

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

(Public Hearing Upgraded after Terms of Reference (ToR) as per the provisions of
EIA Notification 2006 & amendments thereof)

ToR Identification No. TO25B0108TN5219111N (F. No. 12205), dated 16.07.2025

PROPOSED QUARRY LEASE DETAILS	
SURVEY NOS	511/1, 511/2 & 512/2
VILLAGE	KUPPAM
TALUK	PUGALUR
DISTRICT	KARUR
EXTENT	3.45.53 ha
CLUSTER EXTENT	7.91.53 ha
MINEABLE RESERVES (upto 62m BGL)	ROUGH STONE: 720246 Cu.m GRAVEL: 18264 Cu.m
PROPOSED PRODUCTION QUANTITY FOR FIRST FIVE YEARS (upto 62m BGL)	ROUGH STONE: 720246 Cu.m GRAVEL: 18264 Cu.m
LAND	PATTA LAND

(Sector No. 1(a) Sector No.1 as per NABET)

Category of the Project: B1 Cluster Mining, Total Cluster Area – 7.91.53 Ha

Baseline Monitoring Period – March 2025 to May 2025

APPLICANT

**Tvl. Mahaganapathi Blue Metal,
Survey No.510/1, Arasampalayam,
Kuppam Post, Pugalur Taluk,
Karur District**

ENVIRONMENTAL CONSULTANT	LABORATORY
M/s. GLOBAL MINING SOLUTIONS <i>(NABET Accredited & ISO 9001 Certified Consultant)</i> 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 <i>Valid up to: 04.01.2026</i> Contact: 97502 23535 & 94446 54520 Email: infoglobalmining@gmail.com, globalminingsolutionssalem@gmail.com	M/s. SHRIENT ANALYTICAL & RESEARCH LABS PRIVATE LIMITED <i>(NABL Accredited Testing Laboratory)</i> <i>Valid up to: 29.09.2025</i> #416/15, Dhargas Road, Perungalathur, West Tambaram, Chennai, Tamil Nadu, India.



SEPTEMBER - 2025



AMENDMENT PAGE

SL	Page No.	Section / Clause / Para / Line (as Applicable)	Date of Amendment	Amendment Made	Reasons of amendment	Signature of Person Authorizing Amendment
1						
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ACKNOWLEDGEMENT

M/s. Global Mining Solutions, Salem is very much thankful Tvl. Mahaganapathi Blue Metal, 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 3.45.53 Ha., & Cluster extent of 7.91.53 Ha., located at Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State and formulating the Environmental Management Plan (EMP). We also gratefully acknowledge the cooperation and assistance provided by concerned government authorities for collection of secondary information for the preparation of Draft EIA/EMP report. Our sincere thanks to the local people of Kuppam 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



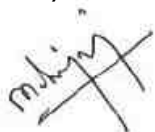
(M. Prabu)

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 3.45.53 Ha & Cluster extent of 7.91.53 Ha., located at Punnam Village, Pugalur Taluk, Karur District, Tamil Nadu State.

For: M/s. Global Mining Solutions



Name: M.Manikandan

EIA Coordinator – Mining

UNDERTAKING

In Line with OM no. J-11013/41/2006-IA.II (1) dated 4th Aug 2009 and its Amendments, we hereby confirm that all Terms of Reference issued by Ministry of Environment, Forest and Climate Change vide ToR Identification No. TO25B0108TN5219111N (F.No.12205), dated 16.07.2025 of Draft EIA/EMP report for the proposed Stone Quarry over a lease extent of 3.45.53 Ha., & Cluster extent of 7.91.53 Ha., located at Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu Stat for the proposed production for first five years is 62m (Below Ground Level) 720246 m3 of Rough Stone and 18264 m3 of Gravel formation from the proposed lease area and the details has been complied in the Draft EIA/EMP report is factually correct.

The EIA/EMP report has been prepared by M/s. Global Mining Solutions (GMS), Salem. GMS is a NABET accredited consultant for preparation of EIA/EMP report of Mining of Minerals (Opencast only) vide certificate No. NABET/EIA/2326/SA 0241, valid till 04.01.2026.

For: M/s. Global Mining Solutions


Name: M.Manikandan

EIA Coordinator – Mining



National Accreditation Board for Education and Training

Certificate of Accreditation

Global Mining Solutions

Plot No - 6 SF No 13/2 A2, VS City, RC Chettyapatty, 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



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

Issue Date
May 30, 2025

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 Stone Quarry over a lease extent of 3.45.53 Ha. & Cluster extent of 7.91.53 Ha in Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State.

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

EIA Coordinator Name: M. Manikandan



Signature & Date

Period of involvement: 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

PROPOSED ROUGH STONE AND GRAVEL QUARRY OF TVL. MAHAGANAPATHI BLUE METAL AT S.F.NOS.511/1, 511/2 AND 512/2 OVER AN EXTENT OF 3.45.53 HA IN KUPPAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE

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. <u>Period: March 2025 to May 2025.</u>	R. Dhanalakshmi
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. <u>Period: March 2025 to May 2025</u>	K. Abirami
3	SHW	Ramados N	Assessment of waste generated from the project, suggested waste management practices. <u>Period: March 2025 to May 2025</u>	C. Ramados
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. <u>Period: March 2025 to May 2025</u>	K. Sarasvathy
5	EB	Saravanan S	Baseline data collection of related to ecology of the area. <u>Period: March 2025 to May 2025</u>	S. Saravanan
6	HG	Ravinthiran N	Hydrogeological feature of the area. Ground water depth and impact of project on ground water of the area. <u>Period: March 2025 to May 2025</u>	N. Ravinthiran

PROPOSED ROUGH STONE AND GRAVEL QUARRY OF TVL. MAHAGANAPATHI BLUE METAL AT S.F.NOS.511/1, 511/2 AND 512/2 OVER AN EXTENT OF 3.45.53 HA IN KUPPAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE

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>	T. Srilatha
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>	R. Dhanam
9	LU	Dhanalakshmi Ramanathan	Preparation of land use map based on satellite imagery. Land use classification and analysis. Impact prediction of the project on the surrounding land environment. <u>Period: March 2025 to May 2025</u>	R. Dhanam
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>	S. Prashant
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>	Shisupal Sing
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>	V. Meyyappan

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COMPLIANCE TO **TERMS OF REFERENCE**

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 required statutory personnel, appropriate environmental management, system of maintaining the haul roads and village/panchayat roads, authorized blasting operation, Monitoring system of the environmental & other statutory compliances & its reporting status, etc. The PP shall submit the following details in the form of an Affidavit during the EIA appraisal: (i) Copy of the agreement forming CMC. (ii) The Organisation chart of the Committee with defining the role of the members (iii) The 'Standard Operating Procedures' (SoP) executing the planned activities	There are 3 quarries within a 500-metre radius. The proponent will take the initiative to form a cluster management committee once environmental clearance is obtained for this quarry as well as the other proposed quarry	-
2	The Boundary pillars to be erected as per the mine rules and the evidence should be submitted along with the EIA report.	Agreed. Will be complied	
3	Since waterbody (i.e., canal located at a distance of 250m) is situated nearby, the PP shall carry out the hydrogeological and hydrological study including the details of waterflow pattern to determine the impacts of the mining operation in the waterbodies	Agreed. Will be complied	
4	The details of enumeration of structures including schools, colleges, primary health centres should be submitted along with the EIA report.	It is incorporated in Chapter 3	
5	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	It is incorporated in Chapter 3	

	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.		
6	The proponent shall furnish photographs of adequate fencing, garland drainage built with siltation tank & green belt along the periphery including replantation of existing trees; maintaining the safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.	Agreed. Will be complied	
7	The Proponent shall carry out Bio diversity study as a part of EIA study and the same shall be included in the Report.	Bio-diversity study is incorporated in Chapter 3	
8	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.	Agreed. Will be complied	
9	The PP shall carry out the comprehensive studies on the cumulative environmental impacts of the existing & proposed quarries which included drilling & blasting, loading & hauling on the surrounding village and structures.	The same is incorporated in Chapter 4	
10	For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the existing quarry wall (exists without benches) for spelling out the slope stability action plan with mitigation measures and working methodology , by involving any one of the reputed Research and Academic Institutions such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT Madras, NIT-Dept of Mining Engg, Surathkal, and Dept of Mining Engg., Anna University Chennai, etc. A copy of such scientific study report shall be submitted with an action plan accommodating the inclusion of haul road accessibility with maintaining the proper gradient by ensuring the slope	Noted. Agree to comply	

	stability of the working benches to be constructed and existing quarry wall.		
11	The PP shall install the CCTV camera for the continuous surveillance of mining activity & furnish the photographic/videographic evidence along with the EIA report.	Noted. Will be complied	
2. SEAC Standard Condition			
2.1	Terms of Reference		
1	In the case of existing/operation 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 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.	The applied area is mined by Mr. Ramasamy without EC during the lease period – 13.09.2005 -12.05.2010. the copy of the letter is enclosed as Annexure	-
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 nearest habitation is located at a distance of 1.8 km (NE) and VAO certificate regarding the location of habitations within 300m radius is enclosed as Annexure – 5.	Annexure No-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	50m interval for 300m radius enumeration incorporated chapter 3	87

	the building, number of residents, their profession and income, etc.		
4	The PP shall submit a detailed hydrogeological report indicating the impact of proposed quarrying operations on the water bodies like lake, water tanks, etc are located within 1 km of the proposed quarry.	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.	• There is no Reserve Forest / Sanctuaries located within 10km radius of the study area. • The lease area is a non-forest, Patta land and during the study period, there is no specific Fauna found within ML area. • Study of Biological Environment (Flora and Fauna) and their mitigative measures including Vegetation details are given in section 3.3.6, Chapter-3	106
6	The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries. Tiger reserve etc. upto a radius of 25 km from the proposed site.	There is no Reserve Forest, National Parks, Corridors and Wildlife pathways in the core and buffer zone.	-
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	This is a new quarry. However, a slope stability study will be conducted once the quarry depth reaches 31m BGL.	-

	during the time of appraisal for obtaining the EC.		
8	However, in case of the fresh/virgin quarries, the project 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 30m 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	Agreed. It will be incorporated in the final EIA & EMP.	-
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	Agreed. The PP will use and ensure with controlled blasting techniques using Nonel and by reducing the explosive charge per delay to minimum, so there will be no adverse impact due to blasting and vibration.	-
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.	Agreed.	-
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	Letter obtained from Assistant Director, Geology and Mining, Karur is enclosed as annexure	-
13	What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?	Letter obtained from Assistant Director, Geology and Mining, Karur is enclosed as annexure	-
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.	Letter obtained from Assistant Director, Geology and Mining, Karur is enclosed as annexure	-

	- 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).	Complied. - Project coordinates superimposed in satellite imagery are given as Figure - 2.2, Chapter - 2. - The 10km Radius Index plan showing buffer zone is given as Figure - 3.1, Chapter - 3. - The geology and geomorphology map are provided in Figure - 3.24 & 3.25, Chapter - 3. - The Soil map is provided as Figure - 3.26, Chapter - 3.	59, 84, 122, 124
16	The PP shall carry out Drone video survey covering the cluster, green belt, fencing etc.,	Work in progress. Will be furnished during Final appraisal	-
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 major trees within ML area. Fencing and plantations are under process. Greenbelt / Plantation will be carried out in the safety zone to enhance the vegetative growth and aesthetic in the safety zone area. In the post mining stage, an area of 0.47.73 Ha will be under greenbelt and plantation. Refer section 4.2, chapter-4.	130
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,	The geological reserves are estimated to be 20,07,180 Cu.m of Rough stone and 24,516 Cu.m of Gravel. The mineable reserves of 7,20,246 Cu.m of Rough	56

	environment and the remedial measures for the same.	Stone & 18,264 Cu.m of Gravel are observed.	
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 Figure 10.1	185
20	The Project Proponent shall conduct the 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) 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.	The study is under progress. It will be incorporated in the final EIA & EMP.	-
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.	Baseline data for meteorology, ambient air quality, Water quality, noise level, soil and flora & fauna are collected during March 2025 to May 2025 and detailed in Chapter-3.	84 – 127
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 section 7.3, Chapter - 7. The letter received from Dept. of Geology and Mining, Karur stating the quarries detail within 500m radius is enclosed in Annexure – 4. Accordingly, a detailed Environment Management Plan is prepared considering air, water, noise and soil	165 – 174, Annexure No-4, 181

		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.	- The runoff water during rainy season will be collected in the bottom quarry through proper drainage pattern and the collected water will be used for plantation and dust suppression during dry season. - Rain water harvesting Plan is given in section 4.5 of chapter 4. - The water balance is given in Figure 4.1 of chapter 4.	138, 154
24	Land use of the study area delineating forest area, agricultural land, grazing land. Wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.	Land use pattern of the study area is detailed in Section 3.3.7, Chapter - 3. The anticipated impact on land and its mitigative measure are detailed in Section 4.2, Chapter - 4.	109, 130
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 furnished 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 impact of the mining operations due to this quarry on water environment is studied and mitigation measures are proposed in Section 4.5, Chapter - 4.	150

		Rain water will be diverted into bottom of the project area by constructing drains to store and use for dust suppression and greenbelt development.	
28	Impact on local transport infrastructure due to the Project should be indicated	Since the production is very less, only few trucks of 5/10T will be used for transport. The effect of transport on local transport will be negligible. Refer section 7.3.1, Chapter – 7.	164
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	The details of flora in the core zone and the buffer zone are provided in section 3.3.6 Chapter - 3 There is no standing trees in proposed mine lease area.	107
30	A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific	Complied. Mine Closure Plan has been incorporated in the approved Mining Plan and the same is incorporated in the section 7.7, Chapter – 7. Land use at mine closure stage are given in Table – 2.11 and Figure - 2.11 of Chapter 2.	177, 76-77
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	- Greenbelt/Plantation will be carried out in and around the lease area to enhance the vegetative growth and aesthetic in the area. - In the post mining stage, an area of 0.47.73 Ha of safety zone will be developed with green belt.	80

	trees alternating with shrubs should be planted in a mixed manner.		
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 3 m wide and in between blocks in an organized manner	Accepted. Green belt development work is in progress. Photographs on green belt/plantation will be furnished in Final EIA EMP report.	-
34	A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.	A disaster management plan is prepared and the details are given in section 7.6, Chapter 7.	176
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 section 7.2, Chapter 7.	163
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.	Occupational Health Impacts of the project and preventive measures are detailed under section 4.5.4 of Chapter-4.	152
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- 8.	179
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	Socio economic study is conducted both by visits and secondary data collection. Details are given in section 3.3.8, Chapter 3.	113

	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.	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.	178
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/TNPCCB.	Not applicable. This is a fresh quarry project.	-
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.	A detailed Environmental Management Plan considering entire life has been prepared and are detailed in section 10.6, chapter- 10. The sworn affidavit stating to abide the EMP for the entire life of mine will be submitted in Final EIA EMP report.	181 - 189
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		
3.1	The Authority noted that the subject was placed in the 578 th meeting of SEAC-II held on 13.06.2025. 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 7,20,246 Cu.m of Rough Stone and 18,264m3 of Gravel up to the depth of 62m	Agreed	

	BGL. The annual peak production is 1,44,155m³ of Rough Stone and 18,264m³ 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 conditions mentioned below.		
4.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 one existing and one proposed quarry located within 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.	Environmental policy for the cluster will be framed by the cluster management committee and the policy will be in accordance with EPA Act, 1986 and its amendments, guidelines by MoEF&CC/SEIAA and other regulatory bodies. This policy will be displayed in the quarry.	-
7	The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner.	Agreed. It will be complied as mentioned in the Point No.4	-
8	The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public in the vicinity.		
Agriculture & Agro-Biodiversity			
9	Impact on surrounding agricultural fields around the proposed mining Area.	There are no forest area and traditional practices within the project area. However, there are some agricultural lands around the project site. It may be affected due to the quarry operation as such dust particles sedimentation in the agricultural land. It will be controlled at the source level by proper dust separation as such wet drilling, controlled blasting and water sprinkling on the project roads and project surrounding roads. As per Air Quality Modelling the impact of the air quality limited to 0.5km radius. So, there is no impact for the Agriculture, Forestry, soil located within 10km radius.	-
10	Impact on soil flora & vegetation around the project site.		
11	Details of type of vegetations including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetations all along the boundary of the proposed mining area shall committed mentioned in EMP.	There is no standing trees in proposed mine lease area.	-

12	The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.	Complied. The details are given in section 3.3.6, Chapter- 3 and section 4.2, Chapter 4.	106, 130
13	Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.	The detailed action plan has been described in the EMP (Chapter- 10) for the sustainable management for the project area and its surroundings.	181
14	The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.	Complied. The details are given in, Chapter- 4.	130
Forests			
15	The project proponent shall detailed study on impact of mining on Reserve forests free ranging wildlife.	There is no Reserve Forest located in the core and buffer zone area. The fauna commonly found in the core and buffer zone is given in section 3.3.6., Chapter- 3.	115
16	The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.	Complied. The details are given in section 3.3.6, Chapter- 3	108
17	The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.	Not Applicable. This is a dry barren land.	-
18	The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.	There is no any Reserved Forest located in the core and buffer zone area. There is no, National Parks, Corridors and Wildlife pathways.	-
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	The hydrogeological study from a reputed institute is in progress; The Final EIA EMP report will be incorporated with hydrological studies.	-

	documentation in this regard may be provided, covering the entire mine lease period.		
20	Erosion Control measures.	There is no waste generation (OB) has been envisaged in this quarry. However, there may be erosion due to rainy season and that is limited within quarry area. The control measures are explained in section 4.2 to 4.5 of Chapter- 4.	130 - 154
21	Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas.	Complied. The baseline study details are incorporated in section 3.3, Chapter- 3. Anticipated impacts and its mitigation measures are detailed in section 4.5, Chapter- 4.	85 - 127 150
22	The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.	There is no wastewater generation from this Quarry, so this is not applicable.	-
23	The project proponent shall study and furnish the details on potential fragmentation impact on natural environment, by the activities.	Fragmentation impact on environment may be due to drilling and blasting. The anticipated impacts and mitigation measures are discussed in Chapter- 4.	130 - 154
24	The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts.	- The Flora and Fauna study covering 10 km radius are detailed in section 3.3.6 of chapter- 3. - The impacts anticipated with respect to the environment of the project area is very negligible and it will be minimized within the project area. - Greenbelt / Plantation will be carried out to enhance the vegetative growth and aesthetic in the safety zone area (refer Section 4.2, Chapter- 4).	115 130
25	The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.	The impact of mining on soil environment has been discussed in section 4.3 under Chapter- 4.	136

26	The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.	The anticipated impact and its mitigation measures for Water Environment are detailed in section 4.5 of Chapter- 4.	150
27	The EIA shall include the impact of mining activity on the following: a) Hydrothermal/Geothermal effect due to destruction in the Environment. b) Bio-geochemical processes and its foot prints including environmental stress. c) Sediment geochemistry in the surface streams.	There is no wastewater generation from this Quarry, so this is not applicable.	-
Energy			
28	The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilize the Energy shall be furnished.	Complied. The details are described in section 4.5 chapter- 4.	150
Climate Change			
29	The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities.	- Only the best equipment will be used, and it will be properly and regularly maintained. Regular vehicular emission tests will be conducted on the transport vehicles to ensure minimal carbon emissions. - To further reduce carbon emissions, a good greenbelt has been planned. Refer Section 4.3.6, Chapter- 4.	137
30	The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock, soil health and physical, chemical & biological soil features.		
31	Impact of mining on pollution leading to GHGs emissions and the impact of the same on the local livelihood.		
Mine Closure Plan			
32	Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued.	Complied. Mine Closure Plan has been prepared incorporated in the approved Mining Plan/precise area communication order and the same is incorporated in the Chapters.	177
EMP			

33	Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued and the scope for achieving SDGs.	Complied. The details are described in Chapter- 10.	181
34	The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan.	- Green belt development plan is being planned to develop inside the safety zone area of 0.47.73 Ha with 480 Nos of saplings will be planted - For this capital cost of INR 8.42 Lakhs and recurring cost of INR 14.59 Lakhs 05 year has been earmarked. - The breakup of the total EMP cost is detailed in Table 10.6 of Chapter 10.	186-187
Risk Assessment			
35	To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.	Complied. The details are described in Chapter- 7.	163
Disaster Management Plan			
36	To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities covering the entire mine lease period as per precise area communication order issued.	Complied. The details are described in Chapter- 7.	176
Others			
37	The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc.	There are no historical places, schools, cemeteries, <u>HT and LT lines</u> , 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,	Annexure No-5

		Kuppam village, The letter copy enclosed as Annexure – 5.	
38	As per the MoEF& CC office memorandum F.NO.22-65/2017-1A.11I dated: 30.09.2020 and 20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan.	Noted. It will be complied in the Final EIA/EMP report.	-
39	The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the environment. The ecological risks and impacts of plastic & microplastics on aquatic environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.	Complied. The PP has framed detail solid waste management system for the project area and the same will be executed by proper awareness and sign boards. The sign boards will be in two language i.e., Vernacular language (Tamil) and common language (English). The plastic waste generation is very negligible and it will be collected from the source level in specific dustbin and disposed through the municipal bins.	-

Standard Terms of Reference for (Mining of minerals)

1.1	Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.	Not applicable. This is not a Violation Category Project. This proposal is for Environmental Clearance for B1 Category Cluster Situation.	
1.2	A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.	The copy of LOI i.e. Precise Area Communication Letter in the name of all Lessee is attached as Annexure2,	
1.3	All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management,	Noted & agreed.	

	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/ topo sheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).	Project coordinates superimposed in satellite imagery and given as Figure No – 2.2 in Chapter – 2. The geology and geomorphology map are provided in Figure No.3.24 3.25 Chapter 3.	59,84,122,124
1.5	Information should be provided in Survey of India Topo sheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.	The details are incorporated in chapter 3	84
1.6	Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.	The applied area is inspected by the VAO, Revenue Inspector of Mines, Assistant Director and confirmed the land is suitable for Rough stone quarrying operation with the land use policy of the state. VAO Certificate is attached as Annexure 5 ,	
1.7	It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring 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.	Environment policy details given chapter- 10.	185

1.8	Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.	It is an open cast mining project. Blasting details are incorporated in Chapter-2	73
1.9	The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.	The study area comprise of 10 km zone around the mine lease from. in Chapter 2	
1.10	Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.	Satellite imagery has been used to study the lease area and the details of land use is given in Chapter 3.	88
1.11	Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given	There is no proposal for use of land outside the mine lease area for OB dumps, etc. There are no R&R issues involved in the project.	
1.12	Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the 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.	No forest land involved in the project.	

1.13	Status of forestry clearance for the broken-up area and virgin forestland involved in the Project including deposition of Net Present Value (NPV) and Compensatory Afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.	Not applicable since no forest land involved within mine lease area.	
1.14	Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated	Not applicable since no forest land involved in mine lease area.	
1.15	The vegetation in the RF / PF areas in the study area, with necessary details, should be given.	There is no Reserve Forest / Sanctuaries located within 10km radius of the study area.	83
1.16	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.	Impact on Biological Environment is given in Chapter 3	106
1.17	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.	There is no Reserve Forest / Sanctuaries located within 10km radius of the study area.	83
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	Details biological study (flora & fauna) within 10 km radius of the project site have been incorporated in Chapter 3	106

	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.		
1.19	Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.	There is no critically polluted area within 10 km radius of the mining area. Also, the project does not come under the 'Aravali Range'.	
1.20	Similarly, for Coastal Projects, a CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease with respect to CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).	The project does not fall under CRZ.	
1.21	R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy 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	There is no Rehabilitation and resettlement is involved. Land classified as Patta land	

	shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.		
1.22	One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season); December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given	Baseline environmental monitoring was conducted in the core zone and buffer zone during summer march 2025 to may 2025 . Site specific meteorological data was also collected during the study period. The monitoring location details and the monitoring results are discussed in Chapter 3 .	84
1.23	Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of Vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the 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 modeling was carried out for the rough stone mining project using AERMOD as incorporated in Chapter-4	137
1.24	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.	Water requirement for the project and source are given in detail in Chapter 2	66

1.25	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.	Not Applicable Water will be taken from out sources	
1.26	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.	Proposed water conservation measures including rainwater harvesting measures are discussed in Chapter 4	
1.27	Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.	Impact of the project on the surface and ground water environment and necessary control measures are discussed in Chapter 4	132
1.28	Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.	Hydro Geological Study will be submitted in final EIA	
1.29	Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.	There is no seasonal stream or nallah flowing through the mining area.	
1.30	Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.	Highest elevation: 189 AMSL Depth: 62 m (below from existing ground profile)	
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.	There are no trees within ML area. Fencing and plantations are under process. Greenbelt / Plantation will be carried out in the safety zone to enhance the vegetative growth and aesthetic in the safety zone	

	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.	area. In the post mining stage, an area of 0.47.73 Ha will be under greenbelt and plantation.	
1.32	Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.	Traffic study details in chapter 7	175
1.33	Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.	Details of onsite facilities to be provided	
1.34	Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.	Conceptual Plan and Section of the mine lease area is given in chapter-2	77
1.35	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.	Details of anticipated occupational health impacts and proposed preventive measures are discussed in Chapter 4	152

1.36	Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations	No major impact on public health will be there since the villages are located more than 1km from the lease area.	
1.37	Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.	Details of CER and CSR are discussed under Chapter No. 8	179
1.38	Detailed Environmental Management Plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.	Environmental Management Plan for the project is discussed in detail in Chapter 9 .	
1.39	Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project	The public hearing comments will be submitted during final EIA report	
1.40	Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.	There is no litigation pending against the project.	
1.41	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.	Rs. 133.7418 Lakhs	
1.42	A Disaster management Plan shall be prepared and included in the EIA/EMP Report.	Disaster Management Plan is included in Chapter 7	176
1.43	Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.	The Project benefits are clearly spelt out in Chapter 8 .	178

DRAFT EIA/EMP FOR THE PROPOSED ROUGH STONE AND GRAVEL QUARRY OF TVL. MAHAGANAPATHI BLUE METAL AT S.F.NO. 511/1, 511/2 AND 512/2 OVER AN EXTENT OF 3.45.53 HA IN KUPPAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE.

1.44	Besides the above, the below mentioned general points are also to be followed:- a) Executive Summary of the EIA/EMP Report b) All documents to be properly referenced with index and continuous page numbering. c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated. d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project. e) Where the documents provided are in a language other than English, an English translation should be provided. f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted. g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed. h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought 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	All general are followed while preparing EIA/EMP.	

	status of compliance of the conditions stipulated in the Environment Clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. i) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.		

CHAPTER 1

INTRODUCTION

1.1 PURPOSE OF THE REPORT

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

Tvl. Mahaganapathi Blue Metal, has obtained Precise Area communication letter from the Assistant Director, Department of Geology and Mining, Karur to quarry out Mineable reserves of 1980676.5 Ts of Rough Stone and 36528 Ts of Gravel up to 62 BGL located at the S.F. No. 511/1, 511/2 and 512/2 in Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State. Hence, this proposed quarry falls under the cluster situation due to the following proposed and abandoned quarries located within 500m radius. The details are given below.

Table 1.1 - Details of Quarries within 500m Radius				
S. No	Name and address of the lessee	Village & S. F. Nos	Extent in Hectare	Lease Period
i. Expired Quarries				
1	Thiru. S. Jeevanantham	524/3A2, 524/3B, Kuppam Village, Pugalur Taluk	1.81.5	05.07.2017 to 04.07.2022
2	Tmt. P. Amaravathi	509/2A Part, Kuppam Village, Pugalur Taluk	0.89.5	18.08.2017to 17.08.2022
3	Tmt. P. Mallika	509/ 1Part,	1.88.0	07.02.2018 to 06.02.2023

		Kuppam Village, Pugalur Taluk		
ii. Existing Quarries				
1.	Tmt. P. Amaravathi W/o. Palanisamy	513/2C, 595/2 Part, Kuppam Village, Pugalur Taluk	2.84.0	02.12.2024 to 01.12.2029
2.	Tvl. New Star Blue Metals	553/2 Part, Kuppam Village, Pugalur Taluk	1.62.0	06.12.2024 to 05.12.2034
iii. Abandoned Quarries				
	Nil			
iv. Proposed Quarries				
1	Tvl. Mahaganapathi Blue Metal, S. No. 510/1, Arasampalayam, Kuppam Post, Pugalur Taluk, Karur District	511/1, 511/2, 512/2, Kuppam Village, Pugalur Taluk	3.45.53	Proposed Area

As per EIA notification, 2006 and its subsequent amendments the proposed Tvl. Mahaganapathi Blue Metal Rough Stone & Gravel Quarry, cluster is falls under Schedule 1(a) Mining of Minerals. It is further classified under Category B1 due to the overall extent of cluster area is 7.91.53 Ha which is >5 Ha. Satellite image of Quarries in Cluster is shown in Fig 1.1.

