால் பத்திர பதிவிற்கு வர வசதியில்லாத காரணத்தினால் 1, 2-வது பார்ட்டியார்கள் ஒரு மனதாக முடிவு செய்து 1-வது பார்ட்டியார் **திரு.க.ஜெய்கந்தர்** அவர்களை **கிருஷ்ணா புளு மெட்டல்** நிறுவனத்தின் அங்கீகரிக்கப்பட்ட கையொப்பமிடுபவர் **(Authorised Signature)** நிலைமையில் நிலங்களை கிரையம் வாங்குவதற்கு ஏகமனதாக தீர்மானித்துள்ளோம்.

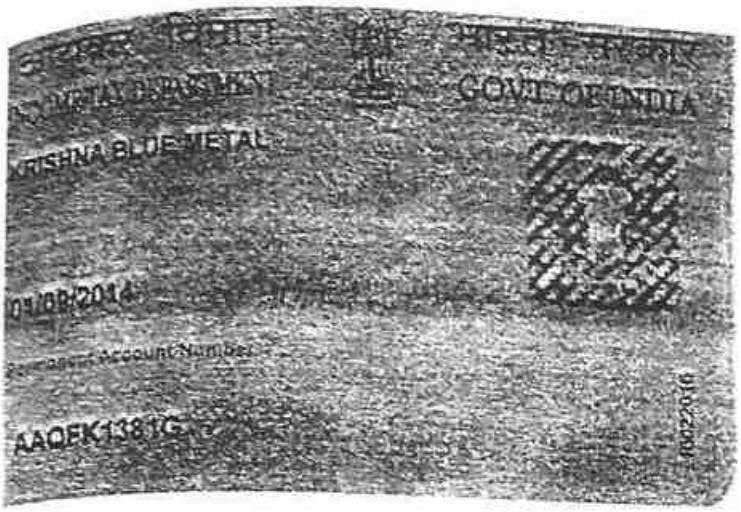
2-வது பார்ட்டியார்கள்

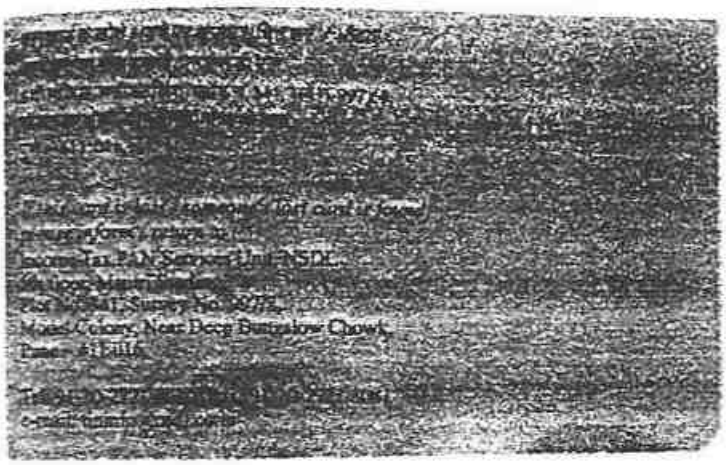
1-வது பார்ட்டியார்

K. Ravi

G. Kuppusamy

M. Nirkulathan





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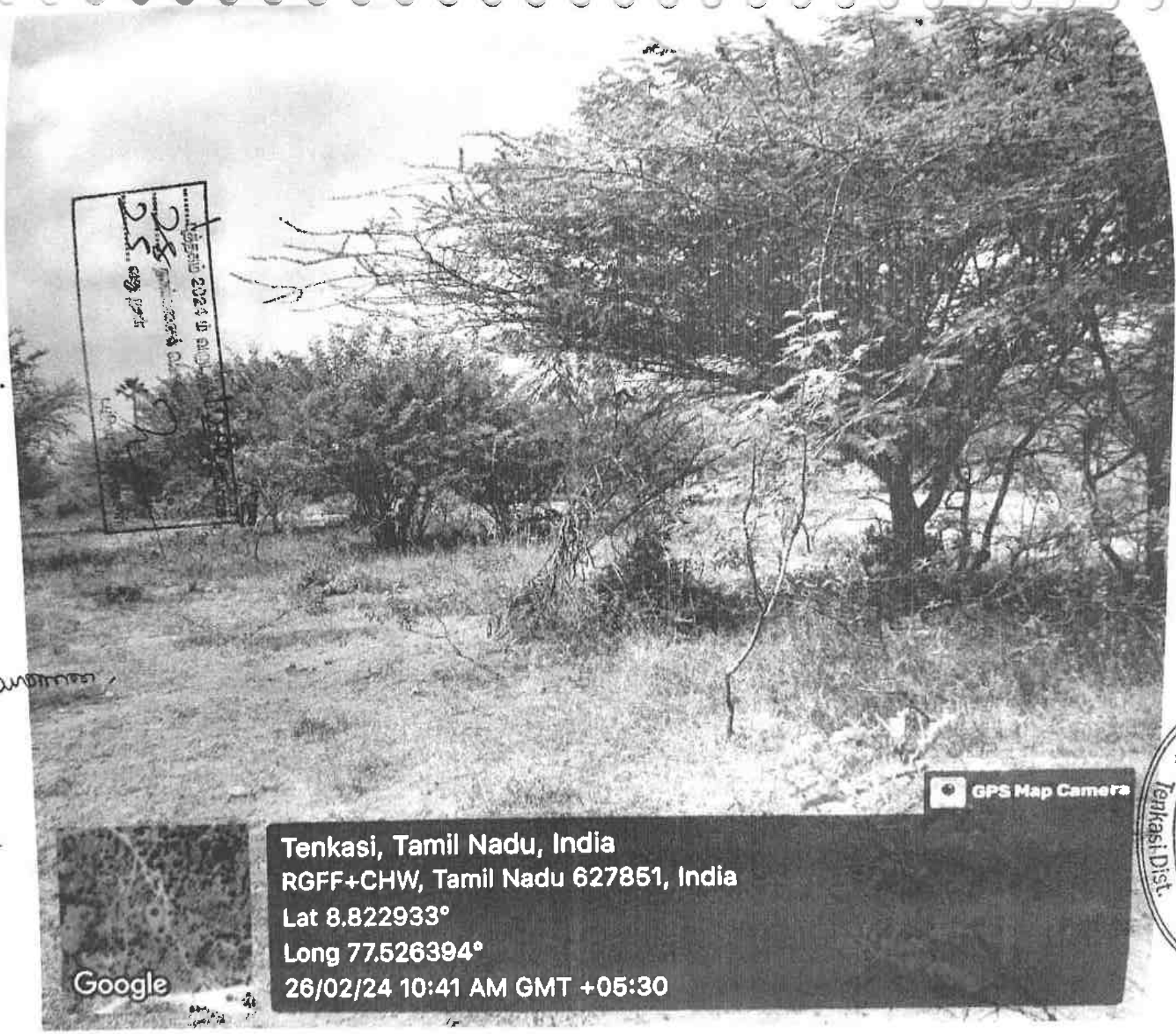
Tenkasi Dist.

1278



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R/ஆலங்குளம்/புத்தகம்-1/1278/2024

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1899ம் ஆண்டு இந்திய முத்திரைச் சட்டம் 42வது பிரிவின் கீழான சான்று

...ம் ஆண்டு வரிசை எண் 667

...சிவலார்குளம், ஆலங்குளம், தென்காசி, தமிழ்நாடு, இந்தியா 627851(6) வசிக்கும் திரு பிரசாத்ராஜ் ...னவரிடமிருந்து ₹ 3000/- (ரூபாய் முந்நூறு மட்டும்) இந்த ஆவணத்திற்காக இந்திய முத்திரைச் சட்டம் 41வது ...தியின் படி குறைவாயிருந்த முத்திரைக் கட்டணம் வசூலிக்கப்பட்டது என நான் இதன் மூலம் சான்றளிக்கிறேன்

சார்பதிவாளர் ஆலங்குளம்

நாள் 26/02/2024

சார்பதிவாளர் மற்றும் இந்திய முத்திரைச் சட்டம் பிரிவு ...ன் படி ஆட்சியர்.

2024 ஆம ஆண்டு பிப்ரவரி மாதம் 26ம் தேதி பி.ப 04:42 மணியளவில் ஆலங்குளம் சார்பதிவாளர் அலுவலகத்தில் ...தாக்கல் செய்து கட்டணம் ₹ 3,310/- செலுத்தியவர்

இடது பெருவிரல்

கூடுதல் விவரங்கள் ஆவண வாசகத்தில் உள்ளபடி

எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர்
இடது பெருவிரல்

"சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது ஒப்பீட்டு எண் UKC:9052078a715435863b461aa08c82aef64743f3

(Details from UIDAI : Niraikulathan Muthiah S/O Muthiah, 1978, xxxxxxxx2471)

எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர்
இடது பெருவிரல்

"சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் ஆணையத்துடன் சரிபார்க்கப்பட்டது ஒப்பீட்டு எண்

(Details from UIDAI : Karuppasamy Gurusamy, 27-06-1974,

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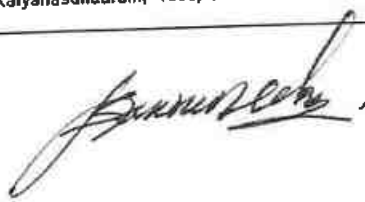
	xxxxxxxx9465)	
எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர் இடது பெருவிரல்	K. Raju "சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண் : UKC:37242128828015eb694b5db67a656802968e7e (Details from UIDAI : Raju C/O: S Krishnan, 1976, xxxxxxxx4543)	
எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர் இடது பெருவிரல்	"சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண் : UKC:948921b97eda71959349ddb9676dd7d8a4a7fb (Details from UIDAI : Jaisundar Kalyanasundaram S/O: Kalyanasundaram, 1963, xxxxxxxx0179)	
எழுதிக் கொடுத்ததாக ஒப்புக் கொண்டவர் இடது பெருவிரல்	 "சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண் : UKC:235309b7d7c87497104dccb7c91ccc13aecf30 (Details from UIDAI : Panneerselvan S/O: Subbiramanian, 1958, xxxxxxxx9697)	
எழுதி வாங்கியதாக ஒப்புக் கொண்டவர் இடது பெருவிரல்	"சம்மதத்துடன் கூடிய ஆதார் அங்கீகாரம்" என்ற வழி இந்த நபரின் அடையாளம் விரல் ரேகை மூலம் ஆதார் ஆணையத்துடன் சரிபார்க்கப்பட்டது. ஒப்பீட்டு எண் UKC:394218b56d69ab20b21b12a11d7c0a0c3886b (Details from UIDAI : Prasadhu S/O: Kalyana Sundaram, 1961, xxxxxxxx0350)	

R/ஆலங்குளம்/புத்தகம்-1/1278/2024

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2024 ஆம் ஆண்டு பிப்ரவரி மாதம் 26ம் நாள்

பரமார்த்தலிங்கம் சு
சார்பதிவாளர்
ஆலங்குளம்

R/ஆலங்குளம்/புத்தகம்-1/1278/2024 எண்ணாகப் பதிவு செய்யப்பட்டது.

நாள்: 26/02/2024
ஆலங்குளம்

பரமார்த்தலிங்கம் சு
சார்பதிவாளர்
ஆலங்குளம்

புத்தகம் 2024 ம் வருடத்தில் 2 வரை
தாக்கல் செய்தது
வழு தாள்

பதிவு அலுவலர்

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भारतीय गैर न्यायिक

भारत INDIA

रु. 500 FIVE HUNDRED RUPEES

पाँच सौ रुपये Rs. 500

सत्यमेव जयते

INDIA NON JUDICIAL

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AU 677503

K.SURESH
Stamp Vendor,
ALANGULAM.
L.No. 10/93

01.01.2025

குத்தகை ஆவணம்

2025ம் ஆண்டு ஜனவரி மாதம் 2ஆம் மார்கழி மாதம் 18ம் தேதி ஆலங்குளம் தாலுகா, மருதம்புத்தூர் கிராமம், முக்கூடல் ஆலங்குளம் மெயின் ரோடு கதவு எண் 34/6A நம்பர் விலாசத்தில் இயங்கிவரும் **'M/S KRISHNA BLUE METAL'** (Pan card no AAQFK1381G) நிறுவனத்திற்காக

குத்தகை பெறுபவர்

குத்தகை கொடுப்பவர்கள்

1

பதிவு 2ம் ஆவணம்

26 ..... எண்ணல் கொண்டது

1 ..... வது தாள்

பதிவு அலுவலர்

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भारतीय गैर न्यायिक

भारत INDIA

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AU 677504

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Stamp Vendor,
ALANGULAM.
L.No. 10/93

-2-

நிறுவனத்தின் பங்குதாரர்களும், திருநெல்வேலி மாவட்டம், சேரன்மகாதேவி தாலுகா, சேரன்மகாதேவி, செட்டிக்குடி தெரு 3/83 நம்பர் விலாசத்திலிருக்கும் சுப்பிரமணியன் அவர்கள் குமாரருமான பன்னீர்செல்வன் (அதார் அட்டை எண் 9022 9604 9897) .1

K. Ravi

குத்தகை கொடுப்பவர்கள்

62 ம் ஆவணம்
26 நூல்களை கொண்டது
2 வது தாள்
பதிவு அலுவலர்

குத்தகை பெறுபவர்

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தமிழ்நாடு தமிழ்நாடு TAMILNADU

AU 677505

K.SURESH
Stamp Vendor,
ALANGULAM.
L.No. 10/93

-3-

ஆலங்குளம் தாலுகா, சிவலார்குளம் கிராமம், கஸ்பா பிள்ளையார்கோவில் தெரு விலாசத்திலிருந்து தற்சமயம் ஆலங்குளம் தாலுகா, ஆலங்குளம் கிராமம் கஸ்பா கீழமராஜ் நகர், முன்னாள் ராணுவ வீரர்கள் தெரு கதவு எண் 11/63 நம்பர் விலாசத்திலிருக்கும் கல்யாணசுந்தரம் அவர்கள் குமாரருமான ஜெய்சுந்தர் (ஆதார் அட்டை எண் 3626 8084 0179) .2

1 ..... முத்திரை 62-ம் ஆவணம்
2.6 ..... நகலை கொண்டது
3 ..... வது தாள்
பதிவு அலுவலர்

K. Ravi
G. Kumarasey
M. Nallamuthu.

குத்தகை கொடுப்பவர்கள்

குத்தகை பெறுபவர்

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திருநெல்வேலி தாலுகா சங்கர்நகர் நாரணம்மாள்புரம் ஊரில் செல்வி அம்மன் கோவில் தெரு கதவு எண் 177C நம்பர் விலாசத்திலிருக்கும் கிருஷ்ணன் அவர்கள் குமாரருமான ராஜ• (ஆதார் அட்டை எண் 6092 8753 4543) .3 தென்காசி மாவட்டம், தென்காசி, குத்துக்கல்வலசை, கே.ஆர்.காலனி 11வது தெரு, கதவு எண் 5/262-8 விலாசத்திலிருக்கும் குருசாமி அவர்கள் குமார்ருமான கருப்பசாமி (ஆதார் அட்டை எண் 7159 7983 9465) .4 ஆலங்குளம் தாலுகா சிவலார்குளம் கிராமம் கஸ்பா அம்மன் கோவில் தெரு கதவு எண் 4/111 நம்பர் விலாசத்திலிருக்கும் முத்தையா அவர்கள் குமாரருமான நிறைகுளத்தான் (ஆதார் அட்டை எண் 6298 9516 2471) .5 ஆகிய ஐந்து பேர்களும் தங்கள் சொந்த நிலமையிலும், மேற்கண்ட **'M/S KRISHNA BLUE METAL'** நிறுவனத்தின் பங்குதாரர்கள் நிலமையிலுமாக சேர்ந்து 1வது பார்ட்டிகள் (குத்தகைக்கு கொடுப்பவர்கள்)

தென்காசி மாவட்டம், ஆலங்குளம் தாலுகா, சிவலார்குளம் கிராமம், நல்லூர் பஞ்சாயத்து, இந்திரா நகர், கதவு எண் 4/148 விலாசத்திலிருக்கும் கல்யாணசுந்தரம் அவர்கள் குமாரர் பிரசாத்ராஜ• (ஆதார் அட்டை எண் 7638 6910 0350) 2வது பார்ட்டி (குத்தகை வாங்குபவர்) ஆகிய நாம் இரு பார்ட்டிகளும் சேர்ந்து எழுதிகொண்ட கிரஷர் குத்தகை ஆவணம் என்னவென்றால்

1.

2.

3 K. Ravi

4 G. Krishnaraj

5 M. Nallathambi

62-ம் ஆவணம்
26 நாங்கலை கொண்டது
4 வது தாள்
பதிவு அலுவலர்

குத்தகை கொடுப்பவர்கள்

குத்தகை பெறுபவர்

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இதன் தபசில் கண்ட 1 முதல் 6 அயிட்ட நிலங்கள் நம்மில் 1வது பார்ட்டிகள் பெயரால் ஆலங்குளம் சப்ரி ஆபிஸ் 1.5106/2020, 1.3010/2020, 1.4118/2017, நம்பர்களாகவும் உள்ள கிரைய ஆவணங்கள் மூலமும், 1 வது பார்ட்டிகள் பெயரால் 1913, 1015, 911, நம்பர்களாக பட்டா பெற்றும், இதன் 7 அயிட்ட நிலம் மேற்கண்ட **'M/S KRISHNA BLUE METAL'** நிறுவனத்தின் பெயரால் ஷை ஆலங்குளம் சப்ரி ஆபிஸ் 1.2372/2023 நம்பராகவும் உள்ள கிரைய ஆவணம் மூலம் பாத்தியப்பட்டும், மேற்கண்ட நிறுவனத்தின் பெயரால் 1096 நம்பராக தனிப்பட்டா பெற்றும் நாளது தேதி வரை சர்க்கார் தீர்வைகள் செலுத்தி சர்வசுதந்திரமாக சகல உரிமைகளுடன் ஆண்டு அனுபவித்து வரும் சொத்தாகும். இதன் தபசில் கண்ட சொத்திற்கு அரசு அனுமதி பெற்ற கனிமம் சார்ந்த தொழில் செய்வதற்காக குத்தகைக்கு தேவைப்படும் பட்சத்தில் 1வது பார்ட்டிகள் ஐந்து பேர்களும் வெளியூரில் இருப்பதால் 2வது பார்ட்டி கேட்டுக்கொண்டதை ஏற்று இன்று முதல் வருடம் ஒன்றுக்கு ரூ.10,000 (பத்தாயிரம்) குத்தகை தொகையாக நிர்ணயித்து 15 (பதினைந்து) ஆண்டுகளுக்கு (02.01.2025 முதல் 02.01.2040 வரை) தங்களுக்கு குத்தகைக்கு விட 1வது பார்ட்டிகள் தங்கள் சொந்த நிலமையிலும் மேற்கண்ட நிறுவனத்தின் பங்குதாரர்கள் நிலமையிலும் சம்மதம் தெரிவிக்கிறோம் இன்று முதல் இதன் தபசில் கண்ட சொத்தின் சுவாதீனத்தை பெற்றுள்ள 2வது பார்ட்டி தொழிலுக்கு தேவையான மாற்றங்களை தபசில் கண்ட சொத்தில் தனது சொந்த பொருப்பில் செய்து கொள்ள வேண்டியது மின் இணைப்பு, வண்டி வாகனங்கள் போன்றவற்றை 2வது பார்ட்டி ஏற்பாடு செய்து கொண்டு அரசு அலுவலகங்களில் 2வது பார்ட்டி பெயரிலோ, நிறுவனத்தின் பெயரிலோ 2வது பார்ட்டி கையொப்பம் செய்து கொண்டு

1 [signature]

2 [signature]

3 K. Ram

4 G. Kumaresan

5 M. Niranjan Kumar.

குத்தகை கொடுப்பவர்கள்

62-ம் ஆவணம்
26 ஆண்டு
5 வது நாள்
பதிவு அலுவலர்

[signature]

குத்தகை பெறுபவர்

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பசில் கண்ட சொத்தில் தொழிலுக்கு தேவையான கட்டிடங்களை அரசு அனுமதியுடன் அமைத்து கொள்ள வேண்டியது. இதன் தபசில் கண்ட சொத்தில் அரசின் சட்டத்திட்டங்களுக்கு பாதமாக 2வது பார்ட்டி செய்யக்கூடாது. கனிமவளம் எடுக்கும் போது அரசின் சட்டம் மற்றும் விதிமுறைகளுக்கு உட்பட்டு மட்டுமே தபசில் கண்ட சொத்தின் நிலத்தில் இருந்து கனிம வளங்களை 2வது பார்ட்டி எடுக்க வேண்டும்.

இதன் தபசில் கண்ட சொத்தினை குத்தகை காலம் முடியும் தருணத்தில் குத்தகையை நீடித்து கொள்ள நாம் இருபார்ட்டிகளும் விரும்பாத நிலையில் மீண்டும் நாம் இருபார்ட்டிகளும் சேர்ந்து இன்றைய நிலையிலோ கட்டிடத்தோடோ சுவாதீனத்தை ஒப்படைத்து விட வேண்டியது. குத்தகை நீட்டிப்பு செய்யும் பட்சத்தில் அதற்கு தனியாக ஒரு ஆவணம் எழுதி அதனை பதிவு செய்து கொள்ள வேண்டும். இதன்படி நாம் இரு பார்ட்டிகளும் சேர்ந்து மன நிறைவுடன் எழுதிக்கொண்ட குத்தகை பத்திரம்.

தபசில் விபரம்

தென்காசி பதிவு மாவட்டம் ஆலங்குளம் சப்ரி சரகம் ஆலங்குளம் தாலுகா மருதம்புத்தூர் கிராமம் அயன் புஞ்சை

1. சர்வே 37/1E நம்பர் ஹெக்டேர் 0.20.50ம் முழுவதும் (ஷை நிலம் பழைய சர்வேபடி 37/1 நம்பரில் உள்ளது)
2. சர்வே 146/9F நம்பர் ஹெக்டேர் 0.02.0ம் முழுவதும்,
3. சர்வே 146/9G நம்பர் ஹெக்டேர் 0.02.0ம் முழுவதும் (ஷை 2, 3 அயிட்ட நிலங்கள் பழைய சர்வேபடி 146/9 நம்பர் செண்டு 72ல் உள்ளது)

1 ...ரம் வருடத்தில் 2ம் ஆவணம்
...26.....நாள்களை கொண்டது
...1.....வது தாள்
பதிவு அலுவலர்

குத்தகை கொடுப்பவர்கள்

குத்தகை பெறுபவர்

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4. சர்வே **147/5F** நம்பர் ஹெக்டேர் 0.07.50ம் முழுவதும்
5. சர்வே **145/1C** நம்பர் ஹெக்டேர் 0.01.0ம் முழுவதும்
6. சர்வே **145/1D** நம்பர் ஹெக்டேர் 0.16.50ம் முழுவதும்
7. சர்வே **145/1E** நம்பர் ஹெக்டேர் 0.04.50ம் முழுவதும்

இதற்குள்பட்டதும் ஆக மொத்தம் ஹெக்டேர் 0.54.0க்கு ஏக்கர் 1 செண்டு 34ம் பூராவும் தபசில் விபரம் சரி. தபசில் சொத்து மருதம்புத்தூர் பஞ்சாயத்து எல்கைக்குள்ளும் பாப்பாக்குடி யூனியன் ஆளுகைக்குள்ளும்பட்டது.

குத்தகை கொடுப்பவர்கள்

குத்தகை பெறுபவர்

சாட்சிகள்

1. (மரியசாம் ஜீனோ) s/o ஜெய்சுந்தர் 11/63
முன்னாள் ராணுவ வீரர்கள் தெரு, ஆலங்குளம் (ஆதார் அட்டை எண 5277 6919 2900)

2. (வள்ளிநாயகம்) s/o குருசாமிகரையாளர் 1/81
பிள்ளையார் கோவில் தெரு, சிவலார்குளம் (ஆதார் அட்டை எண் 9329 2549 5958)

இந்த பத்திரம் தயாரித்தவர்

1 புரட்டாசி 2025ம் வருடத்திய 22ம் ஆவணம்
26 நகலை கொண்டது
7 வது தாள்
பரிவு அலுவலர்

M.குமார் த/பெ மயிலேறும்பெருமாள் பிள்ளை, சிவலார்குளம்
உரிமம் எண் C.21/TKS/84 Cell no 9585998889

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சொத்தானது நீர்நிலை பகுதியில் அமையப்பெறவில்லை என்பதற்கான சான்று/ உறுதிமொழி (Declaration) (நீதிபேராணை எண் 22163/2018ல், வழங்கப்பட்ட தீர்ப்புரை)

இந்த ஆவணத்தில் கண்ட சொத்தானது நீர்நிலைகள், நீர்வழிப்பாதைகள், நீர்பிடிப்பு பகுதிகளில் கட்டுப்படவில்லை என சான்றளிக்கிறோம். மேலும் இதனில் தங்களுக்கு தவறான தகவல் அல்லது சான்று அளிக்கப்பட்டதாக பின்னாளில் கண்டுபிடிக்கப்பட்டால் அதனால் நான்/நாங்கள் சட்ட பூர்வநடவடிக்கைகளுக்கு உட்படுத்தப்படுவோம் என்பதையும் அறிவேன்/அறிவோம்.

ஆவணத்தை எழுதிக்கொடுப்பவர்களின் கையொப்பம்

ஆவணத்தை எழுதிப்பெறுவர்களின் கையொப்பம்

எழுதப்பட்டது 2 ம் ஆவணம்
26 நாள்களை கொண்டது
8 வது நாள்
பதிவு அலுவலர்

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

வட்டம் : தென்காசி

வட்டம் : ஆலங்குளம்

அருவாய் கிராமம் : மருதம்புத்தூர்-1

பட்டா எண் : 1913

		உரிமையாளர்கள் பெயர்	
1.	கற்பகவல்லியம்	மகன்	பன்னிசெல்வம்
2.	கல்யாணசுந்தரம்	மகன்	வெட்டுத்தி
3.	திருவேணன்	மகன்	முரு
4.	தருமாயி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	இசக்கிமுத்தான்

புல எண்	உட்பிரிவு	புன்செய்		நன்செய்		மற்றவை		குறிப்புரை
		பரப்பு	தீர்வை	பரப்பு	தீர்வை	பரப்பு	தீர்வை	
		ஹெக்-ஏ	ரூ-பை	ஹெக்-ஏ	ரூ-பை	ஹெக்-ஏ	ரூ-பை	
36	3B	0-16.00	0.20	--	--	--	--	2018.0123/24/114234-- ------ Digitally signed: Rama Mohan Tahsildar 06/01/2020 11:40:44 AM
36	4C	0-27.00	0.33	--	--	--	--	2020/0103/34/249528-- ------ Digitally signed:Nanappan A Zonal Deputy Tahsildar 04/12/2020 04:38:11 PM
37	1C	0-10.00	0.12	--	--	--	--	2020/0103/34/249528-- ------ Digitally signed:Nanappan A Zonal Deputy Tahsildar 04/12/2020 04:38:11 PM
37	1E ✓	0-20.50	0.25	--	--	--	--	2020/0103/34/249528-- ------ Digitally signed:Nanappan A Zonal Deputy Tahsildar 04/12/2020 04:38:11 PM
		0-73.50	0.90					

குறிப்பு :

1. மேற்கண்ட நகவல் / சான்றிதம் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 34/11/271/01913/20144 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 01-01-2025 அன்று 04:47:21 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. ஸ்மார்ட்போன் கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

.....26.....நிலவரை வொண்டது.