Figure.1.1 Satellite Image showing cluster quarries



The ToR for preparation of EIA/EMP was approved vide ToR Identification No. TO25B0108TN5219111N, dated 16/07/2025. This report has been prepared in line with the approved TOR for production of maximum excavation of 19,80,676.5 Ts of Rough stone and 36,528 Ts of Gravel up to the depth of 62m BGL for a period of five years.

1.2 IDENTIFICATION OF PROJECT & PROJECT PROPONENT

The proposed project is for mining of Rough Stone and gravel (under cluster) from the S.F. No. 511/1, 511/2 and 512/2 over an area of 3.45.53 Ha in Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State. As per EIA notification, 2006 and its subsequent amendments the project comes under Schedule 1 (a) under Category B1 (Lease area >5 to 250 Ha). The proposed project details are given below.

(a) Proposed project details

Sl. No.	Description	Status/Remarks
1.	Sector	Non-coal mining
2.	Category of the project	B1
3.	Proposed mineral	Rough Stone and Gravel quarry
4.	Type of Lease	The applied area was previously operated by Thiru. M. Ramasamy without EC.
5.	Extent of the lease	3.45.53 Ha
6.	Proposed depth of mining	62m BGL
7.	Method of mining	Opencast Semi-mechanized.
8.	Proposed lease period	5 Years
9.	Proposed Environmental Clearance	5 Years
10.	Mineable reserves (upto 62m BGL) (Quantity in Ts)	7,20,246 m ³ of rough stone, 24,516 m ³ of Gravel
11.	Proposed production quantity for first five years (upto 62m BGL)	7,20,246 m ³ of rough stone, 24,516 m ³ of Gravel

(b) Profile of the project proponent

The proposed Tvl. Mahaganapathi Blue Metal with sound experience in the identification of quarry, operation and marketing in the field of Rough Stone and gravel quarry. The proposed land is owned patta land, please refer **Annexure no – 6.**

(c) Project proponent details

Name of the proponent : Tvl. Mahaganapathi Blue metals

Address Tvl.Mahaganapathi Blue Metal,
Survey No.510/1, Arasampalayam,
Kuppam Post, Pugalur Taluk,
Karur District

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

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

SIZE AND LOCATION OF THE PROJECT

(a) Size of the project

Table 1.2 Proposed project details		
Sl. No.	Feature	Description
1	Type of land	Owned Patta land
2	Extent of lease area	3.45.53 Ha
3	Type of lease	The applied area was previously operated by Thiru. M. Ramasamy without EC.
4	Geological Resource	Rough Stone – 20,07,180 m ³ Gravel – 24,516 m ³
5	Mineable reserves (upto 31m BGL) (Quantity in Ts)	7,20,246 m ³ of rough stone, 24,516 m ³ of Gravel
6	Proposed production quantity for first five years (upto 21m BGL)	7,20,246 m ³ of rough stone, 24,516 m ³ of Gravel
7	Proposed depth of mining	62m BGL

(b) Location of the project

The proposed project site is located in Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State and its Latitude: 11°00'21.62"N to 11°00'27.71"N and Longitude: 77°56'37.99"E to 77°56'45.37"E with Survey of India Topo Sheet No. 58- F/13.

1.3.1 IMPORTANCE OF THE PROJECT TO THE COUNTRY AND REGION

There is an increasing demand for rough stone in India and other countries. Since the construction industry is rapidly growing now, there is an increasing demand for rough stone. Thus, this project will contribute not only to the demand of Rough Stone, but also provide employment opportunities to the nearby villages.

1.4 SCOPE OF THE STUDY -DETAILS OF REGULATORY SCOPING CARRIED OUT (AS PER TERMS OF REFERENCE):

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

For the purpose of preparing EIA/EMP the SEIAA, Tamil Nadu has issued a Terms of Reference ToR Identification No. TO25B0108TN5219111N, dated 16.07.2025 in accordance with the provisions of EIA Notification 2006 and its subsequent amendments. This EIA study includes both Core and Buffer zone i.e., the lease area and 10km radius of the project area respectively. This EIA report prepared based on the data generated from the summer season 2025 (March 2025 to May 2025) and all individual components of environment are described in detail. An in-depth analysis of available information has been made for working out an effective Environmental Management Plan.

1.4.1 PRESENT STUDY

The Project Proponent has assigned M/s. Global Mining Solutions, Salem for conducting Environment Impact Assessment / Environmental Management Plan (EIA/EMP) for this project. The Environmental Impact Assessment and Environmental Management Plan of this cluster quarry addressing all the environmental related impacts and mitigation measures. The EMP report is based on the data generated from March 2025 to May 2025 by M/s. Shrient Analytical & Research Labs Private Limited, Chennai and the data generated by the FAE of the M/s. Global Mining Solutions, Salem. The study evaluates the prevailing baseline environmental conditions. The objectives of the present study are given below.

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

1.4.2 STATUS OF LITIGATIONS

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

a. Precise Area Communication:

The Project Proponent has obtained Precise area communication letter received from the District Collector, Department of Geology and Mining, Karur, vide Rc.No.208/Mines/2024, dated 11.04.2025. **The letter copy enclosed as Annexure – 1.**

b. Mining Plan Approval Letter:

The project proponent has prepared a Mining Plan under rule 8, 41 & 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 and the same has been approved by the Assistant Director, Department of Geology and Mining, Karur, vide Rc.No.208/Mines/2024, dated 24.04.2025. The approval letter along with approved plan is enclosed as **Annexure – 2.**

c. 500m radius quarry features:

The project proponent has obtained an official letter from the Assistant Director, Department of Geology and Mining, Karur, vide Rc.No.208/Mines/2024, dated 25.04.2025. **The letter copy enclosed as Annexure - 3.**

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

There are no historical places, schools, cemeteries, temples, bird sanctuaries, and wildlife sanctuaries within 300 metres of the proposed project area. In this regard, the project proponent has received an official letter from the Village Administrative Officer, Kuppam village, dated 30.04.2025. **The letter copy enclosed as Annexure – 4.**

e. Project Proponent undertaking affidavit:

The project proponent has issued an affidavit under MoEF & CC O.M. No. 3- 50/2017-IA.III(Pt.) dated 30.05.2018 to comply with the direction of the Hon'ble SC made on 2.08.2017 in W.P. (C) 114 of 2014 in matter of Common Cause vs Union of India & Ors. The Affidavit copy is enclosed as **Annexure – 12.**

f. Land document of the proposed lease area:

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

CHAPTER 2

PROJECT DESCRIPTION

2.1 TYPE OF PROJECT

The type of the project is Opencast Mechanized Mining to excavate Rough Stone and Gravel within the proposed Mine Lease area with drilling, blasting, loading and transportation. This project is located at S.F. No. 511/1, 511/2 and 512/2 over an extent of 3.45.53 Ha in Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State.

As per EIA notification, 2006 and its subsequent amendments the project comes under Schedule 1 (a) under Category B1 (Lease area >5 to 250 Ha), considering cluster situation and the total cluster area is 7.91.53 Ha. The details of mines located in the cluster area is certified by Assistant Director, Department of Geology and Mining, Karur, vide Rc.No.208/Mines/2024, dated 25.04.2025.

Table 2.1 - Details of Quarries within 500m Radius				
S. No	Name and address of the lessee	Village & S. F. Nos	Extent in Hectare	Lease Period
v. Expired Quarries				
1	Thiru. S. Jeevanantham	524/3A2, 524/3B, Kuppam Village, Pugalur Taluk	1.81.5	05.07.2017 to 04.07.2022
2	Tmt. P. Amaravathi	509/2A Part, Kuppam Village, Pugalur Taluk	0.89.5	18.08.2017to 17.08.2022
3	Tmt. P. Mallika	509/ 1Part, Kuppam Village, Pugalur Taluk	1.88.0	07.02.2018 to 06.02.2023
vi. Existing Quarries				

3.	Tmt. P. Amaravathi W/o. Palanisamy	513/2C, 595/2 Part, Kuppam Village, Pugalur Taluk	2.84.0	02.12.2024 to 01.12.2029
4.	Tvl. New Star Blue Metals	553/2 Part, Kuppam Village, Pugalur Taluk	1.62.0	06.12.2024 to 05.12.2034
vii. Abandoned Quarries				
	Nil			
viii. Proposed Quarries				
1	Tvl. Mahaganapathi Blue Metal, S. No. 510/1, Arasampalayam, Kuppam Post, Pugalur Taluk, Karur District	511/1, 511/2, 512/2, Kuppam Village, Pugalur Taluk	3.45.53	Proposed Area

The total lease within the 500m radius (Proposed + Existing) (1 nos + 2 nos) works out to 7.91.53 Ha, including this lease area. As such, the cluster situation TOR is applicable for this project.

2.2 NEED FOR THE PROJECT

The need of the proposed Rough Stone and Gravel quarry of Tvl. Mahaganapathi Blue Metals.

Table 2.1a Salient features of the project		
S.No.	Type of Detail	Description
1	Sector	1(a) Non coal mining
2	Fresh/Existing project	Proposed
3	Category	B1
5	Life of the mine	05 years

6	Geological reserves (upto 62m BGL)	20,07,180 Cu.m of Rough stone, 24,516 Cu.m Ts of gravel
	Mineable reserves (upto 62m BGL)	7,20,246 Cu.m of Rough Stone, 18,264 Cu.m of gravel
	Proposed production quantity for first five years (upto 62m BGL)	7,20,246 Cu.m of Rough Stone, 18,264 Cu.m of gravel
7	Waste generation and management	Nil
8	Bench height and width	Proposed bench height & width is 5.0m respectively and number of proposed benches is 13 Nos.
9	Ultimate pit depth	62 m BGL
10	End use	The excavated Rough Stone and Gravel is used for construction industries for Government & Public sector projects besides catering domestic housing and infrastructure projects in and around the district.

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

This project site is located in Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State. The Nearest Railway line is Karur to Erode line – 5.5km, N. The National Highway NH-81) Karur – Coimbatore 5.2km (S). The State Highway (SH-84) Karur – Salaipudur 2.5km (N). The general location is given in Figure 2.1. The specific location is given in Figure 2.2.

FIGURE 2.1 LOCATION MAP

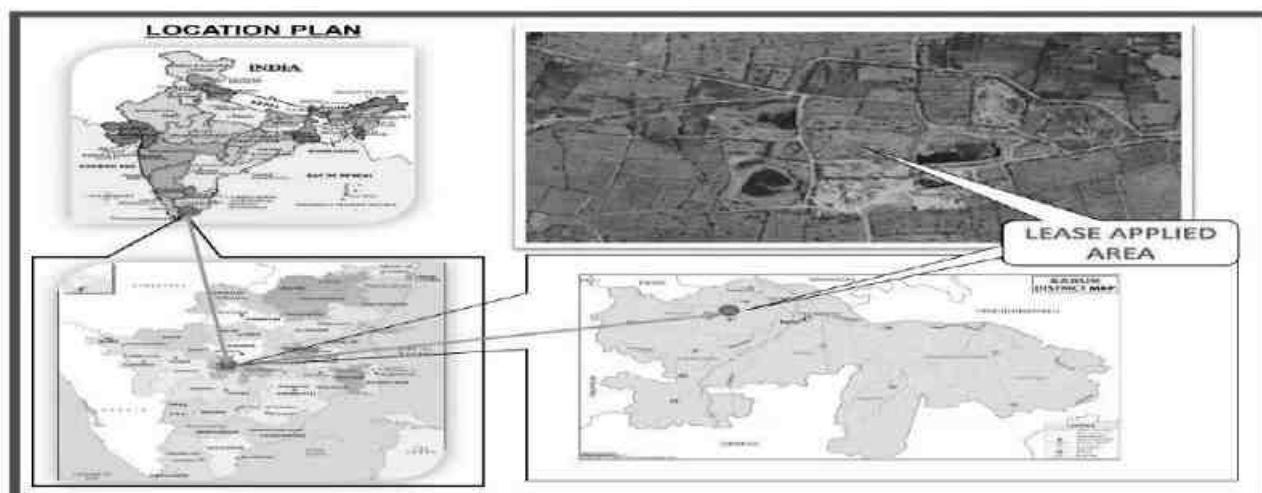
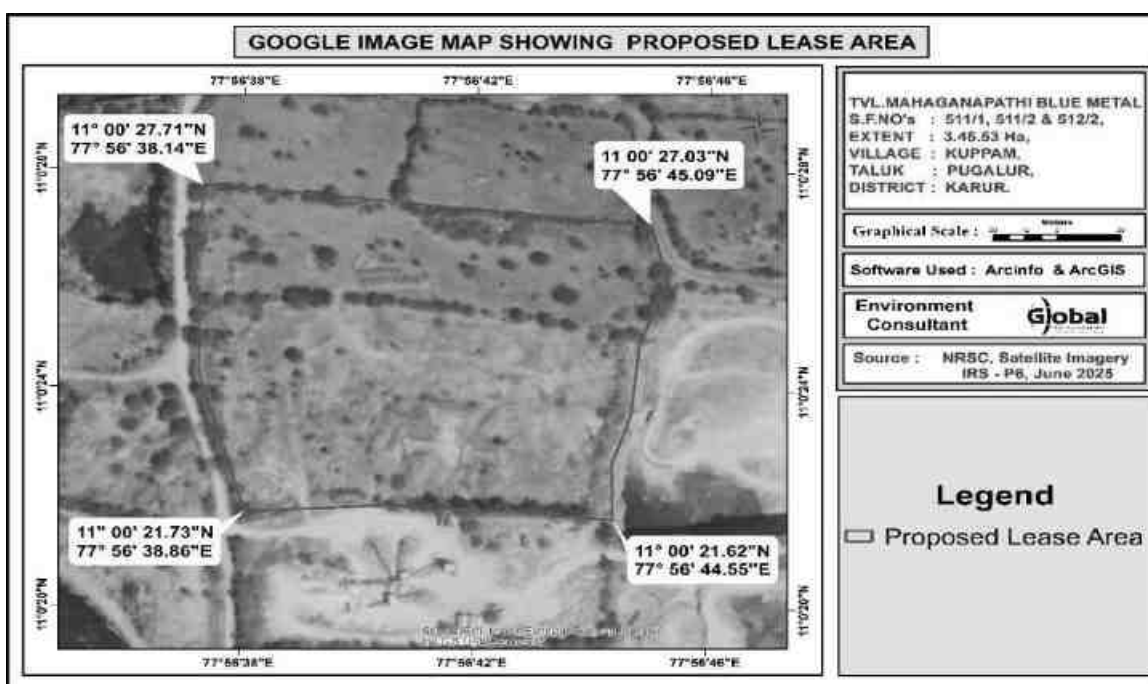


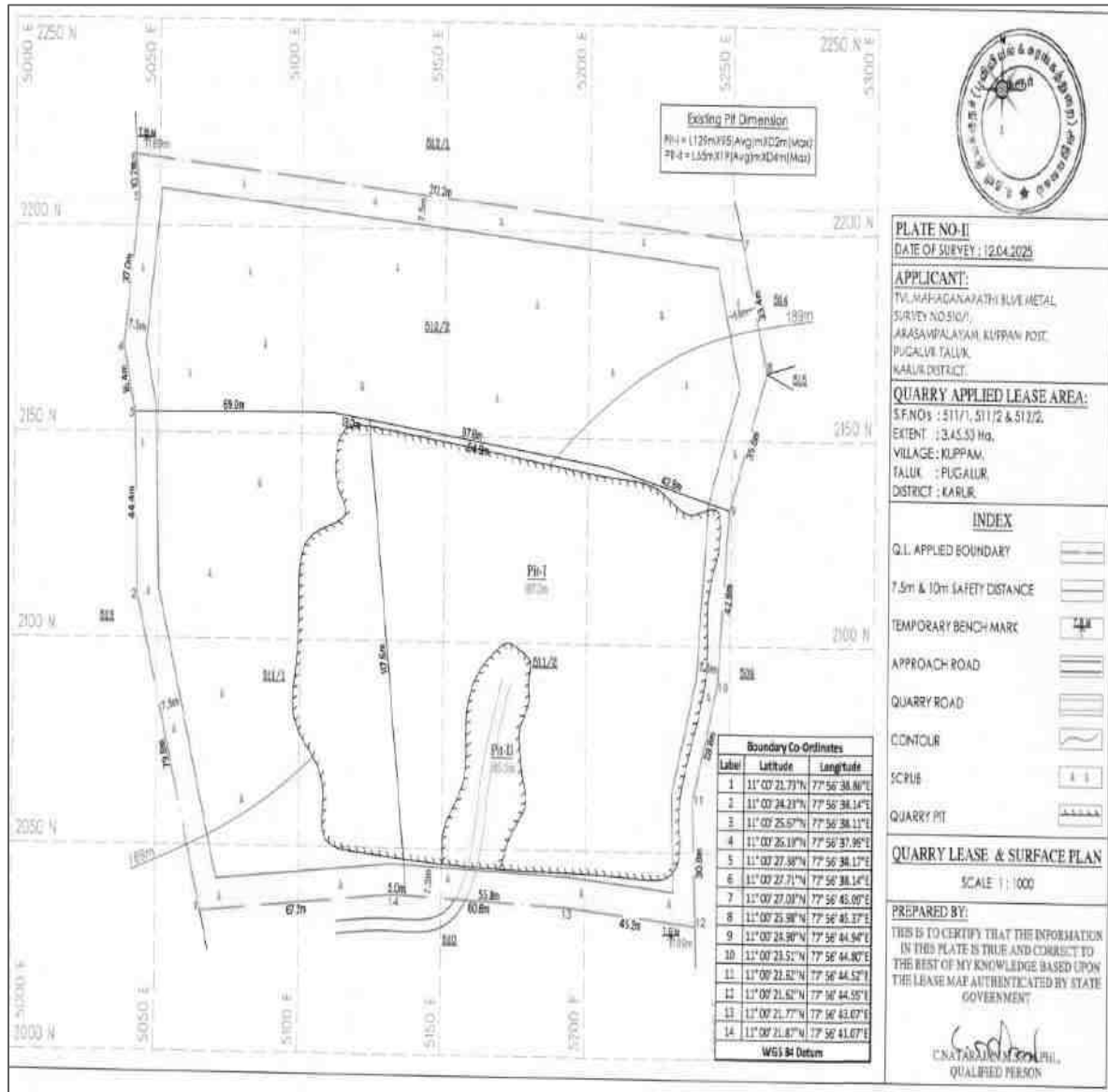
Table 2.2 Co-Ordinates of the Project Site			
Corners	Co- ordinates		Distance between the corners
	Latitude	Longitude	
1	11° 00' 21.73"N	77° 56' 38.86"E	1-2 = 79.8m
2	11° 00' 24.23"N	77° 56' 38.14"E	2-3 = 44.4m
3	11° 00' 25.67"N	77° 56' 38.11"E	3-4 = 16.4m
4	11° 00' 26.19"N	77° 56' 37.99"E	4-5 = 37.0m
5	11° 00' 27.38"N	77° 56' 38.17"E	5-6 = 10.2m
6	11° 00' 27.71"N	77° 56' 38.14"E	6-7 = 212.2m
7	11° 00' 27.03"N	77° 56' 45.09"E	7-8 = 33.4m
8	11° 00' 25.98"N	77° 56' 45.37"E	8-9 = 35.6m
9	11° 00' 24.90"N	77° 56' 44.94"E	9-10 = 42.8m
10	11° 00' 23.51"N	77° 56' 44.80"E	10-11 = 28.8m
11	11° 00' 22.62"N	77° 56' 44.52"E	11-12 = 30.8m
12	11° 00' 21.62"N	77° 56' 44.55"E	12-13 = 45.2m
13	11° 00' 21.77"N	77° 56' 43.07"E	13-11 = 60.8m
14	11° 00' 21.87"N	77° 56' 41.07"E	14-1 = 67.2m

FIGURE 2.2 GOOGLE IMAGE SHOWING PROJECT SITE



DRAFT EIA/EMP FOR THE PROPOSED ROUGH STONE AND GRAVEL QUARRY OF TVL. MAHAGANAPATHI BLUE METAL AT S.F.NO. 511/1, 511/2 AND 512/2 OVER AN EXTENT OF 3.45.53 HA IN KUPPAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE.

FIGURE 2.3 SURFACE PLAN OF THE PROJECT AREA



2.3.1 LAND USE OF THE PROJECT AREA

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

Table 2.3 Current Land Use Pattern			
S. No.	Land Use	Present Area (Hect)	Area in use during the quarrying period (Hect)
1	Quarrying Pit	0.33.00	2.95.80
2	Infrastructure	Nil	0.01.00
3	Roads (Temporary)	0.01.00	0.01.00
4	Green Belt	Nil	0.47.73
5	Unutilized	2.11.53	Nil
	Total	3.45.53	3.45.53

2.3.2 LAND USE AT MINE CLOSURE STAGE

Table 2.4 Land Use at Mine Closure Stage		
S. No.	Land Use	Area in use during the quarrying period (Hect)
1	Area left for water body	2.95.80
2	Green Belt	0.47.73
3	Remaining area	0.02.0
	Total	3.45.53

2.3.3 SALIENT FEATURES OF THE LEASE AREA

Sr.No	Salient Features	Description
1	Nearest Highway	- The Nearest Railway line is Karur - Erode 5.5km on (N) - National Highway (NH-81) Karur - Coimbatore 5.2 km (S) - The State Highway (SH-84) Karur - Salaipudur 2.5km (N)
2	Nearest Village	Kuppam - 585m (E)
3	Nearest Railway station	Pugalur - 7km, NE
4	Nearest Airport	Trichy International Airport - 88km, SE

Figure 2.5 Topo Map showing existing site features

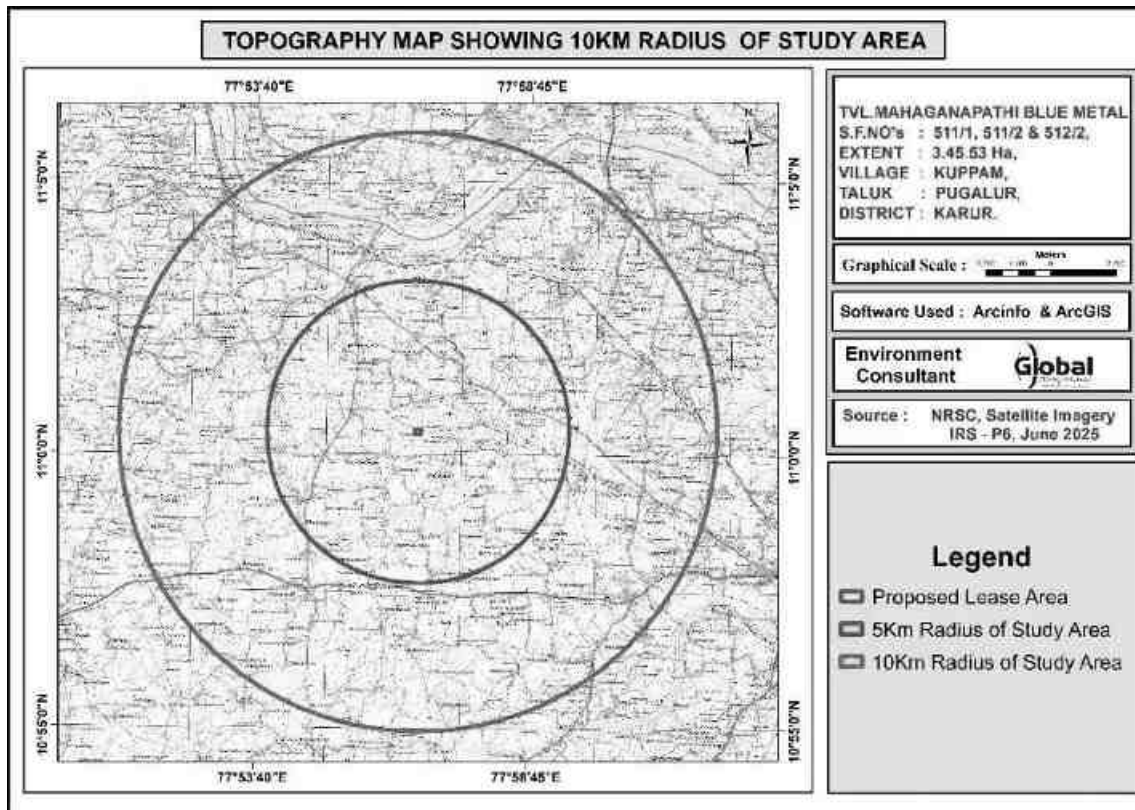


FIGURE 2.6 PROJECT SITE PHOTOGRAPHS



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

The proposed production is rough stone 7,20,246 Cu.m and 18,264 Cu.m Gravel by Opencast Semi-Mechanized mining method. Available Geological Resources of Rough stone 20,07,180 Cu.m and Gravel 24,516 Cu.m. Cost of the project is Rs. 133.7418 Lakh including land cost. Capital cost for EMP is Rs. 8.42 lakhs and recurring cost for the EMP is Rs. 14.59 Lakh/Annum.

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

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

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

S.No	Particular	Status
1	Mining Plan Approval Status	The project proponent has prepared mining plan under rule 19(1) 41 & 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 and the same has been approved by the Assistant Director, Dept. of Geology & Mining, Karur, vide Rc.No.582/Mines/2024, dated 13.03.2025.
2	Environment Clearance Status	ToR Letter Received vide file no TO25B0108TN5219111N, dated 16/07/2025.
3	Grant of Consent to Establish (CTE)	After 30 days from grant of EC (Duration as per TNPCB)
4	Grant of Consent to Operate (CTO)	After 30 days from grant of EC (Duration as per TNPCB)

2.5 PROPOSED SCHEDULE FOR APPROVAL & IMPLEMENTATION

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

Table - 2.6 Proposed Schedule for Approval

S.N	Activity Description	Jan 2026	Feb 2026	Mar 2026	Apr 2026
1	Submission of Final EIA/EMP Report to SEIAA-TN				
2	Consideration for EC by SEAC				
3	Recommendation of SEAC to SEIAA				
4	Grant of EC by SEIAA				

Proposed schedule has been prepared as per EIA Notification, 2006

Note: Application was submitted to Parivesh Portal on 16.05.2025, ToR was granted on 16.07.2025. Baseline data Collection during Summer Season (March to May 2025). After obtaining EC from SEIAA-TN, CTE and CTO under section 21 of the Air (Prevention and Control Act) 1981 and section 25/26 Water (Prevention and Control of Pollution Act) 1974 will be obtained from Tamil Nadu State Pollution Control Board (TNPCB).

2.5.1 IMPLEMENTATION

Implementation of the proposed mining project will be done in accordance with the existing Acts and Rules applicable on mining operations as well as in accordance with any Act/Rule/Guidelines issued by Central or State Government from time to time and as per Mining Plan and Progressive Mine Closure Plan approved by Assistant Director, Department of Geology and Mining, Karur, vide Rc.No.208/Mines/2024, dated 24.04.2025.

2.6 TECHNOLOGY & PROCESS DESCRIPTION

2.6.1 BASIC REQUIREMENTS FOR THE PROJECT

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

2.6.2 WATER REQUIREMENTS

In the proposed mines water will be mainly used for domestic purpose, dust suppression & plantation. Total water requirement for the project is 7.5 KLD which will be sourced from outside agencies. Negligible sewage of 1.0 KLD will be generated, for which a septic tank with soak pit will be set up. The water balance diagram is given below.

FIG 2.7 WATER BALANCE DIAGRAM

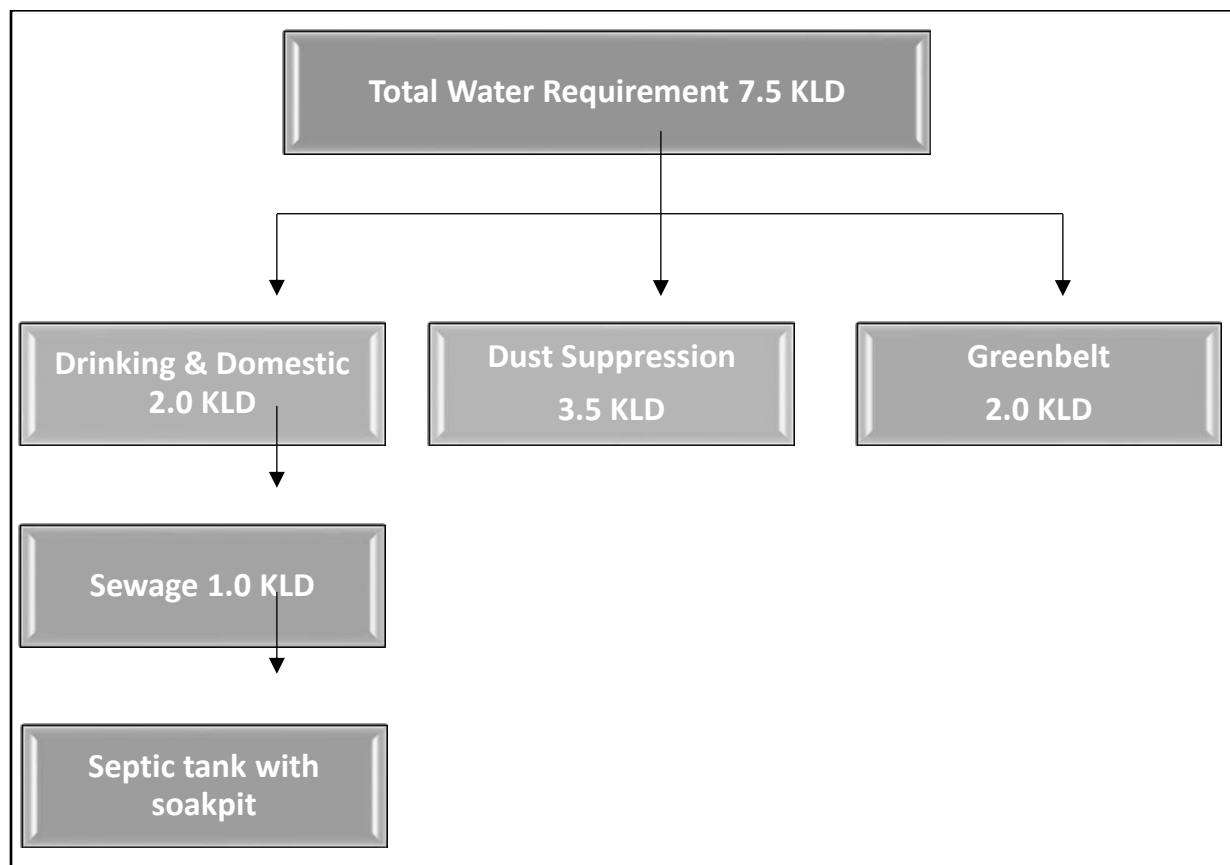


Table - 2.7 Water Requirement

S. No	Particular	Water Requirement (KLD)
1	Dust suppression	3.5
2	Drinking/Domestic	2.0
3	Greenbelt/Plantation	2.0
Total		7.5

2.6.3 POWER REQUIREMENT

Total Fuel requirement is 579.241 KL for entire life of the project. Power will be used only in the office building

2.6.4 MAN POWER REQUIREMENT

Total Manpower requirement will be 33 persons which out of which 21 persons (Mines manager, Foreman, Mining Mate, etc.,) and other are drivers and workman's categories. Beside this, 12 workmen will be drivers and workmen. Preference will be given to the locals as per their eligibility.

S.No	Description	Employment potential
1	Mines Manager	1 No.
2	Foreman / Mate	2 Nos.
3	Operator	12 Nos.
4	Mechanic	1 No.
5	Driver	5 Nos.
6	Labours	12 Nos
Total		33 Nos

2.6.5 EXTENT OF MECHANIZATION

Table 2.8 Machineries involved in the project				
S.No.	Particulars	capacity	Motive Power	Nos
1.	Jack hammer	32mm dia	Compressed air	10
2.	Compressor	1 psi	Diesel drive	1
3.	Excavator with Bucket and Rock Breaker	0.90 m ³	Diesel drive	2
4.	Tipplers	5/10 Ts	Diesel drive	5

Source: Approved Mining Plan

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

2.6.6 GEOLOGY AND TOPOGRAPHY

Topography

The mine lease area of 3.45.53 Ha is covered in the Survey of India Toposheet 58 F/13 and is bounded by Latitude: 11°00'21.62"N to 11°00'27.71"N and Longitude: 77°56'37.99"E to 77°56'45.37"E. No major river is found nearby the lease applied area. Water table is found at a depth of 68 m. Temperature of the area is reported to be 18° C to a maximum of 42° C during summer. Rainfall of this area is about 800 mm to 900 mm during the both NE & SW monsoons.

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

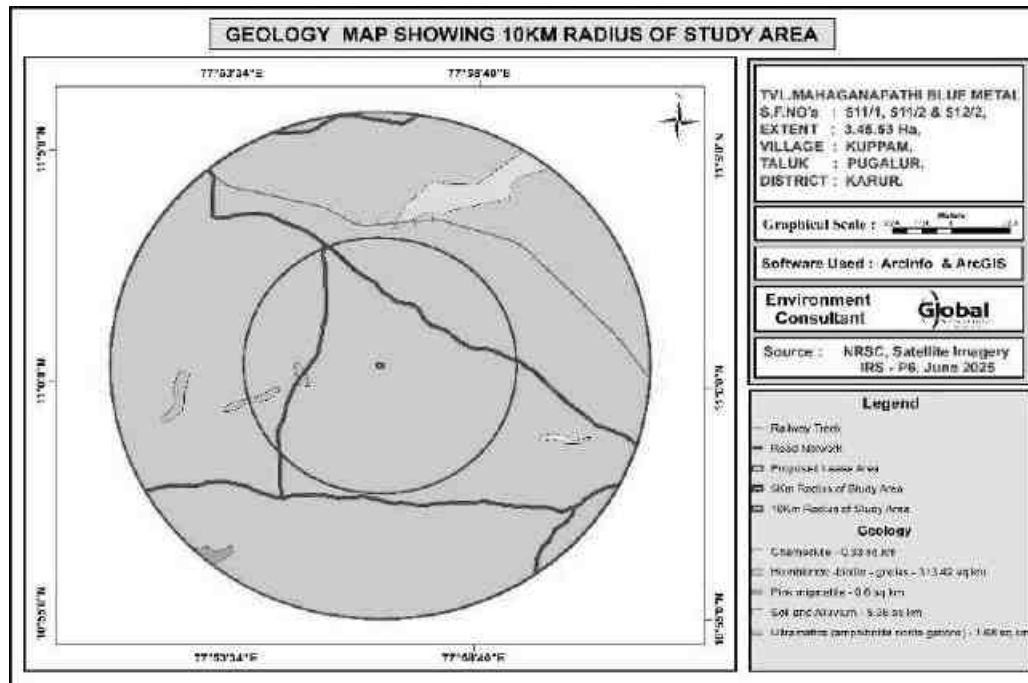
The elevation of the proposed quarry is 189 m (maximum) from MSL. There is no forest land in the mine lease area. The project site is dry land which is not fit for any cropping.

2.6.7 Regional Geology

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

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

FIGURE 2.8 REGIONAL GEOLOGY MAP-10 Km RADIUS FROM PROJECT AREA



2.6.8 Local Geology

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

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

The strike of the Charnockite formation is N80°W –S80°E with dipping towards NE80°.

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

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

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

2.7.1 PROCESS DESCRIPTION

PROPOSED METHOD OF MINING

Opencast mechanized method with 5.0 m height 5.0m width and overall, 45° slope of the bench. It is proposed to excavate 7,20,246 Cu.m of Rough Stone and 18,264 Cu.m Gravel. No wastage is envisaged as the entire material available is Rough Stone and Gravel only.

TIMING

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

BENCH GEOMETRY

Height (max) and Width (max) of the benches will be maintained as 5m each and overall slope angle will be at around 45° with the horizontal.

DEVELOPMENT OF MINING FACES

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

DRILLING & BLASTING

Drilling will be done up to maximum depth of 62 m BGL (Drilling diameter will be 32 mm). Jackhammer will be used for drilling with water spray. Powder factor of explosives for breaking such hard rock shall be in the order of 6-7 Tonnes per Kg of explosives. Small dia 25 mm slurry explosive is proposed to be used for shattering and heaving effect for removal of Rough Stone & Gravel. The proposed blasting pattern is given as Figure 2.9.

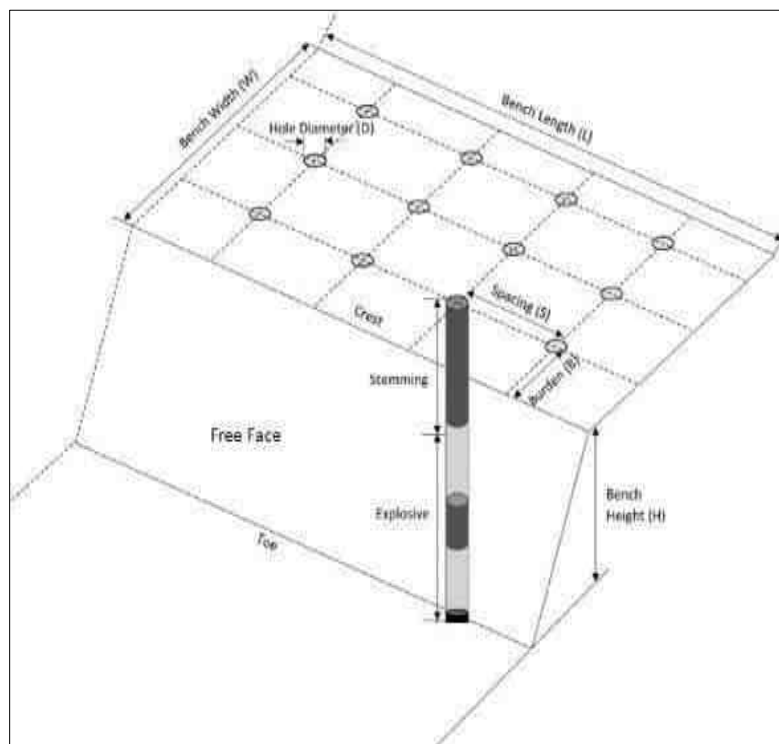


FIGURE 2.9 BLASTING PATTERN

LOADING& TRANSPORTATION OF ROUGH STONE AND GRAVEL

Hydraulic excavator will be used for lifting and loading of the rough stone and Gravel. This excavator in combination with Tippers (10MT) capacity of 5 nos will be used.

FIGURE 2.10 FLOW CHART OF THE QUARRY OPERATION

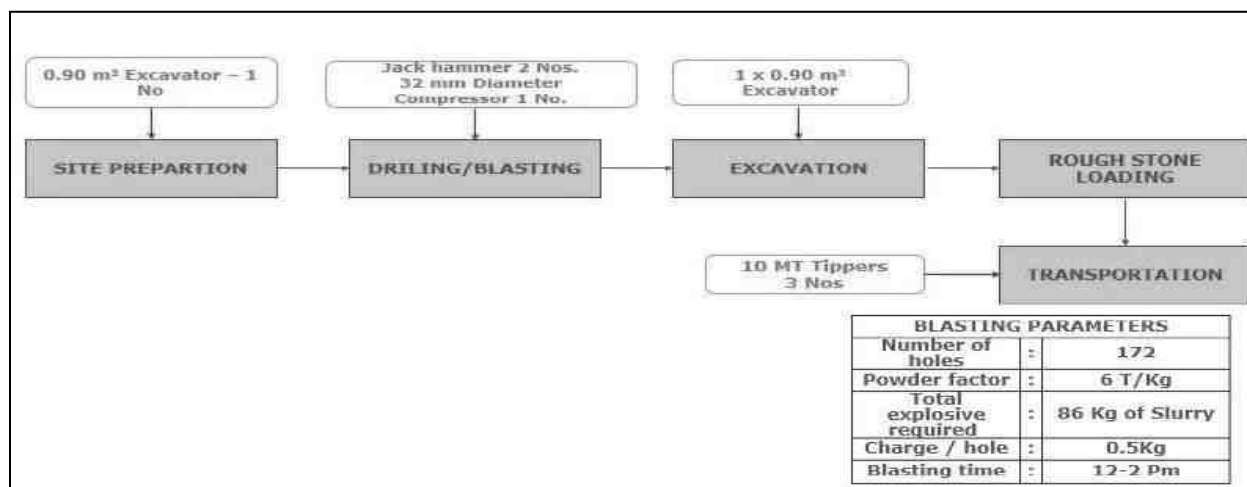


TABLE - 2.9 MINING DETAILS

Sl. No	Description	Details	Remarks
1.	Method of Mining	Opencast method of Semi Mechanized Mining with 5.0 m height 5.0 m width and overall 45° slope of the bench. Hydraulic excavator will be used for the excavation and 5/10T tippers will be used for the Hauling.	Excavator - 2 No. Tippers - 5 Nos.
2.	Mineral Use	The excavated Rough Stone will be used for construction industries for Government & Public sector projects besides catering for domestic housing and infrastructure projects in and around the district.	-
3.	Proposed Depth of mining for the	62m (BGL)	The water table in the area is around 77m BGL

DRAFT EIA/EMP FOR THE PROPOSED ROUGH STONE AND GRAVEL QUARRY OF TVL. MAHAGANAPATHI BLUE METAL AT S.F.NO. 511/1, 511/2 AND 512/2 OVER AN EXTENT OF 3.45.53 HA IN KUPPAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE.

	first five years		
4.	Proposed Production quantity	Proposed production quantity for first five years (upto 62m BGL) 7,20,246 Cu.m of Rough Stone, 18,264 Cu.m of gravel	05 years
5.	Safety Zone	Out of 3.45.53 Ha, 0.47.73 Ha will be maintained as a Safety Zone during mining operations.	Around 480 nos. of saplings will be planted in this safe area.
6.	Water requirement	7.5 KLD	Procured by the outside water.
7.	Energy requirement	579.241 KL of HSD (Entire Project Life)	All the equipment will be diesel-operated. No electricity is needed for mining operations.
8.	Manpower	Total manpower	This project will give employment opportunities to 33 people.
9.	Shift	General Shift	8.00 AM – 5.00 PM
10.	Project Cost	Rs. 128.7418 Lakhs	Including Fixed Asset + Operational & EMP cost
11.	EMP Cost	23.01 Lakhs	5 years
12.	CER Cost	Rs. 5.0 Lakhs.	The amount will be utilized for the development of Panchayat Union Primary School, Kuppam.

2.7.2 YEAR WISE PRODUCTION & EXCAVATION DETAILS

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

Table 2.10 Summary of production for 5 Years

Year	Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel in m ³	Rough stone in m ³	Bulk Density	Gravel in Ts	Mineable Reserves of Rough stone in Ts
I	XY-AB	I	204	43	2	17544	-	2	35088.00	-
		II	199	41	5	-	40795	2.75	-	112186.25
	X1Y1-AB	I	40	9	2	720	-	2	1440.00	-
		II	153	61	5	-	46665	2.75	-	128328.75
			21	47	3	-	2961	2.75	-	8142.75
		III	104	103	5	-	53560	2.75	-	147290.00
	Total					18264	143981	-	36528.00	395947.75
II	X1Y1-AB	III	60	103	5	-	30900	2.75	-	84975.00
		IV	105	98	5	-	51450	2.75	-	141487.50
	XY-AB	III	189	36	5	-	34020	2.75	-	93555.00
		IV	179	31	5	-	27745	2.75	-	76298.75
	Total						144115	-	-	396316.25
III	X1Y1-AB	IV	49	98	5	-	24010	2.75	-	66027.50
		V	144	93	5	-	66960	2.75	-	184140.00
		VI	33	88	5	-	14520	2.75	-	39930.00
	XY-AB	V	169	26	5	-	21970	2.75	-	60417.50
		VI	159	21	5	-	16695	2.75	-	45911.25
	Total						144155	-	-	396426.25
IV	X1Y1-AB	VI	101	88	5	-	44440	2.75	-	122210.00
		VII	124	83	5	-	51460	2.75	-	141515.00
		VIII	73	78	5	-	28470	2.75	-	78292.50
	XY-AB	VII	149	16	5	-	11920	2.75	-	32780.00
		VIII	139	11	5	-	7645	2.75	-	21023.75
	Total						143935	-	-	395821.25
V	X1Y1-AB	VIII	41	78	5	-	15990	2.75	-	43972.50
		IX	104	73	5	-	37960	2.75	-	104390.00
		X	94	68	5	-	31960	2.75	-	87890.00
		XI	84	58	5	-	24360	2.75	-	66990.00
		XII	74	48	5	-	17760	2.75	-	48840.00
		XIII	64	38	5	-	12160	2.75	-	33440.00
	XY-AB	IX	129	6	5	-	3870	2.75	-	10642.50
	Total						144060	-	-	396165.00
Grand Total						18264	720246	-	36528.00	1980676.50

2.7.3 CONCEPTUAL PERIOD

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

TABLE 2.11 Ultimate Pit Dimension			
Pit No.	Length (max) (m)	Width (Avg) (m)	Depth (max) (m)
Ultimate Pit dimension at the end of Mining Plan Period as per approved Mining Plan			
I	204	145	62

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

EXPLANATION

NO.	DESCRIPTION	QUANTITY
1	CEILING	100.00
2	FLOOR	100.00
3	WALL	100.00
4	DOOR	100.00
5	WINDOW	100.00
6	STAIR	100.00
7	ROOF	100.00
8	FOUNDATION	100.00
9	PAINT	100.00
10	GLASS	100.00
11	IRON	100.00
12	STEEL	100.00
13	COPPER	100.00
14	BRASS	100.00
15	SILVER	100.00
16	GOLD	100.00
17	PLATINUM	100.00
18	DIAMOND	100.00
19	JEWELRY	100.00
20	CLOTHING	100.00
21	SHOES	100.00
22	HAT	100.00
23	GLOVES	100.00
24	SCARF	100.00
25	COAT	100.00
26	TRUNK	100.00
27	SUITCASE	100.00
28	WALLET	100.00
29	KEY	100.00
30	LOCK	100.00
31	HANDLE	100.00
32	DOOR	100.00
33	WINDOW	100.00
34	STAIR	100.00
35	ROOF	100.00
36	FOUNDATION	100.00
37	PAINT	100.00
38	GLASS	100.00
39	IRON	100.00
40	STEEL	100.00
41	COPPER	100.00
42	BRASS	100.00
43	SILVER	100.00
44	GOLD	100.00
45	PLATINUM	100.00
46	DIAMOND	100.00
47	JEWELRY	100.00
48	CLOTHING	100.00
49	SHOES	100.00
50	HAT	100.00
51	GLOVES	100.00
52	SCARF	100.00
53	COAT	100.00
54	TRUNK	100.00
55	SUITCASE	100.00
56	WALLET	100.00
57	KEY	100.00
58	LOCK	100.00
59	HANDLE	100.00
60	DOOR	100.00
61	WINDOW	100.00
62	STAIR	100.00
63	ROOF	100.00
64	FOUNDATION	100.00
65	PAINT	100.00
66	GLASS	100.00
67	IRON	100.00
68	STEEL	100.00
69	COPPER	100.00
70	BRASS	100.00
71	SILVER	100.00
72	GOLD	100.00
73	PLATINUM	100.00
74	DIAMOND	100.00
75	JEWELRY	100.00
76	CLOTHING	100.00
77	SHOES	100.00
78	HAT	100.00
79	GLOVES	100.00
80	SCARF	100.00
81	COAT	100.00
82	TRUNK	100.00
83	SUITCASE	100.00
84	WALLET	100.00
85	KEY	100.00
86	LOCK	100.00
87	HANDLE	100.00
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90	STAIR	100.00
91	ROOF	100.00
92	FOUNDATION	100.00
93	PAINT	100.00
94	GLASS	100.00
95	IRON	100.00
96	STEEL	100.00
97	COPPER	100.00
98	BRASS	100.00
99	SILVER	100.00
100	GOLD	100.00

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

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

2.8.1 AIR QUALITY MANAGEMENT

Drilling

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

Blasting

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

Loading & Transportation

- Water spray on haulage roads, access roads, operating benches and proper maintenance of haul roads.
- Development of green belt/plantation around mine boundary, roads and other places will be carried out to control the air pollution.
- Proper maintenance of the HEMMs & transportation vehicles will be done.
- Vehicular emissions will be kept under norms.
- Personal Protective Equipment like dust masks will be provided to all employees. ➤ Regular air quality monitoring will be carried out.
- Compliance of conditions laid by MoEF&CC and TNPCB to minimize environmental impacts

2.8.2 NOISE MANAGEMENT

Drilling

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

Blasting

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

Transportation

- Adequate silencers in HEMMs will be provided to reduce generation of noise.
- Proper and regular maintenance, oiling and greasing of machines at regular intervals will be done to reduce generation of noise.
- All HEMMs will be equipped with acoustic a/c closed cabins for operators.
- The workers employed at HEMMs will be provided with protective equipment, earmuffs and earplugs as protective measures from the high noise level generated at the mine site and wherever required.
- Development of green belt & plantation around the mining activity and other areas, will be carried out.
- Regular monitoring of noise will be carried out.

2.8.3 WATER MANAGEMENT

Waste Water

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

Surface Run-off

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

GREENBELT/ PLANTATION

The mine lease area is devoid of major plantation. Shrubs and bushes are majorly found within the lease area. The proponent has planned to develop green belt in an area of 0.47.73 Ha. Trees like Pungai, Vagai, Vembu, Manjal konrai, Naval, Puvarasu, etc., will be planted around the mine lease area. A total of 480 trees are planned to be planted. Spacing will be 3m x 3m.

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

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

CHAPTER 3

DESCRIPTION OF THE ENVIRONMENT

3.1. STUDY AREA, PERIOD COMPONENTS AND METHODOLOGY

The project area is located in Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State over an extent of 3.45.53 Ha., The project area is considered as Core zone and the area in the surrounding 10km radius is considered as Buffer Zone. The baseline environmental monitoring was conducted by Shrient Analytical & Research Labs Private Limited, Chennai it is an NABL and MOEF recognized laboratory for various components of environment, viz. Air, Noise, Water, Land was carried out during Summer Season i.e. March 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.

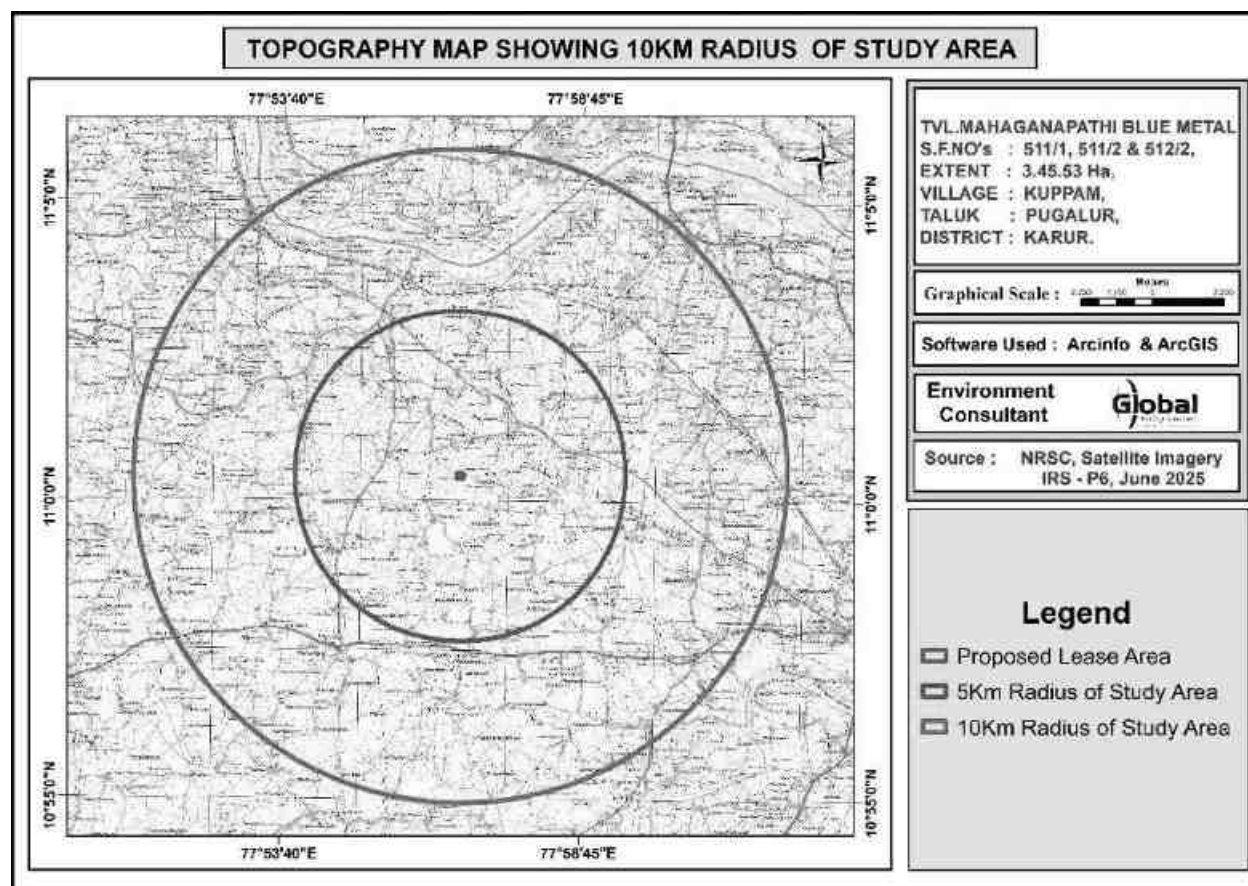
ENVIRONMENTAL SETTING OF THE STUDY AREA

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,	Water bodies	Distance	Direction
		Noyyal Canal	60m	N
		Kaveri River	6.81 km	N
		Noyil River	5.1 km	NW
B	Coastal zone, biospheres,	Nil within 10km radius		
C	Mountains, forests	Nil within 10km Radius		
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	Nil within 15km radius		
4	Inland, coastal, marine or underground waters	Nil within 15km radius		
5	State, National boundaries	Nil within 15km radius		
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Nil within 15km radius		
7	Defense installations	Nil within 15km radius		
8	Densely populated or built-up area	Densely Populated Karur, 15.0km (SE)		
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Densely Populated Karur, 15.0km (SE)		
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)

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

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

INSTRUMENTS USED FOR ENVIRONMENTAL BASELINE DATA COLLECTION

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

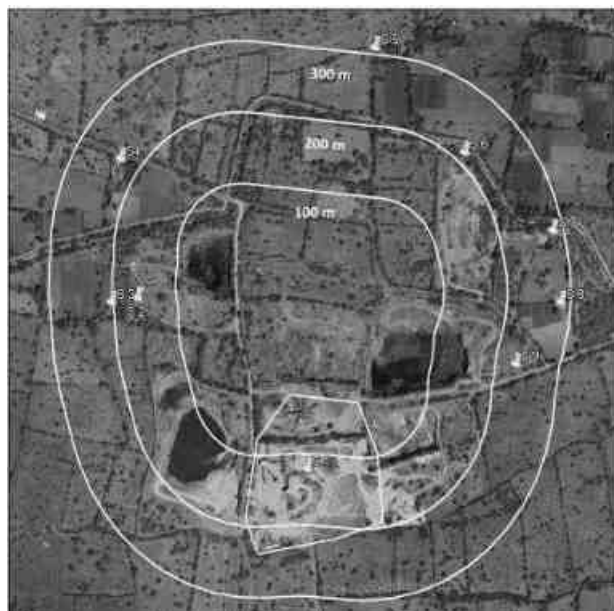
- Respirable Dust Sampler with attachment for gaseous Pollutants, Envirotech APM 460.
- Fine Particulate Matter (FPS) Sampler APM 550
- Sound Level Meter Model Envirotech SLM - 100
- Digital D.O. Meter Model - 831 E (CPCB Kit)
- Weather Monitoring Station Model Enviro WM 271
- Water Level Indicator and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

3.3. BASE MAP OF ALL ENVIRONMENTAL COMPONENTS

(ENUMERATION OF THE STRUCTURES LOCATED WITHIN 1.0 KM RADIUS FROM THE PROPOSED QUARRY SITE)