.....7.....வது நாள்

பதிவு அலுவலர்

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தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

வட்டம் : தென்காசி

வட்டம் : ஆலங்குளம்

வருவாய் கிராமம் : மருதம்புத்தூர்-2

பட்டா எண் : 1096

உரிமையாளர்கள் பெயர்

1. - மற்றவை எம்/எஸ் இருஷ்ணா புளுமெட்டல்ஸ்

புல எண்	உட்பிரிவு	புன்செய்		நன்செய்		மற்றவை		குறிப்புரைகள்
		பரப்பு	நீர்வை	பரப்பு	நீர்வை	பரப்பு	நீர்வை	
		ஹெக் - ஏர்	ரு - பை	ஹெக் - ஏர்	ரு - பை	ஹெக் - ஏர்	ரு - பை	
145	1A	0 - 8.00	0.07	--	--	--	--	2023/0103/34/349957--- -- ---- Digitally signed:Karunakaran C Zonal Deputy Tahsildar 08/05/2023 04:57:00:PM
145	1B	0 - 5.00	0.06	--	--	--	--	2023/0103/34/349957--- -- நிலவயல்வண்டிப்பாதை-- - Digitally signed:Karunakaran C Zonal Deputy Tahsildar 08/05/2023 04:57:00:PM
145	1C	0 - 1.00	0.06	--	--	--	--	2023/0103/34/349957--- -- ---- Digitally signed:Karunakaran C Zonal Deputy Tahsildar 08/05/2023 04:57:00:PM
145	1D	0 - 16.50	0.14	--	--	--	--	2023/0103/34/349957--- -- ---- Digitally signed:Karunakaran C Zonal Deputy Tahsildar 08/05/2023 04:57:00:PM
145	1E	0 - 4.50	0.06	--	--	--	--	2023/0103/34/349957--- -- ---- Digitally signed:Karunakaran C Zonal Deputy Tahsildar 08/05/2023 04:57:00:PM
145	1F	0 - 29.50	0.25	--	--	--	--	2023/0103/34/349957--- -- ---- Digitally signed:Karunakaran C Zonal Deputy Tahsildar 08/05/2023 04:57:00:PM
145	1G	0 - 42.00	0.36	--	--	--	--	2023/0103/34/349957--- -- ---- Digitally signed:Karunakaran C Zonal Deputy Tahsildar 08/05/2023 04:57:00:PM
147	4A	0 - 0.50	0.06	--	--	--	--	2023/0103/34/349957--- -- ---- Digitally signed:Karunakaran C Zonal Deputy Tahsildar 08/05/2023 04:57:00:PM
147	4B	0 - 0.50	0.06	--	--	--	--	2023/0103/34/349957--- -- நிலவயல்வண்டிப்பாதை-- - Digitally signed:Karunakaran C

...ம் ஆகாம்
...என்ன கொண்டது
...வருவாய்
பதிவு செய்வார்

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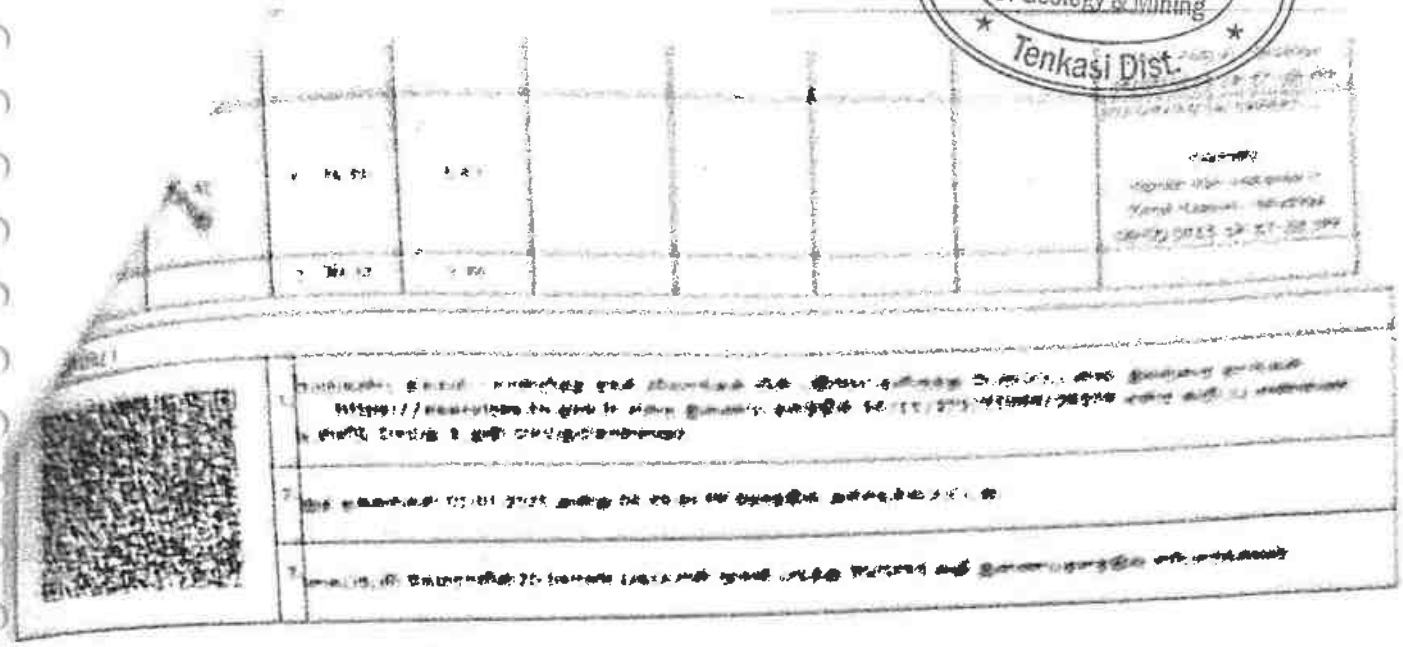

K. Ravi

G. Kumaresan

M. Mineral Beneficiation.

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தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

வட்டம் : தென்காசி

வட்டம் : ஆலங்குளம்

வருவாய் கிராமம் : மருதம்புத்தூர்-2

பட்டா எண் : 1015

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாணசுந்தரம்	மகன்	ஜெய்சுந்தர்
3.	கிருஷ்ணன்	மகன்	ராஜா
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

புல எண்	உட்பிரிவு	புன்செய்		நன்செய்		மற்றவை		குறிப்புரைகள்
		பரப்பு	நீர்வை	பரப்பு	நீர்வை	பரப்பு	நீர்வை	
		ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	
146	10	0 - 46.00	0.29	--	--	--	--	2020/0103/34/240114--- -- ---- Digitally signed:Mariappan A Zonal Deputy Tahsildar 22/09/2020 05:05:28:PM
146	11B	0 - 6.00	0.06	--	--	--	--	2020/0103/34/240114--- -- ---- Digitally signed:Mariappan A Zonal Deputy Tahsildar 22/09/2020 05:05:28:PM
146	11C	0 - 14.50	0.12	--	--	--	--	2020/0103/34/240114--- -- ---- Digitally signed:Mariappan A Zonal Deputy Tahsildar 22/09/2020 05:05:28:PM
146	4B	0 - 27.50	0.26	--	--	--	--	2020/0103/34/240114--- -- ---- Digitally signed:Mariappan A Zonal Deputy Tahsildar 22/09/2020 05:05:28:PM
146	5A	0 - 54.50	0.44	--	--	--	--	2020/0103/34/240114--- -- ---- Digitally signed:Mariappan A Zonal Deputy Tahsildar 22/09/2020 05:05:28:PM
146	6	0 - 30.50	0.31	--	--	--	--	2020/0103/34/240114--- -- ---- Digitally signed:Mariappan A Zonal Deputy Tahsildar 22/09/2020 05:05:28:PM
146	9B	0 - 3.50	0.06	--	--	--	--	2020/0103/34/240114--- -- ---- Digitally signed:Mariappan A Zonal Deputy Tahsildar 22/09/2020 05:05:28:PM
146	9C	0 - 7.00	0.12	--	--	--	--	2020/0103/34/240114--- -- ---- Digitally signed:Mariappan A Zonal Deputy Tahsildar 22/09/2020 05:05:28:PM
146	9F	0 - 2.00	0.06	--	--	--	--	2020/0103/34/240114--- -- ----

நகலை கொண்டு

பதிவு செய்வதற்

MINING PLAN APPROVED
By
Deputy Director
of Geology & Mining

								Digitally signed:Mariappan A Zonal Deputy Tahsildar 22/09/2020 05:05:28:PM
	9G	0 - 2.00	0.06	--	--	--	--	2020/0103/34/240114--- -- --- Digitally signed:Mariappan A Zonal Deputy Tahsildar 22/09/2020 05:05:28:PM
147	8A	0 - 1.00	0.06	--	--	--	--	2020/0103/34/240114--- -- நிலவியல்வண்டிப்பாதை-- - Digitally signed:Mariappan A Zonal Deputy Tahsildar 22/09/2020 05:05:28:PM
147	8B	0 - 40.00	0.31	--	--	--	--	2020/0103/34/240114--- -- --- Digitally signed:Mariappan A Zonal Deputy Tahsildar 22/09/2020 05:05:28:PM
		2 - 40.50	2.15					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள். https://eservices.tn.gov.in என்ற இணைய தளத்தில் 34/11/272/01015/20267 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 01-01-2025 அன்று 04:50:14 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின் 2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

K. Ravi

G. Kumarasamy

M. Ninai Mohamed.

1 ... 62 ஆவணம்
26 ... ஆண்டு
13 ... வது தவ்
பதிவு அலுவலர்

MINING PLAN APPROVED
By
Deputy Director
of Geology & Mining
Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம் : தென்காசி

வட்டம் : ஆலங்குளம்

கிராமம் : மருதம்புத்தூர்-2

பட்டா என் : 911

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்	
2.	கல்யாணசுந்தரம்	மகன்	ஜெயசுந்தர்	
3.	இருஷ்ணன்	மற்றவை	ர்ரு	
4.	குருசாமி	மகன்	கருப்பசாமி	
5.	முத்தையா	மகன்	நிறைகுளத்தான்	

புல எண்	உட்பிரிவு	புன்செய்		நன்செய்		மற்றவை		குறிப்புரைகள்
		பரப்பு	தீர்வை	பரப்பு	நீர்வை	பரப்பு	நீர்வை	
		ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	
147	5D	0 - 1.00	0.06	--	--	--	--	2017/0103/29/082234- -- ------ Digitally signed:Patta Muthu Tahsildar 08/01/2020 12:38:01:PM
147	5F	0 - 7.50	0.06	--	--	--	--	2017/0103/29/082234- -- ------ Digitally signed:Patta Muthu Tahsildar 08/01/2020 12:38:01:PM
147	5H	0 - 24.50	0.19	--	--	--	--	2017/0103/29/082234- -- ------ Digitally signed:Patta Muthu Tahsildar 08/01/2020 12:38:01:PM
		0 - 33.00	0.31					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 34/11/272/00911/100221 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 01-01-2025 அன்று 04:51:50 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

62-ம் ஆவணம்
26 ஆம் பக்கம்
14 வது நான்
பதிவு அலுவலர்

K. Rani

M. Niranjanam

ANNEXURE VIII

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

आधार

Government of India

Unique Identification Authority of India

பதிவேட்டு எண்/ Enrolment No.: 2193/12530/00700

To
பிரசாத்ராஜூ
Prasadraju
S/O: Kalyana Sundaram
4/148
INDRA NAGAR
NALLUR
Nallur
Tirunelveli Tamil Nadu - 627853
9443555063

Signature valid

உங்கள் ஆதார் எண் / Your Aadhaar No. :

7638 6910 0350

VID : 9158 3499 6936 9281

எனது ஆதார், எனது அடையாளம்

Government of India

பிரசாத்ராஜூ
Prasadraju
பிறந்த நாள்/DOB: 29/08/1961
ஆண்/ MALE

Issue Date: 28/11/2013

7638 6910 0350

VID : 9158 3499 6936 9281

AADHAAR

தகவல்

- ஆதார் அடையாளத்திற்கான சான்று, குடியுரிமைக்கு அல்ல.
- பாதுகாப்பான QR குறியீடு/ ஆப்லைன் XML / ஆன்லைன் அங்கீகாரத்தைப் பயன்படுத்தி அடையாளத்தை சரிபார்க்கவும்
- இது எலக்ட்ரானிக் செயல்முறை மூலம் தயாரிக்கப்பட்ட கடிதமாகும்.

INFORMATION

- Aadhaar is a proof of identity, not of citizenship.
- Verify identity using Secure QR Code/ Offline XML/ Online Authentication.
- This is electronically generated letter.

- ஆதார் நாடு முழுவதிலும் செல்லுபடியாகும்.
- பல்வேறு அரசு மற்றும் அரசு சாரா சேவைகளை எளிதில் பெற ஆதார் உதவுகிறது.
- உங்கள் மொபைல் எண் மற்றும் மின்னஞ்சல் ஐடியை ஆதாரில் புதுப்பிக்கவும்
- mAadhaar செயலியைப் பயன்படுத்தி உங்கள் ஸ்மார்ட் போனில் ஆதாரை எடுத்துச் செல்லுங்கள்

- Aadhaar is valid throughout the country.
- Aadhaar helps you avail various Government and non-Government services easily.
- Keep your mobile number & email ID updated in Aadhaar.
- Carry Aadhaar in your smart phone – use mAadhaar App.

Unique Identification Authority of India

முகவரி:
S/O: கல்யாண சுந்தரம், 4/148, இந்திரா நகர், நல்லூர், நல்லூர், திருநெல்வேலி, தமிழ் நாடு - 627853

Address:
S/O: Kalyana Sundaram, 4/148, INDRA NAGAR, NALLUR, Nallur, Tirunelveli, Tamil Nadu - 627853

Download Date: 01/12/2022

7638 6910 0350

VID : 9158 3499 6936 9281

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

ANNEXURE IX

227

870899

சென்னைப் பல்கலைக் கழகம்
University of Madras

Renewed up to 2020

PLAN APPROVED
Dy Deputy Director
of Mines & Mining
Chenkasi

அறிவியல் புலம்
FACULTY OF SCIENCE

Regional Controller of Mines
INDIAN BUREAU OF MINES

சென்னைப் பல்கலைக் கழகம் பேரவை 1989 ஆம் ஆண்டு
ஏப்ரல் மாதம் கூடுகிற பயன்முறைக் கனிமவியல்
தேர்வில் நா. ரவீந்திரன் என்பவர்
முதல் வகுப்பில் தேர்ச்சி பெற்றார் என்று தக்க தேர்வாளர்கள்
சான்றளித்தபடி அறிவியல் நிறைஞர் எனும் பட்டத்தை அவருக்குப்
பல்கலைக் கழக இலச்சினையுடன் வழங்குகிறது.

The Senate of the UNIVERSITY OF MADRAS hereby makes known that N. Ravinthiran has been admitted to the Degree of Master of Science, he/~~she~~ having been certified by duly appointed Examiners to be qualified to receive the same in Applied Geology and was placed in the First Class, at the Examination held in April 1989

Given under the Seal of the University.

சேப்பாக்கம், Chepauk,
சென்னை, Madras,
நாள். Dated 19.12.1991

பதிவாளர்
Registrar.

துணை வேந்தர்
Vice-Chancellor

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

T. N. G. S. T. No. 6040126
C. S. T. No. 488148 dt. 30-5-73

Tel : "JANATHACEM"
P. B. No. 45
Phone : 30710
(4 lines)
Quarry : 84761

Janathacem Industries Limited

Mfrs : Janathacem Wall Coat

Factory & Admn :
488 / 1, Sankarankoil Road,
RAJAPALAYAM - 626 117.

30.09.2000

TO WHOMSOVER IT MAY CONCERN

This is to certify that Sri.N.RAVINTHIRAN, M.Sc., (Applied Geologist) S/O. R.NARAYANASAMY residing at 3-105, Kannithevanpatti village, Keelarajagularaman (Post) Rajapalayam (Taluk) Virudhunagar Dist. Pin code 626136, was employed as a Geologist from 01.09.1993 to 30.09.2000 at Our THENMALAI LIMESTONE MINES Of M/S. JANATHACEM INDUSTRIES LIMITED (formarly M/S.LIMENAPH CHEMICALS) RAJAPALAYAM.

He has been vested with the work involing prospecting, Collecting samples, Knowing the chemicals analysis etc. He was also Supervising various Mining operation including drilling, blasting and excavation by powershovel. He has been successfully carrying out his duties and has proven himself a quite efficient, competent, sincere and hard working official in the company.

He has got a total of seven years post graduate experience in the Mechanished mining field.

He deserves all the encouragement and I wish him all the success in his carrier.

JANATHACEM INDUSTRIES LTD QUARRY S. PUDUR

For JANATHACEM INDUSTRIES LIMITED,
(FORMARLY LIMENAPH CHEMICALS)

30.09.2000

(R.SARGUNAM)
DEPUTY GENERAL MANAGER (MINES)
THENMALAI LIMESTONE MINE

janathacem®

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

T. N. G. S. T. No. 6040126
C. S. T. No. 488148 dt. 30-5-73

"JANATHACEM"
P. B. No. 45
Phone : 30710
(4 lines)
Quarry : 84761

Janathacem Industries Limited

Mfrs : Janathacem Wall Coat

Factory & Admn :
488 / 1, Sankarankoil Road,
RAJAPALAYAM - 626 117.

30.09.2000

TO WHOMSOVER IT MAY CONCERN.

This is to certify that Sri.N.RAVINTHIRAN, M.Sc., (Applied Geology) S/O.R.Narayanasamy , joined in our Organisation as Geologist on 01.09.1993. Due to his Personnel reasons he submitted his resignation and the same was accepted with regret. He was releaved from his duties with effect from 30.09.2000.

During his tenure his conduct and character was good, and he carried out his duties to the best satisfaction of his superiors and Management.

We wish him all success in his life.

For JANATHACEM INDUSTRIES LTD,

(T.VENKATARAJAGOPALAN)
GENERAL MANAGER

janathacem®

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

GOVERNMENT OF INDIA
MINISTRY OF LABOUR & EMPLOYMENT
DIRECTORATE GENERAL OF MINES SAFETY

Certificate of practical experience granted by the Manager to a candidate for a **MANAGER'S/SURVEYOR'S/FOREMAN'S/MATE'S** Certificate of competency examination under the Metalliferous Mines Regulations 1961.

R.SARGUNAM being the Manager of **THENMALAI LIMESTONE MINES, S.PUDUR** belonging to **M/S.LIMENAPH CHEMICALS, RAJAPALAYAM** do hereby certify that Sri.**N.RAVINTHIRAN S/O.R.NARAYANASAMY** (whose signature appended) worked in the above Mine from 01.09.1993 to 09.08.96 and is still working. During his term of work aforesaid he has obtained practical experience as detailed overleaf. The duties connected with his work have involved his continuous attendance at the Mine and have been efficiently performed by him.

I believe him to be of good character and a fit and proper Person to be examined for a certificate of competency.

10.8.96

SIGNATURE & DATE
MANAGER (MINES)
Thenmalai Limestone Mines
(Owners: Limenaph Chemicals)
Senthattiapuram Pudur
THENMALAI POST-627770.

Signature of the candidate
Note: Delete if not applicable
State name of Mineral : **LIMESTONE**

Sl No.	Particulars of practical Experience	Place of Experience (B)	Period of practical Experience (C) From -- To	Total Experience Y	M	D
1.	Drilling(Rock drills)	Machanised open cast	01.09.93 15.04.94	--	7	14
2.	Blasting (small dia)	,,	16.04.94 20.11.94	--	7	14
3.	Wagon drilling	,,	21.11.94 10.08.95	--	8	19
4.	Blasting(long&large dia holes)	,,	11.08.95 08.03.96	-	6	26
5.	Supervision (All mining activities)	,,	09.03.96 09.08.96	--	5	---
			(Still working) Grand total			

Two years eleven months and Thirteen days only. 02. 11. 13

d. Average monthly output during the above period : 5000 Tons

e. Average daily employment of Men&Machinery in H.P. during the period is given below:

In below ground working	In opencast working	In all
--- Nil --	Men 126+17	143
	Machinery 1559 H.P.	

Signature of the candidate

10.8.96

Signature of Manager with date
MANAGER (MINES)
Thenmalai Limestone Mines
(Owners: Limenaph Chemicals)
Senthattiapuram Pudur
THENMALAI POST-627770.

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

GOVERNMENT OF INDIA
MINISTRY OF LABOUR & EMPLOYMENT
DIRECTORATE GENERAL OF MINES SAFETY

Certificate of practical experience granted by the Manager to a candidate for a **MANAGER'S/SURVEYOR'S/FOREMAN'S/MATE'S** Certificate of competency examination under the Metalliferous Mines Regulations 1961.

R.SARGUNAM being the Manager of **THENMALAI LIMESTONE MINES, S.PUDUR** belonging to **M/S.LIMENAPH CHEMICALS, RAJAPALAYAM** do hereby certify that Sri.**N.RAVINTHIRAN S/O.R.NARAYANASAMY** (whose signature appended) worked in the above Mine from 01.09.1993 to 09.08.96 and is still working. During his term of Work aforesaid he has obtained practical experience as detailed overleaf. The Duties connected with his work have involved his continuous attendance at the Mine and have been efficiently performed by him.

I believe him to be of good character and a fit and proper Person to be examined for a certificate of competency.

30.09.2000

SIGNATURE & OFFICIAL DESIGNATION
MANAGER (MINES)
Thenmalai Limestone Mines
(Owners: Limenaph Chemicals)
Senthattiapuram Pudur
THENMALAI POST-627770.

N. Ravinthiran.
Signature of the candidate

Note: Delete if not applicable

State name of Mineral : **LIMESTONE**

Sl No.	Particulars of practical Experience	Place of Experience (B)	Period of practical Experience (C) From -- To	Total Experience Y	M	D
1.	Mining mate	Semi-Mechanised open cast working	10.08.96 15.06.99	2	10	5
2.	Mining Foreman	,,	16.06.99 30.09.2000	1	3	14
	Four years One month Nineteen days only	Grand total		04.	01.	19

d. Average monthly output during the above period : 4000 Tons

e. Average daily employment of Men&Machinery in H.P. during the period is given below:

In below ground working	In opencast working	In all
--- Nil --	Men 102+13	115
	Machinery 1559 H.P.	

N. Ravinthiran.
Signature of the candidate

30.09.2000

Signature of Manager (Mines) date
MANAGER (MINES)
Thenmalai Limestone Mines
(Owners: Limenaph Chemicals)
Senthattiapuram Pudur
THENMALAI POST-627770.

MINING PLAN APPROVED
By
Deputy Director
of Geology & Mining
Tenkasi
Renewed up to 21-12-2010

REGIONAL CONTROLLER OF MINES.
INDIAN BUREAU OF MINES
CHENNAI

CERTIFICATE OF RECOGNITION AS QUALIFIED PERSON TO PREPARE MINING PLANS

(Under Rule 22C of Mineral Concession Rules, 1960)

Shri N.RAVINTHIRAN *resident*

of 3/105,Kannithevanpatti,Keelarajakularaman(PO),Virudhunagar dt. *son*

of R.NARAYANASAMY, *having given satisfactory evidence of his qualifications and experience is hereby granted recognition under Rule 22C of the Mineral Concession Rules, 1960 as a Qualified Person to prepare Mining Plans.*

His registration number is RQP/MAS/130/98/A

This recognition is valid for a period of two years ending 21.12.2000

M.K.A.
Regional Controller of Mines
Indian Bureau of Mines
Chennai
22.12.98

Place : CHENNAI
Date : 21.12.98

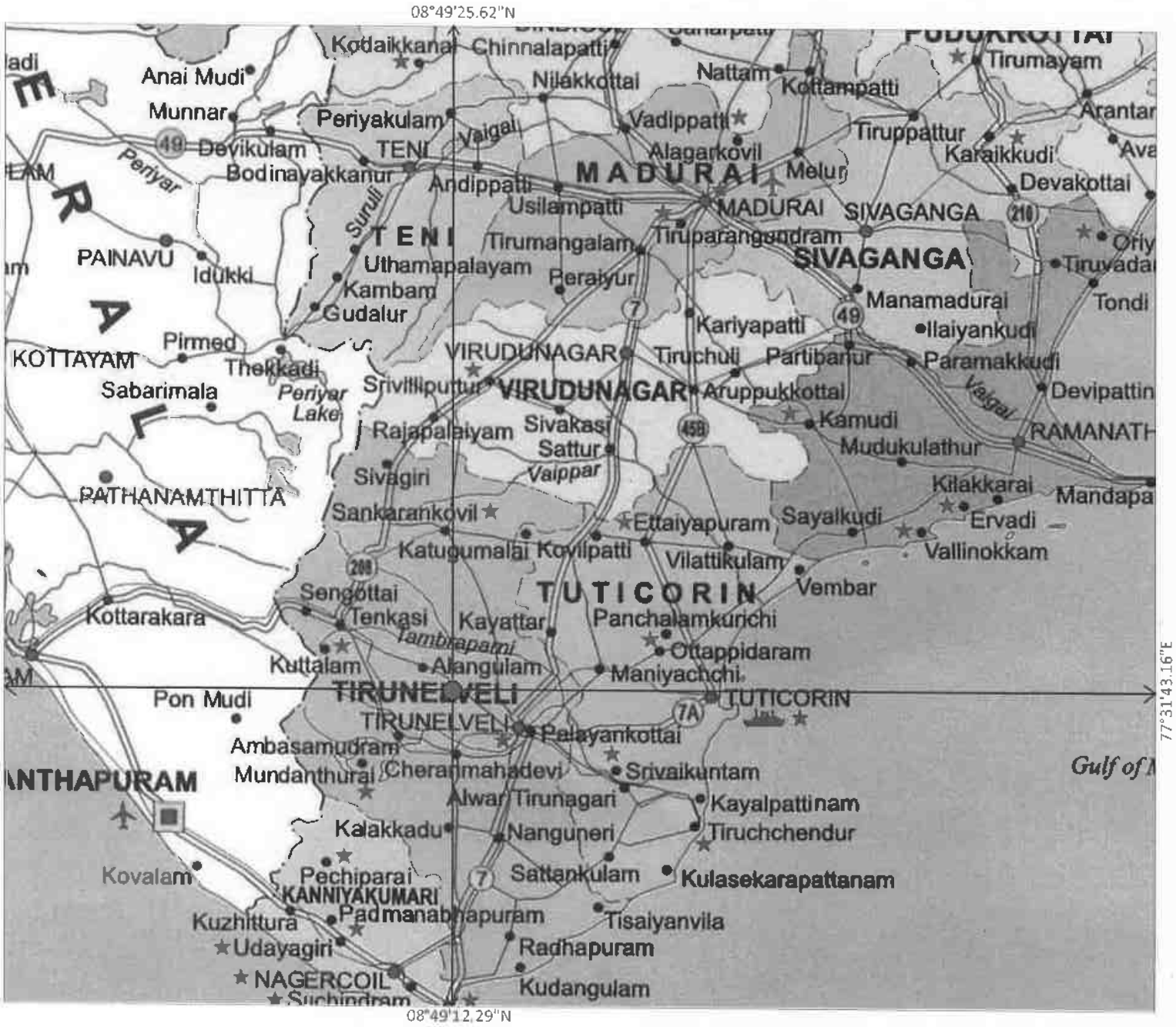


PLATE NO: I

DATE OF SURVEY : 19.06.2025

APPLICANT:

THIRU.K.PRASADRAJU
S/O.KALYANASUNDARAM,
NO.4/68, INDRA NAGAR,
NALLUR,ALANGULAM TALUK,
TENKASI DISTRICT-627 855.