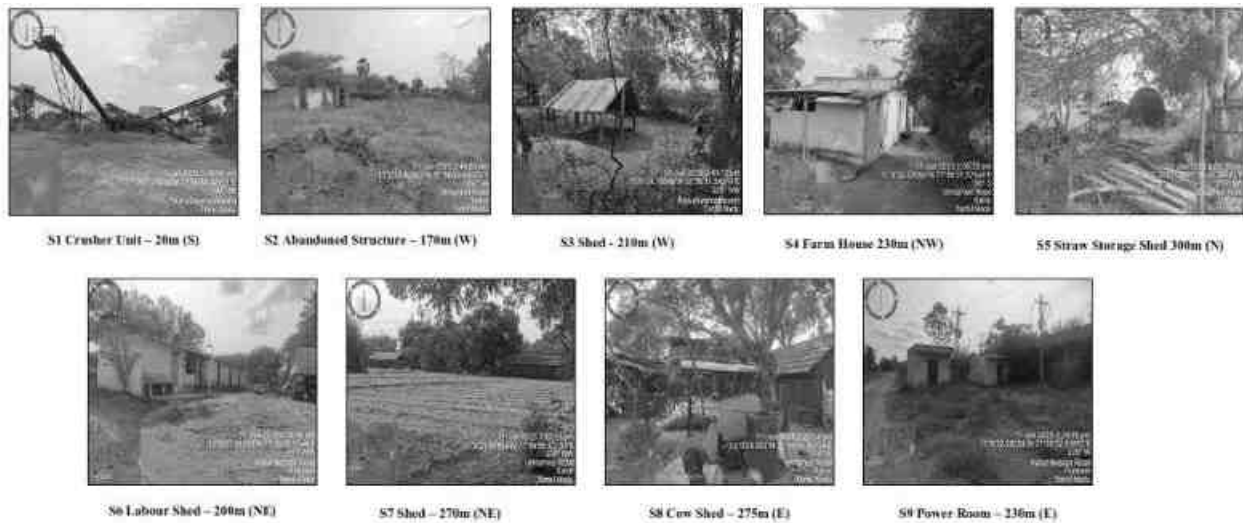
A site survey has been conducted to identify and list structures located within a 1 Km radius from the proposed Quarry and are detailed below. There are permanent structures within a 1 km radius from the project site. The PP has obtained a letter from Village Administrative Office (VAO), Kuppam stating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

FIG 3.2 GOOGLE MAP SHOWING 50M INTERVAL FOR 300M RADIUS FROM THE LEASE AREA



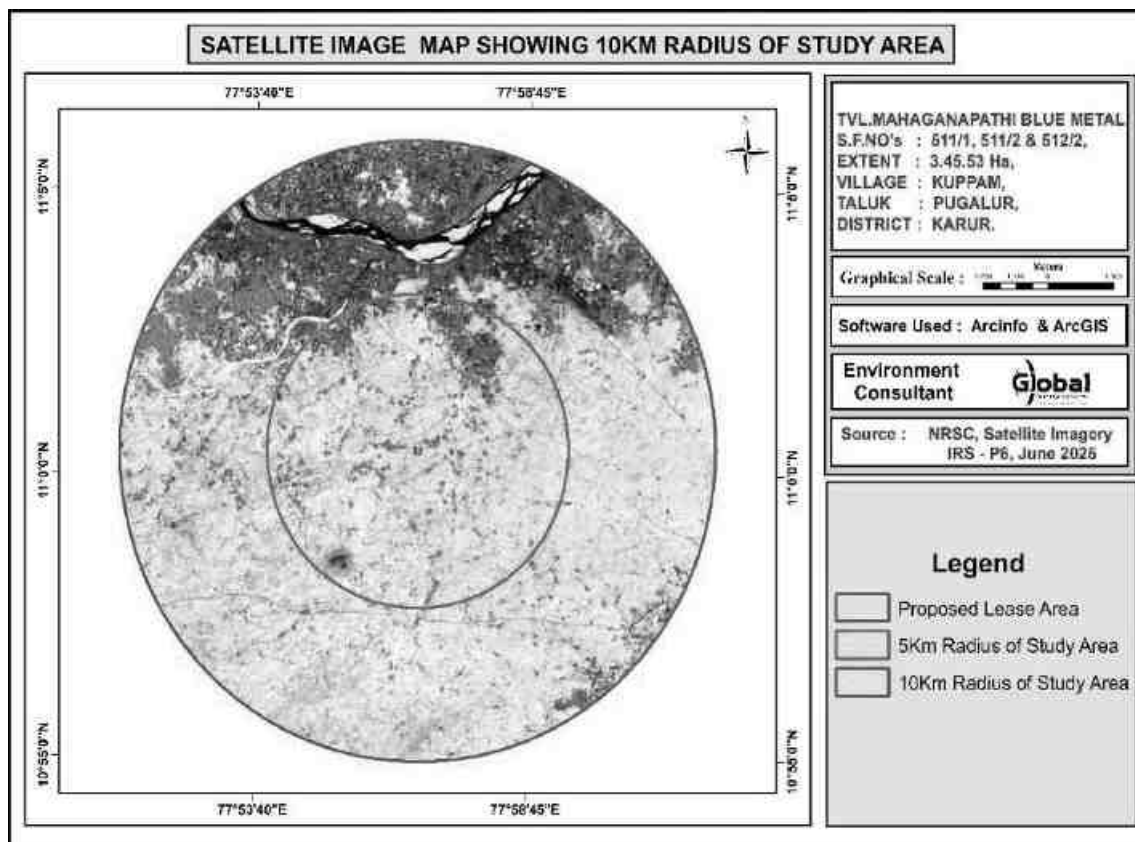
S.No	Name of the Structure	Distance and Direction	Ownership	Occupant	Type	Age
S1	Cresher Unit	20m (S)	Not belongs to PP	Nil	-	> 5 years
S2	Abandoned Structure	170m (W)		Nil	-	> 5 years
S3	Shed	210m (W)		Nil	Cl.1 Shed	< 5 years
S4	Farm House	230m (NW)		Nil	Masonry	> 5 years
S5	Straw Storage Shed	340m (N)		Nil	-	< 5 years
S6	Labour Shed	200m (NE)		Nil	Masonry	> 5 years
S7	Shed	270m (NE)		Nil	Tiled Shed	> 5 years
S8	Cow Shed	275m (E)		Nil	Tiled Shed	> 5 years
S9	Power Room	235m (E)		Nil	Concrete	> 5 years

DRAFT EIA/EMP FOR THE PROPOSED ROUGH STONE AND GRAVEL QUARRY OF TVL. MAHAGANAPATHI BLUE METAL AT S.F.NO. 511/1, 511/2 AND 512/2 OVER AN EXTENT OF 3.45.53 HA IN KUPPAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE.



As per the field study, there are 9 structures observed within 300m radius of the project site, which are shown above.
There are no houses/inhabited site within 300m radius of the project site.

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



3.3.1 METEOROLOGICAL ENVIRONMENT

Meteorological conditions prevailing in the buffer zone is given below

Climate

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

Rainfall

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

Table 3.2 - Rainfall data						
Annual Rainfall in mm						Normal rainfall in mm
2019	2020	2021	2022	2023	2024(As on 30.09.2024)	
524.5	1258.4	919.8	722.7	558.5	359.1	655.0

Source: Tamilnadu Water Supply and Drainage Board, Karur District

Relative Humidity

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

Seismic information

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

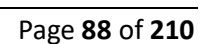
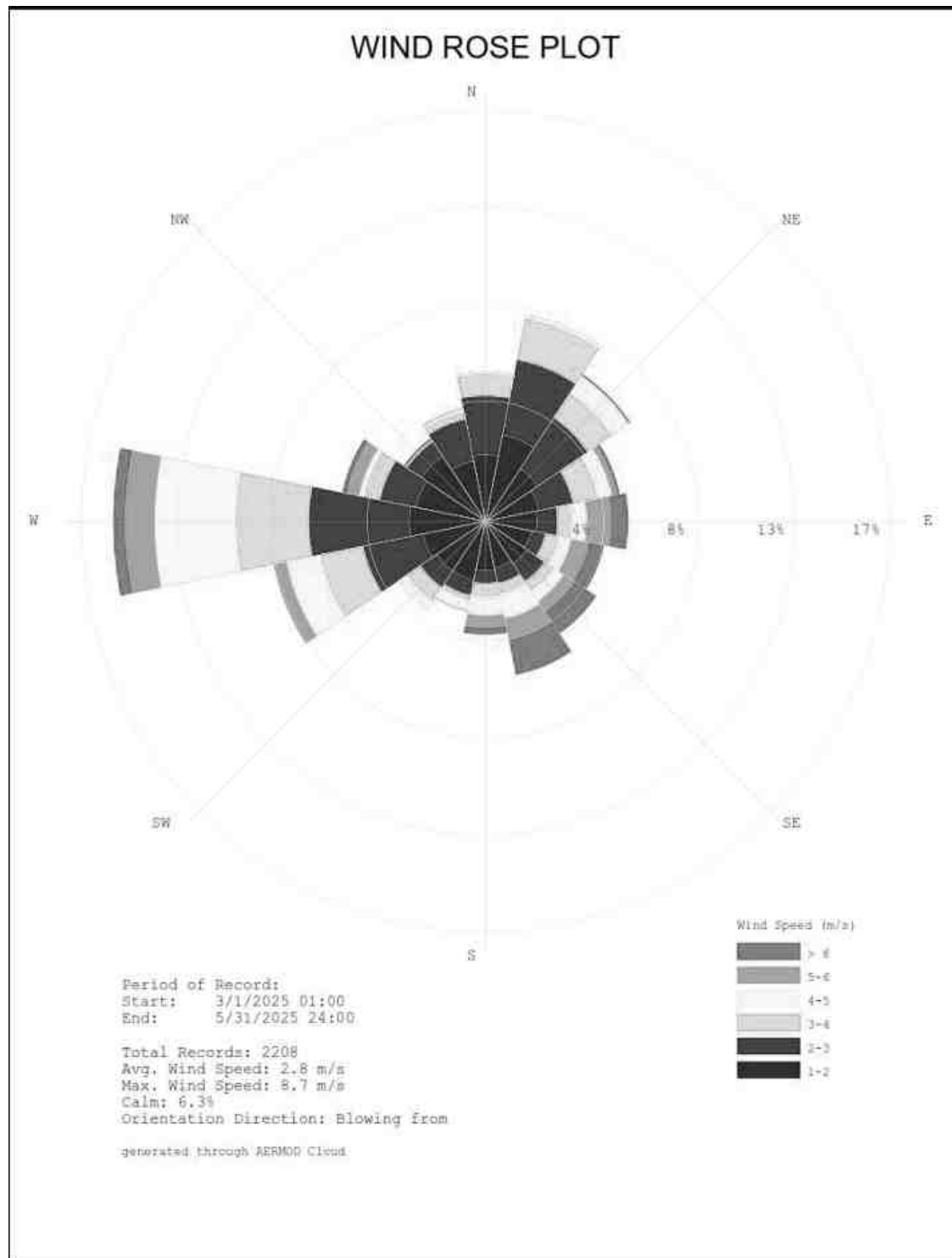


FIG 3.4 WIND ROSE PLOT DURING MARCH TO MAY 2025



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

3.3.2 AMBIENT AIR MONITORING DATA

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

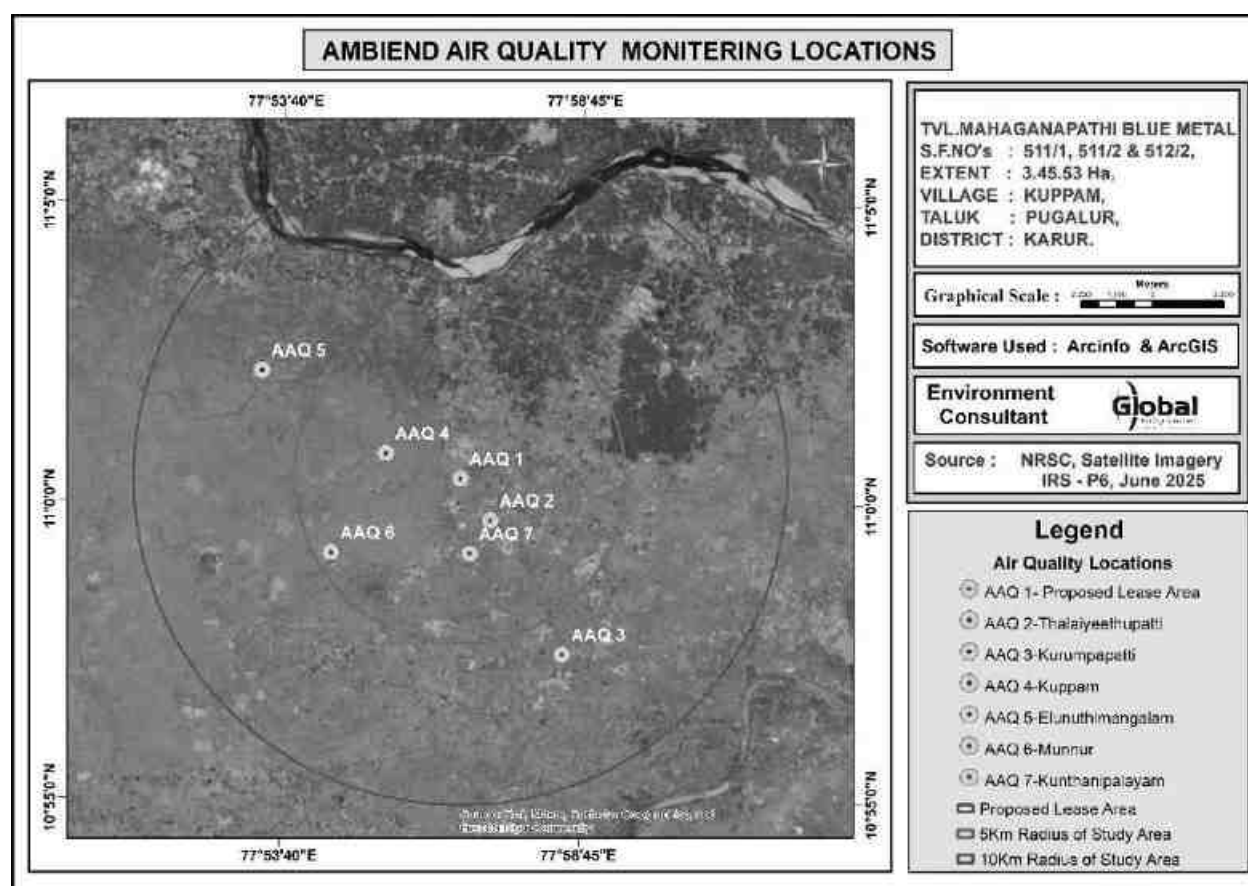
The regional climatologically data, was used as a guideline to know the predominant wind direction during study period. The locations were identified keeping in view predominant wind directions prevailing during study period, sensitive receptors, human settlements, and mining activities around.

The levels of Respirable Particulate Matter (PM₁₀), Fine Particulates (PM_{2.5}), Sulphur Dioxide (SO₂) and Oxides of Nitrogen (NO_x) were monitored for establishing the baseline status. PM₁₀ were sampled with the help of Respirable Dust Samplers on filter papers and SO₂ & NO_x were absorbed in the respective absorption media in the impingers attached to RD samplers and analyzed Spectro-photometrically. PM_{2.5} was monitored with the help of Fine Particulate Samplers. The monitoring locations for ambient air study are given in Table – 3.3 and Figure 3.5 below.

Table 3.3: Details Of Ambient Air Quality Monitoring Locations

S. No.	Station Code	Locations	Distance & Direction	Latitude	Longitude
1	AAQ 1	Project site	Core Zone	11° 0'24.47"N	77°56'41.34"E
2	AAQ 2	Thalaiyeethupatti	1.46km, SE	10°59'42.91"N	77°57'12.38"E
3	AAQ 3	Kurumpapatti	6.19km, SE	10°57'28.63"N	77°58'27.08"E
4	AAQ 4	Kuppam	2.29km, NW	11° 0'48.62"N	77°55'25.75"E
5	AAQ 5	Elunuthimangalam	6.89km, NW	11° 2'12.10"N	77°53'18.87"E
6	AAQ 6	Munnur	4.40km, SW	10°59'9.22"N	77°54'30.59"E
7	AAQ 7	Kunthanipalayam	2.76km, NE	11° 1'54.43"N	77°56'52.17"E

FIG 3.5 BASE MAP OF AMBIENT AIR MONITORING LOCATIONS



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

Table.3.4 Results of Air sampling Analysis in 6 locations

Station ID	Min	Max	Avg.
Particulate matter PM-2.5 ($\mu\text{g}/\text{m}^3$)			
AAQ-1	25.1	33.3	29.4
AAQ-2	16.9	23.4	20.1
AAQ-3	20.2	25.5	22.8
AAQ-4	19.8	25.2	22.5
AAQ-5	17.9	22.9	20.0
AAQ-6	22.2	26.4	24.3
AAQ-7	22.0	26.3	24.0
CPCB NAAQS 2009 for PM_{2.5} - 60 $\mu\text{g}/\text{m}^3$			
Particulate matter PM-10 ($\mu\text{g}/\text{m}^3$)			
AAQ-1	54.3	72.1	63.5
AAQ-2	36.9	50.7	43.8
AAQ-3	42.8	54.4	48.3
AAQ-4	42.1	53.5	47.4
AAQ-5	39.2	48.2	43.7
AAQ-6	47.8	57.5	52.4
AAQ-7	47.5	56.7	51.8
CPCB NAAQS 2009 for PM₁₀ - 100 $\mu\text{g}/\text{m}^3$			
Sulphur Di-oxide as SO₂ ($\mu\text{g}/\text{m}^3$)			
AAQ-1	4.5	6.3	5.5
AAQ-2	3.6	5.8	4.6
AAQ-3	3.9	5.5	4.6
AAQ-4	4.1	5.1	4.6
AAQ-5	4.4	9.0	6.7
AAQ-6	4.1	6.3	5.2
AAQ-7	4.0	5.5	4.7
CPCB NAAQS 2009 for SO₂ - 80 $\mu\text{g}/\text{m}^3$			
Oxide of Nitrogen as NO₂ ($\mu\text{g}/\text{m}^3$)			
AAQ-1	7.3	12.6	10.1
AAQ-2	6.6	8.9	7.7
AAQ-3	7.6	10.8	9.4
AAQ-4	7.4	10.2	8.9
AAQ-5	5.8	10.5	8.2
AAQ-6	8.1	13.2	10.4
AAQ-7	8.3	12.3	10.2
CPCB NAAQS 2009 for NO₂ - 80 $\mu\text{g}/\text{m}^3$			

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

FIG 3.6 AMBIENT AIR QUALITY DATA A1 - MINE LEASE AREA

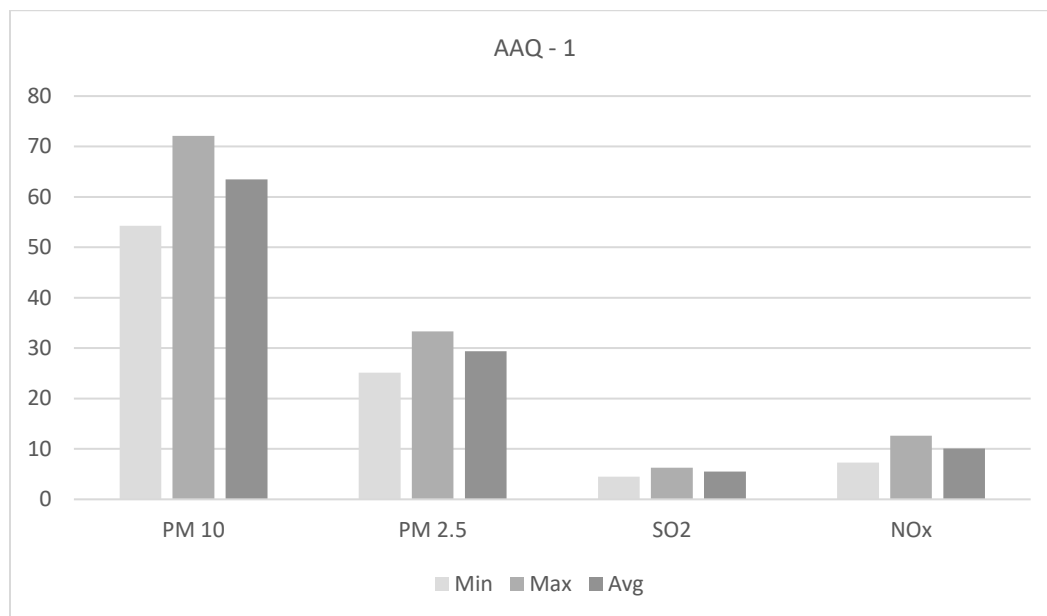


FIG 3.7 AMBIENT AIR QUALITY DATA A2 - THALAIYEETHUPATTI VILLAGE

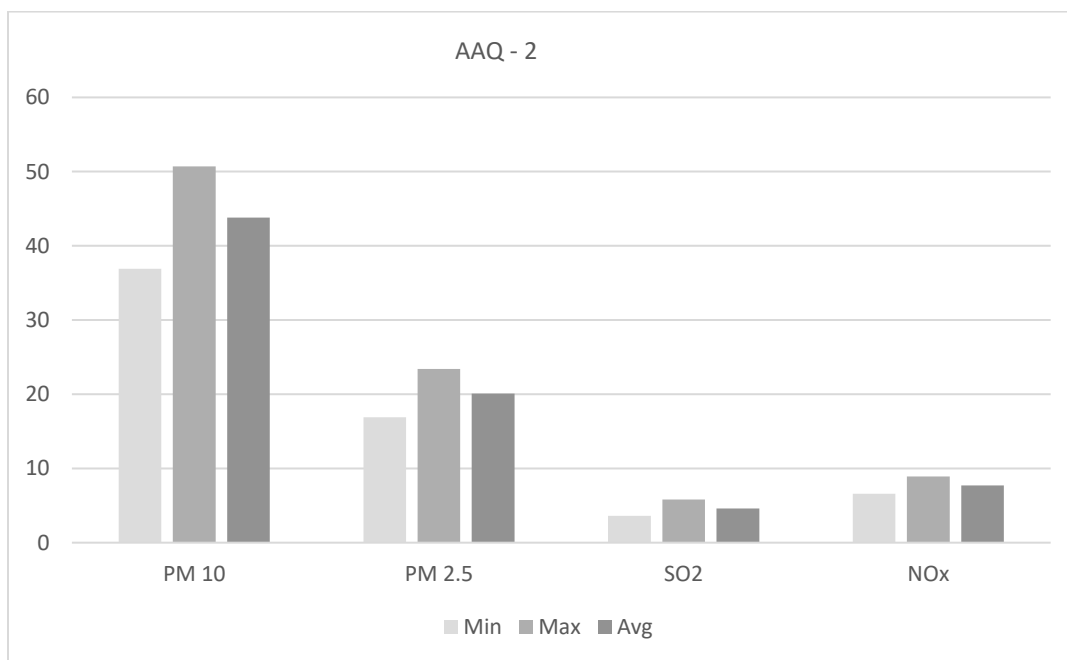


FIG 3.8 AMBIENT AIR QUALITY DATA A3 - KURUMPAPATTI

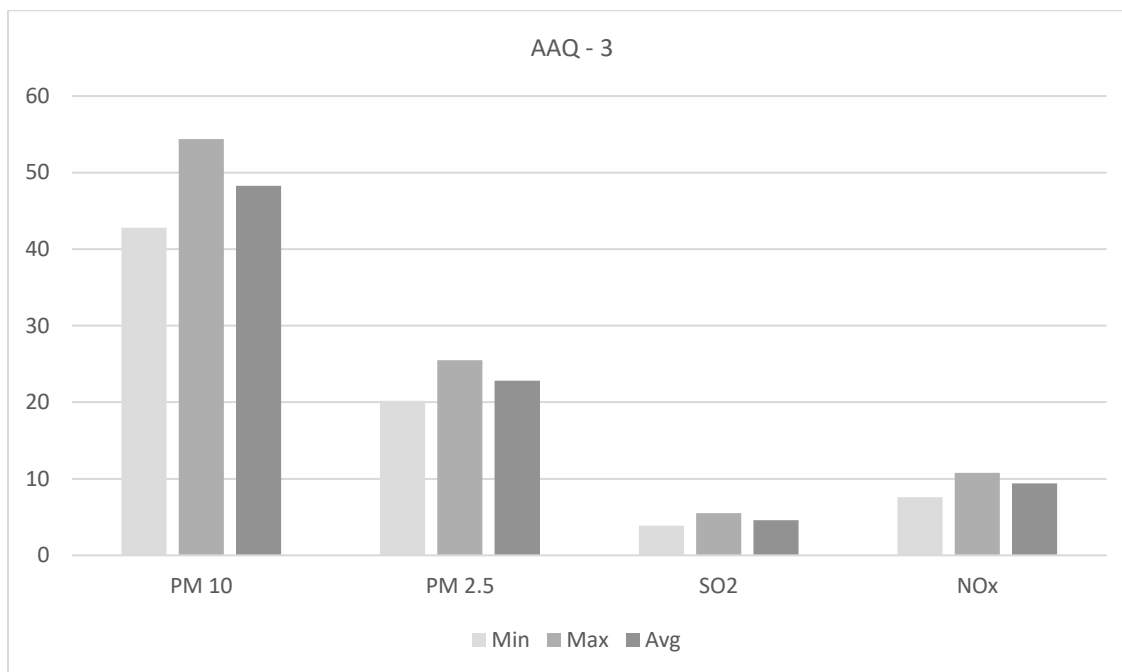


FIG 3.9 AAQ DATA A4 - KUPPAM VILLAGE

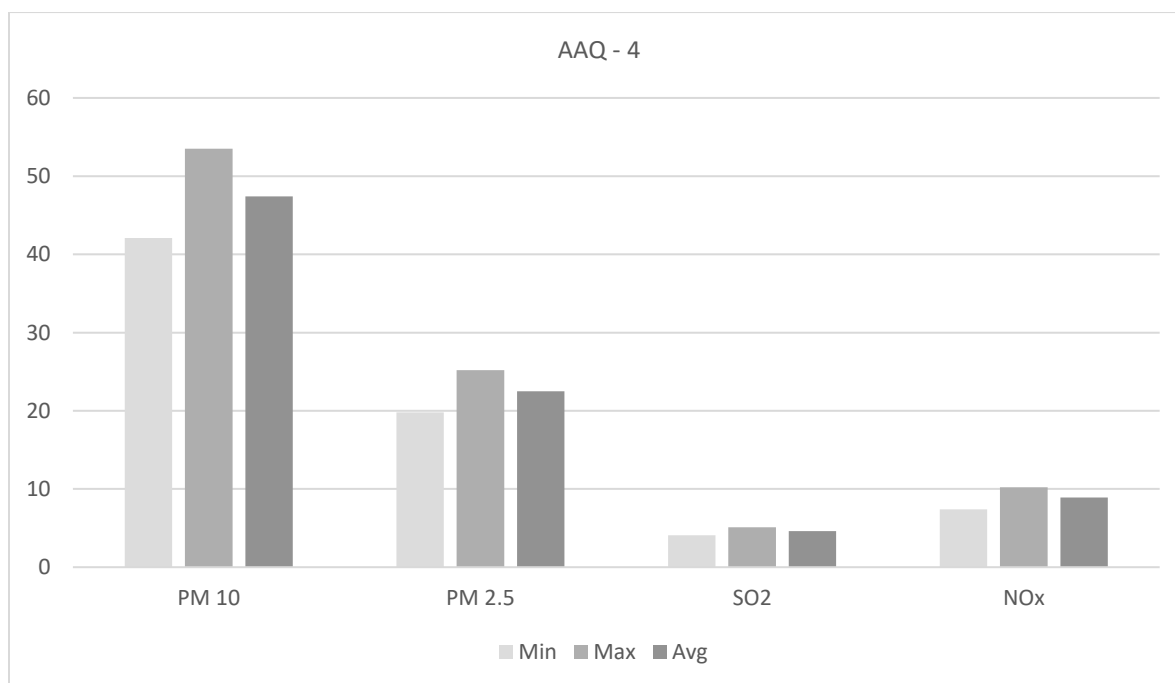


FIG 3.10 AMBIENT AIR QUALITY DATA A5 – ELUNUTHIMANGALAM VILLAGE

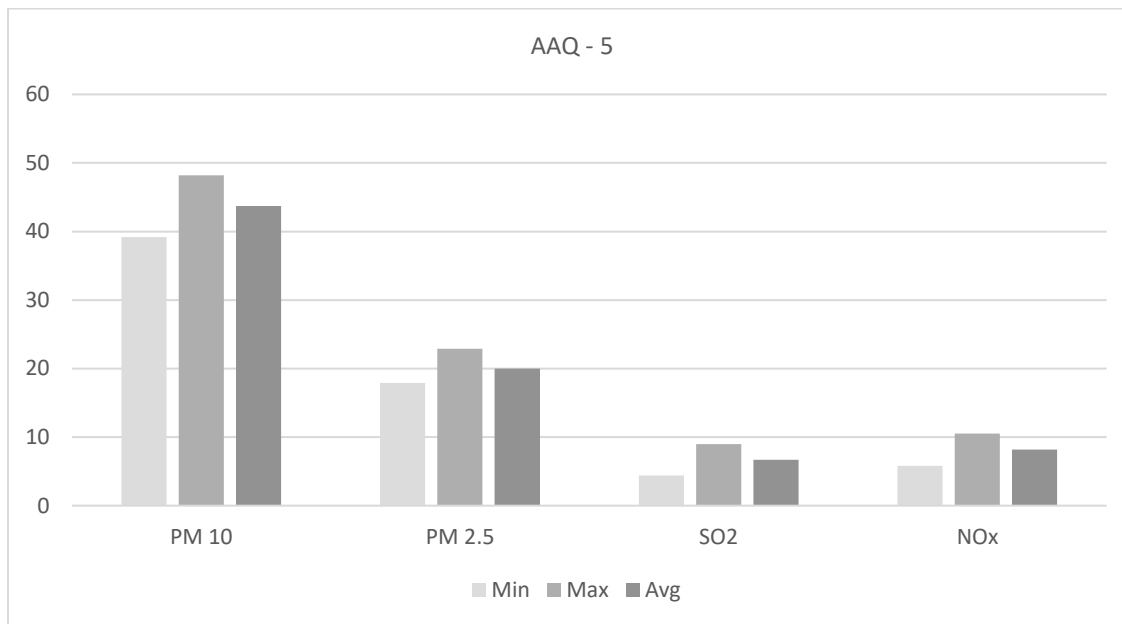


FIG 3.11 AMBIENT AIR QUALITY DATA A6 - MUNNUR VILLAGE

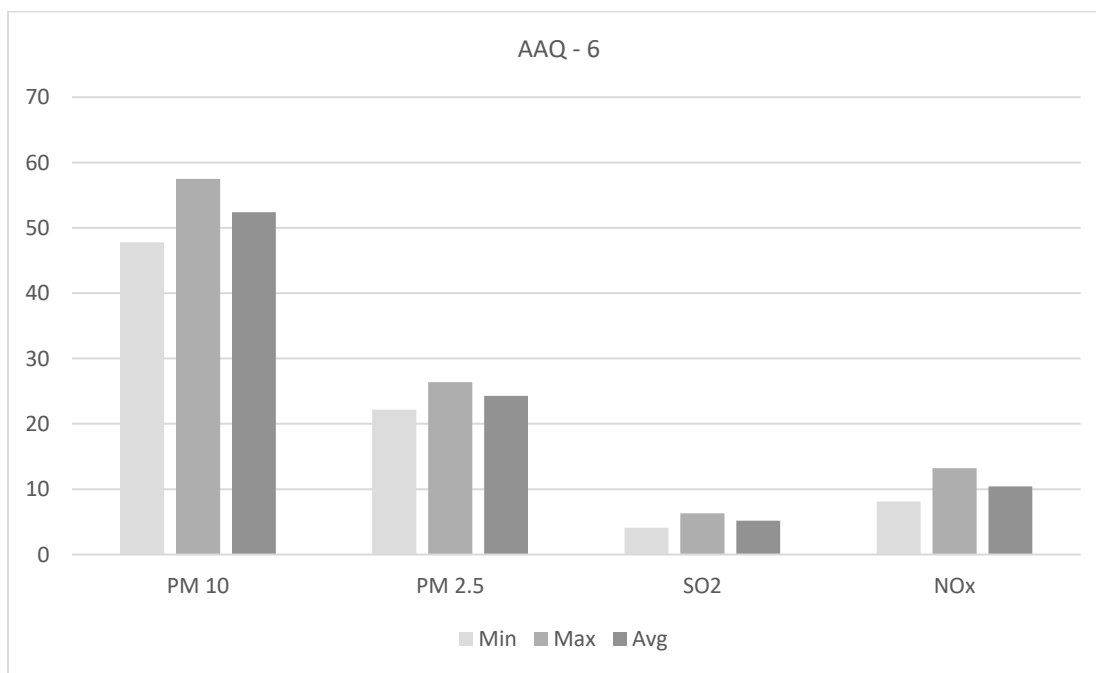
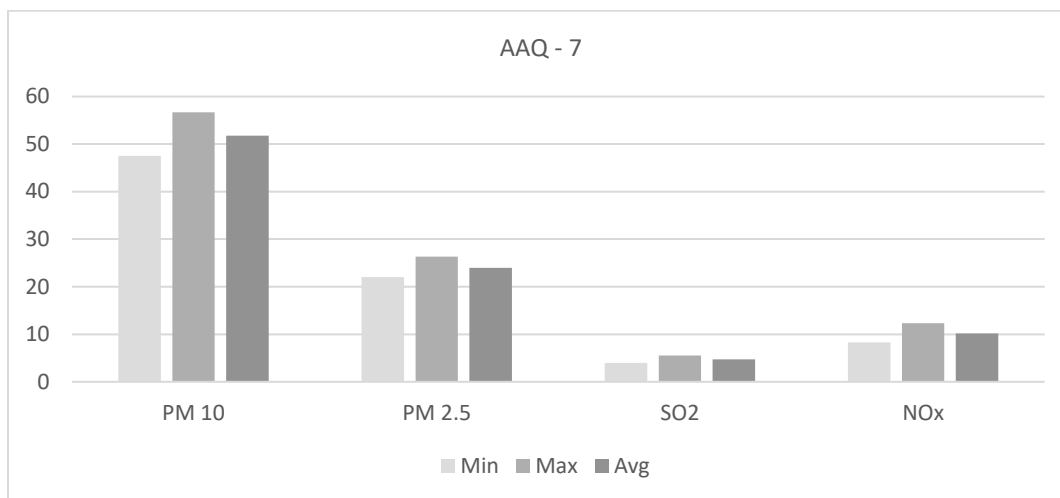


FIG 3.12 AMBIENT AIR QUALITY DATA A7 – KUNTHANIPALAYAM VILLAGE



From the above results, it is observed that the ambient air quality with respect to PM₁₀, PM_{2.5}, SO₂, and NO₂ at all the monitoring locations was within the permissible limits specified by CPCB.

3.3.3 WATER ENVIRONMENT

Assessment of baseline data on water environment includes:

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

Ground Water

The rainfall is the main source for the availability of water both in surface and sub-surface. The quantum of rainfall varies every year depending upon the monsoon. However, the extraction of surface and sub-surface water is increasing year by year. It leads to environmental impact on the water sources like depletion of water level, deterioration of water quality. It makes the demand for the quantification of available water and also its quality for various purposes like agriculture, industries, drinking and domestic purposes. Total six (06) ground water monitoring locations were

identified for assessment in different villages around the project site based on the usage of sub surface water by the settlements/ villages in the study area. The groundwater results are compared with the acceptable and permissible water quality standards as per IS: 10500 (2012) for drinking water. Groundwater quality monitoring locations and results are given in Table 3.5 and Figure 3.11.

Sampling Locations

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

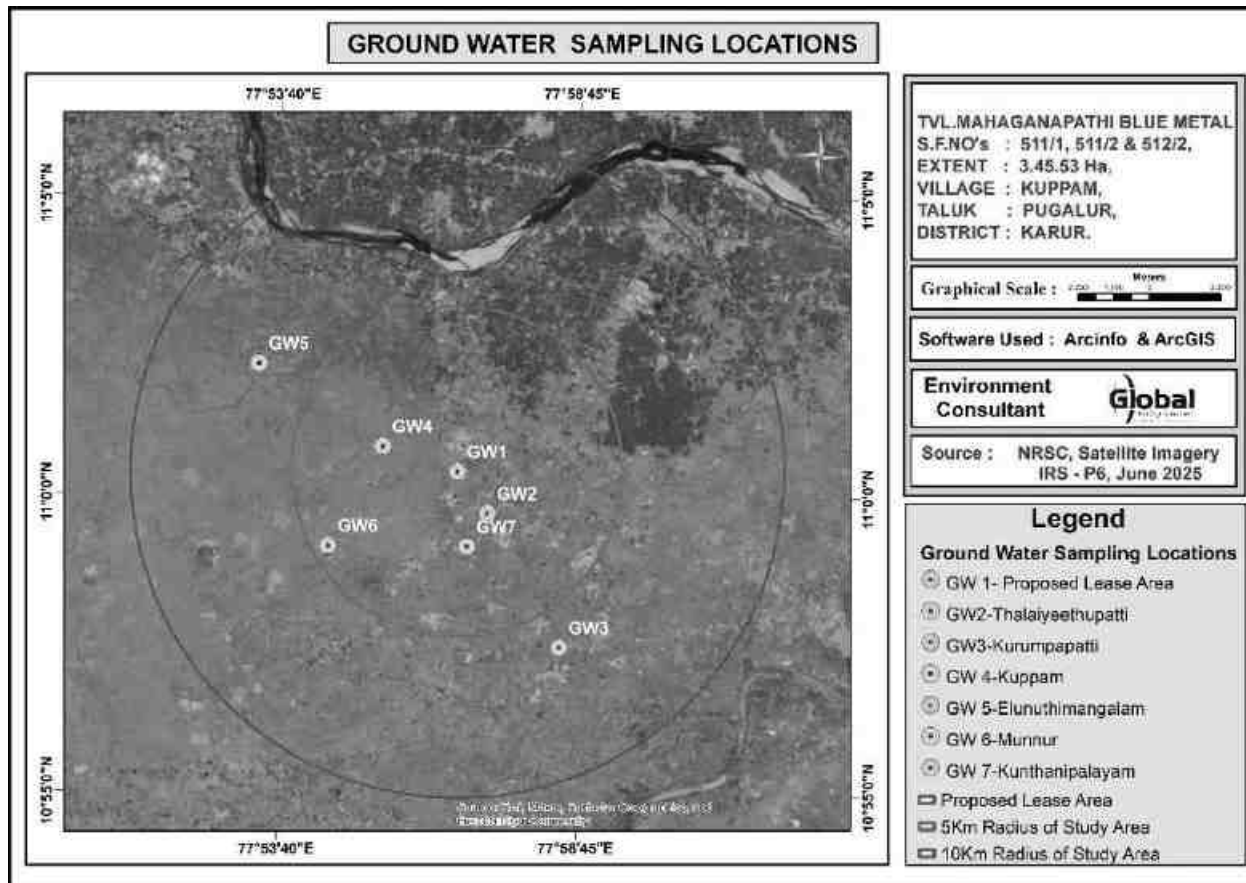
The monitoring locations were selected based on:

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

Table 3.5 Water Sampling Locations

S.NO	Location Code	Monitoring Locations	Latitude	Longitude
Ground Water				
1	GW1	Project site	11° 0'24.47"N	77°56'41.34"E
2	GW2	Thalaiyeethupatti	10°59'42.91"N	77°57'12.38"E
3	GW3	Kurumpapatti	10°57'28.63"N	77°58'27.08"E
4	GW4	Kuppam	11° 0'48.62"N	77°55'25.75"E
5	GW5	Elunuthimangalam	11° 2'12.10"N	77°53'18.87"E
6	GW6	Munnur	10°59'9.22"N	77°54'30.59"E
7	GW7	Kunthanipalayam	11° 1'54.43"N	77°56'52.17"E

FIG 3.13 BASE MAP OF GROUND WATER SAMPLING LOCATIONS



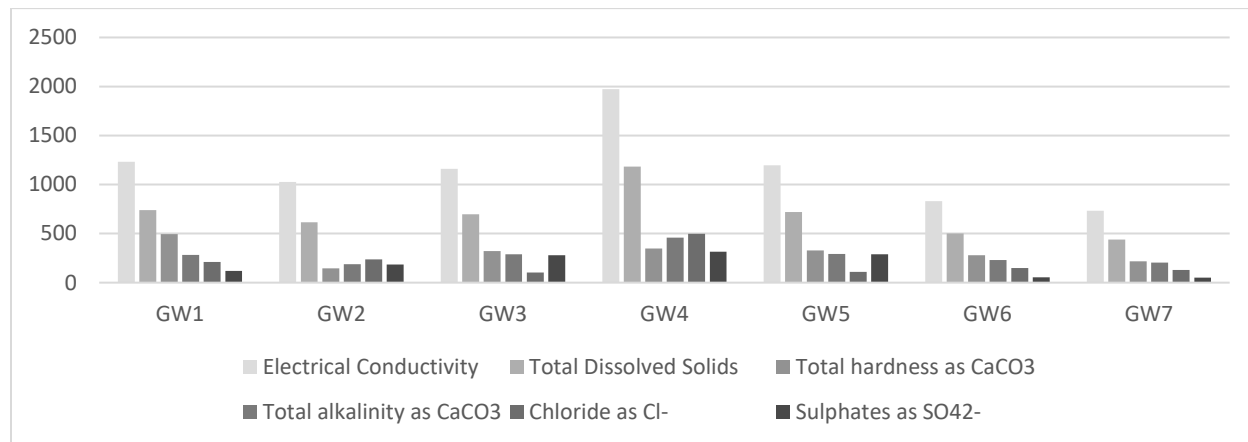
The samples were analyzed by Shrient Analytical & Research Labs Private Limited; Chennai and the results are summarized above.

DRAFT EIA/EMP FOR THE PROPOSED ROUGH STONE AND GRAVEL QUARRY OF TVL. MAHAGANAPATHI BLUE METAL AT S.F.NO. 511/1, 511/2 AND 512/2 OVER AN EXTENT OF 3.45.53 HA IN KUPPAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE.

PARAMETERS	GW1	GW2	GW3	GW4	GW5	GW6	GW7	Limits
								Permissible Limits
Odour	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	Agreeable
Turbidity	<1	<1	<1.0	<1.0	<1.0	<1	<1	5
pH at 25 °C	7.39	7.89	7.32	7.45	7.41	7.21	7.94	6.5- 8.5
Electrical Conductivity	1232	1025	1159	1972	1196	831.6	732.5	-
Total Dissolved Solids	740	616	696	1182	720	502	440	2000
Total hardness as CaCO ₃	494	145	322	348	330	280	218	600
Calcium as Ca	106.8	27.88	64.8	80.8	66	70.4	48.8	200
Magnesium as Mg	54.5	18.1	38.4	35.0	39.6	25.0	23.0	100
Calcium as CaCO ₃	267	69.7	162	202	165	176	122	-
Magnesium as CaCO ₃	227	75	160	146	165	104	96	-
Total alkalinity as CaCO ₃	282	189	290	460	292	230	205	600
Chloride as Cl ⁻	210	236	102	498	110	148	130	1000
Free Residual chlorine as Cl ⁻	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL(DL-0.2)	BDL(DL-0.2)	BDL(DL-0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	1
Sulphates as SO ₄ ²⁻	120	184	280	316	290	54.4	50.2	400
Iron as Fe	0.09	0.05	BDL(DL-0.01)	BDL(DL-0.01)	BDL(DL-0.01)	0.06	0.06	0.3
Nitrate as NO ₃	2.45	2.74	3.56	4.65	3.89	2.11	1.49	45
Fluoride as F	0.55	0.48	0.36	0.49	0.44	0.57	0.45	1.5
Manganese as Mn	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL(DL-0.05)	BDL(DL-0.05)	BDL(DL-0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	0.3

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

FIG 3.14 VALUES OF FEW COMMON PARAMETERS IN WATER ANALYSIS



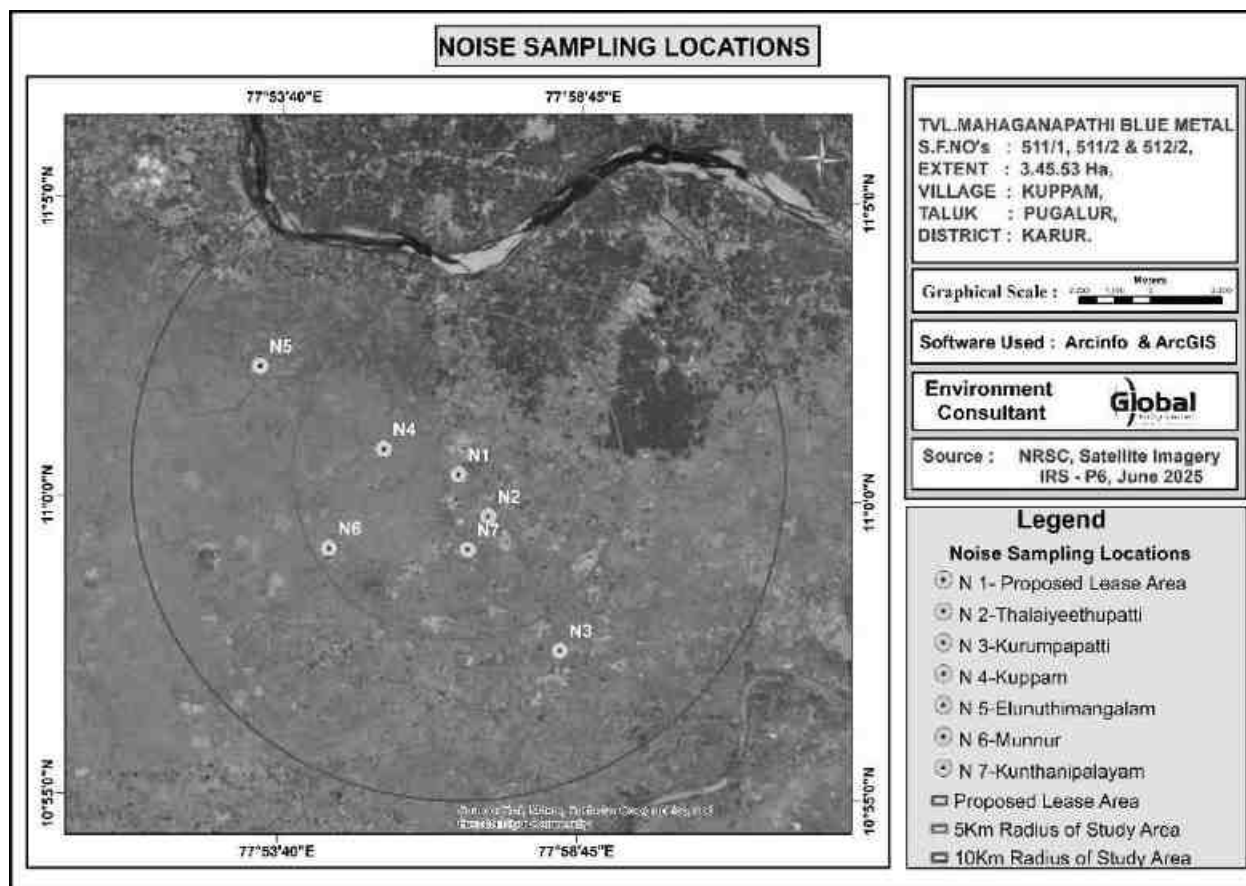
All the values were found to be within the permissible limits.

3.3.4 NOISE MONITORING

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

The noise monitoring locations are given in Fig 3.14

FIG 3.15 BASE MAP OF NOISE MONITORING LOCATIONS

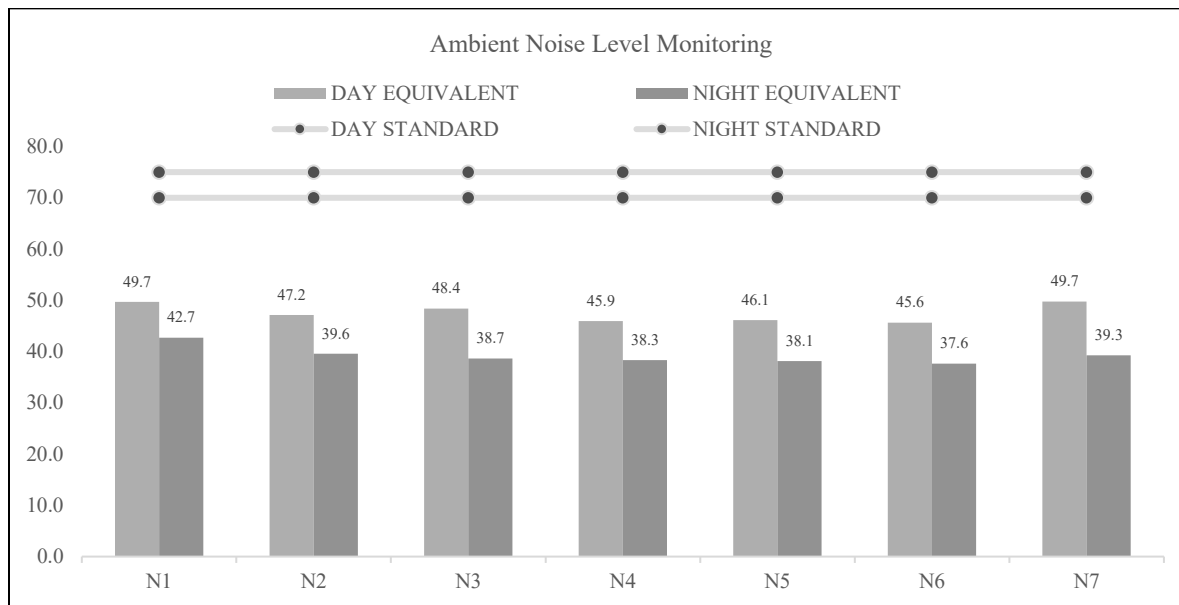


The results are given in Table below.

Table 3.7 Noise monitoring results					
S. No	Location	Day equivalent	Night equivalent	Day equivalent limits by CPCB	Night equivalent limits by CPCB
1	Project site	49.7	42.7	75	70
2	Thalaiyeethupatti village	47.2	39.6		
3	Kurumpapatti	48.4	38.7		
4	Kuppam village	45.9	38.3		
5	Elunuthimangalam village	46.1	38.1		
6	Munnur village	45.6	37.6		
7	Kunthanipalayam Village	49.7	39.3		

The results are plotted as below.

FIG 3.16 DAY AND NIGHT EQUIVALENT VALUES IN 7 LOCATIONS

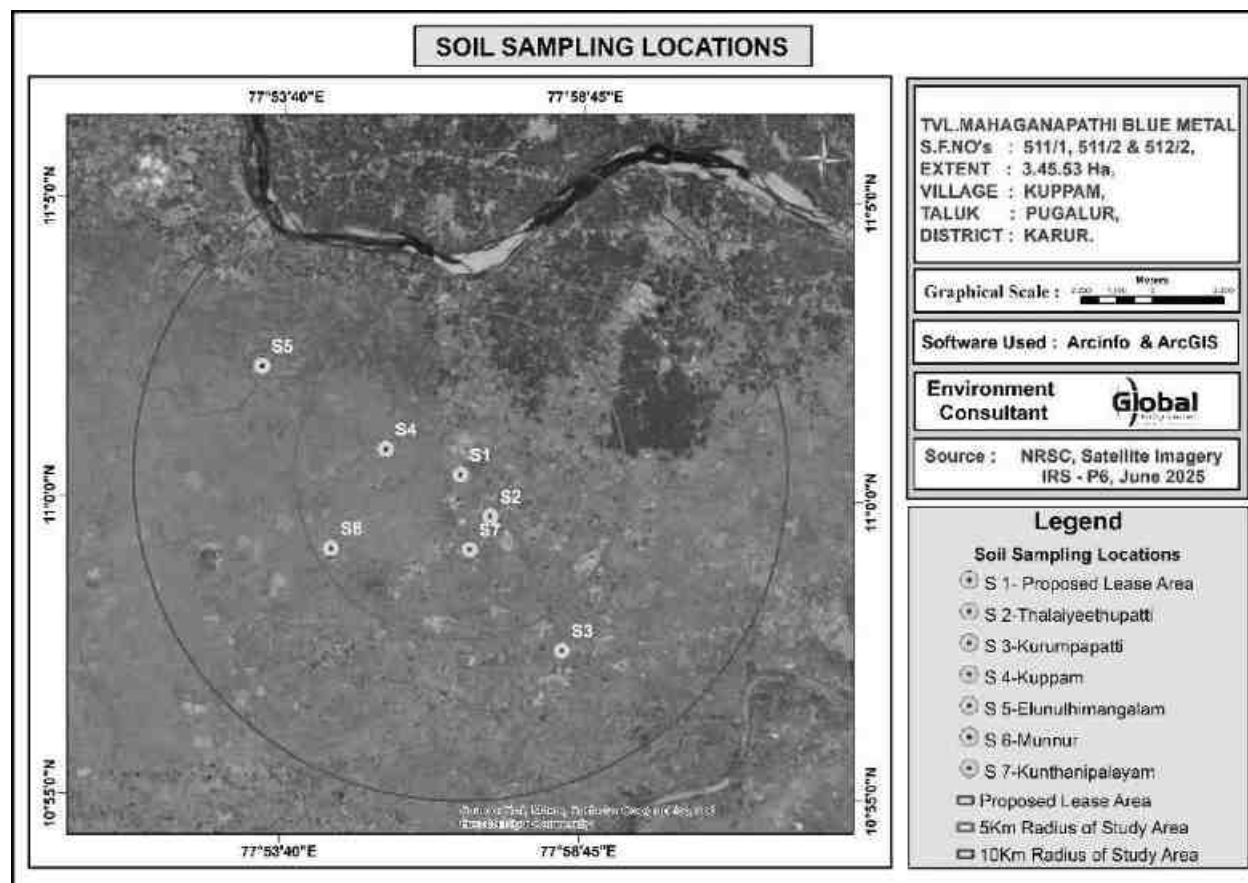


All the values are found to be within CPCB norms.

3.3.5 SOIL SAMPLING ANALYSIS

Soil samples have been collected from the mine lease area and 6 other locations from Thalayeetupatti village, Kurumpapatti, Kuppam village, Elunuthimangalam village, Munnur Village and Kunthanipalayam village. The locations are shown in figure below.

FIG 3.17 BASE MAP OF SOIL SAMPLING LOCATIONS



The results are summarized in the table below.

PARAMETER	S1	S2	S3	S4	S5	S6	S7
PH	8.12	6.37	6.72	6.28	6.78	6.86	6.44
EC	94.78	76.53	186.5	48.95	162.4	90.24	65.98
DRY CONTENT	89.78	95.77	96.41	95.21	93.24	94.31	95.66
WATER CONTENT	10.22	4.23	3.59	4.79	6.76	5.69	4.34
ORGANIC MATTER	0.45	0.78	1.05	1.21	1.05	1.32	0.94
TOTAL SOLUBLE SULPHATE	BDL(D.L.O .02)	BDL(D.L.O .02)	BDL(D.L.O .02)	BDL(D.L.O .02)	BDL(D.L.O .02)	BDL(D.L.O .02)	BDL(D.L.O .02)
PHOSPHOROUS	0.87	1.34	2.76	1.78	2.12	2.41	2.97
TEXTUER	SILT LOAM	silt loam	silty clay loam	silty clay	silty clay loam	loam	silt loam
SAND	26.58	24.37	13.36	8.94	13.35	33.74	29.05
SILT	58.52	68.24	48.25	47.55	47.58	49.56	53.33
CLAY	14.90	7.39	38.39	43.51	39.07	16.70	17.62

NITROGEN & NITREGENOUS COMPOUNDS	342	625	302	261	284	441	220
SODIUM	765	575	1060	412	1032	394	346
POTASSIUM	513	744	884	650	856	625	717
Water Holding Capacity	41	40	42	38	42	42	41
Porosity	19.6	17.5	19.6	18.2	19.3	20.2	19.8

3.3.6 BIOLOGICAL ENVIRONMENT

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

Flora in the study area

Field survey is done. For measuring the extent of flora present in the study area, the area is divided in to 4 quadrants. The flora population in each quadrant is summed up for the total population in the study area. Also, data from the State Forest department is used.