QUARRY LEASE APPLIED AREA:

S.F.NO's: MARUTHAMPUTHUR PART-1,36/1,
:36/2B,36/4B2,36/4C,37/1B2,37/1E
:MARUTHAMPUTHUR PART-2,145/1C,
:145/1D,145/1E,146/[illegible],147/1,147/2A,147/2B,147/3A,147/3B
:147/4C,147/5F,147/5G,147/8B,147/9C,
:&148/1

EXTENT : 5.99.05Ha,

VILLAGE :MARUTHAMPUTHUR PART-1&
:MARUTHAMPUTHUR PART-2

TALUK :ALANGULAM,

DISTRICT : TENKASI.

INDEX

Q. L. A. AREA :

TOPO SHEET NO : 58 H / 09

LATITUDE :08°49'12.29"N to 08°49'25.62"N

LONGITUDE :77°31'31.17"E to 77°31'43.16"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

N.RAVINTHIRAN,M.Sc.,(App.Geo).,
QUALIFIED PERSON

MINING PLAN APPROVED BY Deputy Director Geology & Mining Tenkasi Dist.

PLATE NO: 1B

DATE OF SURVEY :19.06.2025

8°49'58.52"N

Towards Maruthamputhur
Towards Maruthamputhur
Towards Maruthamputhur
77°30'57.80"E
77°32'18.51"E
Towards Valankurichi
Towards Valankurichi
Towards Valankurichi

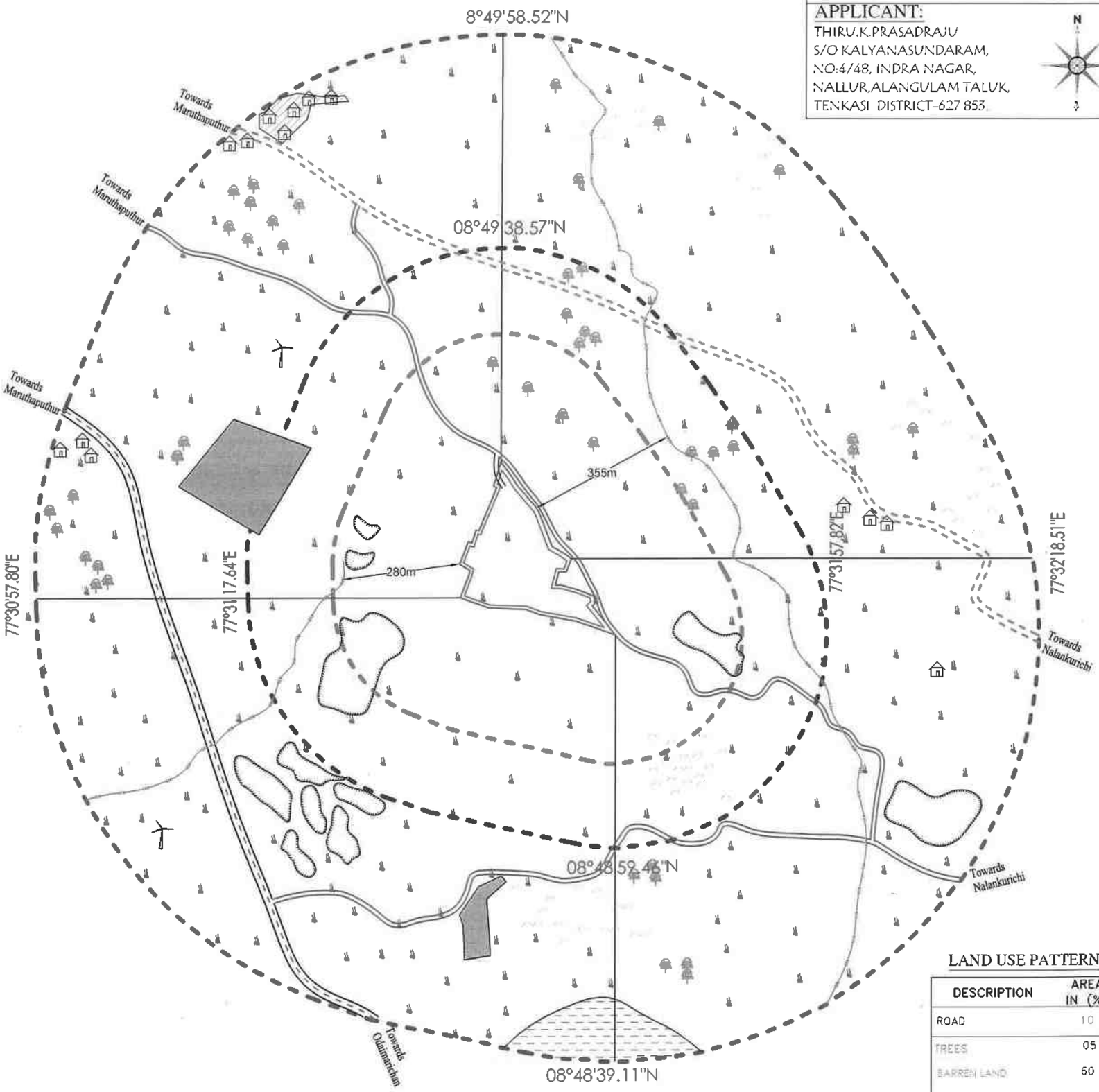


PLATE NO: 1A
DATE OF SURVEY :19.06.2025

APPLICANT:
THIRU.K.PRASADRAJU
S/O KALYANASUNDARAM,
NO:4/48, INDRA NAGAR,
NALLUR,ALANGULAM TALUK,
TENKASI DISTRICT-627 853.

N

QUARRY LEASE APPLIED AREA:
S.F.NO's: MARUTHAMPUTHUR PART-1 :36/1,36/2B,36/4B2,36/4C,37/1B2,37/1E
:MARUTHAMPUTHUR PART-2 :145/1C,
:145/1D,145/1E,146/9E,146/9F,146/9G
:147/1,147/2A,147/2B,147/3A,147/3B
:147/4C,147/5F,147/5H,147/8B,147/9C
:&148/1
EXTENT : 5.99.05Ha,
VILLAGE :MARUTHAMPUTHUR PART-1&
:MARUTHAMPUTHUR PART-2
TALUK :ALANGULAM,
DISTRICT : TENKASI.

PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

INDEX

TOPO SHEET NO : 58 H / 09
LATITUDE :08°49'12.29"N to 08°49'25.62"N
LONGITUDE :77°31'31.17"E to 77°31'43.16"E

QUARRY LEASE APPLIED AREA	
7.5m &10m SAFETY DISTANCE	
300M RADIUS	
500M RADIUS	
1KM RADIUS	
APPROACH ROAD	
PANCHAYAT ROAD	
CART TRACK	
STATE HIGHWAY	
BARREN LAND	
TREES	
SEASONAL AGRICULTURAL LAND	
QUARRY PIT	
TANK	
ODAI	
HABITATION	
CRUSHER PLANT	

LAND USE PATTERN

DESCRIPTION	AREA IN (%)
ROAD	10
TREES	05
BARREN LAND	60
WATER BODIES	10
AGRICULTURAL LAND	05
HILLOCK	10

ENVIRONMENTAL PLAN
SCALE 1 : 10,000

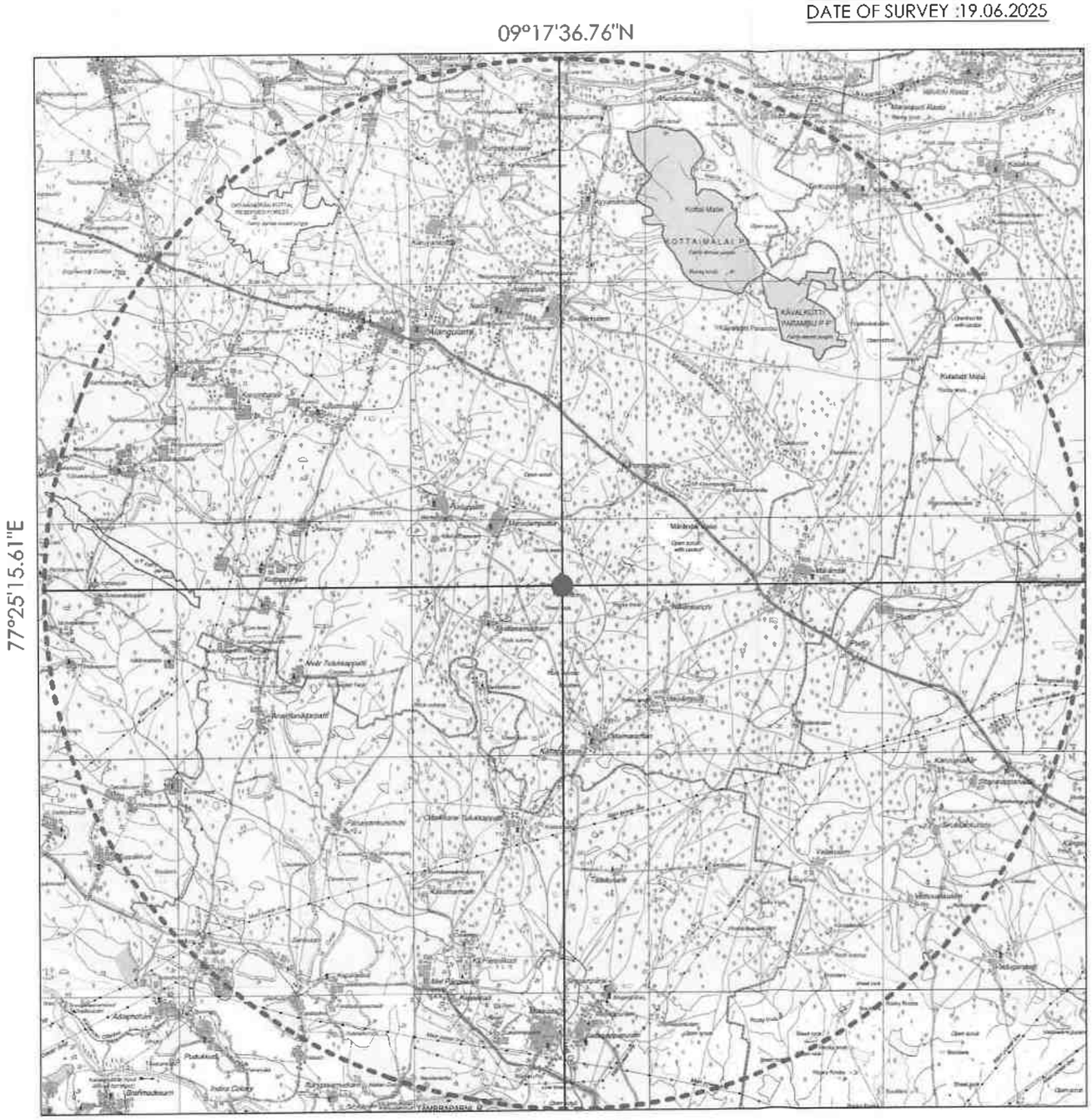
PREPARED BY:

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

N.RAVINTHIRAN,M.Sc.,(App.Geo)
QUALIFIED PERSON

PLATE NO: 1C

DATE OF SURVEY :19.06.2025


09°17'36.76"N
77°25'15.61"E
77°25'15.61"E
09°17'36.76"N
N
Mangalam
KOTTAIMALAI P.F.
KAVALKOTTAI MATHAMBU P.F.
Kottai Malai
Kalvetti Malai
Malaikal Malai
Open scrub with castor
Kallimandram
Kallimandram Kottai
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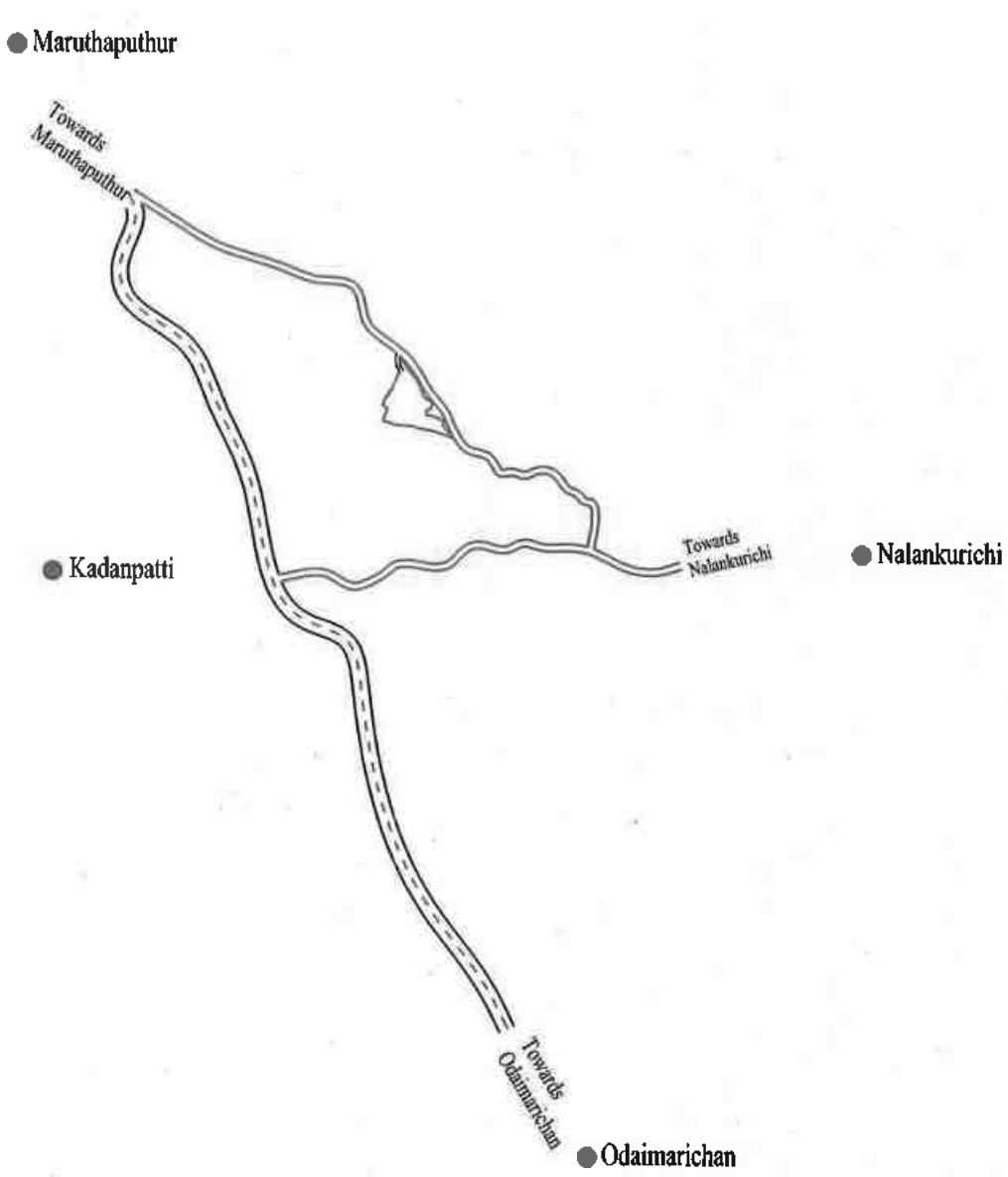
Kallimandram Kollai

KEY PLAN

PLATE NO:I D
DATE OF SURVEY :19.06.2025



APPLICANT:
THIRU.K.PRASADRAJU
S/O KALYANASUNDARAM,
NO:4/48, INDRA NAGAR,
NALLUR,ALANGULAM TALUK,
TENKASI DISTRICT-627 853.

QUARRY LEASE APPLIED AREA:
S.F.NO's: MARUTHAMPUTHUR PART-1,36/1,
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:147/1,147/2A,147/2B,147/3A,147/3B
:147/4C,147/5F,147/5H,147/8B,147/9C
:&148/1
EXTENT : 5.99.05Ha,
VILLAGE :MARUTHAMPUTHUR PART-1&
:MARUTHAMPUTHUR PART-2
TALUK :ALANGULAM,
DISTRICT : TENKASI.

INDEX

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

KEY PLAN
Not To Scale

PREPARED BY:

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

N.RAVINTHIRAN,M.Sc.,(App.Geo)
QUALIFIED PERSON

MINING PLAN APPROVED
Deputy Director
Geology & Mining
Tenkasi Dist.

MINING PLAN APPROVED
By
Deputy Director
of Geology & Mining
Tenkasi Dist.

N

BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
1	08° 49' 15.23"N	77° 31' 31.23"E
2	08° 49' 17.02"N	77° 31' 31.90"E
3	08° 49' 17.33"N	77° 31' 31.97"E
4	08° 49' 17.82"N	77° 31' 31.17"E
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10	08° 49' 20.42"N	77° 31' 32.57"E
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16	08° 49' 23.70"N	77° 31' 35.73"E
17	08° 49' 22.06"N	77° 31' 37.15"E
18	08° 49' 22.01"N	77° 31' 37.19"E
19	08° 49' 21.32"N	77° 31' 37.48"E
20	08° 49' 19.11"N	77° 31' 38.29"E
21	08° 49' 18.60"N	77° 31' 39.16"E
22	08° 49' 18.16"N	77° 31' 39.78"E
23	08° 49' 17.15"N	77° 31' 39.40"E
24	08° 49' 17.16"N	77° 31' 38.81"E
25	08° 49' 16.13"N	77° 31' 38.54"E
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30	08° 49' 14.52"N	77° 31' 41.38"E
31	08° 49' 12.29"N	77° 31' 43.16"E
32	08° 49' 13.37"N	77° 31' 40.10"E
33	08° 49' 13.90"N	77° 31' 37.33"E
34	08° 49' 14.30"N	77° 31' 36.28"E
35	08° 49' 14.44"N	77° 31' 33.44"E
WGS 84 DATUM		

PLATE NO-II

DATE OF SURVEY : 19.06.2025

APPLICANT:

THIRU.K.PRASADRAJU
S/O KALYANASUNDARAM,
NO:47/48, INDRA NAGAR,
NALLUR,ALANGULAM TALUK,
TENKASI DISTRICT-627 853.

QUARRY LEASE APPLIED AREA:

S.F.NO's: MARUTHAMPUTHUR PART-1,36/1,
:36/2B,36/4B2,36/4C,37/1B2,37/1E
:MARUTHAMPUTHUR PART-2,145/1C,
:145/1D,145/1E,146/9E,146/9F,146/9G
:147/1,147/2A,147/2B,147/3A,147/3B
:147/4C,147/5F,147/5H,147/8B,147/9C
:&148/1
EXTENT : 5.99.05Ha,
VILLAGE :MARUTHAMPUTHUR PART-1&
:MARUTHAMPUTHUR PART-2
TALUK :ALANGULAM,
DISTRICT : TENKASI.

INDEX

- Q.L.APPLIED BOUNDARY
- 7.5m & 10m SAFETY DISTANCE
- TEMPORARY BENCH MARK
- 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

N.RAVINTHIRAN,M.Sc.,(App.Geo)
QUALIFIED PERSON

MINING PLAN APPROVED
By
Deputy Director
of Geology & Mining
Tenkasi Dist.

N

BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
1	08° 49' 15.23"N	77° 31' 31.23"E
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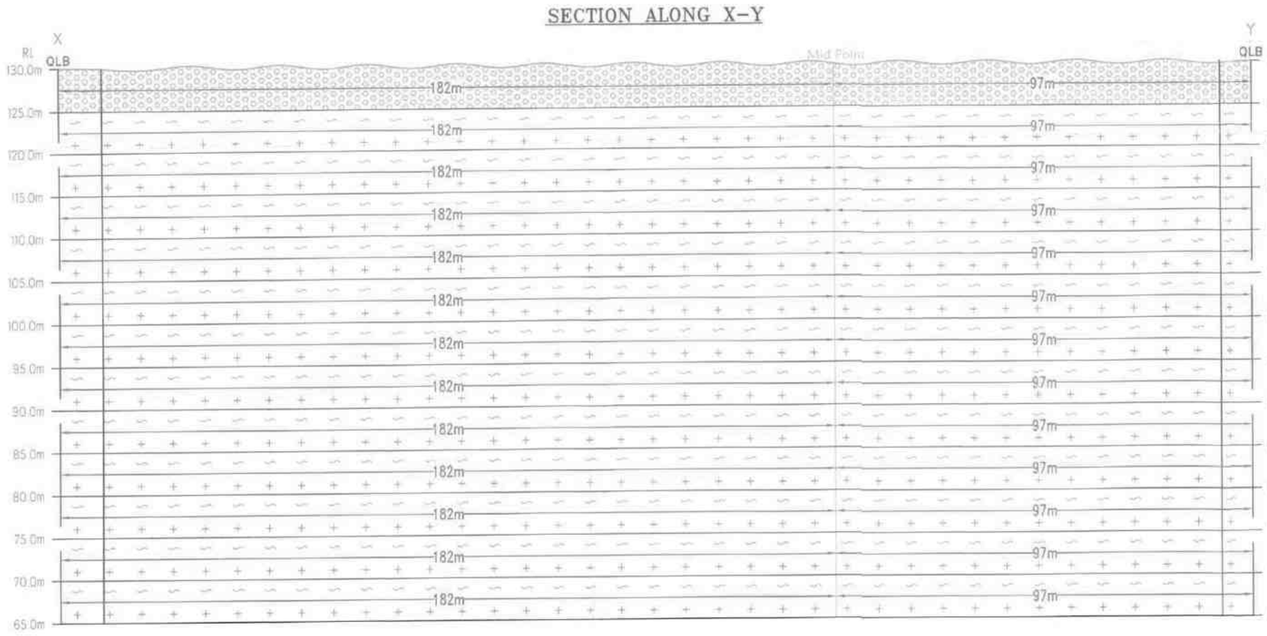
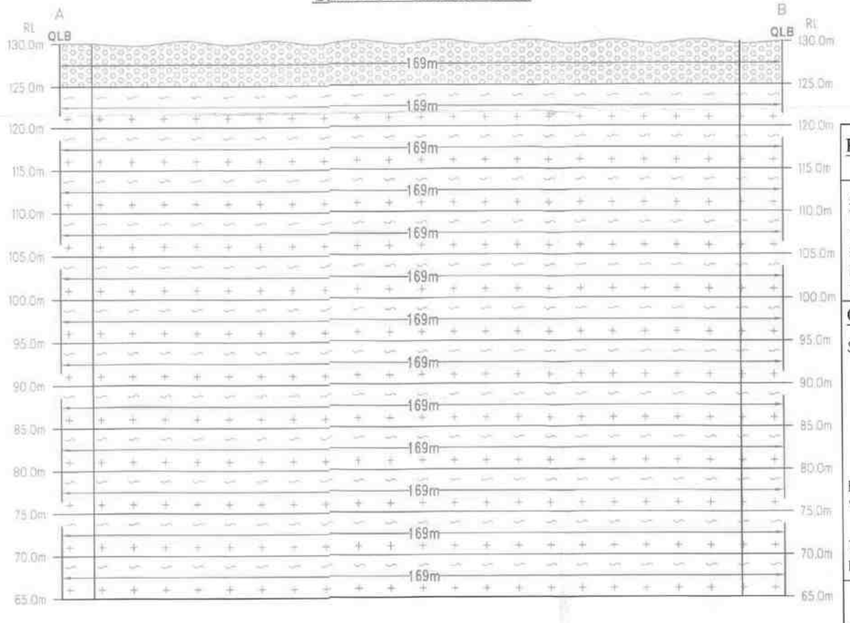
34	08° 49' 14.30"N	77° 31' 36.28"E
35	08° 49' 14.44"N	77° 31' 33.44"E
WGS 84 DATUM		

SECTION ALONG X-Y



SECTION ALONG A-B



SECTION ALONG C-D

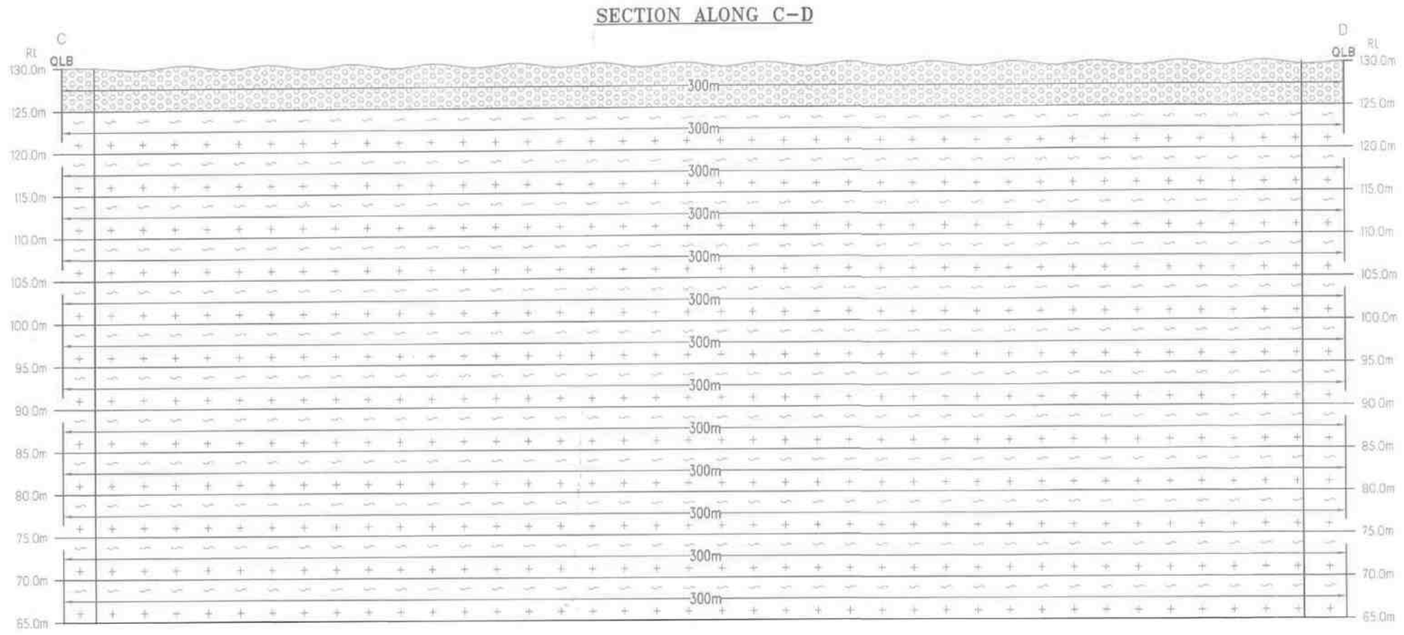


PLATE NO-III

DATE OF SURVEY : 19.06.2025

APPLICANT:

THIRU.K.PRASADRAJU
S/O KALYANASUNDARAM,
NO.4/48, INDRA NAGAR,
NALLUR,ALANGULAM TALUK,
TENKASI DISTRICT-627 853.

QUARRY LEASE APPLIED AREA:

S.F.NO's: MARUTHAMPUTHUR PART-1,36/1, ,
:36/2B,36/4B2,36/4C,37/1B2,37/1E
:MARUTHAMPUTHUR PART-2,145/1C,
:145/1D,145/1E,146/9E,146/9F,146/9G
:147/1,147/2A,147/2B,147/3A,147/3B
:147/4C,147/5F,147/5H,147/8B,147/9C
:&148/1
EXTENT : 5.99.05Ha,
VILLAGE :MARUTHAMPUTHUR PART-1&
:MARUTHAMPUTHUR PART-2
TALUK :ALANGULAM,
DISTRICT : TENKASI.

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

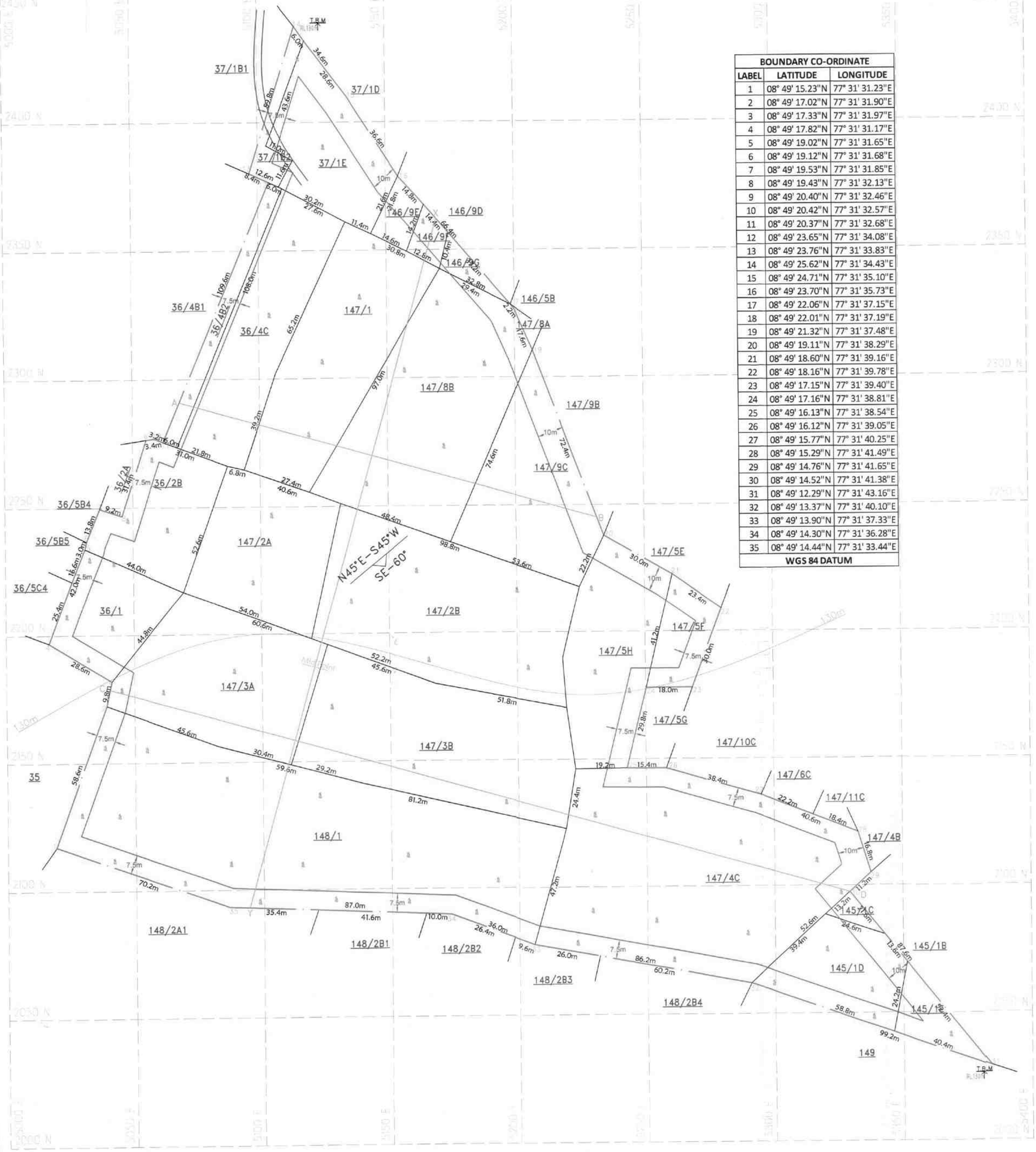
TOPOGRAPHY,GEOLOGICAL , PLAN & SECTION

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

N.RAVINTHIRAN,M.Sc.,(App.Geo)
QUALIFIED PERSON



BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
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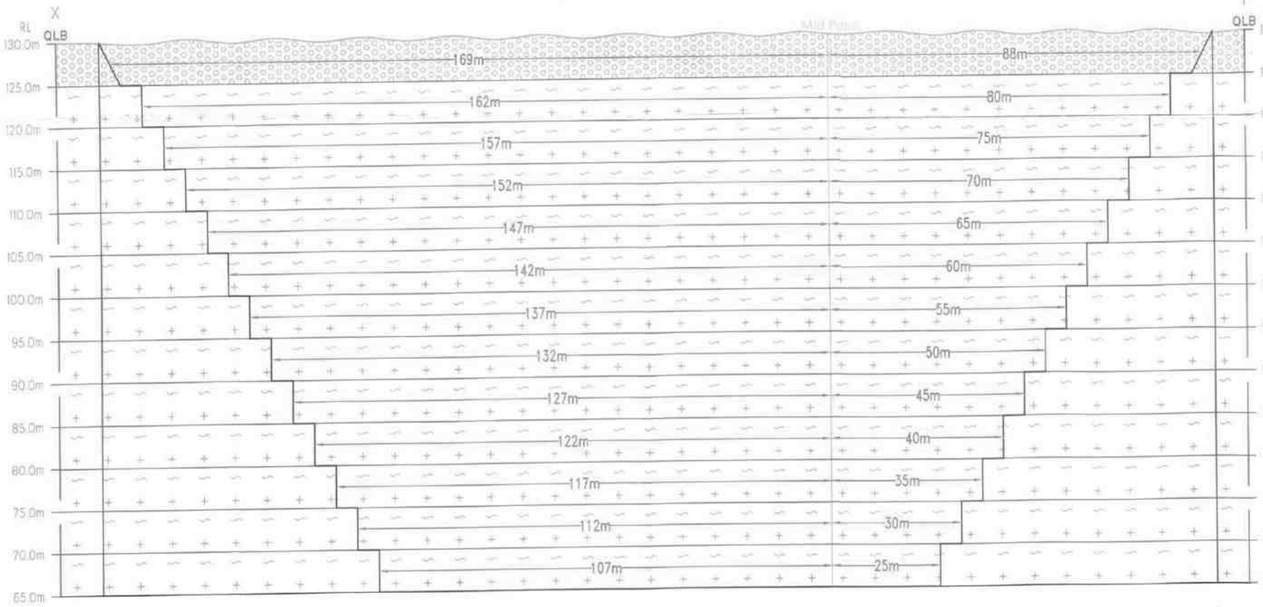
35	08° 49' 14.44"N	77° 31' 33.44"E
WGS 84 DATUM		

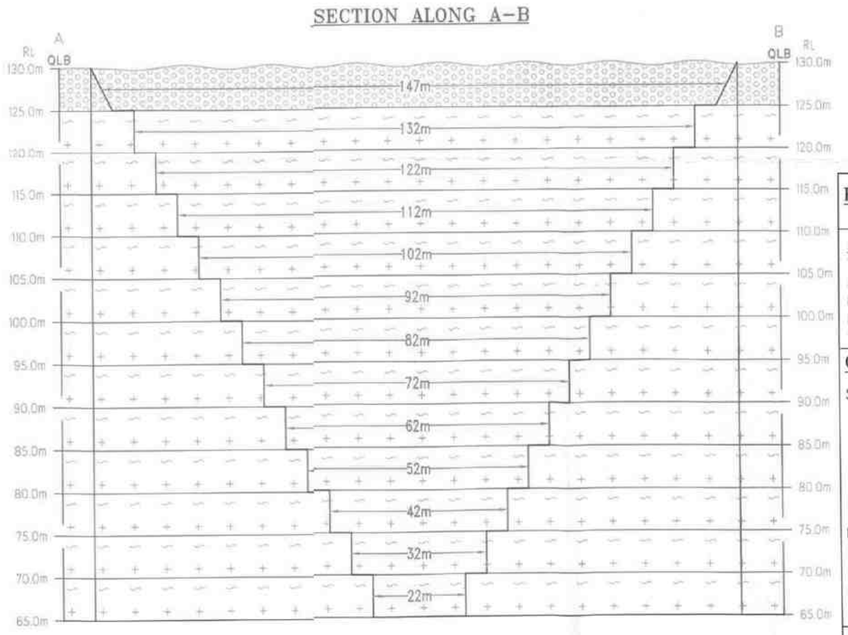
N

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

SECTION ALONG X-Y



SECTION ALONG A-B



SECTION ALONG C-D

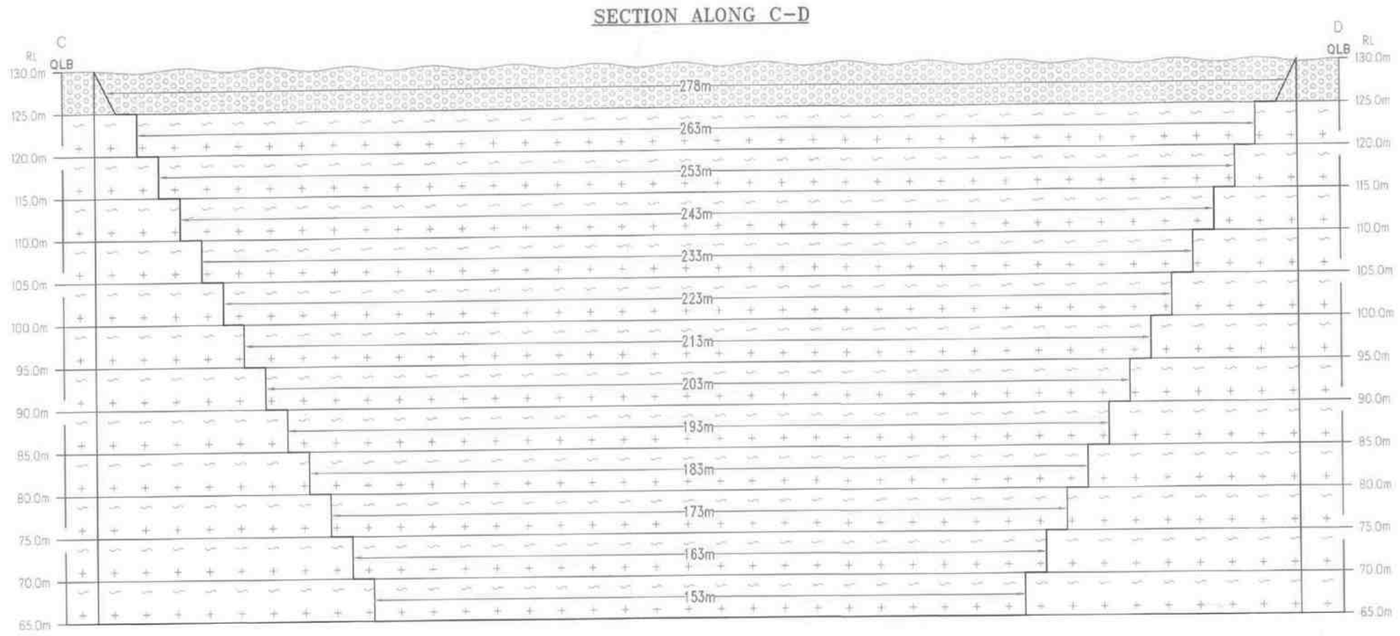


PLATE NO-IV

DATE OF SURVEY :19.06.2025

APPLICANT:

THIRU.K.PRASADRAJU
S/O KALYANASUNDARAM,
NO:4/48, INDRA NAGAR,
NALLUR,ALANGULAM TALUK,
TENKASI DISTRICT-627 853.

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:147/4C,147/5F,147/5H,147/8B,147/9C
:&148/1
EXTENT : 5.99.05Ha,
VILLAGE :MARUTHAMPUTHUR PART-1&
:MARUTHAMPUTHUR PART-2
TALUK :ALANGULAM,
DISTRICT : TENKASI.

INDEX

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

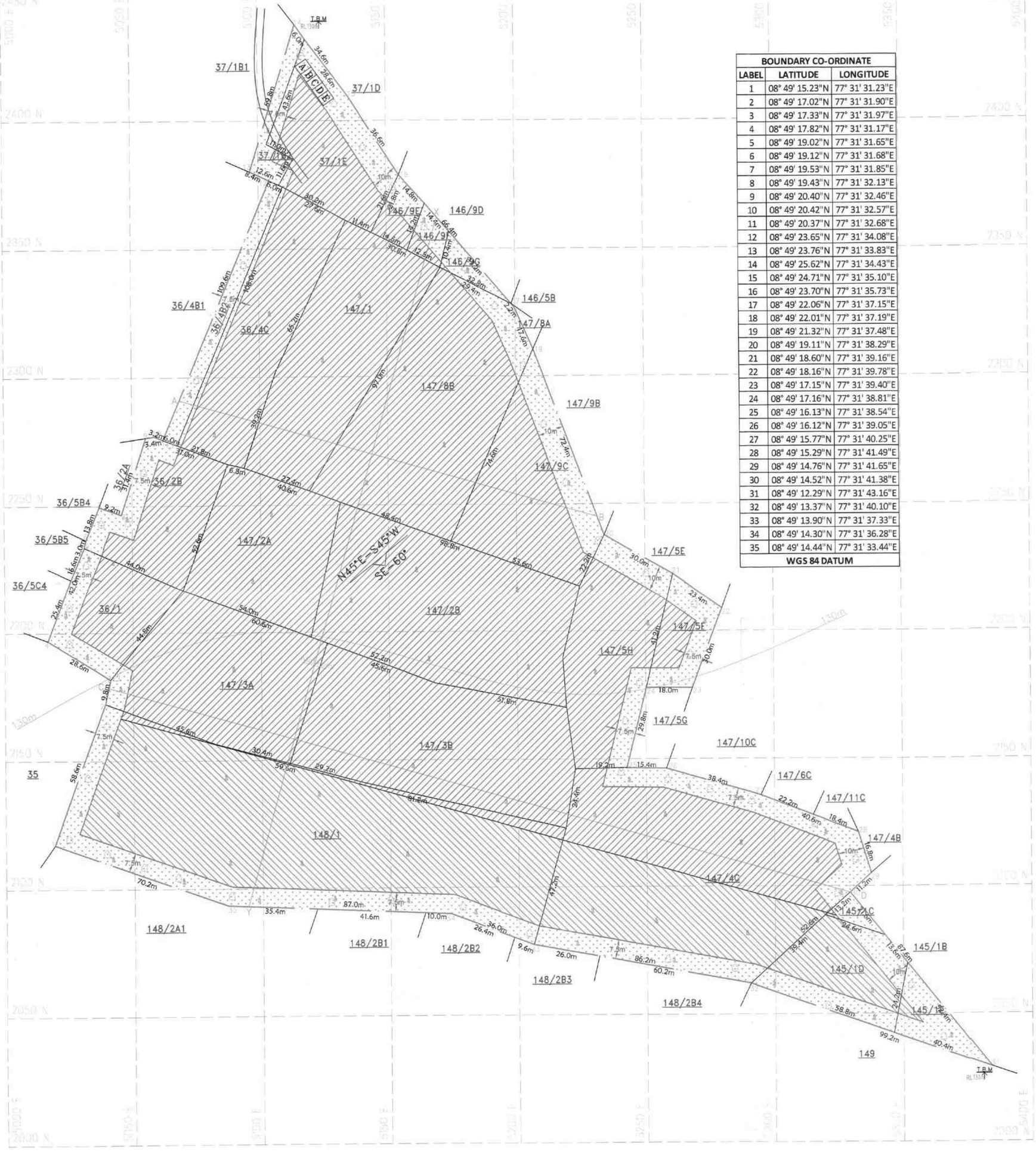
MINEABLE PLAN & SECTION

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

N.RAVINTHIRAN,M.Sc.,(App.Geo)
QUALIFIED PERSON



BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
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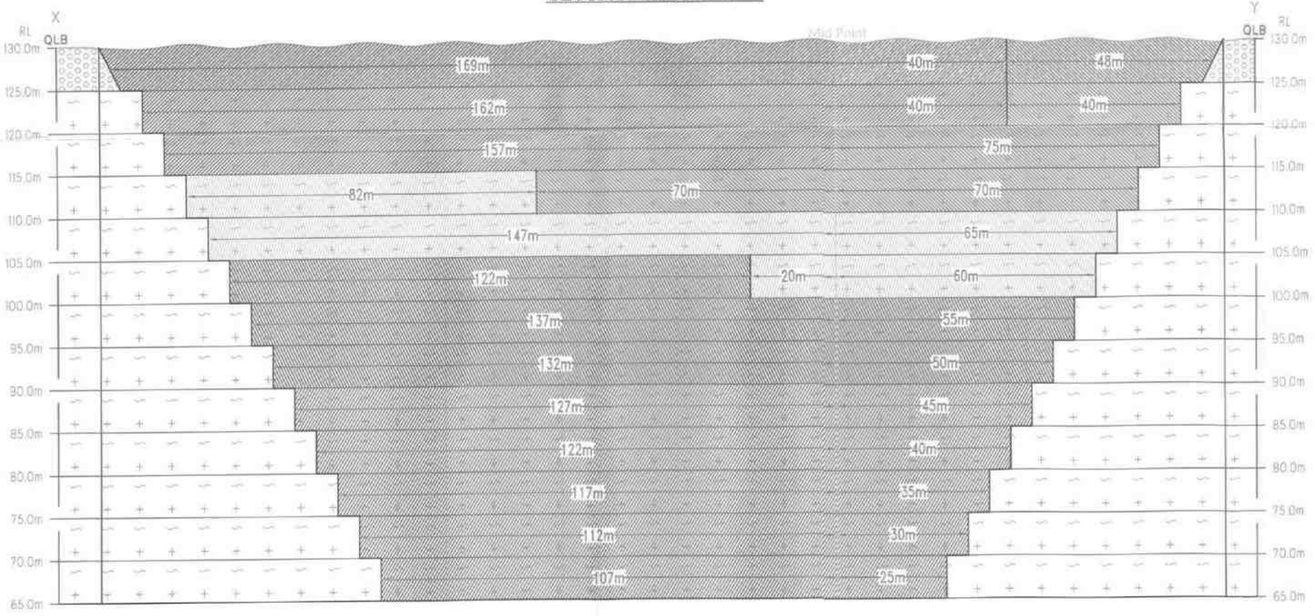
15	08° 49' 24.71"N	77° 31' 35.10"E
16	08° 49' 23.70"N	77° 31' 35.73"E
17	08° 49' 22.06"N	77° 31' 37.15"E
18	08° 49' 22.01"N	77° 31' 37.19"E
19	08° 49' 21.32"N	77° 31' 37.48"E
20	08° 49' 19.11"N	77° 31' 38.29"E
21	08° 49' 18.60"N	77° 31' 39.16"E
22	08° 49' 18.16"N	77° 31' 39.78"E
23	08° 49' 17.15"N	77° 31' 39.40"E
24	08° 49' 17.16"N	77° 31' 38.81"E
25	08° 49' 16.13"N	77° 31' 38.54"E
26	08° 49' 16.12"N	77° 31' 39.05"E
27	08° 49' 15.77"N	77° 31' 40.25"E
28	08° 49' 15.29"N	77° 31' 41.49"E
29	08° 49' 14.76"N	77° 31' 41.65"E
30	08° 49' 14.52"N	77° 31' 41.38"E
31	08° 49' 12.29"N	77° 31' 43.16"E
32	08° 49' 13.37"N	77° 31' 40.10"E
33	08° 49' 13.90"N	77° 31' 37.33"E
34	08° 49' 14.30"N	77° 31' 36.28"E
35	08° 49' 14.44"N	77° 31' 33.44"E
WGS 84 DATUM		

MINING PLAN APPROVED
By
Deputy Director
of Geology & Mining
Tenkasi Dist.

N

SECTION ALONG X-Y



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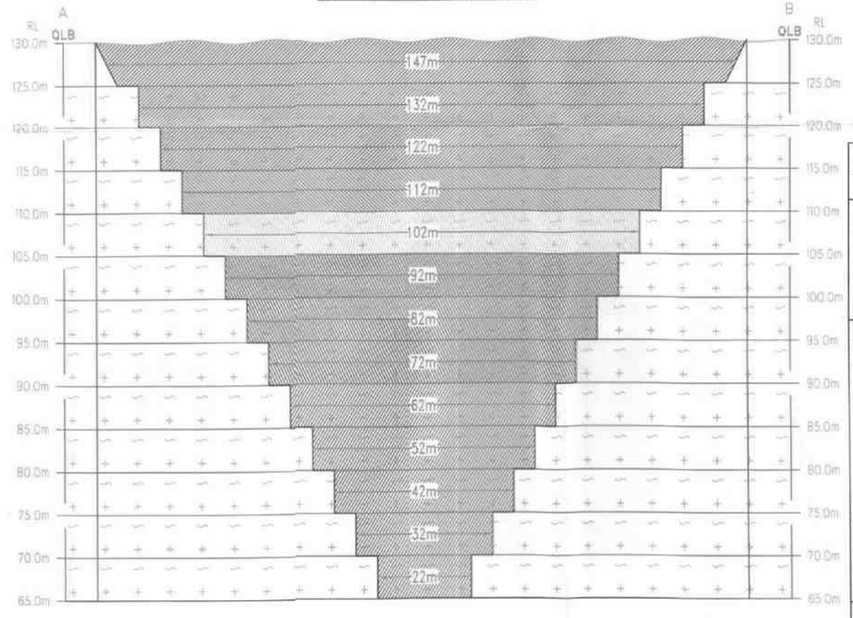
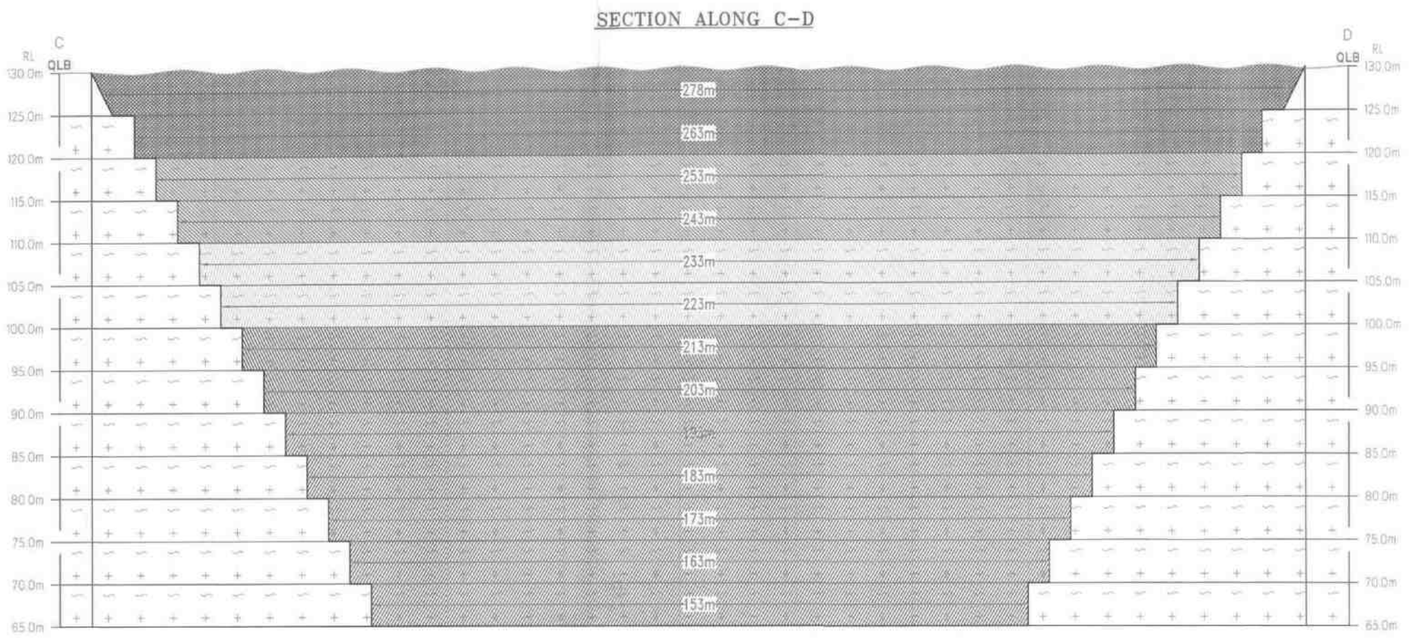


SECTION ALONG C-D



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

PRESENT & POST LAND USE PATTERN

DESCRIPTION	PRESENT AREA (Ha)	AREA AT THE END OF THIS QUARRYING PERIOD (Ha)
AREA UNDER QUARRYING	Nil	5.03.20
INFRASTRUCTURE	Nil	0.01.00
ROADS	Nil	0.02.00
GREEN BELT	Nil	0.92.85
UN-UTILIZED AREA	5.99.05	Nil
GRAND TOTAL	5.99.05	5.99.05

PLATE NO-V

DATE OF SURVEY : 19.06.2025

APPLICANT:

THIRU.K.PRASADRAJU
S/O KALYANASUNDARAM,
NO:4/48, INDRA NAGAR,
NALLUR,ALANGULAM TALUK,
TENKASI DISTRICT-627 853.