Core Zone

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

Table 3.9 Flora in Core Zone			
S.No.	Scientific name	Vernacular/English name	Type of flora
1	<i>Borassus flabellifer</i>	Pana Nangu	Trees
2	<i>Lantana trifolia</i>	Unnichedi	Shrubs
3	<i>Calotropis gigantea</i>	Erukku	
4	<i>Cassia auriculata</i>	Aavarai	
5	<i>Achyranthes aspera</i>	Nayuruvi	

Buffer zone

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

Table 3.10 - Flora in Buffer zone			
S.No.	Scientific name	Vernacular/English name	Type of flora
1	<i>Ficus Carica</i>	Athi Maram	Trees
2	<i>Acacia nilotica</i>	Karuvelai	
3	<i>Azadirachta indica</i>	Neem	
4	<i>Cassia auriculata</i>	Aavarai	
5	<i>Casuarina equisetifolia</i>	Savukku	
6	<i>Albizia amara</i>	Arappu	
7	<i>Cocos nucifera</i>	Thennai	
8	<i>Acacia nilotica</i>	Karu- velamaram	
9	<i>Tamarindus indica</i>	Puli	
10	<i>Delonix regia</i>	Cemmayir Konrai	
11	<i>Ficus benghalensis</i>	Aalamaram	
12	<i>Borassus flabelliformis</i>	Panna-maram	
13	<i>Ficus religiosa</i>	Arasamaram	
14	<i>Carica papaya</i>	Papaya	
15	<i>Tectona grandis</i>	Thekku	
16	<i>Ziziphus mauritiana</i>	Elandai	
17	<i>Thespesia populnea</i>	Poovarasam	
18	<i>Jatropha gossypifolia</i>	Kaatamanaku	Shrubs
19	<i>Hibiscus rosa sinensis</i>	Sembaruthi	
20	<i>Euphorbia geniculata</i>	Amman Pacharisi	
21	<i>Calotropis gigantea</i>	Yerukku	
22	<i>Ricinus communis</i>	Aamanakku	
23	<i>Tecoma stans</i>	Arali	
24	<i>Aloe vera</i>	Kathalai	
25	<i>Catharanthus roseus</i>	Nithyakalyani	Herbs
26	<i>Acalypha indica</i>	Kuppaimeni	
27	<i>Mimosa pudica</i>	Thottacherungi	
28	<i>Tephrosia purpurea</i>	Wild indigo	
29	<i>Coccinia grandis</i>	Kovai	Climbers
30	<i>Cissus quadrangularis</i>	Pirandai	
31	<i>Jasminum angustifolium</i>	malli	
32	<i>Ziziphus oenoplia</i>	Ilandai	
33	<i>Cymbopogon</i>	Kanam	Grasses
34	<i>Cyperus rotundus</i>	Kora grass	
35	<i>Cynodon dactylon</i>	Arugu	

Fauna in the study area

Table 3.11 - Fauna in buffer zone				
S.No.	Scientific name	Common name	Type of fauna	Schedule of wild life protection act
1	<i>Funambulus pennanti</i>	Palm Squirrel	Mammals	IV
2	<i>Funambulus palmarum</i>	Three striped palm squirrel		IV
3	<i>Mus rattus</i>	Indian rat		IV
4	<i>Felis catus</i>	Cat		-
5	<i>Canis lupus familiaris</i>	Indian dog		-
6	<i>Bos Indicus</i>	Indian Cow		-
7	<i>Sus scrofa domesticus</i>	Domestic pig		-
8	<i>Lepus nigricollis</i>	Indian Hare		IV
9	<i>Mus musculus</i>	Common Mouse		IV
10	<i>Bufo melanostictus</i>	Toad	Reptiles & Amphibians	IV
11	<i>Chameleon zeylanicum</i>	Chameleon		IV
12	<i>Bungarus caeruleus</i>	Common krait		IV
13	<i>Ptyas mucosa</i>	Rat snakes		IV
14	<i>Rana hexadactyla</i>	Frog		IV
15	<i>Calotes versicolor</i>	Lizard		IV
16	<i>Bubulcus ibis</i>	Cattle Egret	Birds	IV
17	<i>Coracias benghalensis</i>	Indian Roller		IV
18	<i>Corvus splendens</i>	Common Crow		V
19	<i>Passer domesticus</i>	House Sparrow		IV
20	<i>Acridotheres tristis</i>	Common Myna		IV
21	<i>Streptopelia chinensis</i>	Pigeon		V

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

3.3.7 LAND USE

Remote Sensing Satellite Data Used for the Study

For Land-use and land cover study, sensing satellite data of Geo EYE has been used as per Figure No. 1. A land use map showing 10 Km radial distance. The geographical coordinates of the project are Latitude 11°00'21.62"N to 11°00'27.71"N and Longitude: 77°56'37.99"E to 77°56'45.37"E.

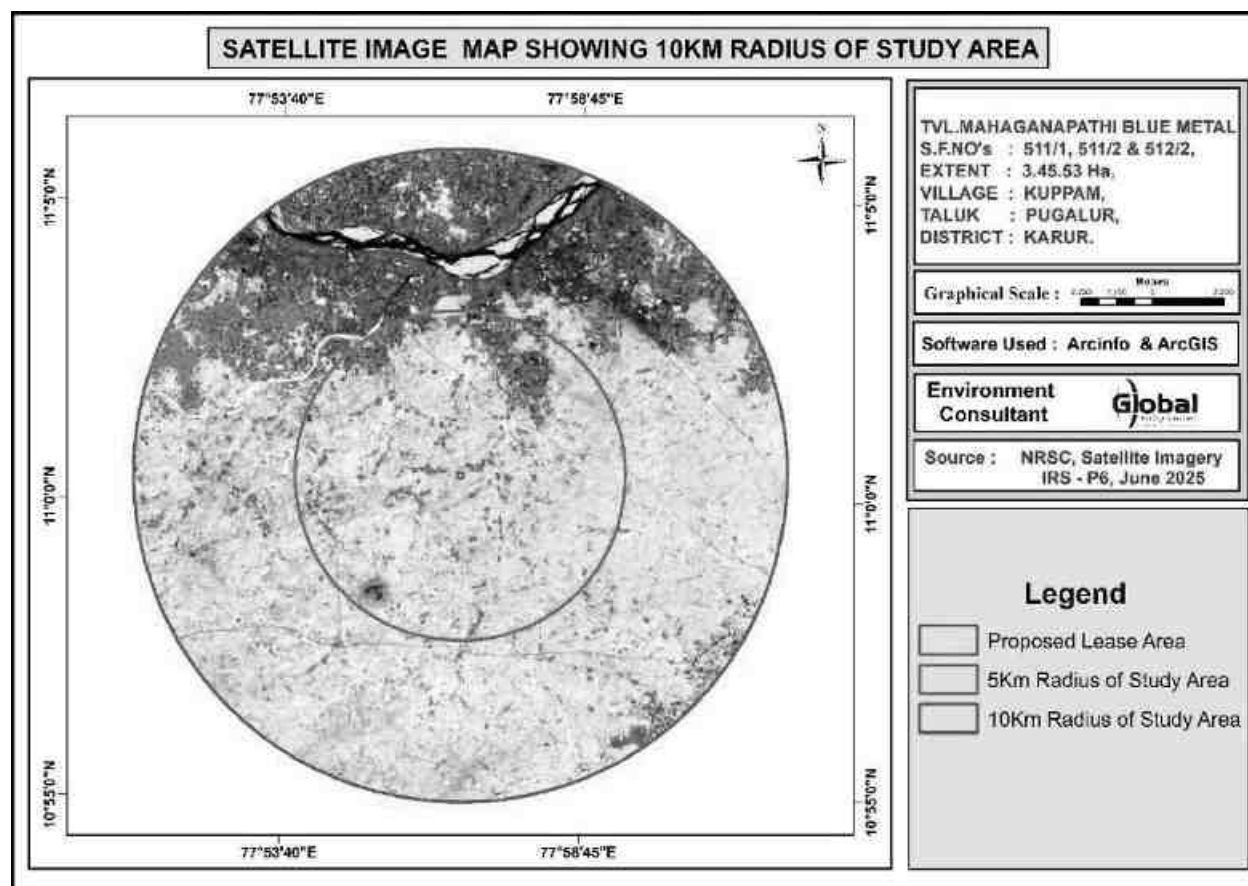


Figure No. 3.18: Remote Sensing Satellite Image

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

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

Methodology Adopted for the Land Use Study

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

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

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

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

Field Verification:

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

Table No.3.12: Major Land use Units of the Study Area

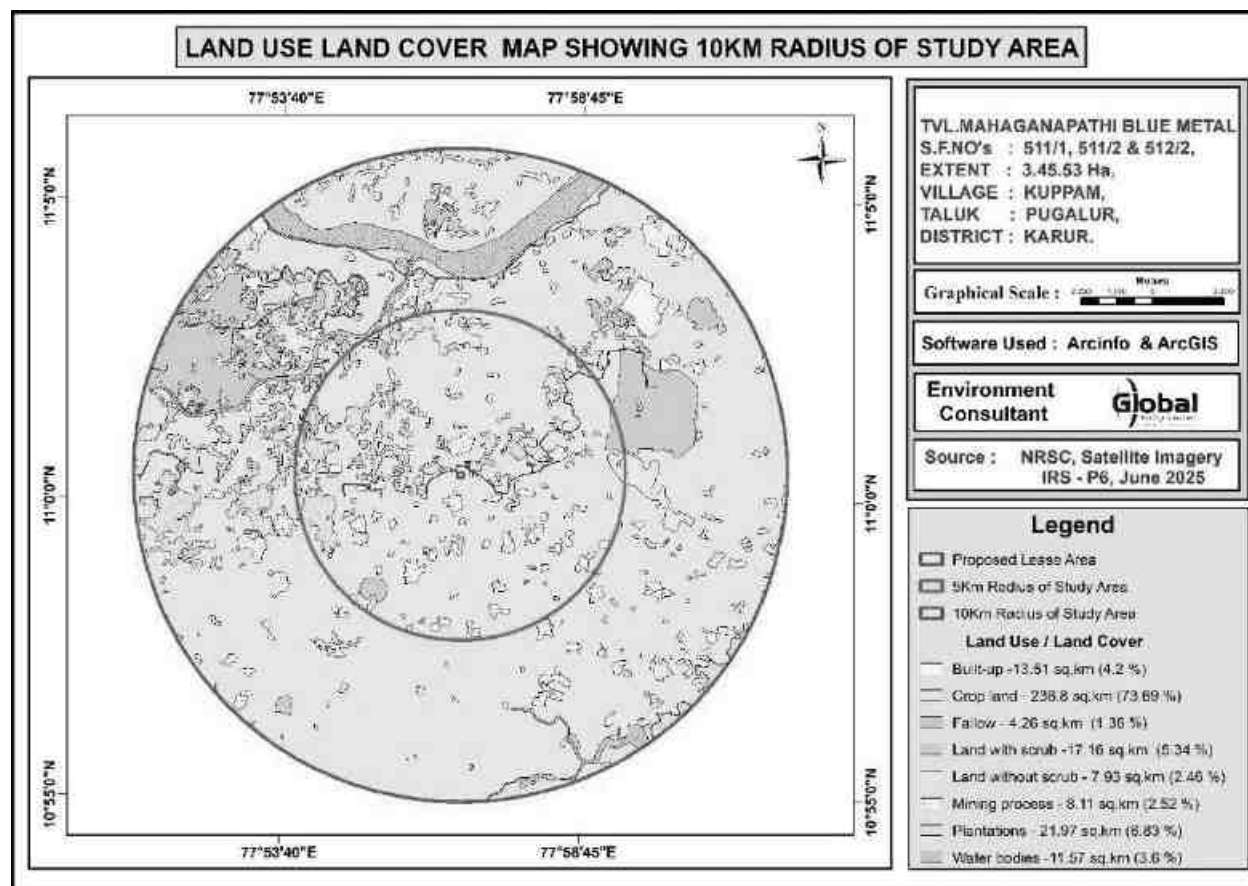
Sr.No	1st level classification	2nd level classification
1	Built-Up Or Habitation	Residential
		Commercial / Industrial
2	Agriculture	Crop / Fallow Land
		Plantation
3	Water Bodies	Reservoir / Lake / Pond
		River
4	Vegetation Cover	Scrub
		Open Vegetation
		Close Vegetation
		Mangroves
5	Waste Land	Open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

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

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

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

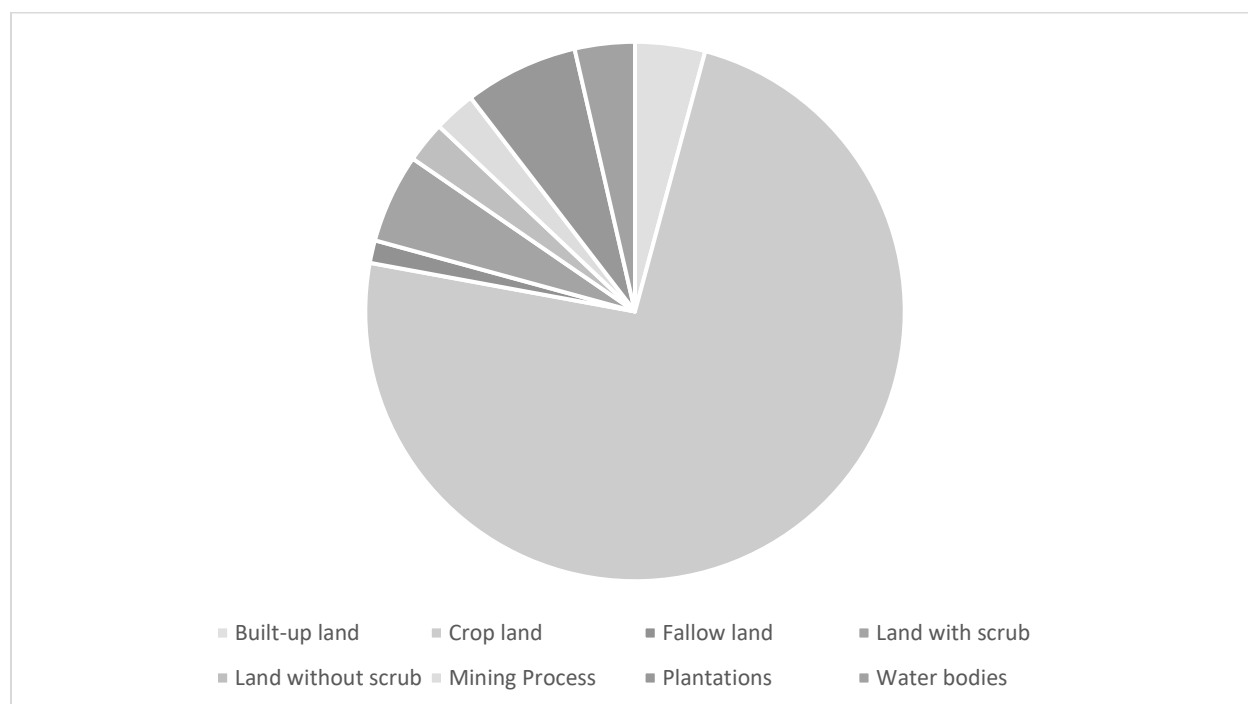
FIG 3.19 LAND USE/LAND COVER MAP OF THE STUDY AREA



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

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

Sl.No.	Land Use / Land Cover	Area in Sq.Km	Area in Percentage
1	Built-up land	13.51	4.2
2	Crop land	236.8	73.69
3	Fallow land	4.26	1.36
4	Land with scrub	17.16	5.34
5	Land without scrub	7.93	2.46
6	Mining Process	8.11	2.52
7	Plantations	21.97	6.83
10	Water bodies	11.57	3.6
	Total Area	321.31	100



It is inferred that the majority of the land in the study area is Agriculture land (includes crop land) 73.69% followed by Plantations. The total built up mining area within the study area is 2.52%. The cluster area of contributes about 0.97% of the total mining area within the study area. This small percentage of Mining Activities shall not have any significant impact on the environment.

3.3.8 SOCIOECONOMIC ENVIRONMENT

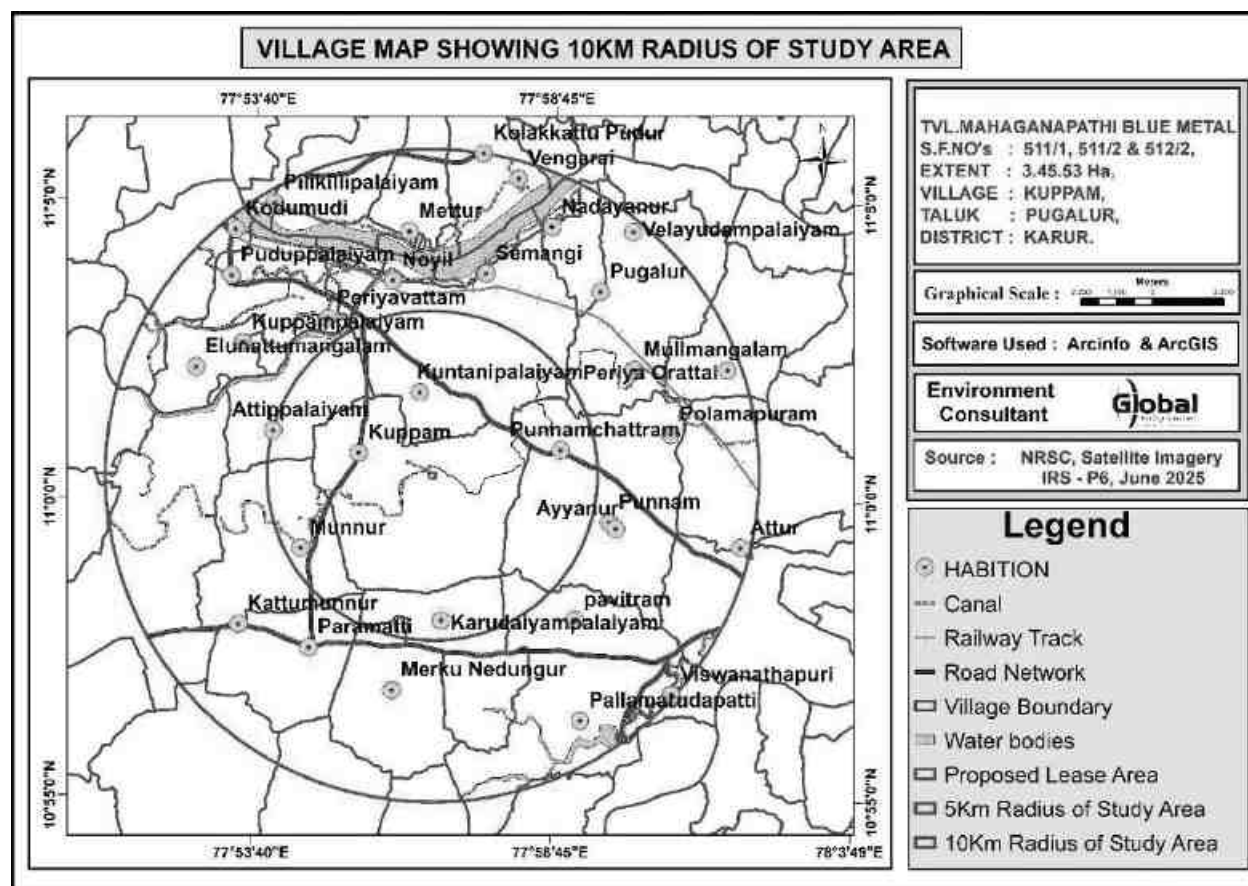
The socio-economic environment of the study area is studied by conducting primary sites through site visits and conducting sample surveys. The secondary data obtained from Census 2011 is also used. The following data area collected from secondary data:

- Demographic pattern.
- Health pattern
- Occupational structure.

DETAILS OF VILLAGES

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

FIG 3.20 VILLAGE MAP OF THE STUDY AREA



DETAILS OF VILLAGES

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

Table 3.14 - Village details in study area				
S.No.	Village/Town Name	Radius	Taluk Name	District Name
1	Kuppam	1-5km	Pugalur	Karur
2	Attipalayam			
3	Kuntanipalaiyam			
4	Punnamchattram			
5	Karudaiyampalaiyam			
6	Munnur			
7	Kattumunnur	6-10km		
8	Paramatti			
9	Merku Nedungur			
10	Pallamarudapatti			
11	Viswanathapuri			
12	Pavitrarn			
13	Ayyanur			
14	Punnam			
15	Attur			
16	Polamapuram			
17	Periya Orattai			
18	Mullmangalam			
19	Pugalur			
20	Velayudampalaiyam			
21	Semangi			
22	Nadayanur			
23	Vengarai			
24	Mettur			
25	Kolakkatu Pudur			
26	Pilikillipalyam			
27	Kodumudi			
28	Pudupalaiyam			
29	Periyavattam			

30	Kuppampalaiyam			
31	Elunattumangalam			

The total population is 36728 which comprise of 18167 males and 18561 females. The table below shows that the male and female population ratios are equal. Among the total population 1.6% belong to Scheduled Tribes, 20.35% are Scheduled Caste and the balance 78.05% people belong to other castes. Among the total population, 65.22% of the people are literate. Among the total population, 37.45% are literate males and 27.77% are literate females. Also the total population, 46.41% are total workers and 53.59% are total non-workers. This results shows that the male literates are higher than the female literates.

Table 3.15 - Population profile of the study area		
Particulars	No of Population	Percentage (%)
A. Population break-up by Gender		
Male Population	18167	49.95
Female Population	18561	50.05
Total	36728	100
B. Population break-up by Caste		
Scheduled Caste	10191	20.35
Scheduled Tribes	11	1.6
Others	26526	78.05
Total	36728	100
C. Literacy Level		
Male Literate Population	13754	37.45
Female Literate Population	10201	27.77
Male Illiterate	4413	12.02
Female Illiterate	8360	22.76
Total	36728	100
D. Occupational structure		
Total Workers	23648	46.41
Total Non-workers	13080	53.59
Total	36728	100

The results are plotted in figures below.

FIG 3.21 GENDER-WISE POPULATION DISTRIBUTION

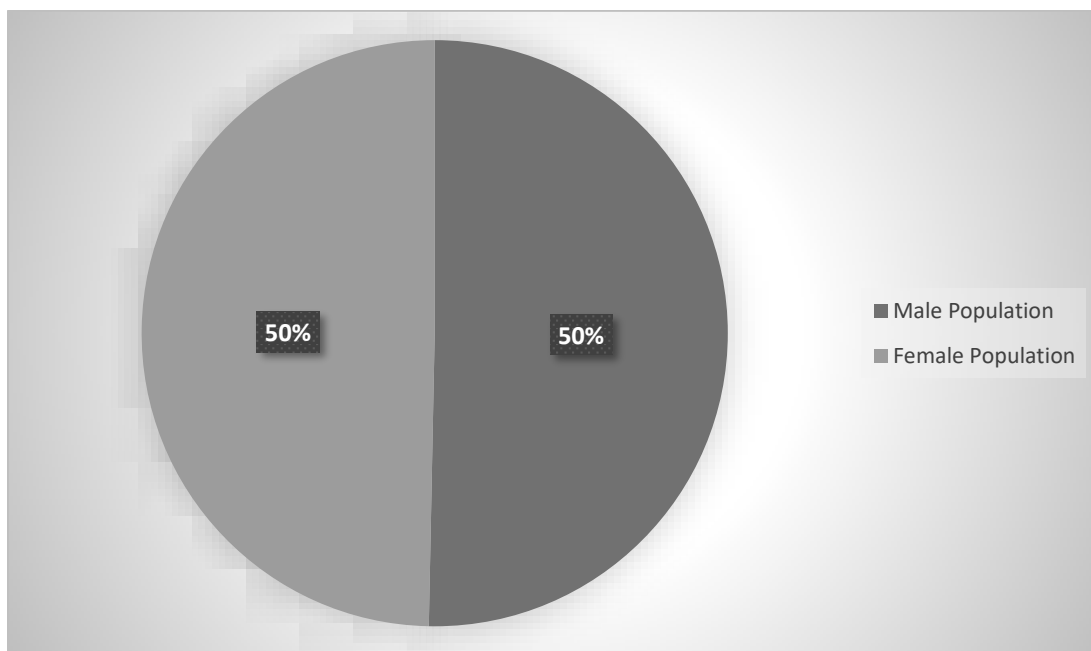


FIG 3.22 GENDER WISE LITERACY DISTRIBUTION

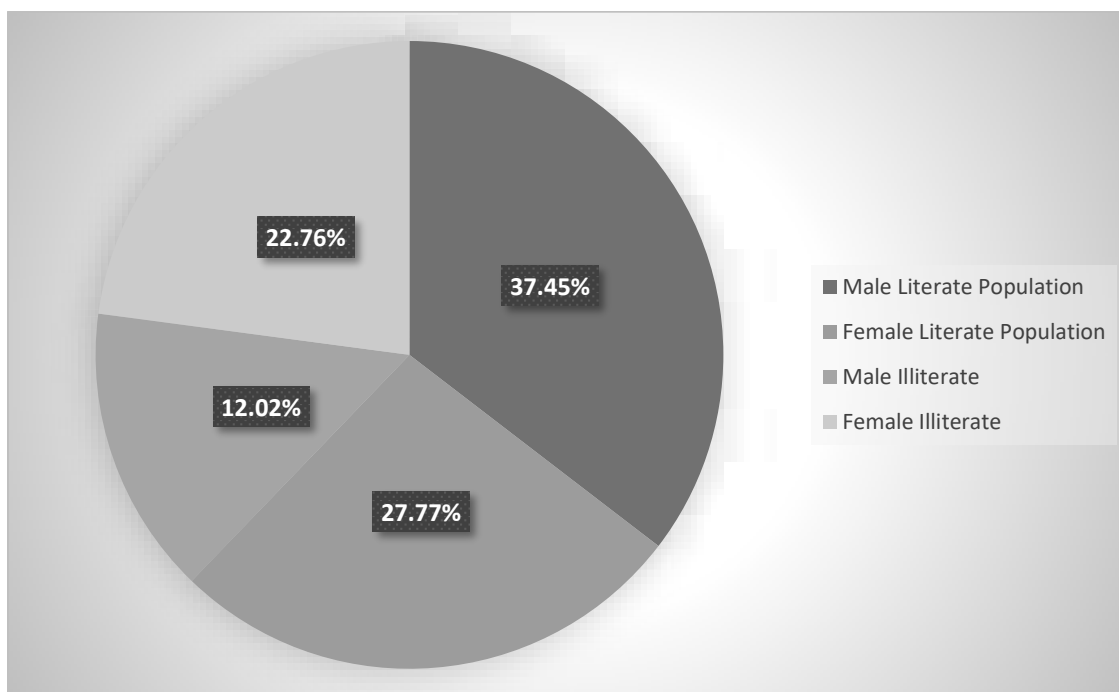
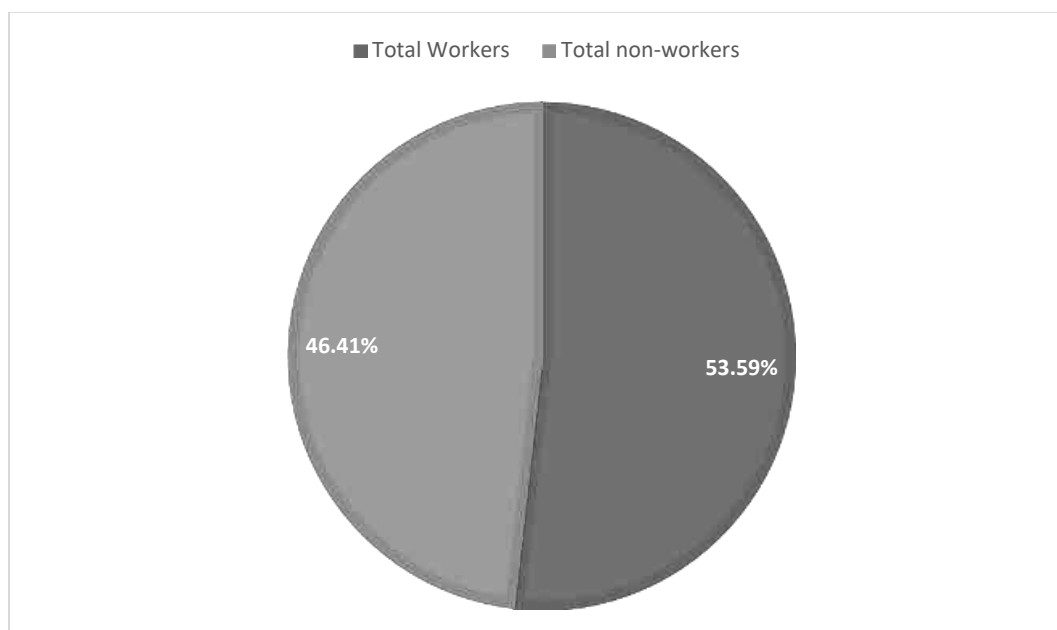


FIG 3.23 OCCUPATIONAL STRUCTURE WITHIN BUFFER ZONE



Infrastructure facilities in the study area

Education

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

S. No.	Particulars	Available in village (Nos)
1	Govt. Primary School	17
2	Govt. Middle School	10
3	Govt. Secondary School	4
4	Govt. Senior Secondary School	2
5	Govt. Arts and Science Degree College	0
6	Govt. Engineering College	0
7	Govt. Medicine College	0
8	Govt. Management Institute	0
9	Govt. Polytechnic	0
10	Govt. Vocational Training School/ITI	0

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

Healthcare

In the study area, the following facilities are available.

Table 3.17 Medical Infrastructure-10 km radius from proposed mine lease		
S.No.	Particulars	Available in village (Nos)
1	Community Health Centre	0
2	Primary Health Centre	2
3	Primary Health Sub Centre	9
4	Maternity And Child Welfare Centre	2
5	TB Clinic	2
6	Hospital Allopathic	0
	Veterinary Hospital	4

Other Infrastructure

The other infrastructure facilities available are given below.

Table 3.18 Other Infrastructure-10 km radius from proposed mine lease		
S.No.	Particulars	Available in village
1	Tap Water-Treated	18
2	Covered Well	14
3	Hand Pump	12
4	Tube Wells/Borehole	17
5	Post office	2
6	Public bus services	15
7	Commercial Bank	2
8	Cooperative bank	2

Sample Survey

The expert visited 5 villages in the study area namely Kuppam village, Kurumpapatti, Pudukkanali village, Thalayeetupatti village and Munnur village. Discussions were held with the people from nearby locality to study the social and economic conditions prevailing in the area. The expert also visited nearby hospitals, primary health centres and Nalmukkal. The following observations were made.

Primary schools are available in many villages. For hospital facilities, people in the locality have to go to hospital in Viswanathapuri which is about 9 Km from the lease area. Major schools with higher secondary and senior secondary schools are located

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

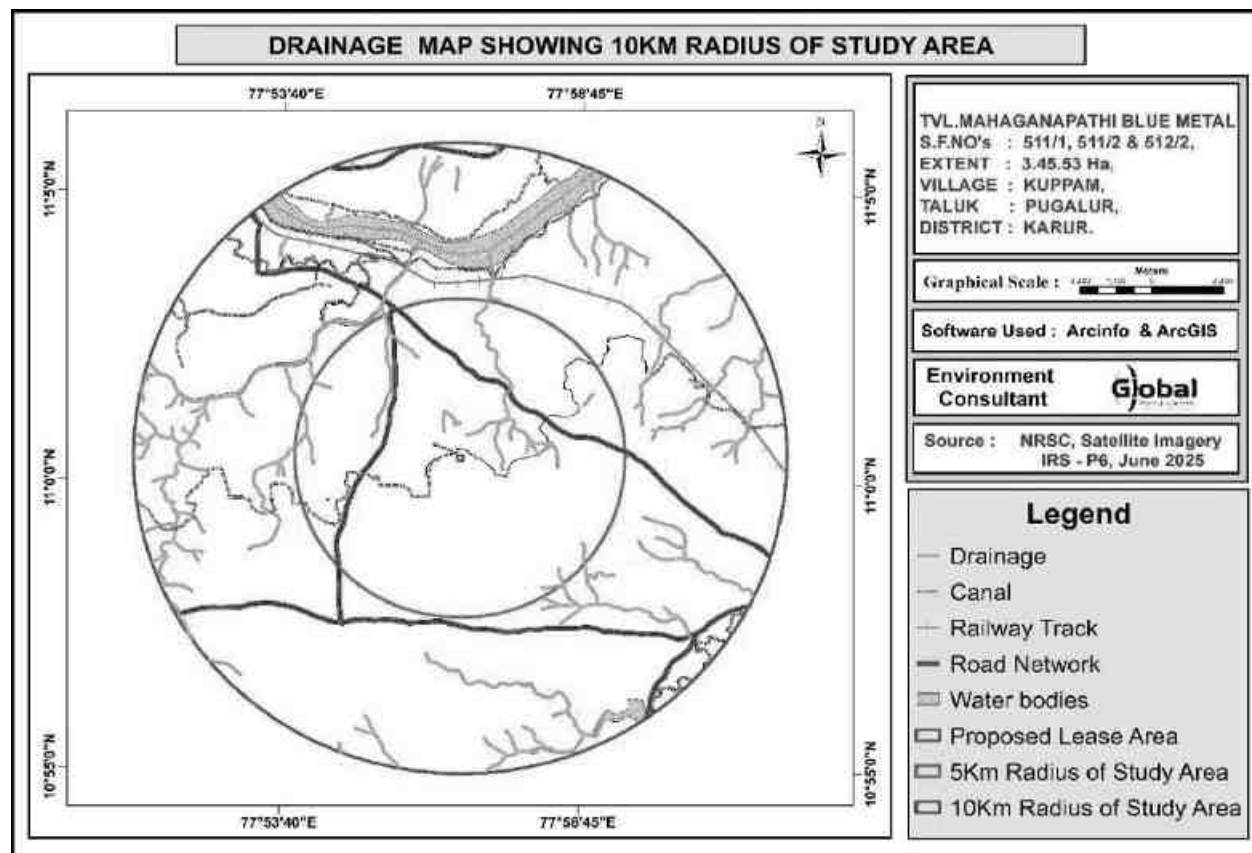
3.3.9 HYDROGEOLOGY OF THE STUDY AREA

There is Noyyal River is located at a distance of 5.1 km in NW direction of lease area. The hydrological and hydrogeological pattern of the study area is studied in detail using satellite imagery.

HYDROGEOLOGICAL STUDY

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

FIGURE 3. 24 10 KILOMETER RADIUS OF THE DRAINAGE MAP



PHYSIOGRAPHY AND DRAINAGE

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

Drainage: The drainage pattern study reveals that from the proposed mine lease area with around 1 Km radius and 10 Km study observed in Figure 3.20. There is Noyyal River is located at a distance of 5.1 km in NW direction of lease area of the proposed site.

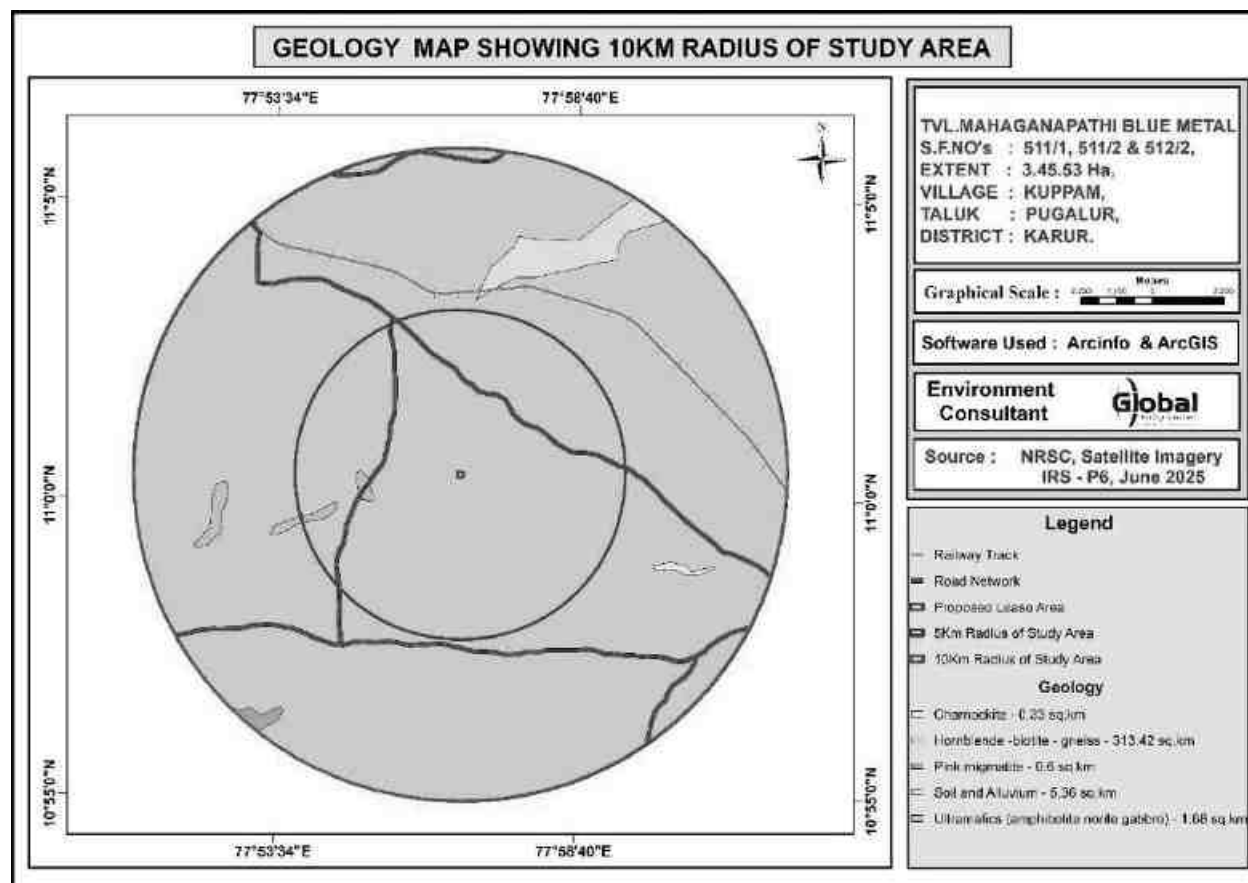
GEOLOGY, GEOMORPHOLOGY AND SOIL

Geology:

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

Sl.No	Geological description	Area in sq.km	Area in percentage
1	Charnockite	0.33	0.10
2	Hornblende-biotite gnesis	313.42	97.52
3	Pink migmatite	0.6	0.18
4	Soil and Alluvium	5.36	1.66
5	Ultramafics (amphibolite norite gabbro)	1.68	0.52
Total		321.39	100.00

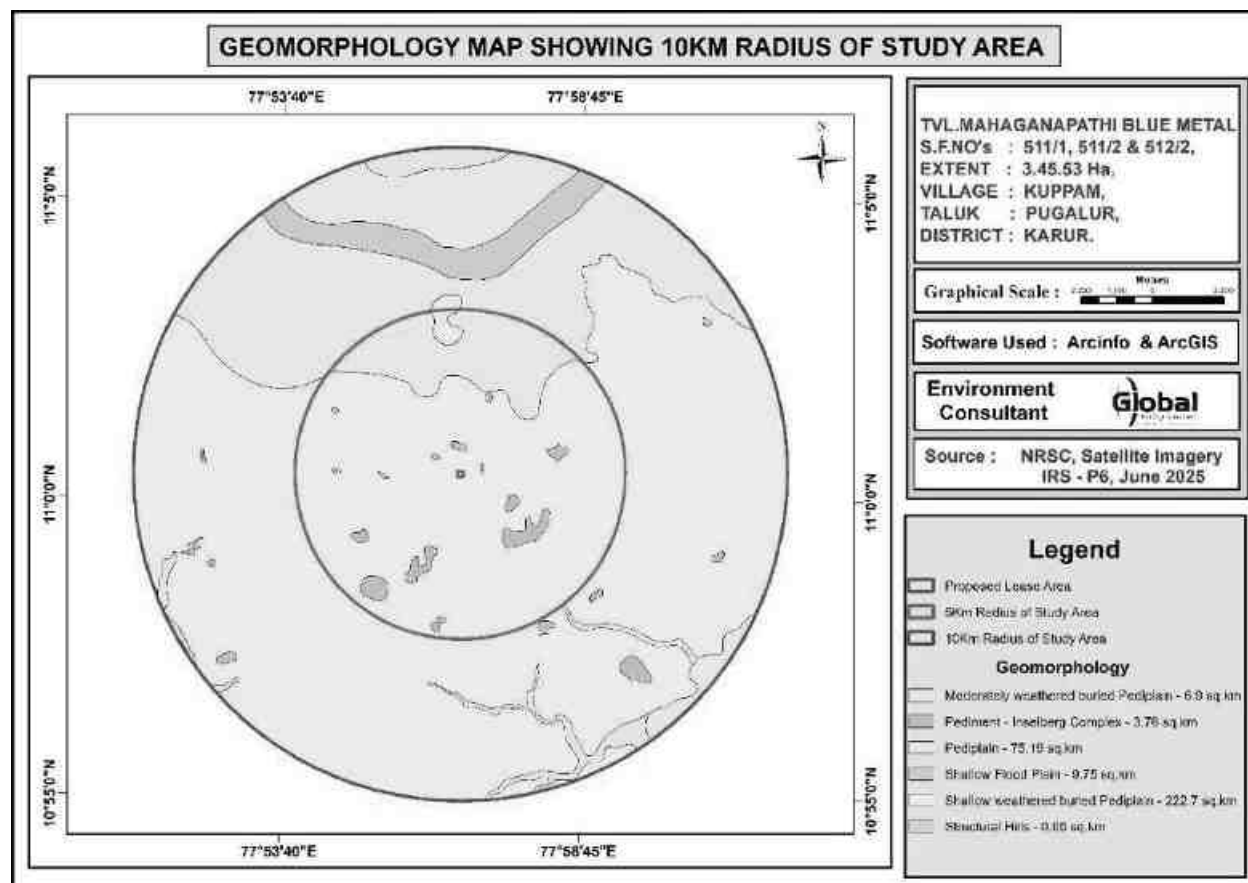
FIGURE 3. 25 10 KILOMETER RADIUS OF THE GEOLOGY MAP



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

S. No.	Geomorphological description	Area in Sq. Km	Area in Percentage
1	Moderately weathered buried pediplain	6.9	2.16
2	Pediment – Inselberg Complex	3.76	1.18
3	Pediplain	75.19	23.61
4	Shallow Flood Plain	9.75	3.06
5	Shallow Weathered Burried Pediplain	222.7	69.9
6	Structural Hills	0.06	0.01
Total		322.52	100.00

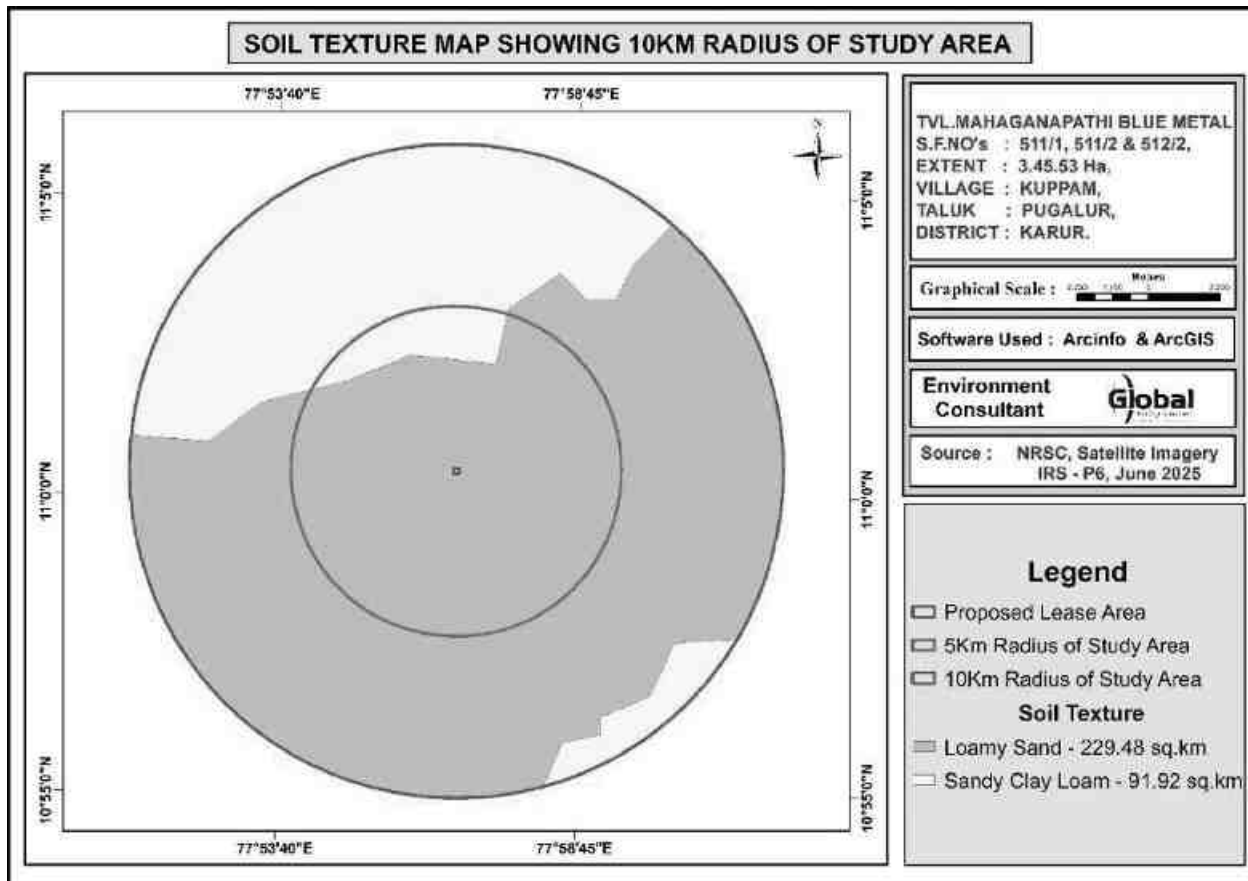
FIGURE 3. 26 10 KM RADIUS OF THE STUDY AREA GEOMORPHOLOGY MAP



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

S. No.	Soil drainage pattern	Area in Sq.km
1	Loamy Sand	229.48
2	Sandy Clay Loam	91.92

FIGURE 3.27 10 KM RADIUS OF THE STUDY AREA SOIL TYPE MAP



CHAPTER 4

ANTICIPATED ENVIRONMENTAL IMPACTS AND

MITIGATION MEASURES

INTRODUCTION

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

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

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

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

This is a proposed Rough Stone Quarry & Gravel Quarry of S. F. No. 511/1, 511/2 and 512/2 over an extent of 3.45.53 Ha in Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State. The method of mining is Opencast mechanized with a bench width and height of 5m. It is proposed to excavate to 720246 m³ of Rough Stone and 18264 m³ gravel formation up to a depth of 62 m (BGL) for the period of five years. There is no stream/odai within the mine lease area.

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

The entire mine lease area is Patta land. The project area of 3.45.53 Ha boundary barrier except in eastern direction. It is proposed to be altered by effective quarrying operation such as excavation (2.95.80 Ha), Infrastructure (0.01.0), Road (0.01.0 Ha) and green belt will be developed in the safety zone of 0.47.73 Ha. The ultimate depth of quarrying is proposed with maximum depth of 62m BGL and will not intersect the ground water table.

4.2 MEASURES FOR MINIMIZING AND /OR OFFSETTING ADVERSE IMPACTS

IDENTIFIED

Aspect	Impact	Mitigation measures										
Topography	The area is almost plain topography covered by rough stone and Gravel formation. Quarrying activity will lead to change in geological setting of the area i.e., Due to the quarrying activity in the mine lease area will leads to affect the aesthetic view on the environment. Further, due to the movement of heavy vehicles in and around the mine lease area will leads to affect the surrounding agricultural lands, ecology and biodiversity, human habitations due to the emissions from vehicles like SO ₂ , NO _x , PM ₁₀ , PM _{2.5} , etc., The existing land use pattern is given as under.	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 31 m Below ground level. At the end of mining period, the quarried pit will act as a water reservoir to store the rain water. Land Use at the end of mine will be as follows.										
		<table><tr><th>Land Use</th><th>Area in use during the quarrying period (Hect)</th></tr><tr><td>Area left for water body</td><td>2.95.80</td></tr><tr><td>Green Belt</td><td>0.47.73</td></tr><tr><td>Remaining area</td><td>0.02.00</td></tr><tr><td>Total</td><td>3.45.53</td></tr></table>	Land Use	Area in use during the quarrying period (Hect)	Area left for water body	2.95.80	Green Belt	0.47.73	Remaining area	0.02.00	Total	3.45.53
	Land Use	Area in use during the quarrying period (Hect)										
	Area left for water body	2.95.80										
	Green Belt	0.47.73										
	Remaining area	0.02.00										
	Total	3.45.53										
	</											

	The ultimate pit dimension of the mine lease area is given below.				<table><tr><td>V</td><td>konrai, Naval, Puvarasu, etc</td><td>-</td><td></td><td></td></tr><tr><td colspan="2">Total</td><td>480</td><td></td><td></td></tr></table>					V	konrai, Naval, Puvarasu, etc	-			Total		480			
	V	konrai, Naval, Puvarasu, etc	-																	
	Total		480																	
	<table><tr><th colspan="4">Pit dimension during end of the first five years</th></tr><tr><th>Pit No.</th><th>Length (max) (m)</th><th>Width (Avg) (m)</th><th>Depth (max) (m)</th></tr><tr><td>I</td><td>204</td><td>145</td><td>62</td></tr></table>				Pit dimension during end of the first five years				Pit No.	Length (max) (m)	Width (Avg) (m)	Depth (max) (m)	I	204	145	62	Due to the thick vegetation around the mine lease area and sprinkling of water around the haul roads the dust emissions arise from the vehicles will be controlled. At the end of mining period, fencing will be provided around the mine lease area to arrest the entry of public/cattle to the mining area. The rough stone and Gravel are proposed to quarry 5m bench height and 5m width with 45° slope and with conventional opencast Mechanized method. As per the approved mining plan a safety distance of 7.5m shall be provided. There is no overburden anticipated during the entire Rough Stone and Gravel quarrying operation. The excavated rough stone and Gravel will be directly loaded into tipper to the needy crusher/other buyers.			
Pit dimension during end of the first five years																				
Pit No.	Length (max) (m)	Width (Avg) (m)	Depth (max) (m)																	
I	204	145	62																	
If mining is not done systematically it will leads to the dumping failure in the mining area.																				
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 62m (BGL). The ground water table is reported as 77 m. In the proposed mining plan only 31m 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 62m below ground level and the nearby water table is 77m. 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 62m. In the post mining stage, the quarried out pit will be used for rainwater harvesting.

4.2.1 SOLID WASTE GENERATION AND MANAGEMENT

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

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

4.2.2 WATER ENVIRONMENT

Impact on Surface Water Resources

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

Noyyal River – 5.1 km (NW). Water table is found at a depth of 62m.

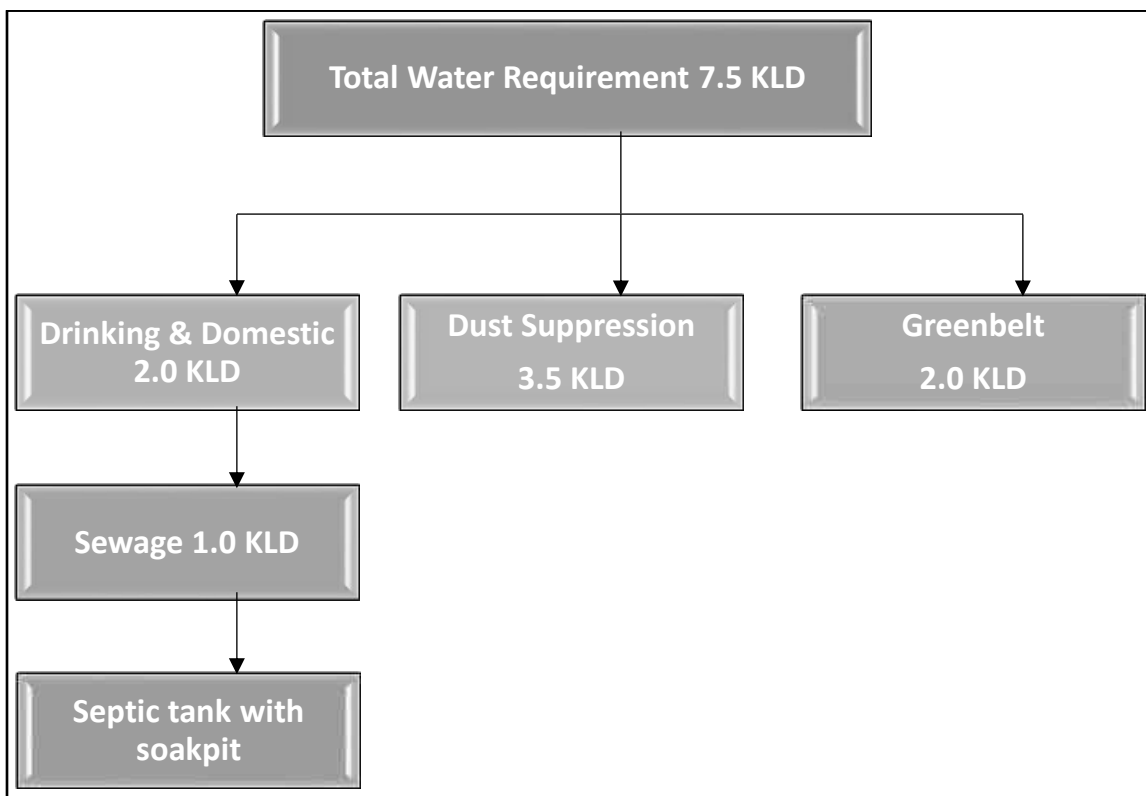
Since these water bodies are located outside the lease area and there is no discharge of effluent or any untreated water from the mines will be made into these water bodies, there is no major impact. The project proponent will restrict the mining operation only within the lease and no other work will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

Impact due to Water use in Mines

In the proposed mines water will be mainly used for domestic purpose, dust suppression & plantation. Total water requirement for the project is 7.5 KLD which will be sourced from outside agencies. Negligible sewage of 1.0 KLD will be generated,

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

FIG 4.1 WATER BALANCE DIAGRAM



Impact on Ground Water

The mining activity is not likely to intersect ground water as the ground water table occurs at a depth of 77 m. The mining will go up to the maximum depth of 62 m BGL. So, there will be no chance of intersecting the ground water table by the mining activity. So, the impact of mining on the ground water is not envisaged.

Mitigation measures

- Entire lease area will be provided with proper garland drains.
- Check wears will be provided to prevent solids from wash off.

- Construction of garland drains around freshly excavated so that flow of water with loose material is prevented.
- The mine water will be passed through the natural slopes and valleys and gets accumulated in the settling tank (Bottom pit)

Ground water environment in buffer zone

The scenario of ground water in Karur District, Pugalur Taluk is given below.

TABLE 4.1 Ground Water Level Status in Villupuram District							
S. No.	Assessment Unit (Firka)	Net Annual Ground water availability	Existing gross ground water consumption for irrigation	Existing gross ground water consumption for domestic and industrial water supply	Existing gross ground water consumption for all uses	Stage of ground water development	Category
1	Pugalur	1,329.84	1,209.06	14.08	1223.15	92%	Critical

Source: nwm.gov.in

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

4.2.3 VEGETATIONVEGETATION IN THE CORE ZONE

The mine lease area is devoid of major plantation. Shrubs and bushes are majorly found within the lease area. The proponent has planned to develop green belt in an area of 0.47.73 Ha. Trees like Pongamia pinnata, Syzigium cumini, Albizia lebbeck, Thespesia populnea, Bauhinia racemose, Cassia siamea, Azadirachta indica will be planted around the mine lease area. A total of 480 trees are planned to be planted. Spacing will be 3m x 3m.

FAUNA

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

Table 4.2 Impacts and mitigation measures for Fauna		
S.No.	Impact	Mitigation measure
1	Fauna is affected due to noise and vibration.	Sirens will be blown before blasting in the mines. To reduce noise levels, plantation will be done. Blasting will be carried out only in the allotted time.
2	Dust generation due to mining activities	To reduce dust generation, mist sprayers will be used. During transportation, the material will be covered with tarpaulin. Water sprinkling will be done to reduce generation of pollutants.
3	Change in land use of the lease area	After the mine closure stage, the mine pit will be left as rain water collecting tank, which can attract bird population in the nearby areas.
4	Accidental falling of animals	To prevent entry of animals, the mine lease surrounding area will be properly fenced with barbed wire.

4.3 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF ENVIRONMENTAL COMPONENTS.