QUARRY LEASE APPLIED AREA:

S.F.NO's: MARUTHAMPUTHUR PART-1,36/1,
:36/2B,36/4B2,36/4C,37/1B2,37/1E
:MARUTHAMPUTHUR PART-2,145/1C,
:145/1D,145/1E,146/9E,146/9F,146/9G
:147/1,147/2A,147/2B,147/3A,147/3B
:147/4C,147/5F,147/5H,147/8B,147/9C
:&148/1
EXTENT : 5.99.05Ha,
VILLAGE :MARUTHAMPUTHUR PART-1&
:MARUTHAMPUTHUR PART-2
TALUK :ALANGULAM,
DISTRICT : TENKASI.

INDEX

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

YEARWISE DEVELOPMENT & PRODUCTION PLAN & SECTION

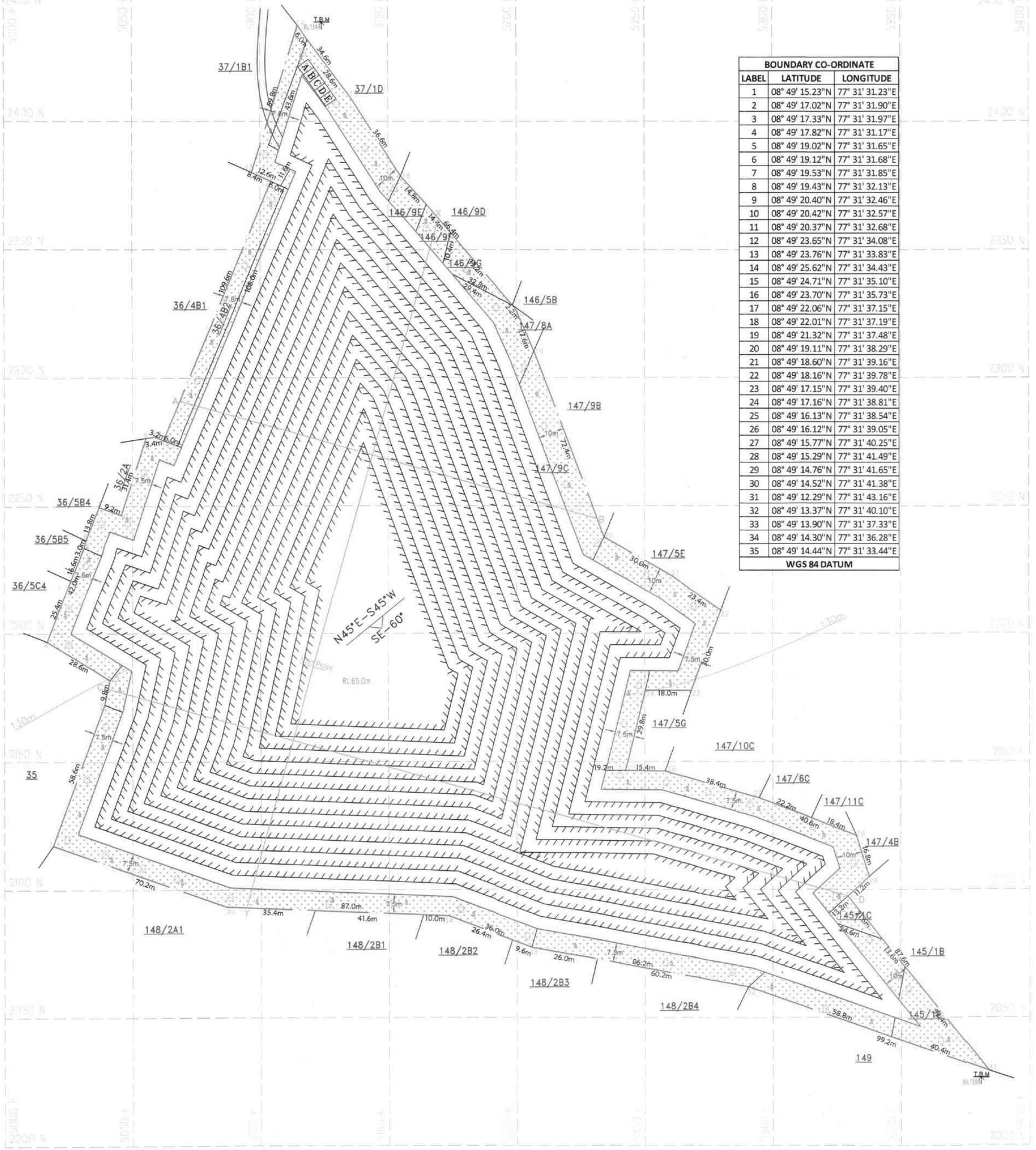
SCALE 1 : 1000

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

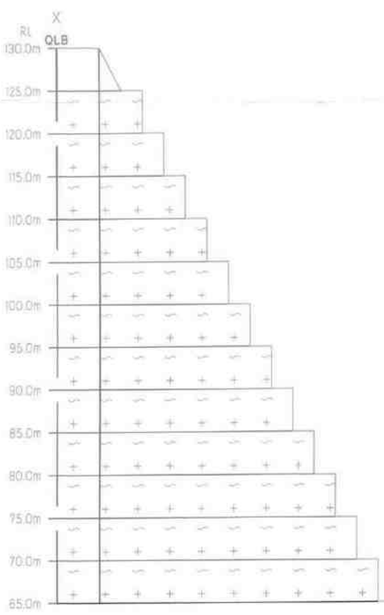
N.RAVINTHIRAN,M.Sc.,(App.Geo)
QUALIFIED PERSON

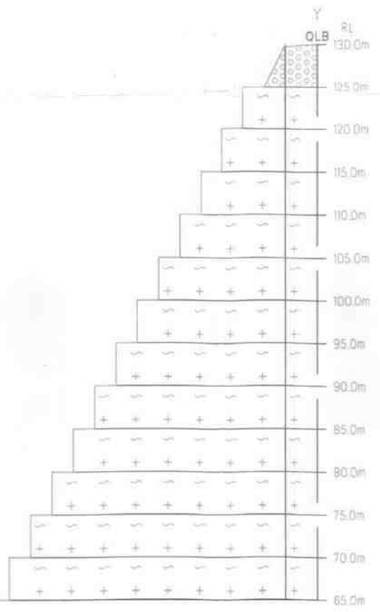


BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
1	08° 49' 15.23"N	77° 31' 31.23"E
2	08° 49' 17.02"N	77° 31' 31.90"E
3	08° 49' 17.33"N	77° 31' 31.97"E
4	08° 49' 17.82"N	77° 31' 31.17"E
5	08° 49' 19.02"N	77° 31' 31.65"E
6	08° 49' 19.12"N	77° 31' 31.68"E
7	08° 49' 19.53"N	77° 31' 31.85"E
8	08° 49' 19.43"N	77° 31' 32.13"E
9	08° 49' 20.40"N	77° 31' 32.46"E
10	08° 49' 20.42"N	77° 31' 32.57"E
11	08° 49' 20.37"N	77° 31' 32.68"E
12	08° 49' 23.65"N	77° 31' 34.08"E
13	08° 49' 23.76"N	77° 31' 33.83"E
14	08° 49' 25.62"N	77° 31' 34.43"E
15	08° 49' 24.71"N	77° 31' 35.10"E
16	08° 49' 23.70"N	77° 31' 35.73"E
17	08° 49' 22.06"N	77° 31' 37.15"E
18	08° 49' 22.01"N	77° 31' 37.19"E
19	08° 49' 21.32"N	77° 31' 37.48"E
20	08° 49' 19.11"N	77° 31' 38.29"E
21	08° 49' 18.60"N	77° 31' 39.16"E
22	08° 49' 18.16"N	77° 31' 39.78"E
23	08° 49' 17.15"N	77° 31' 39.40"E
24	08° 49' 17.16"N	77° 31' 38.81"E
25	08° 49' 16.13"N	77° 31' 38.54"E
26	08° 49' 16.12"N	77° 31' 39.05"E
27	08° 49' 15.77"N	77° 31' 40.25"E
28	08° 49' 15.29"N	77° 31' 41.49"E
29	08° 49' 14.76"N	77° 31' 41.65"E
30	08° 49' 14.52"N	77° 31' 41.38"E
31	08° 49' 12.29"N	77° 31' 43.16"E
32	08° 49' 13.37"N	77° 31' 40.10"E
33	08° 49' 13.90"N	77° 31' 37.33"E
34	08° 49' 14.30"N	77° 31' 36.28"E
35	08° 49' 14.44"N	77° 31' 33.44"E
WGS 84 DATUM		

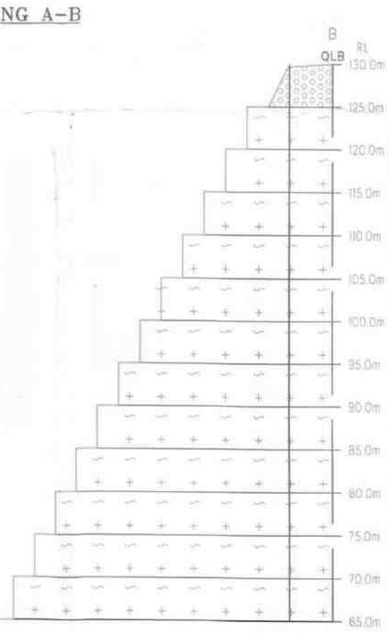
MINING PLAN APPROVED
By
Deputy Director
of Geology & Mining
Tenkasi Dist

SECTION ALONG X-Y

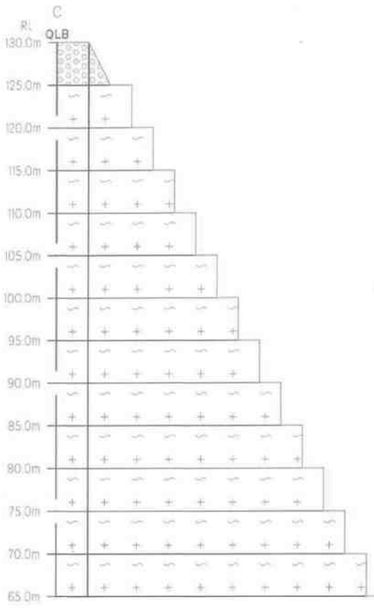


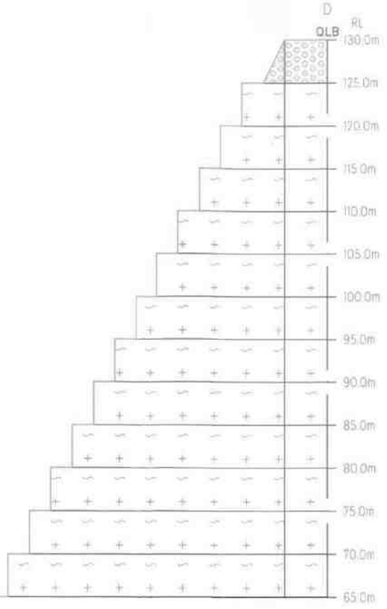


SECTION ALONG A-B



SECTION ALONG C-D





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
L278(Max)mX181(Avg)mXD65(Max)m

PLATE NO-VI
DATE OF SURVEY : 19.06.2025

APPLICANT:
THIRU K.PRASADRAJU
S/O KALYANASUNDARAM,
NO:4/48, INDRA NAGAR,
NALLUR,ALANGULAM TALUK,
TENKASI DISTRICT-627 853.

QUARRY LEASE APPLIED AREA:

S.F.NO's: MARUTHAMPUTHUR PART-1,36/1,
:36/2B,36/4B2,36/4C,37/1B2,37/1E
:MARUTHAMPUTHUR PART-2,145/1C,
:145/1D,145/1E,146/9E,146/9F,146/9G
:147/1,147/2A,147/2B,147/3A,147/3B
:147/4C,147/5F,147/5H,147/8B,147/9C
:&148/1
EXTENT : 5.99.05Ha,
VILLAGE :MARUTHAMPUTHUR PART-1&
:MARUTHAMPUTHUR PART-2
TALUK :ALANGULAM,
DISTRICT : TENKASI.

INDEX

- Q.LEASE APPLIED BOUNDARY
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- 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

N.RAVINTHIRAN,M.Sc.,(App.Geo)
QUALIFIED PERSON

ANNEXURE-4

From
Thiru.K.Ramesh,M.Sc.,
Deputy Director,
Geology and Mining,
Tenkasi District.

To
Thiru.K. Prasadraju,
S/o. Kalyanasundaram,
No: 4/48, Indra Nager,
Nallur, Alangulam Taluk,
Tenkasi District – 627853.

Rc.No:M1/10/2025, dated: 02.07.2025

Sir,

Sub: Mines and Minerals – Tenkasi District Minor Minerals – TNMMCR, 1959 Rule 19(1) - Application preferred by Thiru.K. Prasadraju, S/o. Kalyanasundaram, for quarrying and transportation of Roughstone and Gravel in patta lands in – S.F.Nos.36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part -1 Village & 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C & 148/1 of Maruthamputhur Part-2 Village, of Alangulam Taluk, Tenkasi District, totally over an extent of 5.99.05 Hectares - certain particulars requested for obtaining Environmental Clearance - furnished - Reg.

Ref:
1. Application preferred by Thiru.K. Prasadraju, S/o. Kalyanasundaram, under Rule 19(1) dated: 23.01.2025.
2. The Revenue Divisional Officer - Tenkasi, Letter No. RDOTKS/562/2025-A2, dated. 27.05.2025.
3. Inspection report of the Assistant Geologist, Geology and Mining, Tenkasi, dated 10.06.2025.
4. The Deputy Director of Geology and Mining, Tenkasi, letter RC. No. M1/10/2025 dated: 18.06.2025. (precise area communication letter.
5. Letter received from Thiru.K. Prasadraju, S/o. Kalyanasundaram dated:21.07.2025

****

With reference to your letter in the reference 5th cited, the details of existing and lease expired quarries located within 500 mts radius from the

proposed Rough stone & gravel quarry over an extent of 05.99.05 hectares of patta lands in SF.Nos. 36/1(0.14.5), 36/2B(0.17.55), 36/4B2 (0.06.53), 36/4C (0.27.0), 37/1B2 (0.03.47), 37/1E (0.20.5) of Maruthamputhur Part - 1 Village & 145/1C (0.01.0), 145/1D (0.16.5), 145/1E (0.04.5), 146/9E (0.03.0), 146/9F(0.02.0), 146/9G (0.02.0), 147/1(0.39.5), 147/2A(0.27.0), 147/2B(0.52.5), 147/3A (0.37.0), 147/3B (0.47.0), 147/4C (0.76.50), 147/5F (0.07.5), 147/5H (0.024.5), 147/8B (0.40.0), 147/9C (0.30.0) & 148/1 (0.99.0) of Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District are as follows:

Sl. No	Name of the quarry Owner	Name of the Village & Survey Number	Extent (in Hects)	Remarks
a. Existing Quarries				
1.	Thiru.G.Karuppasamy, S/o.Gurusamy	Maruthampudhur-1 Village & 35/4A, 35/4B, 35/4C, 35/4D, 35/4E, 35/4F, 35/4G, 35/4H and 3/4I	03.99.00	5 Years 19.06.2023 to 18.06.2028
2.	Thiru.M. Niraikulathan, S/o. Muthaiah	Maruthampudur 2 & 144/2C, 144/2D, 144/2E, 144/2F, 144/2G and 144/2I	02.07.00	5 years 30.11.2021 to 29.11.2026
b. Expired Quarries				
1.	G.Karuppasamy, S/o. Gurusamy,	Maruthamputhur - II & 162/6A,162/6B, 163/4 and 163/5A	3.76.00	5 Years, 08.01.2016 to 07.01.2021
2.	Muthaiah Konar.V	Maruthamputhur-I Village & 35/5G and 35/5H	1.54.00	5 Years 18.05.2011 to 17.05.2016

c. Abandoned Quarries				
Nil				
d. Present proposed Quarries (Now Proposed)				
1.	Thiru.K. Prasadraju, S/o. Kalyanasundaram	S.F.Nos.36/1, 36/2B, 36/4B2, 36/4C, 37/1B2, 37/1E of Maruthamputhur Part -1 Village & 145/1C, 145/1D, 145/1E, 146/9E, 146/9F, 146/9G, 147/1, 147/2A, 147/2B, 147/3A, 147/3B, 147/4C, 147/5F, 147/5H, 147/8B, 147/9C & 148/1 of Maruthamputhur Part-2 Village	05.99.05	Applied area (Rough Stone and gravel)

Deputy Director
Geology and Mining
Tenkasi

02/02/25

02/7/25

ANNEXURE-5

சாரம்

தெற்காசி மாவட்டம், அலங்குளம் வட்டம் மருதம்புத்தூர் பகுதி-I கிராமம் புன்செய் புலஎண்கள் 36/1 (0.14.50), 36/2B (0.17.55) 36/4B2 (0.06.53), 36/4C (0.27.0), 37/1B2 (0.03.47) 37/1E (0.20.50) மற்றும் மருதம்புத்தூர் பகுதி-2 கிராமம் புன்செய் புலஎண்கள் 145/1C (0.01.0) 145/1D (0.16.50), 145/1E (0.04.50), 146/9E (0.03.0), 146/9F (0.02.0), 146/9G (0.02.0) 147/1 (0.39.50), 147/2A (0.27.0), 147/2B (0.52.50), 147/3A (0.37.0), 147/3B (0.47.0) 147/4C (0.76.50), 147/5F (0.07.50), 147/5H (0.24.50), 147/6B (0.40.0), 147/9C (0.30.0) 148/1 (0.99.0) ஆகியவற்றை 5.99.05 ஹெக்டேர் பரப்பில் அகற்றுவதற்கான மற்றும் கிராவல் மண் எடுக்க குத்தகை உரிமம் 5 வருடங்களுக்கு வழங்க திரு. கல்யாணசுந்தரம் மகன் சிவசுந்தரம் என்பவர் விண்ணப்பித்துள்ளனர். மேற்படி முன்மொழிவு 5.99.05 ஹெக்டேர் பரப்பளவு நிலத்தில் நிலவியல் தோற்றங்கள் மற்றும் நிலங்களின் தன்மை இன்னல் மேலும் மேற்படி புவித்தொகுப்பிலிருந்து 300 மீட்டர் சுற்றளவிற்குள் குடியிருப்புகள், பொதுமக்கள் பயன்பாட்டு நீர்நிலைகள் மற்றும் கோயில்கள்

எனது நகைகளை திருடியவர்கள் இவர்கள்
மேற்படி இடத்தில் கண்டறுண்ட கற்கள்
மற்றும் இரவில் எடுத்த மேற்படி
இரண்டு கைரேகைகளில் நகைகளை திருடியவர்களின்
அடையாளம் இவ்வளவு தான்
விபரத்திற்கு இத்துடன் விடுவிக்கப்படுகிறது.

இப்படிக்கு

29.08.2025

கிராம நிர்வாக அலுவலர்
27. மருதம்புத்தூர் கிராமம் - I
ஆலங்குளம் வட்டம்.
தென்காசி மாவட்டம்.

ANNEXURE-6

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

ANNEXURE IV

District : Tenkasi

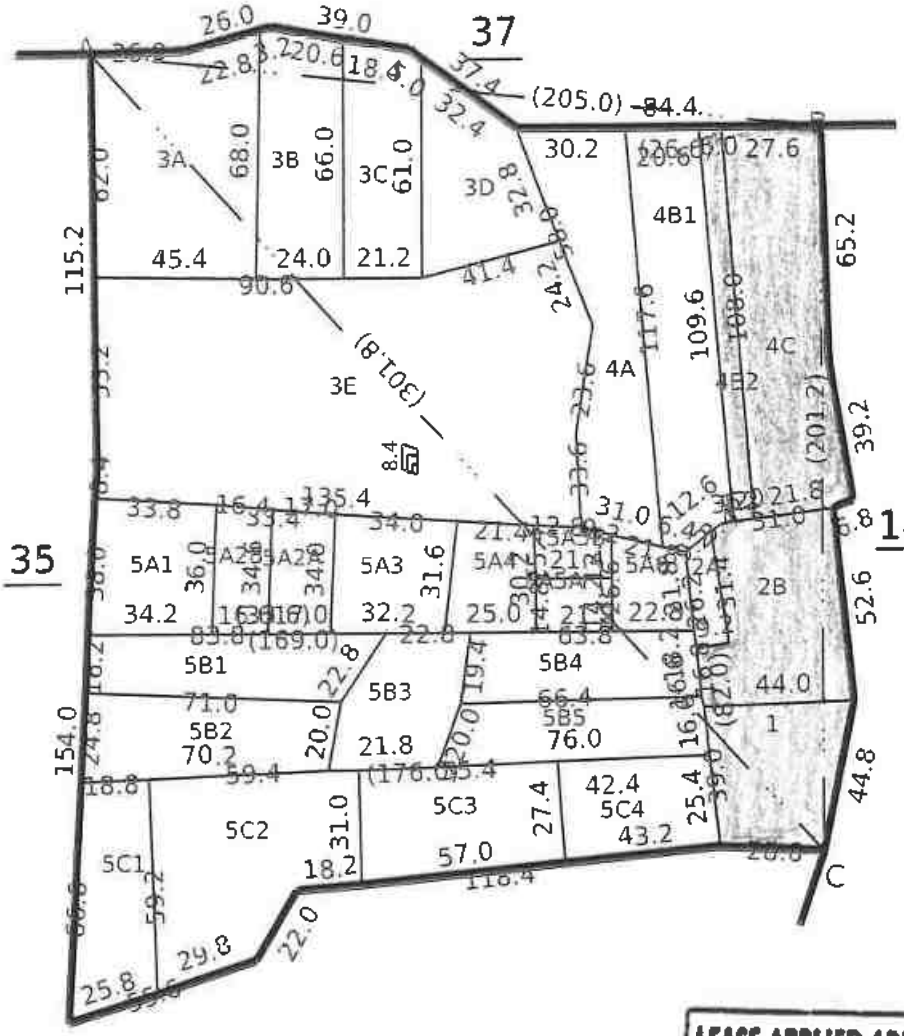
Taluk : Alangulam

Village : Maruthamputhur-1 [271]

Survey No : 36

Area : Hect 04 Ares 68.00

Scale : 1 : 2000



Data Digitally Signed By
K OSANA FERNANDO

Date of Issue: 27-06-2025 20:16:12

Survey and Settlement Department, Government of TamilNadu

270 fv.6

District : Tenkasi

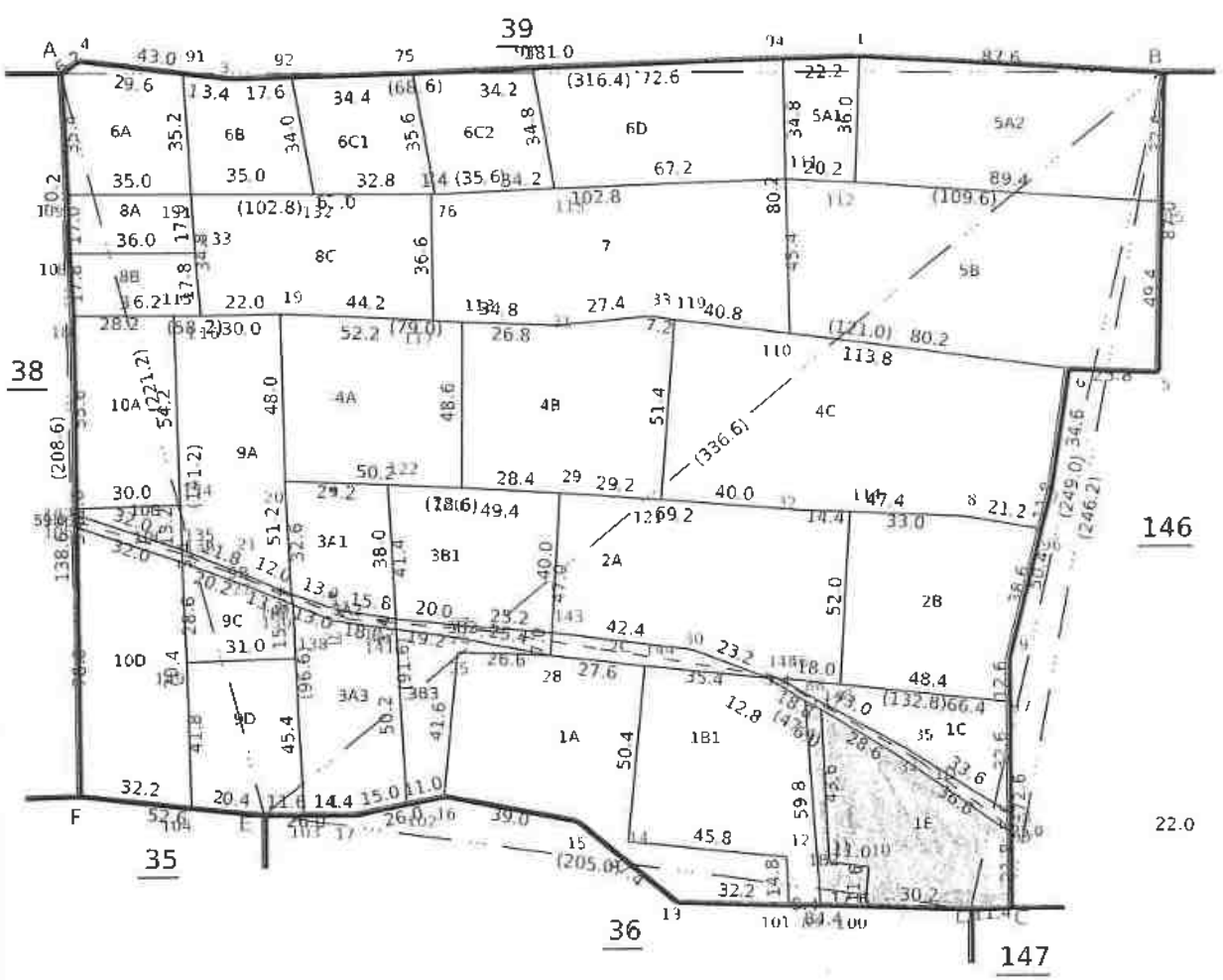
Taluk : Alangulam

Village : Maruthamputhur-1 [271]

Survey No : 37

Area : Hect 06 Ares 50.00

Scale : 1 : 1456



LEASE APPLIED AREA

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

Data Digitally Signed By
K OSANA FERNANDO

Date of Issue: 27-06-2025 20:19:15

Survey and Settlement Department, Government of TamilNadu

270 fv.5

MINING PLAN APPROVED
By
Deputy Director
of Geology & Mining
Tenkasi Dist.

மாவட்டம் : தென்காசி

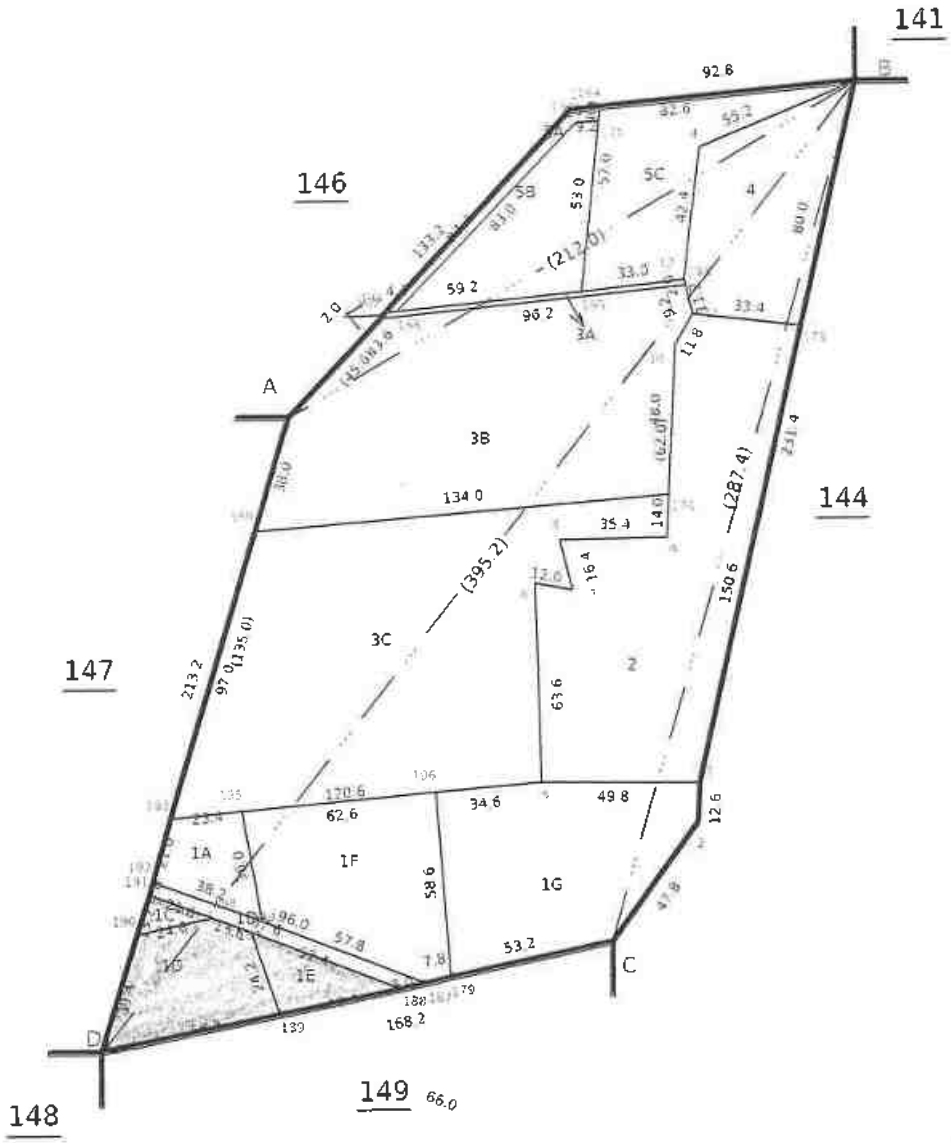
வட்டம் : ஆலங்குளம்

கிராமம் : மருதம்புத்தூர்-2 [272]

புல எண் : 145

பரப்பளவு : எக்டர் 04 ஏர் 29.62

அளவு : 1 : 1640



LEASE APPLIED AREA

Signed By Tahsildar
Name of approver : kand
Date of Approval : 11-06-2020

Date of Issue: 26-06-2025 16:51:34

District : Tenkasi

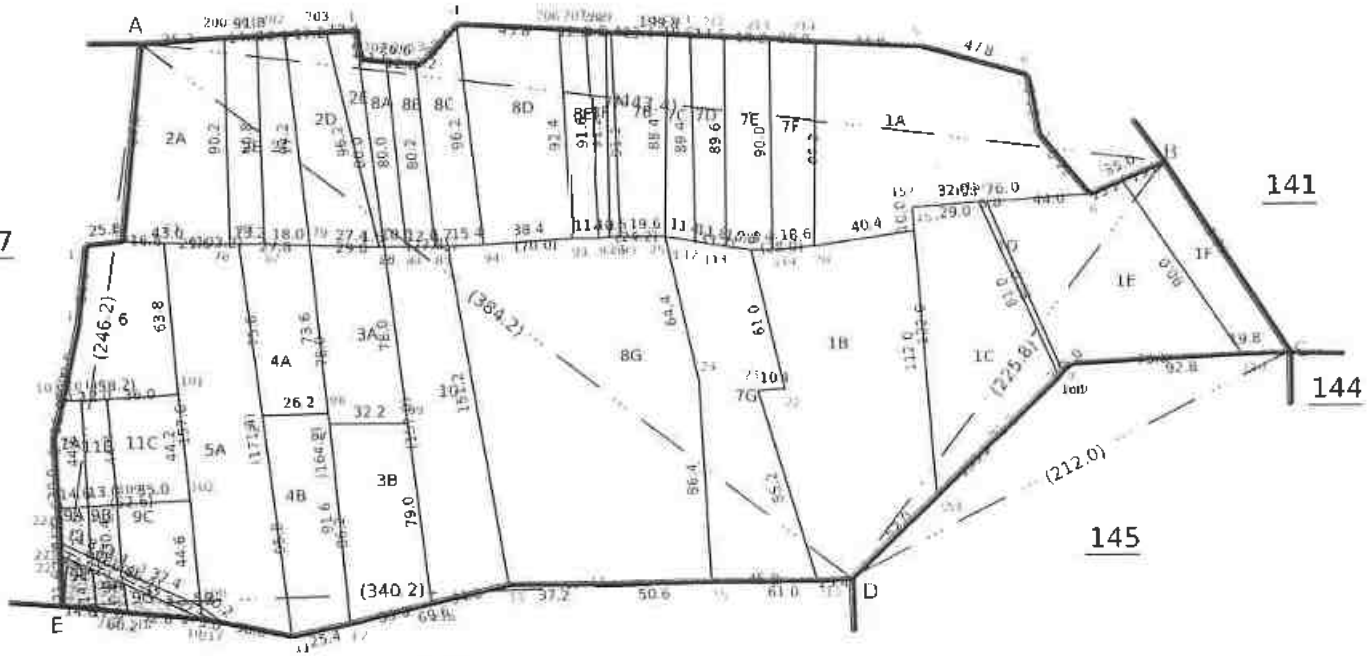
Taluk : Alangulam

Village : Maruthamputhur-2 [272]

Survey No : 146

Area : Hect 10 Ares 15.51

Scale : 1 : 2201



LEASE APPLIED AREA

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

Signed By Tahsildar

Name of approver : kand

Date of Approval : 11-06-2020

Date of Issue: 27-06-2025 20:21:42

Survey and Settlement Department, Government of TamilNadu

260 fv 2

District : Tenkasi

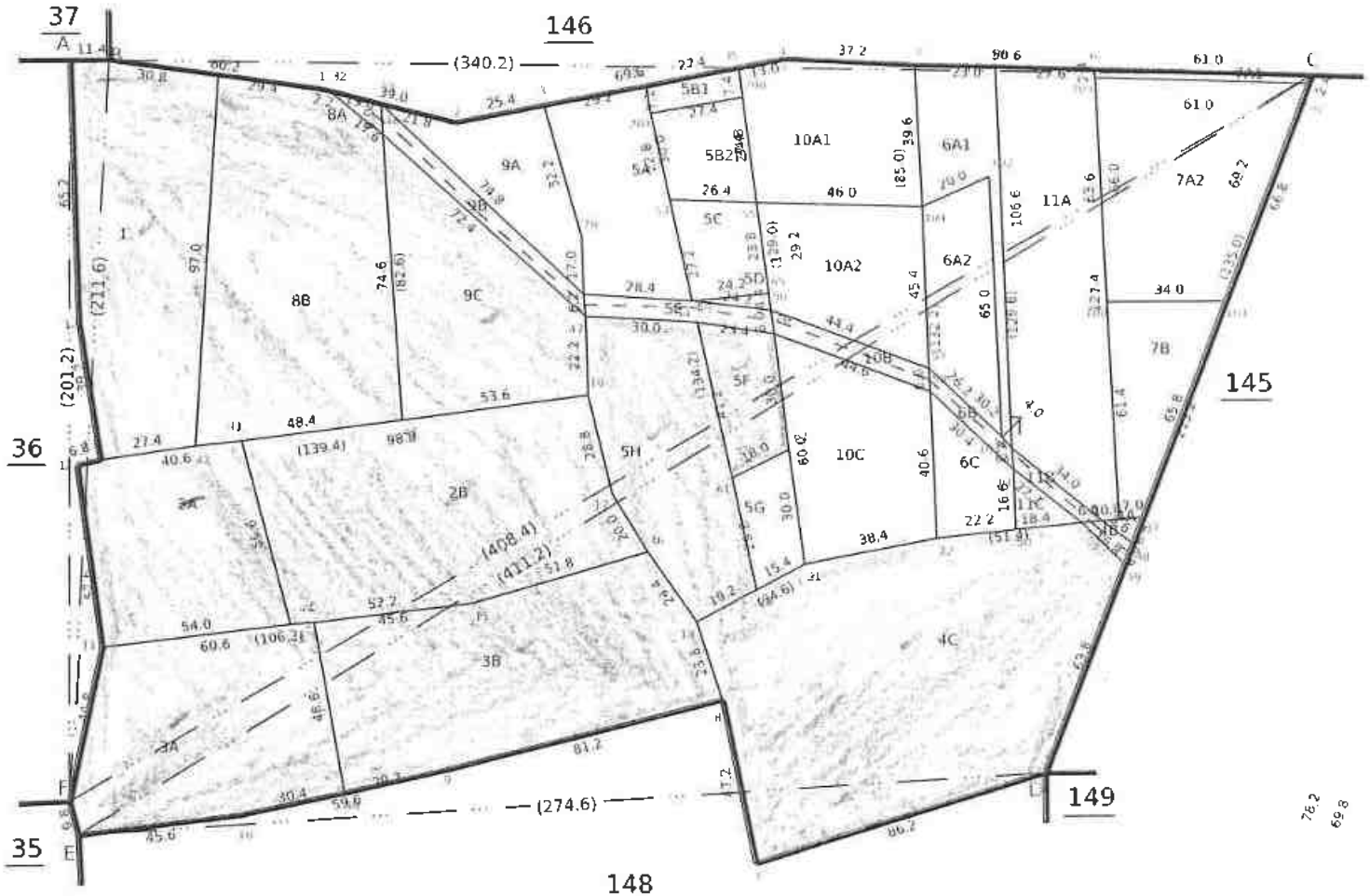
Taluk : Alangulam

Village : Maruthamputhur-2 [272]

Survey No : 147

Area : Hect 06 Ares 8.74

Scale : 1 : 1349



LEASE APPLIED AREA

MINING PLAN APPROVED BY Deputy Director of Geology & Mining Tenkasi Dist.

Signed By Tahsildar

Name of approver : [illegible]

Date of Approval : 07-02-2024

Date of Issue: 27-06-2025 20:24:16

Survey and Settlement Department, Government of TamilNadu

260 fv 4

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

District : Tenkasi

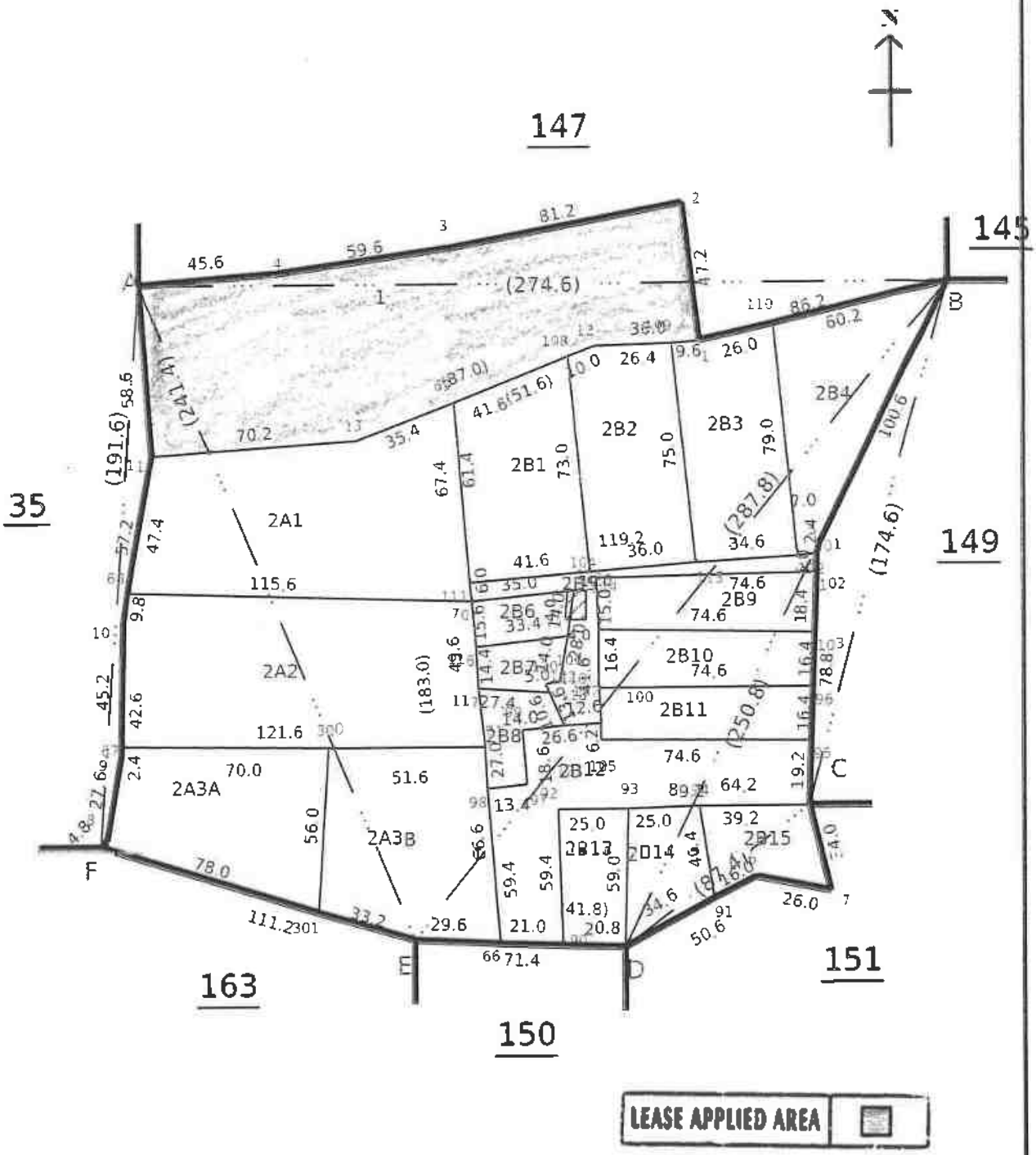
Taluk : Alangulam

Village : Maruthamputhur-2 [272]

Survey No : 148

Area : Hect 05 Ares 30.50

Scale : 1 : 2000



Signed By Tahsildar

Name of approver : tks_jl

Date of Approval : 07-02-2024

Date of Issue: 27-06-2025 20:25:30

Survey and Settlement Department, Government of TamilNadu

260 fv.4

MINING PLAN APPROVED
By
Deputy Director
of Geology & Mining
Tenkasi Dist.

ANNEXURE III

LEASE APPLIED AREA

ANNEXURE IV

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-1 **பட்டா எண் : 1828**

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்	
2.	கல்யாணசுந்தரம்	மகன்	ஜெயசுந்தர்	
3.	கிருஷ்ணன்	மகன்	ராஜ	
4.	குருசாமி	மகன்	கருப்பசாமி	
5.	முத்தையா	மகன்	நிறைகுளத்தான்	

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	
35	4A	0 - 28.50	0.35	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4B	0 - 28.00	0.35	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4C	0 - 46.00	0.57	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4D	0 - 53.00	0.65	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4E	0 - 29.00	0.36	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4F	0 - 33.00	0.40	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4G	0 - 31.00	0.40	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4H	0 - 70.50	0.87	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
35	4I	0 - 80.00	1.00	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
36	1	0 - 14.50	0.19	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
36	SC3	0 - 18.00	0.23	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
36	SC4	0 - 11.00	0.14	--	--	--	--	2017/0103/29/065509- -- -- 10-06-2017
		4 - 42.50	5.51					

புத்தகம் 2024 ம் வருடத்தில் ஆவணம்
நகல் செய்தது
வழி சான்

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின்னணு முறையில் பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணையதளத்தில் **34/11/271/01828/20199** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:03:30 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-1 **பட்டா எண் : 1871**

உரிமையாளர்கள் பெயர்

1.	கல்யாணசுந்தரம்	மகன்	ஜெயசுந்தர்
2.	கிருஷ்ணன்	மகன்	ராஜு
3.	முத்தையா	மகன்	நிறைகுளத்தான்
4.	குருசாமி	மகன்	கருப்பசாமி
5.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்

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	
31	9	0 - 40.00	0.50	--	--	--	--	2019/0103/29/176526-- -- 11-06-2019
34	2B	0 - 7.00	0.09	--	--	--	--	2019/0103/29/176526-- -- 11-06-2019
35	6J	0 - 19.00	0.25	--	--	--	--	2019/0103/29/176526-- -- 11-06-2019
36	2B	0 - 17.55	0.20	--	--	--	--	2017/0105/29/018898--2017/29/11/000022SD -- 06-11-2017
36	5A1	0 - 13.00	0.16	--	--	--	--	2018/0103/29/150918-- -- 30-03-2019
36	5A4	0 - 7.00	0.10	--	--	--	--	2018/0103/29/150918-- -- 30-03-2019
37	2A	0 - 37.00	0.46	--	--	--	--	2019/0103/29/188780-- -- 24-07-2019
37	2B	0 - 25.00	0.31	--	--	--	--	2019/0103/29/176526-- -- 11-06-2019
37	2C	0 - 3.00	0.06	--	--	--	--	2019/0103/29/188201-- -- 24-07-2019
37	9D	0 - 15.00	0.19	--	--	--	--	2018/0103/29/150918-- -- 30-03-2019
		1 - 83.55	2.32					

புதுதகம் 2024 ம் வருடத்தில் 12.5 ஆவணம்

குறிப்பு2 :

1. மேற்கண்ட தகவல்/ சான்றிதழ் நகல் விவரங்கள் இணையதளத்திலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணையதளத்தில் 34/11/271/01871/20127 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:04:41 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-1 **பட்டா எண் : 2793**

உரிமையாளர்கள் பெயர்

1. கல்யாணசுந்தரம் மகன் பிரசாத்ராஜு

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	
36	4B2	0 - 6.53	0.20	--	--	--	--	2024/0105/34/319046--2024/34/11/000327SD ------ Digitally signed:Osana Fernando K Tahsildar 29/11/2024 10:20:47:AM
37	1B2	0 - 3.47	0.10	--	--	--	--	2024/0105/34/319046--2024/34/11/000327SD ------ Digitally signed:Osana Fernando K Tahsildar 29/11/2024 10:20:47:AM
		0 - 10.00	0.30					

குறிப்பு :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **P/34/11/271/02793/30141** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 04-06-2025 அன்று 04:20:45 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி

வட்டம் : ஆலங்குளம்

வருவாய் கிராமம் : மருதம்புத்தூர்-1

பட்டா எண் : 1913

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாணசுந்தரம்	மகன்	ஜெய்சுந்தர்
3.	கிருஷ்ணன்	மகன்	ராஜ"
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

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	
36	3B	0 - 16.00	0.20	--	--	--	--	2018/0103/29/114234- -- -- 01-06-2018
36	4C	0 - 27.00	0.33	--	--	--	--	2020/0103/34/249928- -- -- 04-12-2020
37	1C	0 - 10.00	0.12	--	--	--	--	2020/0103/34/249928- -- -- 04-12-2020
37	1E	0 - 20.50	0.25	--	--	--	--	2020/0103/34/249928- -- -- 04-12-2020
		0 - 73.50	0.90					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/271/01913/20144** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:05:35 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

பதிவு அலுவலர்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய் மற்றும் பேரிடர் மேலாண்மைத் துறை

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

மாவட்டம்: தென்காசி

வட்டம்: ஆலங்குளம்

வருவாய் கிராமம்: மருதம்புத்தூர்-2

பட்டா எண்: **1164**

உரிமையாளர்கள் பெயர்

1 கல்யாணசுந்தரம் மகன் பிரசாத்ராஜ்

வ.எண்	புல எண்ணும் உட்பிரிவும்	நன்செய்				புன்செய்				மற்றவை				குறிப்பு
		பரப்பு		தீர்வை		பரப்பு		தீர்வை		பரப்பு		தீர்வை		
		ஹெ.	ஏர்	ரூ	பை	ஹெ	ஏர்	ரூ	பை	ஹெ.	ஏர்	ரூ	பை	
1	146 - 9E					0	03.00	00	06					2024/0103/34/423201 19-11-2024
	மொத்தம் -	0		0		0	03.00	0	06	0		0		

மின்கையெப்பம் / Digital Signature : **19-11-2024** அன்று **08:50:41 PM** நேரத்தில் இடப்பட்டது

பெயர்/Name : **Arumugam T**
பதவி/ Designation: **Head Quarters Deputy Tahsildar**

இடம்/Place : ஆலங்குளம் **(11)** வட்டம்,
தென்காசி**(34)** மாவட்டம்

குறிப்பு	
1	மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை.இவற்றை தாங்கள் https://eservices.tn.gov.in என்ற இணைய தளத்தில் 2024/0103/34/423201 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2	இத்தகவல்கள் 04-06-2025 அன்று 01:36:30 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3	கைப்பேசி கேமராவின் 2D barcode படிப்பான் மூலம் இத்தகவல்களை இணையத்தளத்தில் சரிபார்க்கவும்.

வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் இராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 1015**

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்	
2.	கல்யாணசுந்தரம்	மகன்	ஜெய்சுந்தர்	
3.	இருஷ்ணன்	மகன்	ராஜூ	
4.	குருசாமி	மகன்	கருப்பசாமி	
5.	முத்தையா	மகன்	நிறைகுளத்தான்	

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	
146	10	0 - 46.00	0.29	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	11B	0 - 6.00	0.06	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	11C	0 - 14.50	0.12	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	4B	0 - 27.50	0.26	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	5A	0 - 54.50	0.44	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	6	0 - 30.50	0.31	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	9B	0 - 3.50	0.06	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	9C	0 - 13.00	0.12	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	9F	0 - 2.00	0.06	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
146	9G	0 - 2.00	0.06	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
147	8A	0 - 1.00	0.06	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
147	8B	0 - 40.00	0.31	--	--	--	--	2020/0103/34/240114-- -- 22-09-2020
		2 - 40.50	2.15					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/01015/20267** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:08:48 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

MINING PLAN APPROVED By Deputy Director of Geology Tenkasi (MD)

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் இராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 1011**

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாணசுந்தரம்	மகன்	ஜெய்சுந்தர்
3.	கிருஷ்ணன்	மகன்	ராஜூ
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

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	
144	2A	0 - 33.50	0.30	--	--	--	--	2020/0103/34/240105-- -- 22-09-2020
145	2	0 - 70.50	0.43	--	--	--	--	2020/0103/34/240105-- -- 22-09-2020
146	2B	0 - 12.00	0.11	--	--	--	--	2020/0103/34/238028-- -- 21-09-2020
147	1 ✓	0 - 39.50	0.37	--	--	--	--	2020/0103/34/238028-- -- 21-09-2020
		1 - 55.50	1.21					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/01011/20223** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:06:38 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

...2024 ...ம் ஆவணம்
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...

வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 900**

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாணசுந்தரம்	மகன்	ஜெய்சுந்தர்
3.	கிருஷ்ணன்	மகன்	ராஜு
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

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	
146	3A	0 - 24.00	0.22	--	--	--	--	2017/0103/29/067046-- -- 29-06-2017
147	2A	0 - 27.00	0.25	--	--	--	--	2017/0103/29/067046-- -- 29-06-2017
147	2B	0 - 52.50	0.50	--	--	--	--	2017/0103/29/067046-- -- 29-06-2017
147	3A	0 - 37.00	0.34	--	--	--	--	2017/0103/29/067046-- -- 29-06-2017
		1 - 40.50	1.31					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/00900/100219** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:07:00 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படிதது ULPKS வழி இலாயதளத்தில் சரிபார்க்கவும்

புத்தகம் 2024 ம் வருடத்தில் 2 வது ஆவணம்
..... நகல் - உண்மை சான்றிட்டது
17..... வது நகல்
பதிவு அலுவலர்

வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 143**

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாண சுந்தரம்	மகன்	ஜெய்சுந்தர்
3.	கிருஷ்ணன்	மகன்	ராஜு
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

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	
147	3B ✓	0 - 47.00	0.41	--	--	--	--	2018/0103/29/137897-- -- 26-10-2018
147	9A	0 - 10.00	0.09	--	--	--	--	2018/0103/29/137897-- -- 26-10-2018
147	9B	0 - 3.00	0.06	--	--	--	--	2018/0103/29/137897-- -- 26-10-2018
147	9C ✓	0 - 30.00	0.22	--	--	--	--	2018/0103/29/137897-- -- 26-10-2018
148	1 ✓	0 - 99.00	0.94	--	--	--	--	2018/0103/29/137897-- -- 26-10-2018
		1 - 89.00	1.72					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/00143/20248** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:07:38 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்

MINING PLAN APPROVED By Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் இராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 1096**

உரிமையாளர்கள் பெயர்

1. மற்றவை எம்/எஸ் கிருஷ்ணா புளுமெட்டல்

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	
145	1A	0 - 8.00	0.07	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
145	1B	0 - 5.00	0.06	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
145	1C	0 - 1.00	0.06	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
145	1D	0 - 16.50	0.14	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
145	1E	0 - 4.50	0.06	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
145	1F	0 - 29.50	0.25	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
145	1G	0 - 42.00	0.36	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
147	4A	0 - 0.50	0.06	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
147	4B	0 - 0.50	0.06	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
147	4C	0 - 76.50	0.57	--	--	--	--	2023/0103/34/349957-- -- 08-05-2023
		1 - 84.00	1.69					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/01096/20276** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:10:00 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

.....யுத்தகம் 2024 ம் வருடத்திற்கு ..... வரை
..... தாக்கல் செய்தது
..... வரை தான்
..... அலுவலர்

வட்டாட்சியர் அலுவலக இணைய சேவை - நில உரிமை விபரங்கள்

MINING PLAN APPROVED by Deputy Director of Geology & Mining Tenkasi Dist.

தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : தென்காசி **வட்டம் : ஆலங்குளம்**

வருவாய் கிராமம் : மருதம்புத்தூர்-2 **பட்டா எண் : 911**

உரிமையாளர்கள் பெயர்

1.	சுப்பிரமணியன்	மகன்	பன்னீர்செல்வன்
2.	கல்யாணசுந்தரம்	மகன்	ஜெய்சுந்தர்
3.	கிருஷ்ணன்	மற்றவை	ராஜு
4.	குருசாமி	மகன்	கருப்பசாமி
5.	முத்தையா	மகன்	நிறைகுளத்தான்

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	
147	5A	0 - 14.50	0.12	--	--	--	--	2017/0103/29/082234- -- -- 24-10-2017
147	5D	0 - 1.00	0.06	--	--	--	--	2017/0103/29/082234- -- -- 24-10-2017
147	5F	0 - 7.50	0.06	--	--	--	--	2017/0103/29/082234- -- -- 24-10-2017
147	5H ✓	0 - 24.50	0.19	--	--	--	--	2017/0103/29/082234- -- -- 24-10-2017
		0 - 47.50	0.43					

குறிப்பு2 :

1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் **https://eservices.tn.gov.in** என்ற இணைய தளத்தில் **34/11/272/00911/100221** என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 24-02-2024 அன்று 02:08:15 PM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின்2D barcode படிப்பான்மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

.....பந்தகம் 2024 ம் வருடத்திற்கு உரிமை ஆவணம்
24..... நாட்கள் வரை செல்லத்தக்கது
18..... வது நாள்
பதிவு அலுவலர்

ANNEXURE V

(45) - ஆம் பகலியில் ஆக்கர) மாவட்டம் திருநெல்வேலி கிராமக் கணக்கு வட்டம் மேலகரம்

நில வரித் திட்டத்தின்படி புலன்களின் விபரம்.					கைப்பற்று தாரருடைய பெயரும் எண்ணும் அல்லது அனுபோக தாரருடைய பெயர்.	சாகுபடியாளரின் பெயர்.	முதல் போகம்.				
நில அளவை எண்.	உட்பிரிவு எண்.	பரப்பு.	தீர்வை.	ஒரு போகம் அல்லது இரு போகம்.		நிலத்தின் எந்த பகுதி யாவது சாகுபடியாளரால் பயிரிடப்பட்டுள்ளதா.	எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது.	பயிரின் பெயர்.	பயிரான / அறுவடை யான பரப்பு.	உண்மையான பாய்ச்சல் ஆதாரம்.	விளைச்சல் அளவு விழுக்காடு.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
36	1	0.14.5	0.19	1913	பன்னீர் செல்வன் (ஆ)						
36	2B	0.17.5	0.20	1971	சுயசாந்தம் (ஆ)						
36	4B2	0.06.5	0.20	2193	பிறசாந்தம்						
36	4C	0.27.0	0.33	1913	பன்னீர் செல்வன் (ஆ)						
37	1B2	0.34.0	0.10	2193	பிறசாந்தம்						
37	1E	0.20.5	0.25	1913	பன்னீர் செல்வன் (ஆ)						
					— 2 —		நஞ்சை				

24.12.2024
கிராம நிர்வாக அலுவலர்
27. மருதம்புத்தார் I கிராமம்
ஆலங்குளம் வட்டம்
தென்காசி மாவட்டம்.

380/4-R.F. III-A-10-20,00,000 Cps.-GBP.-MDU.-7-2021.

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1/3 அம் பகுதியில் புஞ்சைநிலம் மாவட்டம் கிராமம் எண் 27 வட்டம் மருதம்புத்தூர் II

நில வகித் திட்ட த்திலுள்ள புலங்களின் விபரம்.					கைம்பற்று காரருடைய பெயரும் எண்ணும் அல்லது அறுமோக காரருடைய பெயர்.	நிலத்தின் மற்ற பகுதி யாரது சமுதாயத்தால் பயிரிடப்பட்டுள்ளதா.	முதல் போகம்.				
(1) நில அளவை எண்.	(2) உட்பிரிவு எண்.	(3) பரப்பு.	(4) தீர்வை.	(5) தரிசு போகம் அல்லது இரு போகம்.	(6)	(7)	(8) எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது.	(9) பயிரின் பெயர்.	(10) பயிரான / அறுவடை யான பரப்பு.	(11) உண்மையான பாய்ச்சல் ஆதாரம்.	(12) விளைச்சல் அளவு விபரம்.
145	1C	0.1.00	0.06	மஞ்சள்	அந்தோணி ஆரோக்கியம்						
145	1D	0.16.5	0.14	1096	அந்தோணி ஆரோக்கியம்						
145	1E	0.45	0.06	1096	அந்தோணி ஆரோக்கியம்						
~~146~~	~~9A~~	~~0.00~~	~~0.00~~	~~1164~~	~~பிரகாஷ்~~						
146	9E	0.3.00	0.06	1164	பிரகாஷ்						
146	9F	0.2.00	0.06	1019	பன்னீர்செல்வம் (இ)						
146	9G	0.2.00	0.06	1019	பன்னீர்செல்வம் (இ)						
147	5F	0.7.50	0.06	911	பன்னீர்செல்வம் (இ)						
~~147~~	~~9B~~	~~0.00~~	~~0.00~~	~~1140~~	~~பன்னீர்செல்வம் (இ)~~						

(கையெழுத்து)

கிராம நிர்வாக அலுவலர்
27, மருதம்புத்தூர்-II கிராமம்
ஆலங்குளம் வட்டம்
தென்காசி மாவட்டம்.

380/4-R.F. III-A-10-20,00,000 Cps.-GBP.-MDU.-7-2021.

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147 மற்றும் பகுதியில் தென்காசி தாலுக்கா/ஊராட்சி ஒன்றியம் கிராமம் மருதம்புத்தூர் II

நில வரித் திட்டத்தின்படி புலன்களின் விபரம்.						நிலத்தின் வகை பற்றி மாவட்ட சாகுபடி ஆலோசனைக் குழுவால் பதிவிடப்பட்டுள்ளதை.	முதல் போகம்.				
நில அளவை எண்.	உட்பிரிவு எண்.	பரப்பு	தீர்வை.	ஒரு போகம் அல்லது இரு போகம்.	கைப்பற்று தாரருடைய பெயரும் எண்ணும் அல்லது அனுபோக தாரருடைய பெயர்.		எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது	பயிரின் பெயர்.	பயிரை உறுதிபடுத்திய பரப்பு	உள்ளங்கையின் பாய்ச்சல் ஆதாரம்	விவசாயம் அல்லது விவசாயம் அல்லாதது
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
					1011						
147	1	0.39.5	0.12	111	பன்னீர்செல்வம்			1			
147	2A	0.27.0	0.25	900	பன்னீர்செல்வம்			1			
147	2B	0.51.5	0.48	900	பன்னீர்செல்வம்			1			
147	3A	0.37.0	0.34	900	பன்னீர்செல்வம்			—			
147	3B	0.47.0	0.41	143	பன்னீர்செல்வம்						
147	4C	0.65.5	0.52	109	திருத்தாடியிடம்						
147	5A	0.24.5	0.19	911	பன்னீர்செல்வம்						
147	5B	0.40.0	0.31	915	பன்னீர்செல்வம்						
147	9C	0.30.0	0.27	1143	பன்னீர்செல்வம்						
148	1	1.99.0	1.56	113	பன்னீர்செல்வம்						

கிராம நிர்வாக அலுவலர்
27, மருதம்புத்தூர்-II கிராமம்
ஆலங்குளம் வட்டம்
தென்காசி மாவட்டம்

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இ. நம்பர் 10 பிரிவு I -13
மருதம்பத்தூர் II
நம்பர்

நம்பர். 1096

வருவாய் விவரங்களும் (1)	புலத்தின் நம்பரும் உட் பிரிவும் (2)	பயன்பாடு: விஸ்தீர்ணம் (3) ஹெக்டேர்.	ஏர்.	தீர்வை (4) ரூ.	பை.	நிலவரம்: விஸ்தீர்ணம் (5) ஹெக்டேர்.	ஏர்.	தீர்வை (6) ரூ.	பை.	மொத்த தீர்வை (7) ரூ.	பை.	வேறு (8)
	145/1A	0.080		0.07								
	145/1B	0.050		0.06								
	145/1C ✓	0.010		0.02								
	145/1D ✓	0.165		0.14								
	145/1E ✓	0.045		0.05								
	145/1F	0.295		0.25								
	145/1G	0.170		0.14								
	147/4A	0.055		0.05								
	147/4B	0.005		0.01								
	147/4C ✓	0.715		0.57								
		1.630		1.61								

உதவி இயக்குநர் (சுரங்கம்)
27, மருதம்பத்தூர்-II கிராமம்
ஆலங்குளம் வட்டம்
தென்காசி மாவட்டம்

R.F. III-A-27- 5 Lakhs GRI MDU-2009

ANNEXURE VI
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1		2	3	4	5	6	7	8	9	10	
								ரூ. பை.	ஹெ.ஏர்ஸ்	ரூ. பை.	
35	6K	35-6பா	ர	ப	...	8-4	6	1 24	0 01·0	0 06	604 அ. பூவையா நாடார்.
	6L	-6பா	ர	ப	...	8-4	6	1 24	0 26·0	0 32	604 அ. பூவையா நாடார்.
	6M	-6பா	ர	ப	...	8-4	6	1 24	0 44·5	0 55	975 ந. கல்யாணி நாடார் (1), ந. சுடலை யாண்டி நாடார் (2).
	6N	-6பா	ர	ப	...	8-4	6	1 24	0 34·0	0 42	721 கு. மாடமுத்து நாடார்.
	6O	-6பா	ர	ப	...	8-4	6	1 24	0 01·0	0 06	721 கு. மாடமுத்து நாடார்.
									12 43·5	15 22	
36	1	36-1	ர	ப	...	8-4	6	1 24	0 14·5	0 19	468 சு. தெய்வேந் திர நாடார்.
	2	-2	ர	ப	...	8-4	6	1 24	0 20·0	0 25	353 மா. சுப்பன்.
	3A	-3பா	ர	ப	...	8-4	6	1 24	0 29·5	0 37	552 சு. பாண்டிய நாடார் (எ) சுடலைமுத்து நாடார்.
	3B	-3பா	ர	ப	...	8-4	6	1 24	0 16·0	0 20	759 சி. முத்தையா நாடார்.
	3C	-3பா	ர	ப	...	8-4	6	1 24	0 14·0	0 17	586 சி. இச்சையா நாடார்.
	3D	-3பா	ர	ப	...	8-4	6	1 24	0 14·0	0 17	629 பா. பெருமாள் நாடார்.
	3E	-3பா	ர	ப	...	8-4	6	1 24	0 85·5	1 18	807 தி. ராமச் சந்திரன்.
	4A	-4பா	ர	ப	...	8-4	6	1 24	0 21·0	0 26	807 தி. ராமச் சந்திரன்.
	4B	-4பா	ர	ப	...	8-4	6	1 24	0 31·0	0 38	353 மா. சுப்பன்.
	4C	-4பா	ர	ப	...	8-4	6	1 24	0 27·0	0 33	685 பூ. மாடக் கண்ணு நாடார்.
	5A1	-5A1பா	ர	ப	...	8-4	6	1·24 0 24	0 13·0	0 16	976 இளவர் பொ. காசி (1), காப்பாளர் தாயார் பொன் னம்மாள். பெர். சொர் ணம் (2).

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1		2	3	4	5	6	7	8		9		10		11
								ரூ.	பை.	ஹெ.ஏர்ஸ்.		ரூ.	பை	
37	1C	37–1பா	ர	பு	...	8–4	6	1	24	0	10·0	0	12	685 பூ. மாடக் கண்ணு நாடார்.
	1D	–1பா	ர	பு	...	8–4	6	1	24	0	02·0	0	06	978 மா. சுப்பன் (1), பூ. மாடக் கண்ணு நாடார்(2).
	1E	–1பா	ர	பு	...	8–4	6	1	24	0	20·5	0	25	685 பூ. மாடக் கண்ணு நாடார்.
	2A	–2பா	ர	பு	...	8–4	6	1	24	0	37·0	0	46	318 மு. சுடலை முத்து நாடார்.
	2B	–2பா	ர	பு	...	8–4	6	1	24	0	25·0	0	31	849 நா. லெட்சுமண நாடார்.
	2C	–2பா	ர	பு	...	8–4	6	1	24	0	03·0	0	06	318 மு. சுடலை முத்து நாடார்.
	3A1	–3Aபா	ர	பு	...	8–4	6	0	91	0	10.5	0	13	441 ரா. செளந்திர ராஜ்.
	3A2	–3Aபா	ர	பு	...	8–4	6	0	91	0	01·0	0	06	441 ரா. செளந்திர ராஜ்.
	3A3	–3Aபா	ர	பு	...	8–4	6	0	91	0	16·0	0	20	441 ரா. செளந்திர ராஜ்.
	3B1	–3Bபா	ர	பு	...	8–4	6	0	91	0	18·0	0	22	441 ரா. செளந்திர ராஜ்.
	3B2	–3Bபா	ர	பு	...	8–4	6	0	91	0	01·5	0	06	441 ரா. செளந்திர ராஜ்.
	3B3	–3Bபா	ர	பு	...	8–4	6	0	91	0	08·0		10	441 ரா. செளந்திர ராஜ்.
	4A	–4பா	ர	பு	...	8–4	6	1	24	0	25·0	0	31	75 இ. இளங் கோட்டி நாடார்.
	4B	–4பா	ர	பு	...	8–4	6	1	24	0	30·0	0	37	853 பொ. வண்ண முத்து நாடார்.
	4C	–4பா	ர	பு	...	8–4	6	1	24	0	54·5	0	70	75 இ. இளங் கோட்டி நாடார்.
	5A	–5பா	ர	பு	...	8–4	6	1	24	0	39·0	0	48	580 சி. பிச்சுமணி நாடார்.
	5B	–5பா	ர	பு	...	8–4	6	1	24	0	51·0	0	64	408 சு. சுவிஷேச முத்து நாடார்.
	6A	–6பா	ர	பு	...	8–4	6	1	24	0	12·0	0	15	184 ஞா. கோபால்.

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1	2	3	4	5	6	7	8	9	10	11	
							ஹெ. ஏ. சது. மீ.	ஹெ. ஏ.	ஹெ. ஏ.		
144	2P	144-2பா	ச	மு	...	8-5	7	0 91	0 13-0	0 12	363 ச. சாலைப் தாட்சி.
	2B	-2பா	ச	மு	...	8-5	7	0 91	0 12-5	0 13	139 வ.எ. கிணறுகள் தாட்சி.
	2R	-2ஊ	ச	மு	...	8-5	7	0 91	0 07-5	0 06	139 வ.எ. கிணறுகள் தாட்சி.
	3A1	-3A1பா	ச	மு	...	8-5	7	0 91	0 [illegible]	0 05	46 ச. [illegible] தாட்சி.
	3A2	-3A2பா	ச	மு	...	8-5	7	0 91	0 02-5	0 06	10 ச. [illegible] தாட்சி.
	3A3	-3A3பா	ச	மு	...	8-5	7	0 91	0 04-0	0 03	40 ச. [illegible] தாட்சி.
	3B	-3B	ச	மு	...	8-5	7	0 91	0 16-0	0 12	238 ச. முந்திரை தாட்சி.
	3C1	-3C1பா	ச	மு	...	8-5	7	0 91	1 23-0	1 12	515 ச.ச. புளிய தாட்சி (1), முந்திரை தாட்சி (2), ம. ஏ. [illegible] தாட்சி (3).
	3C2	-3C2பா	ச	மு	...	8-5	7	0 91	0 14-0	0 13	515 ச.ச. புளிய தாட்சி (1), முந்திரை தாட்சி (2), ம. ஏ. [illegible] தாட்சி (3).
	3C3	-3C3பா	ச	மு	...	8-5	7	0 91	1 16-5	1 06	515 ச.ச. புளிய தாட்சி (1), முந்திரை தாட்சி (2), ம. ஏ. [illegible] தாட்சி (3).
								11 22-5	10 30		
145	1A	145-1பா	ச	மு	...	8-5	7	0 91	0 08-0	0 07	112 ப. சிலைமையா தாட்சி.
	1B	-1ஆ	ச	மு	...	8-5	7	0 91	0 05-0	0 06	432 ப. சிலைமையா தாட்சி (1), க. கரி தாட்சி (2).
	1C	-1பா	ச	மு	...	8-5	7	0 91	0 01-0	0 06	112 ப. சிலைமையா தாட்சி.
	1D	-1ஆ	ச	மு	...	8-5	7	0 91	0 16-5	0 14	48 பெ. கரி தாட்சி.

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1	2	3	4	5	6	7	8	9	10	11	12
								ரூ. பை. தெ. ஏர்ஸ்.	ரூ. பை.		
145	1E	145-1பா	ர	ப	...	8-5	7	0 91	0 04·5	0 86	50 சு. காசி நாடார்.
	1F	-1பா	ர	ப	...	8-5	7	0 91	0 29·5	0 25	50 சு. காசி நாடார்.
	1G	-1பா	ர	ப	...	8-5	7	0 91	0 42·0	0 36	142 க. சுப்பிரமணிய நாடார்.
	2	-2	ர	ப	...	8-5	7	0 91	0 70·5	0 43	333 க. முத்துமாலை நாடார்.
	3	-3	ர	ப	...	8-5	7	0 91	1 82·0	1 25	504 த. சுப்பையா நாடார் (1), வெள்ளப் பாண்டி நாடார்(2), அருணாசல நாடார்(3).
	4	-4	ர	ப	...	8-5	7	0 91	0 26·0	0 25	504 த. சுப்பையா நாடார் (1), வெள்ளப் பாண்டி நாடார் (2), அருணாசல நாடார் (3).
	5	-5	ர	ப	...	8-5	7	0 91	0 45·0	0 44	504 த. சுப்பையா நாடார்(1), வெள்ளப் பாண்டி நாடார்(2), அருணாசல நாடார்(3).
								4 30.0	3 37		
146	1	146-1	ர	ப	...	8-5	7	0 91	2 82·5	2 62	504 த. சுப்பையர் நாடார்(1), வெள்ளப் பாண்டி நாடார்(2), அருணாசல நாடார்(3).
	2A	-2பா	ர	ப	...	8-5	7	0 91	0 34·5	0 32	333 க. முத்துமாலை நாடார்.
	2B	-2பா	ர	ப	...	8-5	7	0 91	0 12·0	0 11	16 ந. ஆதிமூலம் நாடார்.
	2C	-2பா	ர	ப	...	8-5	7	0 91	0 14·0	0 13	159 க. செண்பகத் தம்மாள்.
	2D	-2பா	ர	ப	...	8-5	7	0 91	0 19·5	0 19	234 மா. நாகமணி நாடார்.

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1	2	3	4	5	6	7	8	9	10	11	12
							ஹெ. ஏ.	ஹெ. ஏ.	ஹெ. ஏ.		
146	8D	146-8பா	7	4	...	8-5	7	0 91	0 39-5	0 36	122 ச. சேரி நாடார்.
	8E	-8பா	7	4	...	8-5	7	0 91	0 11-5	0 10	15 ச. ஆறுமுக நாடார்.
	8F	-8பா	7	4	...	8-5	7	0 91	0 05-5	0 05	294 மா. தங்கமணி நாடார்.
	8G	-8பா	7	4	...	8-5	7	0 91	0 32-0	0 26	584 மா. கடலை முத்து நாடார் மற்றும் இந்து மிச்சனம் *
	9A	-9பா	7	4	...	8-5	7	0 91	0 03-0	0 06	380 பொ. வள்ளை முத்து நாடார்.
	9B	-9பா	7	4	...	8-5	7	0 91	0 03-5	0 06	336 கு. முத்தையா நாடார்.
	9C	-9பா	7	4	...	8-5	7	0 91	0 13-0	0 12	23 வை. இசக்கி நாடார்.
	9D	-9பா	7	4	...	8-5	7	0 91	0 03-5	0 06	538 பொ. வள்ளை முத்து நாடார்(1). கு. முத்தையா நாடார்(2). வை. இசக்கி நாடார்(3). இரண்டு வண்டிப் பாதை.
	9E	-9பா	7	4	...	8-5	7	0 91	0 03-0	0 06	380 பொ. வள்ளை முத்து நாடார்.
	9F	-9பா	7	4	...	8-5	7	0 91	0 02-0	0 06	336 கு. முத்தையா நாடார்.
	9G	-9பா	7	4	...	8-5	7	0 91	0 02-0	0 06	23 வை. இசக்கி நாடார்.
	10	-10	7	4	...	8-5	7	0 62	0 46-0	0 29	42 லெ. வைபதி நாடார்.
	11A	-11பா	7	4	...	8-5	7	0 91	0 07-5	0 07	380 பொ. வள்ளை முத்து நாடார்.
	11B	-11பா	7	4	...	8-5	7	0 91	0 06-0	0 06	336 கு. முத்தையா நாடார்.
	11C	-11பா	7	4	...	8-5	7	0 91	0 14-5	0 12	23 வை. இசக்கி நாடார்.
									10 20-5	9 34	

* விவரப் பட்டியலைப் பார்க்கவும்.

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கி. சன்.- 12. மருதம் புத்தூர் (பகுதி-II).

1	2	3	4	5	6	7	8	9	10	11	12
							கு. மை. தெ. எச்ஸ்.		அ. வை.		
147	1	147-1	ர	பு	...	8-5	7	0 91	0 39·5	0 37	229 பொ. தங்க மாடியம்மாள்.
	2A	-2பர	ர	பு	...	8-5	7	0 91	0 27·0	0 25	113 மா. சிவஜு.
	2B	-2பர	ர	பு	...	8-5	7	0 91	0 52·5	0 50	225 சி. தனினார் நாடார்.
	3A	-3பர	ர	பு	...	8-5	7	0 91	0 37·0	0 34	149 த. சுப்பையா நாடார்.
	3B	-3பர	ர	பு	...	8-5	7	0 91	0 47·0	0 41	143 பெ. சுப்பையா நாடார்
	4A	-4பர	ர	பு	...	8-5	7	0 91	0 00·5	0 06	50 சு. காசி நாடார்.
	4B	-4பர	ர	பு	...	8-5	7	0 91	0 00·5	0 06	50 சு. காசி நாடார்.
	4C	-4பர	ர	பு	...	8-5	7	0 91	0 76·5	0 57	50 சு. காசி நாடார்.
	5A	-5பர	ர	பு	...	8-5	7	0 91	0 14·5	0 12	122 த. சீனி நாடார்.
	5B	-5பர	ர	பு	...	8-5	7	0 91	0 09·0	0 08	87 மா. சங்கரப்பு நாடார்.
	5C	-5பர	ர	பு	...	8-5	7	0 91	0 07·0	0 06	131 மா. கடலை முத்து.
	5D	-5பர	ர	பு	...	8-5	7	0 91	0 01·0	0 06	17 மா. ஆதிமூலம் நாடார்.
	5E	-5பர	ர	பு	...	8-5	7	0 91	0 03·0	0 06	408 மா. ஆதி மூலம்(1), த. சீனி நாடார்(2)).
	5F	-5பர	ர	பு	...	8-5	7	0 91	0 07·5	0 06	17 மா. ஆதிமூலம் நாடார்.
	5G	-5பர	ர	பு	...	8-5	7	0 91	0 06·0	0 06	234 மா. நாகமணி நாடார்.
	5H	-5பர	ர	பு	...	8-5	7	0 91	0 24·5	0 19	122 த. சீனி நாடார்.
	6A	-6பர	ர	பு	...	8-5	7	0 91	0 21·5	0 19	504 த. சுப்பையா நாடார்(1), வெ. பாண்டி நாடார்(2), அருணாசலம் நாடார்(3).

நிலையில் வண்டிப் பாதை.

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1	2	3	4	5	6	7	8	9	10		12
							ஏ. ஏ. ஹெ.-ஏர்ஸ்.		ஏ. ஏ.		
147	11B	147-11B பா	ச	பு	...	8-5	7	0 91	0 01·5	0 06	504 த. சுப்பையா நாடார் (1), வெள்ளப்பாண்டி நாடார் (2), அருணாசல நாடார் (3).	நிலையில் வண்டிப் பாதை.
	11C	-11பா	ச	பு	...	8-5	7	0 91	0 01·5	0 06	504 த. சுப்பையா நாடார் (1), வெள்ளப்பாண்டி நாடார் (2), அருணாசல நாடார் (3).	
									6 06·0	5 46		
148	1.	148-I	ச	பு	...	8-5	7	0 91	0 99·0	0 94	34 சு. உமையாள்.	
	2A1	-2A1பா	ச	பு	...	8-5	7	0 91	0 57·0	0 52	275 அ. பூவையா நாடார்.	
	2A2	-2A2பா	ச	பு	...	8-5	7	0 91	0 61·0	0 56	57 அ. குட்டி நாடார்.	
	2A3	-2A3பா	ச	பு	...	8-5	7	0 91	0 70·0	0 67	257 அ. பூனையா நாடார்.	
	2B	-2B	ச	பு	...	8-5	7	0 91	2 40·0	2 25	335 இ. முத்து மாலையம்மாள்.	சதுரக்கிண
									5 27·0	4 94		
149	1.	149-பா	ச	பு	...	8-5	7	0 91	0 06·0	0 06	128 இ. சீதாள்.	
	2	-பா	ச	பு	...	8-5	7	0 91	0 02·5	0 06	120 இ. சீதாள்.	நிலையில் வண்டிப் பாதை.
	3	-பா	ச	பு	...	8-5	7	0 91	0 52·0	0 47	128 இ. சீதாள்.	
	4	-பா	ச	பு	...	8-5	7	0 91	0 60·0	0 56	389 பூ. வெள்ளைச் சாமி நாடார்.	
	5	-பா	ச	பு	...	8-5	7	0 91	0 41·0	0 37	417 வை. அய்யணம் மாள் (1), வை. சுப்பையா நாடார் (2).	
	6	-பா	ச	பு	...	8-5	7	0 91	0 34·0	0 31	44 இ. கனக கோட்டி நாடார்.	
	7	-பா	ச	பு	...	8-5	7	0 91	0 46·5	0 42	333 க. முத்துமாலை நாடார்.	
									2 42·0	2 25		

ANNEXURE-7

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TEST REPORT

Report No.	SARL/25/3517	Report Date.	17.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3517	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	04.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	61.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	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
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3518	Report Date.	17.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3518	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	04.03.2025	Test Completed on	17.03.2025
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	$\mu g/m^3$	41.2	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	$\mu g/m^3$	4.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3519	Report Date.	17.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-2519	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	05.03.2025	Test Completed on	17.03.2025
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	$\mu g/m^3$	66.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/3520	Report Date.	17.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3520	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	05.03.2025	Test Completed on	17.03.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	37.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	17.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.8	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/25/3521	Report Date.	17.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3521	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	06.03.2025	Test Completed on	17.03.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.8	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	$\mu g/m^3$	5.1	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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TEST REPORT

Report No.	SARL/25/3522	Report Date.	17.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3522	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	06.03.2025	Test Completed on	17.03.2025
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	$\mu g/m^3$	52.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/36523	Report Date.	17.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3523	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	07.03.2025	Test Completed on	17.03.2025
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	$\mu g/m^3$	52.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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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TEST REPORT

Report No.	SARL/25/3524	Report Date.	17.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3524	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	07.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3525	Report Date.	17.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3525	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	08.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	µg/m^3	41.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	µg/m^3	19.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	µg/m^3	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	µg/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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TEST REPORT

Report No.	SARL/25/3526	Report Date.	17.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3526	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	08.03.2025	Test Completed on	17.03.2025
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	$\mu g/m^3$	52.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3527	Report Date.	17.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3527	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	08.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3528	Report Date.	17.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3528	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	09.03.2025	Test Completed on	17.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	39.1	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	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	5.9	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
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3529	Report Date.	17.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3529	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	09.03.2025	Test Completed on	17.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.0	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	$\mu g/m^3$	7.1	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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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3530	Report Date.	17.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3530	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	09.03.2025	Test Completed on	17.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	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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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3559	Report Date.	24.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3559	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.1	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	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3560	Report Date.	24.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3560	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.1	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	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3561	Report Date.	24.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3561	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	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/25/3562	Report Date.	24.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3562	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	12.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	40.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	18.3	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	$\mu g/m^3$	6.3	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/25/3563	Report Date.	24.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3563	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	12.03.2025	Test Completed on	24.03.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3564	Report Date.	24.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3564	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	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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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3565	Report Date.	24.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3565	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	13.03.2025	Test Completed on	24.03.2025
Temperature	37°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	$\mu g/m^3$	26.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	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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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3566	Report Date.	24.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3566	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	13.03.2025	Test Completed on	24.03.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3567	Report Date.	24.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3567	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	14.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.2	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	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3568	Report Date.	24.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3568	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	14.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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/25/3569	Report Date.	24.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3569	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	15.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	68.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	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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TEST REPORT

Report No.	SARL/25/3570	Report Date.	24.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3570	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	15.03.2025	Test Completed on	24.03.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.7	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	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.8	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/25/3571	Report Date.	24.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3571	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	16.03.2025	Test Completed on	24.03.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	63.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3572	Report Date.	24.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3572	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	16.03.2025	Test Completed on	24.03.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	40.6	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	$\mu g/m^3$	3.9	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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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3601	Report Date.	31.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3601	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	18.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	67.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	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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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3602	Report Date.	31.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3602	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	18.03.2025	Test Completed on	31.03.2025
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	$\mu g/m^3$	37.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	17.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.3	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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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3603	Report Date.	31.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3603	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	19.03.2025	Test Completed on	31.03.2025
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	$\mu g/m^3$	62.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	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

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3604	Report Date.	31.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3604	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	19.03.2025	Test Completed on	31.03.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	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	$\mu g/m^3$	4.4	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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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3605	Report Date.	31.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3605	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	20.03.2025	Test Completed on	31.03.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	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/25/3606	Report Date.	31.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3606	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	20.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3607	Report Date.	31.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3607	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	21.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.2	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	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3608	Report Date.	31.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3608	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	21.03.2025	Test Completed on	31.03.2025
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	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	$\mu g/m^3$	6.5	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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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3609	Report Date.	31.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3609	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	22.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	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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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3610	Report Date.	31.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3610	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	22.03.2025	Test Completed on	31.03.2025
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	$\mu g/m^3$	56.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3611	Report Date.	31.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3611	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	22.03.2025	Test Completed on	31.03.2025
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	$\mu g/m^3$	50.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	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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TEST REPORT

Report No.	SARL/25/3612	Report Date.	31.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3612	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	23.03.2025	Test Completed on	31.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	39.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	18.2	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	$\mu g/m^3$	6.1	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/25/3613	Report Date.	31.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3613	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	23.03.2025	Test Completed on	31.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.0	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	$\mu g/m^3$	6.5	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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TEST REPORT

Report No.	SARL/25/3614	Report Date.	31.03.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3614	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	23.03.2025	Test Completed on	31.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	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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TEST REPORT

Report No.	SARL/25/3643	Report Date.	07.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3643	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	25.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	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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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3644	Report Date.	07.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3644	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	25.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	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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TEST REPORT

Report No.	SARL/25/3645	Report Date.	07.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3645	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	25.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3646	Report Date.	07.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3646	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	26.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	40.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	18.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	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

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3647	Report Date.	07.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3647	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	26.03.2025	Test Completed on	07.04.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.6	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	$\mu g/m^3$	6.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3648	Report Date.	07.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3648	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	26.03.2025	Test Completed on	07.04.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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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TEST REPORT

Report No.	SARL/25/3649	Report Date.	07.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3649	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	27.03.2025	Test Completed on	07.04.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	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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TEST REPORT

Report No.	SARL/25/3650	Report Date.	07.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3650	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	27.03.2025	Test Completed on	07.04.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	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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TEST REPORT

Report No.	SARL/25/3651	Report Date.	07.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3651	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	28.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	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/25/3652	Report Date.	07.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3652	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	28.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.6	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	$\mu g/m^3$	6.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3653	Report Date.	07.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3653	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	29.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	69.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3654	Report Date.	07.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3654	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	29.03.2025	Test Completed on	07.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	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/25/3655	Report Date.	07.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3655	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	30.03.2025	Test Completed on	07.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	64	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	$\mu g/m^3$	6.1	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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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3656	Report Date.	07.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3656	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	30.03.2025	Test Completed on	07.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	38.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	17.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.8	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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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3685	Report Date.	14.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3685	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	01.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	71.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	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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TEST REPORT

Report No.	SARL/25/3686	Report Date.	14.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3686	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	01.04.2025	Test Completed on	14.04.2025
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	$\mu g/m^3$	40.1	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	$\mu g/m^3$	4.0	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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TEST REPORT

Report No.	SARL/25/3687	Report Date.	14.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3687	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	02.04.2025	Test Completed on	14.04.2025
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	$\mu g/m^3$	65.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	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/25/3688	Report Date.	14.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3688	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	02.04.2025	Test Completed on	14.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	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	$\mu g/m^3$	4.8	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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TEST REPORT

Report No.	SARL/25/3689	Report Date.	14.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3689	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	03.04.2025	Test Completed on	14.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	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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TEST REPORT

Report No.	SARL/25/3690	Report Date.	14.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3690	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	03.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.7	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	$\mu g/m^3$	7.3	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/25/3691	Report Date.	14.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3691	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	04.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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/25/3692	Report Date.	14.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3692	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	04.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3693	Report Date.	14.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3693	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	05.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3694	Report Date.	14.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3694	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	05.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.7	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	$\mu g/m^3$	7.3	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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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3695	Report Date.	14.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3695	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	05.04.2025	Test Completed on	14.04.2025
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	$\mu g/m^3$	60.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.1	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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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3696	Report Date.	14.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3696	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	06.04.2025	Test Completed on	14.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.7	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	$\mu g/m^3$	6.3	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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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3697	Report Date.	14.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3697	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	06.04.2025	Test Completed on	14.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3698	Report Date.	14.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3698	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	06.04.2025	Test Completed on	14.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.3	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	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/25/3727	Report Date.	21.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3729	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	08.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3728	Report Date.	21.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3728	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	08.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3729	Report Date.	21.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3729	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	08.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	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	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3730	Report Date.	21.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3730	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	09.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	40.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	18.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.8	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
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3731	Report Date.	21.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3731	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	09.04.2025	Test Completed on	21.04.2025
Temperature	37°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	$\mu g/m^3$	57.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3732	Report Date.	21.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3732	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	09.04.2025	Test Completed on	21.04.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	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/25/3733	Report Date.	21.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3733	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	10.04.2025	Test Completed on	21.04.2025
Temperature	37°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	$\mu g/m^3$	7.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/3734	Report Date.	21.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3734	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	10.04.2025	Test Completed on	21.04.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3735	Report Date.	21.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3735	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	11.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.3	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	$\mu g/m^3$	9.2	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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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3736	Report Date.	21.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3736	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	11.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3737	Report Date.	21.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3737	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	12.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	76.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	35.3	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	$\mu g/m^3$	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3738	Report Date.	21.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3738	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	12.04.2025	Test Completed on	21.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	38.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	17.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.6	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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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3739	Report Date.	21.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3741	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	13.04.2025	Test Completed on	21.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	79.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	36.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3740	Report Date.	21.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3740	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	13.04.2025	Test Completed on	21.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	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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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3769	Report Date.	28.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3769	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	15.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	74.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	34.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

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

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S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/3770	Report Date.	28.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3770	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	15.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.2	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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TEST REPORT

Report No.	SARL/25/3771	Report Date.	28.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3771	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	16.04.2025	Test Completed on	28.04.2025
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	$\mu g/m^3$	82	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	37.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	11.4	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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TEST REPORT

Report No.	SARL/25/3772	Report Date.	28.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3772	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	16.04.2025	Test Completed on	28.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	39.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	18.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.7	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/25/3773	Report Date.	28.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3773	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	17.04.2025	Test Completed on	28.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	65.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3774	Report Date.	28.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3774	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	17.04.2025	Test Completed on	28.04.2025
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	$\mu g/m^3$	60.6	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	$\mu g/m^3$	8.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3775	Report Date.	28.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3775	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	18.04.2025	Test Completed on	28.04.2025
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	$\mu g/m^3$	63.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3776	Report Date.	28.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3776	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	18.04.2025	Test Completed on	28.04.2025
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	$\mu g/m^3$	66.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3777	Report Date.	28.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3777	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	19.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.5	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	$\mu g/m^3$	8.6	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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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3778	Report Date.	28.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3778	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	19.04.2025	Test Completed on	28.04.2025
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	$\mu g/m^3$	60.6	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	$\mu g/m^3$	8.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3779	Report Date.	28.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3779	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	19.04.2025	Test Completed on	28.04.2025
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	$\mu g/m^3$	31.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3780	Report Date.	28.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3780	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	20.04.2025	Test Completed on	28.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.3	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	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3781	Report Date.	28.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3781	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	20.04.2025	Test Completed on	28.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	66.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3782	Report Date.	28.04.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3782	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	20.04.2025	Test Completed on	28.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	64.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3810	Report Date.	05.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3810	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	22.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.3	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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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3811	Report Date.	05.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3811	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	22.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	62.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3812	Report Date.	05.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3812	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	22.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	61.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3813	Report Date.	05.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3813	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	23.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	41.1	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	$\mu g/m^3$	5.4	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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S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/3814	Report Date.	05.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3814	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	23.04.2025	Test Completed on	05.05.2025
Temperature	37°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	$\mu g/m^3$	58.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3815	Report Date.	05.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3815	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	23.04.2025	Test Completed on	05.05.2025
Temperature	37°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	$\mu g/m^3$	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	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3816	Report Date.	05.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3816	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	24.04.2025	Test Completed on	05.05.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.2	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/25/3817	Report Date.	05.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3817	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	24.04.2025	Test Completed on	05.05.2025
Temperature	37°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	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.1	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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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3818	Report Date.	05.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3818	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	25.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3819	Report Date.	05.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3819	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	25.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.1	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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TEST REPORT

Report No.	SARL/25/3820	Report Date.	05.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3820	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	26.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	78.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	36.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3821	Report Date.	05.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3821	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	26.04.2025	Test Completed on	05.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3822	Report Date.	05.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-32822	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	27.04.2025	Test Completed on	05.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	73.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	34.0	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	$\mu g/m^3$	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/25/3823	Report Date.	05.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3823	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	27.04.2025	Test Completed on	05.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	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/25/3894	Report Date.	19.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3894	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	06.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.4	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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TEST REPORT

Report No.	SARL/25/3895	Report Date.	19.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3895	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	06.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	64.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/25/3896	Report Date.	19.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3896	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	06.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	63.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3897	Report Date.	19.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3897	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	07.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.3	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	$\mu g/m^3$	6.0	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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TEST REPORT

Report No.	SARL/25/3898	Report Date.	19.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3898	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	07.05.2025	Test Completed on	19.05.2025
Temperature	37°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	$\mu g/m^3$	65.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3899	Report Date.	19.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3899	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	07.05.2025	Test Completed on	19.05.2025
Temperature	37°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	$\mu g/m^3$	60.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	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
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3900	Report Date.	19.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3900	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	08.05.2025	Test Completed on	19.05.2025
Temperature	37°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	$\mu g/m^3$	62.4	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	$\mu g/m^3$	8.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3901	Report Date.	19.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3901	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	08.05.2025	Test Completed on	19.05.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	64.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/25/3902	Report Date.	19.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3902	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	09.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3903	Report Date.	19.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3903	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	09.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	65.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3904	Report Date.	19.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3904	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	10.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	80.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	36.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3905	Report Date.	19.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3905	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	10.05.2025	Test Completed on	19.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.2	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	$\mu g/m^3$	4.9	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/25/3906	Report Date.	19.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3906	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	11.05.2025	Test Completed on	19.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	75.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	34.8	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	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3907	Report Date.	19.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3907	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	11.05.2025	Test Completed on	19.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3936	Report Date.	26.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3936	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	13.05.2025	Test Completed on	26.05.2025
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	$\mu g/m^3$	72.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	33.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3937	Report Date.	26.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3937	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	13.05.2025	Test Completed on	26.05.2025
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	$\mu g/m^3$	22.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	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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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3938	Report Date.	26.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-3938	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	14.05.2025	Test Completed on	26.05.2025
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	$\mu g/m^3$	73.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	33.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.3	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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Shrient Analytical & Research Labs Pvt Ltd Chennai - 45

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3939	Report Date.	26.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3939	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	14.05.2025	Test Completed on	26.05.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	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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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3940	Report Date.	26.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3940	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	15.05.2025	Test Completed on	26.05.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3941	Report Date.	26.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3941	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	15.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.2	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	$\mu g/m^3$	8.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3942	Report Date.	26.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3942	Sample Received on	19.05.2025
Sample Collected by	02.05.2025	Test Commenced on	19.05.2025
Sample Collected on	16.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.4	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	$\mu g/m^3$	6.5	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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TEST REPORT

Report No.	SARL/25/3943	Report Date.	26.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3943	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	16.05.2025	Test Completed on	26.05.2025
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	$\mu g/m^3$	57.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3944	Report Date.	26.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3944	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	17.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	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	$\mu g/m^3$	7.6	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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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3945	Report Date.	26.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3945	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	17.05.2025	Test Completed on	26.05.2025
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	$\mu g/m^3$	59.2	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	$\mu g/m^3$	8.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3946	Report Date.	26.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3946	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	17.05.2025	Test Completed on	26.05.2025
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	$\mu g/m^3$	59.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3947	Report Date.	26.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3947	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	18.05.2025	Test Completed on	26.05.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.3	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	$\mu g/m^3$	9.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/3948	Report Date.	26.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3948	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	18.05.2025	Test Completed on	26.05.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/3949	Report Date.	26.05.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-3949	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	18.05.2025	Test Completed on	26.05.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.6	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	$\mu g/m^3$	6.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/4014	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-4014	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	20.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.8	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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TEST REPORT

Report No.	SARL/25/4015	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-4015	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	20.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	67.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	10.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/25/4016	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-4016	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	20.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	64.7	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	$\mu g/m^3$	9.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/4017	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Udayampuli
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-4017	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	21.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.3	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	$\mu g/m^3$	8.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/4018	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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 -Alangulam
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-4018	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	21.05.2025	Test Completed on	02.06.2025
Temperature	37°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	$\mu g/m^3$	63.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/4019	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Odaimarichan
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-4019	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	21.05.2025	Test Completed on	02.06.2025
Temperature	37°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	$\mu g/m^3$	62.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/4020	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-4020	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	22.05.2025	Test Completed on	02.06.2025
Temperature	37°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	$\mu g/m^3$	63.8	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	$\mu g/m^3$	9.1	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 (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/25/4021	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-4021	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	22.05.2025	Test Completed on	02.06.2025
Temperature	37°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	$\mu g/m^3$	67.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	10.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/25/4022	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Keela Karampuliyuthu
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-4022	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	23.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	61.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/4023	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Maruthamputhur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-4023	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	23.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	63.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/4024	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-4024	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	24.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	81.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	37.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	10.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/4025	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-4025	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	24.05.2025	Test Completed on	02.06.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.4	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	$\mu g/m^3$	4.5	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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TEST REPORT

Report No.	SARL/25/4026	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-4026	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	77.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	35.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	9.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/4027	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, 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-Kandapatti
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-4027	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

.

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/4028	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State
Sample Description	WATER
Sample Mark	GW 1 - Within Mine Lease area

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-4028	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
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**	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	**7.96**	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	**849.2**	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	**522**	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	**272**	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	**45.5**	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	**38**	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	**114**	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	**158**	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	**335**	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	**112**	1000

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TEST REPORT

Report No.	SARL/25/4028

Report Date.	02.06.2025

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	**73.6**	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	**0.05**	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	**1.85**	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	**0.63**	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
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/4029	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State
Sample Description	WATER
Sample Mark	GW 2 - Kandapatti

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-4029	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
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**	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	**7.56**	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	**1217**	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	**735**	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	**492**	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	**106**	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	**54.5**	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	**265**	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	**227**	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	**286**	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	**210**	1000

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TEST REPORT

Report No.	SARL/25/4029

Report Date.	02.06.2025

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	**116**	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	**2.28**	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	**0.59**	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	**BDL (D.L - 0.05)**	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/4030	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State
Sample Description	WATER
Sample Mark	GW 3 - Keela Karampuliyuthu

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-4030	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
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**	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	**7.94**	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	**1016**	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	**618**	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	**142**	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	**27.4**	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	**17.6**	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	**68.5**	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	**73.5**	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	**193**	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	**232**	1000

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TEST REPORT

Report No.	SARL/25/4030

Report Date.	02.06.2025

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	**182**	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	**0.03**	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	**2.44**	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	**0.47**	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	**BDL (D.L - 0.05)**	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/4031	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State
Sample Description	WATER
Sample Mark	GW 4 - Maruthamputhur

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-4031	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
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	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	8.02	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	720.4	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	436	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	216	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	48	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	23	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	120	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	96	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	212	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	126	1000

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TEST REPORT

Report No.	SARL/25/4031

Report Date.	02.06.2025

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	**49.8**	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	**0.05**	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	**BDL (D.L - 1.0)**	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	**0.44**	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	**BDL (D.L - 0.05)**	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/4032	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State
Sample Description	WATER
Sample Mark	GW 5- Udayampuli

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-4032	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
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**	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	**7.55**	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	**821.8**	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	**498**	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	**276**	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	**69.6**	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	**24.5**	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	**174**	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	**102**	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	**235**	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	**144**	1000

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TEST REPORT

Report No.	SARL/25/4032

Report Date.	02.06.2025

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	**52.3**	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	**0.04**	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	**BDL (D.L - 1.0)**	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	**0.56**	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	**BDL (D.L - 0.05)**	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/4033	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State
Sample Description	WATER
Sample Mark	GW 6- Alangulam

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-4033	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
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**	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	**7.52**	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	**1515**	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	**910**	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	**230**	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	**42.0**	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	**30.1**	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	**105**	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	**125**	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	**390**	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	**315**	1000

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TEST REPORT

Report No.	SARL/25/4033

Report Date.	02.06.2025

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	**270**	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	**0.07**	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	**4.56**	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	**0.49**	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	**BDL (D.L - 0.05)**	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/4034

Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State
Sample Description	WATER
Sample Mark	GW 7- Odaimarichan

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-4034	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
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**	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	**7.36**	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	**1211**	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	**730**	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	**392**	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	**85.6**	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	**42.7**	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	**214**	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	**178**	-
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	**257**	1000

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TEST REPORT

Report No.	SARL/25/4034

Report Date.	02.06.2025

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	**214**	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	**0.03**	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	**4.05**	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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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/4038	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi 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-4038	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	8.94
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	46.65
3	Dry matter content	IS 15106: 2002	%	44.41
4	Water Content	IS 15106: 2002	%	8.94
5	Organic Matter	IS 2720: Part 22: 1972	%	46.5
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	92.5
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	%	8.94
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	46.65
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	44.41
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.2
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	422.0
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	340
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	18.9
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	34

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/4039	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	A2-Kandapatti

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-4039	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.96
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	181.2
3	Dry matter content	IS 15106: 2002	%	95.82
4	Water Content	IS 15106: 2002	%	4.18
5	Organic Matter	IS 2720: Part 22: 1972	%	0.98
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	292
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	%	13.36
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	47.98
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	38.66
9	Phosphorus as P	IS 10158: 1982	mg/kg	2.1
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	1055
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	897
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	18.9
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	35

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/4040	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	A3-Keela Karampuliyuthu

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-4040	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.22
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	79.25
3	Dry matter content	IS 15106: 2002	%	96.47
4	Water Content	IS 15106: 2002	%	3.53
5	Organic Matter	IS 2720: Part 22: 1972	%	0.58
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	344.0
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	%	24.45
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	68.24
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	7.31
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.4
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	596.0
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	248.0
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	%	18.3
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	38

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/4041	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	A4-Maruthamputhur

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-4041	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.14
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	21.94
3	Dry matter content	IS 15106: 2002	%	96.58
4	Water Content	IS 15106: 2002	%	3.42
5	Organic Matter	IS 2720: Part 22: 1972	%	0.79
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	123.0
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	%	29.54
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	53.21
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	17.25
9	Phosphorus as P	IS 10158: 1982	mg/kg	3.2
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	212
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	138
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	19.4
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	40

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/4042	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	A5-Udayampuli

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-4042	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.72
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	92.21
3	Dry matter content	IS 15106: 2002	%	95.24
4	Water Content	IS 15106: 2002	%	4.76
5	Organic Matter	IS 2720: Part 22: 1972	%	1.30
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	252.0
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	%	33.20
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	49.22
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	17.58
9	Phosphorus as P	IS 10158: 1982	mg/kg	2.5
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	403.0
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	290.0
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	%	17.5
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	36

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For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/4043	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	A6 -Alangulam

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-4043	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.05
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	192.5
3	Dry matter content	IS 15106: 2002	%	96.35
4	Water Content	IS 15106: 2002	%	3.65
5	Organic Matter	IS 2720: Part 22: 1972	%	1.12
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	264
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty clay Loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	14.25
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	48.56
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	37.19
9	Phosphorus as P	IS 10158: 1982	mg/kg	2.9
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	1100
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	896
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

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/4044	Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	A7-Odaimarichan

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-4044	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.89
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	110.3
3	Dry matter content	IS 15106: 2002	%	96.78
4	Water Content	IS 15106: 2002	%	3.22
5	Organic Matter	IS 2720: Part 22: 1972	%	1.45
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	314.0
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	%	33.99
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	48.25
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	17.76
9	Phosphorus as P	IS 10158: 1982	mg/kg	2.7
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	426.0
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	310.0
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	18.9
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	44

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

END OF THE REPORT

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TEST REPORT

Report No.	SARL/25/4045

Report Date.	02.06.2025

Customer Name & Address	Rough Stone & Gravel Quarry Of Thiru.K.Prasadraju Over An Extent Of 5.99.05 hectares Of Maruthamputhur Part-1 And Maruthamputhur Part-2 Village, Alangulam Taluk, Tenkasi District, Tamil Nadu State
Sample Description	NOISE LEVEL DATA

Customer Reference	As per work order	Sampling Method	SARL/IOP/023
Sample Reference No	SARL/NO/CHE-4045	Date of Monitoring	24.03.2025/ 25.03.2025
Sample Collected by	LABORATORY		

Time in hrs	N1	N2	N3	N4	N5	N6	N7
06.00	43.1	40.2	42.6	43.6	42.1	40.9	43.5
07.00	45.9	41.0	44.6	45.9	39.8	48.4	51.5
08.00	54.1	46.2	44.4	46.1	43.1	52.5	50.4
09.00	51.1	51.1	42.3	50.5	43.9	54.0	52.1
10.00	48.9	50.8	40.5	48.3	51.5	51.4	44.5
11.00	52.0	49.4	40.2	47.7	50.6	54.5	47.9
12.00	49.7	47.6	44.0	46.6	47.4	48.8	49.1
13.00	52.0	47.4	44.7	44.8	48.2	49.7	47.4
14.00	51.0	48.7	47.1	46.6	53.8	52.8	50.4
15.00	51.3	47.8	53.2	48.7	53.6	52.0	46.7
16.00	52.3	50.7	45.4	46.4	52.5	50.9	48.0
17.00	52.5	51.2	46.4	48.5	52.2	46.0	49.5
18.00	52.3	52.3	44.9	44.4	50.1	43.9	48.4
19.00	50.1	47.3	43.6	50.8	46.7	43.2	46.0
20.00	49.9	46.6	45.5	43.7	45.9	42.0	43.5
21.00	48.1	44.4	45.0	42.6	44.2	43.9	41.5
22.00	46.4	40.4	44.5	41.5	45.7	40.1	39.6
23.00	43.5	39.5	44.9	39.9	43.7	38.7	40.1
24.00	41.1	40.5	44.8	41.0	41.5	40.9	40.8
01.00	39.2	39.2	42.0	40.0	43.1	39.3	39.7
02.00	39.5	39.4	40.6	38.9	42.0	40.1	41.1
03.00	42.3	40.1	39.9	41.2	41.1	41.4	40.2
04.00	41.0	40.8	38.2	42.0	40.3	39.3	40.4
05.00	39.3	41.1	37.9	43.3	39.8	43.0	41.2

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TEST REPORT

Report No.	SARL/25/4045

Report Date.	02.06.2025

	N1	N2	N3	N4	N5	N6	N7
DAY EQUIVALENT	**50.9**	**48.7**	**45.9**	**47.2**	**49.6**	**50.3**	**48.0**
NIGHT EQUIVALENT	**42.2**	**40.2**	**42.4**	**41.2**	**42.6**	**40.6**	**40.0**
DAY & NIGHT EQUIVALENT	**49.4**	**47.3**	**45.0**	**46.0**	**48.3**	**48.7**	**46.6**

Remarks:

LOCATIONS:

N1-Within Mine Lease area
N2-Kandapatti
N3-Keela Karampuliyuthu
N4-Maruthamputhur
N5-Udayampuli
N6-Alangulam
N7-Odaimarichan

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd Chennai - 45

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

*****END OF THE REPORT*****

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ANNEXURE-8

National Accreditation Board for Testing and Calibration Laboratories

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: 30/09/2023 **Valid Until:** 29/09/2025

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 this laboratory, 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

N. Venkateswaran
Chief Executive Officer