4.3.1 IMPACT DUE TO MINING OPERATION

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

4.3.2 IMPACT ON AIR ENVIRONMENT

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

4.3.3 Air Emissions

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

4.3.4 Quantitative Estimation of Impacts on Air Environment

An attempt has been made to predict the incremental rise of various ground level concentrations above the baseline status in respect of air pollution due to proposed is 720246 m³ of Rough stone and 18264 m³ of Gravel formation upto a depth of 62m (below ground level) for the period of first five years by the open-cast mechanised mining method.

Cluster quarries production Tvl. Mahaganapathi Blue Metal (7,20,246 Cu.m of Rough Stone, 18,264 Cu.m of gravel), Tmt. P. Amaravathi (272149 Cu.m of Rough Stone), Tvl. New Star Blue Metal (164992 m³ of Rough Stone)

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

The pollutants released into the atmosphere will disperse in the down wind direction and finally reach the ground at farther distance from the source. The concentration

of ground level concentrations mainly depends upon the strength of the emission source and micrometeorology of the study area.

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

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

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

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

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

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

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

Salient features of the AERMOD model are given hereunder:

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

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

4.3.5 Sources of Dust Emission

The proposed mining is carried out by mechanized opencast method. The air borne particulate matter generated by ore handling operations, transportation and screening of ore is the main air pollutant. The emissions of sulphur dioxide (SO₂), Oxides of Nitrogen (NO_x) contributed by diesel operated excavation/loading equipment and vehicles plying on haul roads are marginal. Prediction of impacts on air environment has been carried out taking into consideration proposed production and net increase in emissions. Based on the various operations involved in the production of minerals, the various emission sources has been identified as given below.

- a. Area sources.
- b. Line sources.

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

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

4.3.6 Emission Details

All the emissions discussed above are quantified for proposed maximum production of is 7,20,246 Cu.m of Rough stone and 18,264 Cu.m of Gravel formation upto a depth of 62m (below ground level) for the period of first five years by the open-cast mechanised mining method.

Cluster quarries production Tvl. Mahaganapathi Blue Metal (7,20,246 Cu.m of Rough Stone, 18,264 Cu.m of gravel), Tmt. P. Amaravathi (272149 Cu.m of Rough Stone), Tvl. New Star Blue Metal (164992 m³ of Rough Stone). The existing air quality levels are covered in the baseline scenario. Excavation, loading and transportation through tippers are the major sources, which are of significance. Therefore, the emissions considered for modeling are from drilling blasting, excavation & transportation rough stone and Gravel.

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

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

4.3.7 Meteorological Data

The meteorological data recorded continuously during the month of March 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.

4.3.8 Summary of Predicted Ground Level Concentrations

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

The maximum ground level concentration is estimated to be about 1.87 $\mu\text{g}/\text{m}^3$ of PM 2.5 & 2.30 $\mu\text{g}/\text{m}^3$ of PM10 within the mine area and surrounding cluster area 2.20 $\mu\text{g}/\text{m}^3$ of PM 2.5 & 3.86 $\mu\text{g}/\text{m}^3$ of PM10, where mining operations are being carried out. The impact of mining operations would be negligible beyond 0.5 km.

Figure – 4.1 represents the spatial distribution of the predicted ground level concentrations of PM₁₀ due to emissions from mine.

4.3.9 Emission sources & Quantification

Various point and non-point sources of emissions from Proposed Rough Stone and Gravel Quarry of Tvl. Mahaganapathi Blue Metal is quantified and presented below:

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

Quantity, TPA	• Rough stone: 720246 m³ (5 years) • Gravel : 36528.00 m³(5 years)
Operational Hours Per Year	2400
Activity Rate, t/hr.	362.2
Emission of dust, g/t.	0.20
Emission of dust, g /hr.	545.43
Area of influence, m ²	622
Uncontrolled emission rate g/s/m ²	0.000011024
Controlled emission rate, PM10 g/s/m ²	0.000001102
Controlled emission rate, PM2.5 g/s/m ²	0.000007349

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

Quantity, m ³	Tmt. P. Amaravathi W/o. Palanisamy (Rough stone: 272149 m ³ , 5 years) Tvl. New Star Blue Metals (Rough stone: 164992 m ³ & Gravel: 25088 m ³ , 5 years)
Operational Hours Per Year	2400
Activity Rate, t/hr.	390.142

Emission of dust, g/t.	0.21
Emission of dust, g /hr.	60.4121
Area of influence, m ²	620
Uncontrolled emission rate g/s/m ²	0.00067337
Controlled emission rate, PM10 g/s/m ²	0.0006733
Controlled emission rate, PM2.5 g/s/m ²	0.000044891

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

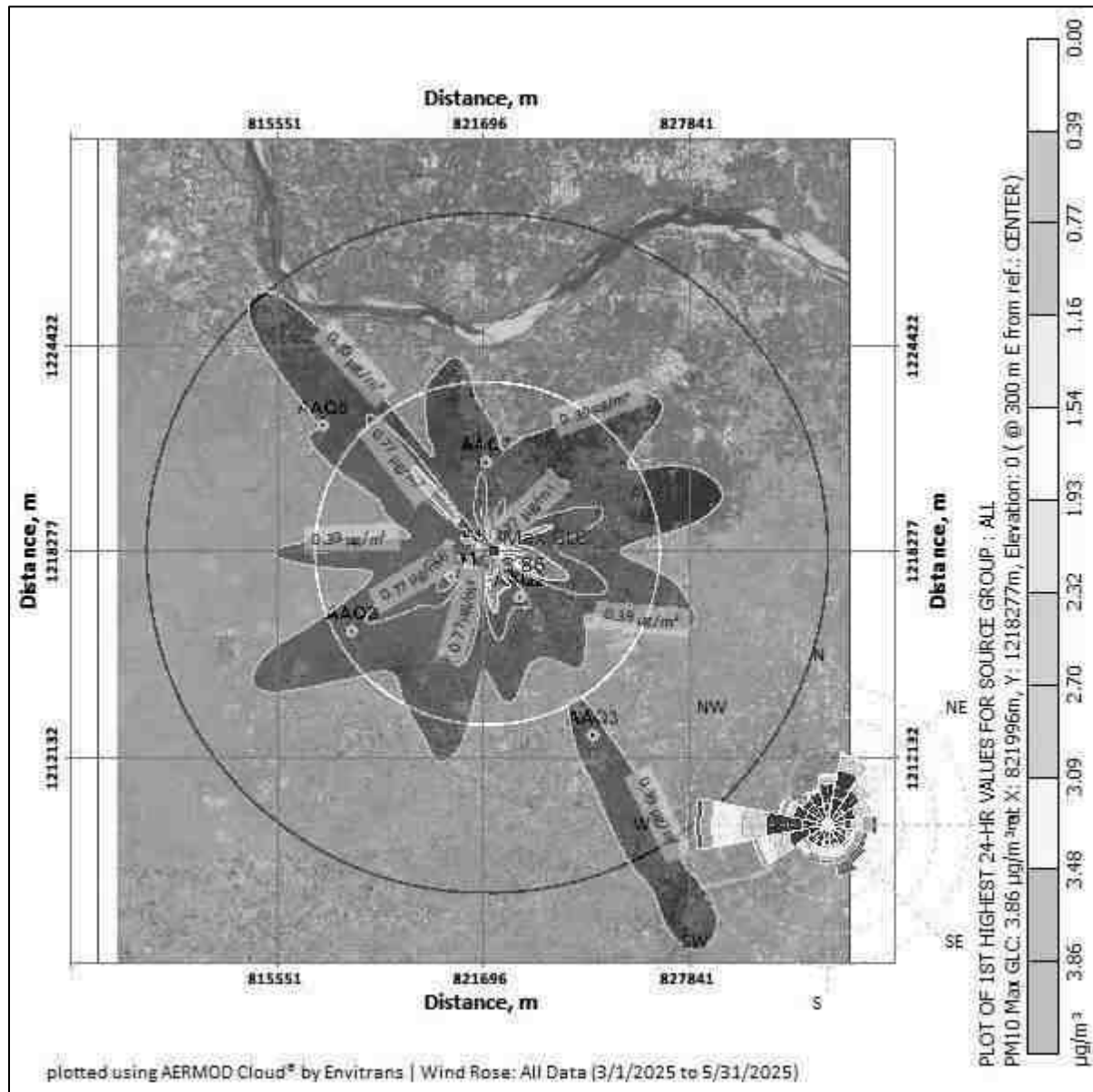
Quantity, TPA	Rough stone: 720246 m ³ (5 years) Gravel: 36528.00 m ³ (5 years)
Operational Hours Per Year	2401
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	4146
Lead length/trip, Km	0.10
Total VKT/Year	36565
Emission Kg/VKT	0.220
Total emission Kg/Year	142356
Uncontrolled emission rate g/s/m	0.00066147
Controlled emission rate, PM10 g/s/m	0.0006614
Controlled emission rate, PM2.5 g/s/m	0.000018374

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

Quantity, m ³	Tmt. P. Amaravathi W/o. Palanisamy (Rough stone: 272149 m ³ , 5 years) Tvl. New Star Blue Metals (Rough stone: 164992 m ³ & Gravel: 25088 m ³ , 5 years)
Operational Hours Per Year	2405
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	2190
Lead length/trip, Km	0.16
Total VKT/Year	692456
Emission Kg/VKT	0.22
Total emission Kg/Year	16145.2
Uncontrolled emission rate g/s/m	4.40223
Controlled emission rate, PM10 g/s/m	0.44022
Controlled emission rate, PM2.5 g/s/m	0.012228

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 4.5 Isopleth of GLC Prediction –Cumulative for PM₁₀



PREDICTED AMBIENT AIR QUALITY:

The post project Concentrations of PM₁₀, PM_{2.5}, (GLC) (base line + incremental) after adopting necessary control measures is given in Table No - 4.3 to 4.4.

Table 4.3 Concentrations of PM_{2.5} after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in $\mu\text{g}/\text{m}^3$
1	Project site core zone	33.3	1.87	35.17	60
2	Thalaiyeetupatti	23.4	1.69	25.09	
3	Kurumpapatti	25.5	0.56	26.06	
4	Kuppam	25.2	1.50	26.7	
5	Elunuthimangalam	22.9	0.37	23.27	
6	Munnur	26.4	0.19	26.59	
7	Kunthanipalayam	26.3	0.20	26.5	

Table 4.3a Cluster Concentrations of PM_{2.5} after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in $\mu\text{g}/\text{m}^3$
1	Project site core zone	33.3	2.20	35.5	60
2	Thalaiyeetupatti	23.4	1.98	25.38	
3	Kurumpapatti	25.5	0.66	26.16	
4	Kuppam	25.2	1.76	26.96	
5	Elunuthimangalam	22.9	0.44	23.34	
6	Munnur	26.4	0.22	26.62	
7	Kunthanipalayam	26.3	0.21	26.51	

Table 4.3b Concentrations of PM₁₀ after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in $\mu\text{g}/\text{m}^3$
1	Project site core zone	72.1	2.30	74.4	100
2	Thalaiyeetupatti	50.7	2.07	52.77	
3	Kurumpapatti	54.4	0.69	55.09	
4	Kuppam	53.5	1.84	55.34	

5	Elunuthimangalam	48.2	0.46	48.66	
6	Munnur	57.5	1.61	59.11	
7	Kunthanipalayam	56.7	0.23	56.93	
Table 4.3c Cluster Concentrations of PM10 after Project Implementation					
SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Project site core zone	72.1	3.86	75.96	100
2	Thalaiyeetupatti	50.7	3.48	54.18	
3	Kurumpapatti	54.4	1.16	55.56	
4	Kuppam	53.5	3.09	56.59	
5	Elunuthimangalam	48.2	0.77	48.97	
6	Munnur	57.5	2.70	60.2	
7	Kunthanipalayam	56.7	0.39	57.09	

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 $48.66 \mu\text{g}/\text{m}^3$ to $74.4 \mu\text{g}/\text{m}^3$ and for $\text{PM}_{2.5}$ are in the range of $23.27 \mu\text{g}/\text{m}^3$ to $35.17 \mu\text{g}/\text{m}^3$ and PM_{10} are surrounding area range of $48.97 \mu\text{g}/\text{m}^3$ to $75.96 \mu\text{g}/\text{m}^3$ and for $\text{PM}_{2.5}$ are in the range of $23.34 \mu\text{g}/\text{m}^3$ to $35.5 \mu\text{g}/\text{m}^3$ which are within the statutory limits in each case. The mitigation measures undertaken in the mine for control of air pollution are given below.

- Wet drilling will be practiced in drilling operation.
- Water sprinkling will be done in haul roads & loading etc.
- The mines workers are provided with the dust masks.
- Three-layer plantation in the safety zone.
- DG sets shall be periodically maintained as per manufacturer's specifications.

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

4.4.1 NOISE ENVIRONMENT

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

4.4.2 Likely Noise Levels in Lease Area due to mining activity

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

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

Noise levels were measured in the lease area and in the nearby villages Thalaiyeethupatti Village, Kurumpapatti Village, Kuppam Village, Elunuthimangalam Village, Munnur Village and Kunthanipalayam Village, the values are given below.

TABLE 4.4 Noise Levels in Monitoring Locations				
S. No.	Location	Distance and direction from Mine lease area	Day Equivalent (in dBA)	Night Equivalent (dBA)
1	Project site core zone	1.46 km	49.7	42.7
2	Thalaiyeetupatti	6.19 km	47.2	39.6
3	Kurumpapatti	2.29 km	48.4	38.7

4	Kuppam	6.89 km	45.9	38.3
5	Elunuthimangalam	4.40 km	46.1	38.1
6	Munnur	2.76 km	45.6	37.6
7	Kunthanipalayam	1.46 km	49.7	39.3

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

4.4.3 Impact of Noise due to mining

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

4.5 MITIGATION MEASURES

4.5.1 Noise level control.

- ✚ As the distance between the source and receptor increases, the noise level decreases. Hence, there will be a natural attenuation.
- ✚ The proponent has planned to develop green belt in the periphery of the lease area which diminishes sound volume by dampening them.
- ✚ All the equipment/machinery/tippers involved will be properly maintained to control noise generation.

- ✚ Conducting regular health checkups for employees involved.
- ✚ Employees will be made to work on shifts to reduce their exposure time.
- ✚ Providing earplugs to all employees.
- ✚ Providing green walls/nets wherever possible.

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

4.5.2 IMPACTS DUE TO VIBRATION

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

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

Impacts

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

Mitigation measures

- ✚ The DG set will be kept within the acoustic enclosure made by the stone blocks.
- ✚ Drills will be equipped with sharp bits and wet drilling will be adopted.
- ✚ A well-planned green belt is proposed for the mining to reduce noise level.
- ✚ Proper warning system before blasting will be adopted and clearance of the area before blasting will be ensured.
- ✚ Regular maintenance of the machineries and vehicles to reduce the noise level.
- ✚ Use of ear muffs by the workers with occupational exposure to noise.
- ✚ Carrying out blasting on limited scale, only from 12:00 PM to 2:00 PM
- ✚ Control of fly rock and vibration by maintaining peak particle velocity within the

standard as prescribed by the DGMS and MOEF & CC.

- ✚ Shallow depth jackhammer drilling and blasting is proposed to be carried out with minimum use of explosive.
- ✚ Supervising blasting by competent and statutory Foreman/ Mines Manager.

4.5.3 SOCIO ECONOMIC IMPACT

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

4.5.4 OCCUPATIONAL HEALTH

Impacts on humans due to various mining activities

The occupational risk due to proposed mining may be due to drilling, blasting, excavation and transportation. A total of 33 workers will be engaged in the mining activity. Mining activity may cause various health problems to the mines workers as follows:

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

Table 4.5 Impacts on humans due to various mining activities		
S.No.	Type of activity	Impact
1	Dust generation due to drilling and blasting	Continuous exposure to dust causes Pneumonia, Tuberculosis, Rhematic arthritis and Segmental Vibration
2	Noise generation due to drilling and blasting	Short term impact will be lack of sleep, high blood pressure and heart ailments. Long term exposure may lead to partial or permanent deafness
3	Unexpected accidents	Risks include fly rocks, cracks or fissures due to improper mining methods

Mitigation measures

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

4.5.5 WASTE MANAGEMENT

Solid Waste

Since the entire mined out material will be utilized there will not be any solid waste generation from this project. However, the Solid waste (MSW) generated from

administrative activities will be properly collected and disposed to Govt. Authorized yards / Re-cylers / Disposers.

Liquid Waste

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

Hazardous Waste Management

In this project the following management practices will be followed:

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

Plastic Waste

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

RAINWATER HARVESTING PLAN

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

- Development of garland drain all around the quarry, connected to settling tank.
- Cleaning of drain periodically to prevent siltation

- Utilizing the rainwater harvested in the mine pit to meet the water requirement of the project.

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

CHAPTER 5

ANALYSIS OF ALTERNATIVES

5.1 DESCRIPTION OF EACH ALTERNATIVE

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

5.2 SUMMARY OF ADVERSE IMPACTS OF EACH ALTERNATIVE

The project proponent has prepared mining plan under rule 19(1) 41 & 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 and the same has been approved by the Assistant Director, Department of Geology and Mining, Karur, vide Rc.No.208/Mines/2024, dated 24.04.2025.

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

Hence seeking alternative site is not required.

5.3 MITIGATION MEASURES PROPOSED FOR EACH ALTERNATIVE

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

5.4 SELECTION OF ALTERNATIVE

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

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

CHAPTER 6

ENVIRONMENTAL MONITORING PROGRAMME

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

6.1.1 ENVIRONMENTAL MONITORING

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

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

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

6.1.2 OBJECTIVES OF ENVIRONMENTAL MONITORING

The objectives of Environmental Monitoring are as follows.

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

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

6.1.3 ENVIRONMENTAL MONITORING SCHEDULE

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

Table 6.1 Environmental Monitoring Schedule			
Sl.No.	Description of Parameters	Parameters	Frequency
1	Air	Air Quality for SPM, PM-10, PM-2.5, SO ₂ and NO _x	24-hour average samples Once in a 3 month.
2	Water	General, Physical, and chemical parameters	Once per season
3	Noise	Leq, L _{max} , L _{min} , Leq Day & Leq Night dB(A)	8-hour average samples Once in a 3 month.
4	Soil	Physical and Chemical characteristics.	Once per season

6.1.4 LOCATION

Monitoring of the above-mentioned environmental parameters would be done at appropriate and sensitive areas. The exact location of monitoring is given as Figure – 3.5, 3.12, 3.13 & 3.14.

6.1.5 MEASUREMENT METHODOLOGY

(a) Ambient Air Quality

Ambient air quality will be monitored for SO₂, NO_x, PM₁₀ and PM_{2.5}. The instruments like high volume air samplers and Respirable dust samplers would be used for this purpose. These parameters will be monitored as mentioned in the monitoring schedule previously.

(b) Water Quality

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

(c) Noise Monitoring

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

(d) Green Belt and Afforested Areas

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

(e) Socio-Economics

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

6.1.6 TECHNICAL ASPECTS OF MONITORING THE EFFECTIVENESS OF MITIGATION MEASURES

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

6.1.7 EMERGENCY PROCEDURES

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

6.1.8 REPORTS TO BE GENERATED

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

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

6.1.9 DETAILED BUDGET AND PROCUREMENT SCHEDULES

The budget planned for environmental monitoring is given below.

Table 6.3 - Environmental Management Plan Budget

Activities	Mitigation Measure	Capital cost	Recurring Cost per Annum
Air Environment	Compaction, gradation and drainage on both sides for Haulage Road	0.17	0.17
	Fixed Water Sprinkling Arrangements + Water sprinkling by own water tankers	5.00	0.25
	Muffle blasting – To control fly rocks during blasting	0.00	0.05
	Wet drilling procedure / latest eco-friendly drill machine with separate dust extractor unit	1.00	0.20
	No overloading of trucks/tippers/tractors	0.00	0.05
	Stone carrying trucks will be covered by tarpaulin	0.00	0.10
	Enforcing speed limits of 20 km/hr within ML area	0.10	0.01
	Regular monitoring of exhaust fumes as per RTO norms	0.00	0.05
	Regular sweeping and maintenance of approach roads for at least about 200 m from ML Area	0.00	0.69
	Installing wheel wash system near gate of quarry	0.20	0.05
Sub-Total (A)		6.47	1.62
Noise Environment	Provision for Portable blaster shed	0.30	0.02
	Sub-Total (B)	0.30	0.02
Waste Management	Provision for domestic waste collection and disposal through authorized agency	0.20	0.10
	Installation of dust bins	0.05	0.02
Sub-Total (C)		0.25	0.12

Mine Closure	Plantation inside ML area (340 Nos.)	0.47	0.09
Sub-Total (D)		0.47	0.09
Implementation of EC, Mining Plan & DGMS Condition	Size 6' X 5' with blue background and white letters as mentioned in MoM Appendix II by the SEAC TN	0.05	0.01
	Air, Water, Noise and Soil Quality Sampling every 6 Months for Compliance Report of EC Conditions	0.00	0.50
	Workers will be provided with Personal Protective Equipment's	0.33	0.03
	Health checkup for workers will be provisioned	0.00	0.17
	First Aid facility Provision	0.00	0.03
	Signage & boards for safety precautions	0.05	0.01
	No parking will be provided on the transport routes. Separate provision on the south side of the hill will be made for vehicles / HEMMs. Flaggers will be deployed for traffic management	0.35	0.01
	Installation of CCTV cameras in the mines and mine entrance	0.15	0.02
Sub-Total (E)		0.93	0.78
Grant Total (A+B+C+D+E)		8.42	2.64
Total EMP Cost for 5 years is 23.01 lakhs i.e., Rs.8.42 Lakhs of Capital Cost + Rs.14.59 Lakhs of Recurring Cost (For 5 Years)			

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

S. No.	PROPOSED CER ACTIVITIES	COST IN LAKHS.
1	Plantations inside and outside the school premises	5.0
2	Renovation of buildings and painting work	

3	Laying tiles for the floor	
Total		5.0

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

The total project cost is as given below:

Fixed Cost		
Land Cost	:	Rs.20.7318 Lakhs
First Aid Room	:	Rs.1.000 Lakh
Rest Shelter	:	Rs.1.000 Lakh
Sanitary Facility	:	Rs.1.000 Lakh
Total (A)– Rs.23.7318 Lakhs		
Operational Cost		
Machineries	:	Rs.80.000 Lakhs
Fencing cost	:	Rs.2.500 Lakhs
Total (B) – Rs. 82.00 Lakhs		
EMP Cost		
Air Environment, Noise Environment, Mine Closure, Implementation of EC, Mining Plan & DGMS Condition	:	Total(C)–Rs.23.01 Lakhs
CER Cost		
Plantation, Providing A4 papers, Scanner cum printer and Painting the school building	:	Total (F)– Rs.5.00 Lakhs
Grand Total (A+B+C+D+E+F)	:	Rs. 133.7418 Lakhs

CHAPTER 7

ADDITIONAL STUDIES

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

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

7.1 PUBLIC CONSULTATION

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

7.2 RISK ASSESSMENT & MANAGEMENT

(a) Objectives

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

- ✚ To identify the potentially hazardous areas so that necessary design safety measures can be adopted to minimize the probability of accidental events.

- ✚ To identify the potential areas of environmental disaster which can be prevented by proper design of the installations and its controlled operation.
- ✚ To manage the emergency situation or a disastrous event, if any, from the mining operation.

The major hazards related to the mining activities are as follows

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

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

Table 7.1 Hazards and Precautionary measures		
S.No.	Hazard	Precautionary measures
1	Fire	Fire suppressants will be made available at mines office and explosive storage room.
2	Explosion	Controlled blasting will be done. DGMS norms will be strictly followed during blasting. Blasting will be done only by trained professionals.
3	Combustion of chemicals or hazardous substances	Combustible Substances are stored with all precautionary measures. Fire suppressant is made available at storage site
4	Landslide	Width, height and slope will be maintained as suggested by DGMS
5	Accidents during handlings	All vehicles will be properly maintained. Overloading will not be done. Only trained/certified people will be employed.
6	Accidental fall of people or animals	The lease area will be fenced properly. Only people working in the mines will be permitted to enter.

7.3 REHABILITATION AND RESETTLEMENT (R & R) PLAN

No land is acquired from people dwelling in the area. The lease area is an uninhabited

land. No R & R plan is proposed.

7.3.1 CUMULATIVE ENVIRONMENTAL IMPACT ASSESSMENT STUDY

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

Table 7.2 - Details of Quarries within 500m Radius				
S. No	Name and address of the lessee	Village & S. F. Nos	Extent in Hectare	Lease Period
ix. Expired Quarries				
1	Thiru. S. Jeevanantham	524/3A2, 524/3B, Kuppam Village, Pugalur Taluk	1.81.5	05.07.2017 to 04.07.2022
2	Tmt. P. Amaravathi	509/2A Part, Kuppam Village, Pugalur Taluk	0.89.5	18.08.2017to 17.08.2022
3	Tmt. P. Mallika	509/ 1Part, Kuppam Village, Pugalur Taluk	1.88.0	07.02.2018 to 06.02.2023
x. Existing Quarries				
5.	Tmt. P. Amaravathi W/o. Palanisamy	513/2C, 595/2 Part, Kuppam Village, Pugalur Taluk	2.84.0	02.12.2024 to 01.12.2029
6.	Tvl. New Star Blue Metals	553/2 Part, Kuppam Village, Pugalur Taluk	1.62.0	06.12.2024 to 05.12.2034
xi. Abandoned Quarries				
	Nil			
xii. Proposed Quarries				
1	Tvl. Mahaganapathi Blue Metal, S. No. 510/1, Arasampalayam, Kuppam Post, Pugalur Taluk, Karur District	511/1, 511/2, 512/2, Kuppam Village, Pugalur Taluk	3.45.53	Proposed Area

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

7.3.2 AIR QUALITY IMPACT PREDICTION FOR THE CLUSTER

The AERMOD atmospheric dispersion modeling (AERMOD Cloud remote version) is used for assessment of incremental Ground level concentration (GLC) for the cluster area. Area source model taken into consideration taking into consideration of wet drilling and loading of the cluster mines. Further line source model was taken into consideration for transportation through haul road. Baseline meteorological studies were conducted for the period of March to May 2025. The following sources are considered.

Emission sources & Quantification of the cluster area.

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

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

Quantity, TPA	• Rough stone: 720246 m3 (5 years) • Gravel : 36528.00 m3(5 years)
Operational Hours Per Year	2400
Activity Rate, t/hr.	362.2
Emission of dust, g/t.	0.20
Emission of dust, g /hr.	545.43
Area of influence, m2	622
Uncontrolled emission rate g/s/m2	0.000011024
Controlled emission rate, PM10 g/s/m2	0.000001102
Controlled emission rate, PM2.5 g/s/m2	0.000007349

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

Quantity, m ³	Tmt. P. Amaravathi W/o. Palanisamy (Rough stone: 272149 m ³ , 5 years) Tvl. New Star Blue Metals (Rough stone: 164992 m ³ & Gravel: 25088 m ³ , 5 years)
Operational Hours Per Year	2400
Activity Rate, t/hr.	390.142
Emission of dust, g/t.	0.21
Emission of dust, g /hr.	60.4121
Area of influence, m ²	620
Uncontrolled emission rate g/s/m ²	0.00067337
Controlled emission rate, PM10 g/s/m ²	0.0006733
Controlled emission rate, PM2.5 g/s/m ²	0.000044891

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

Quantity, TPA	Rough stone: 720246 m ³ (5 years) Gravel: 36528.00 m ³ (5 years)
Operational Hours Per Year	2401
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	4146
Lead length/trip, Km	0.10
Total VKT/Year	36565
Emission Kg/VKT	0.220
Total emission Kg/Year	142356
Uncontrolled emission rate g/s/m	0.00066147
Controlled emission rate, PM10 g/s/m	0.0006614
Controlled emission rate, PM2.5 g/s/m	0.000018374

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

Quantity, m ³	Tmt. P. Amaravathi W/o. Palanisamy (Rough stone: 272149 m ³ , 5 years) Tvl. New Star Blue Metals (Rough stone: 164992 m ³ & Gravel: 25088 m ³ , 5 years)
Operational Hours Per Year	2405
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	2190
Lead length/trip, Km	0.16
Total VKT/Year	692456

FIG 7.1 Isopleth of GLC Prediction for PM_{2.5}

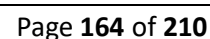


FIG 7.2 Isopleth of GLC Prediction for PM₁₀

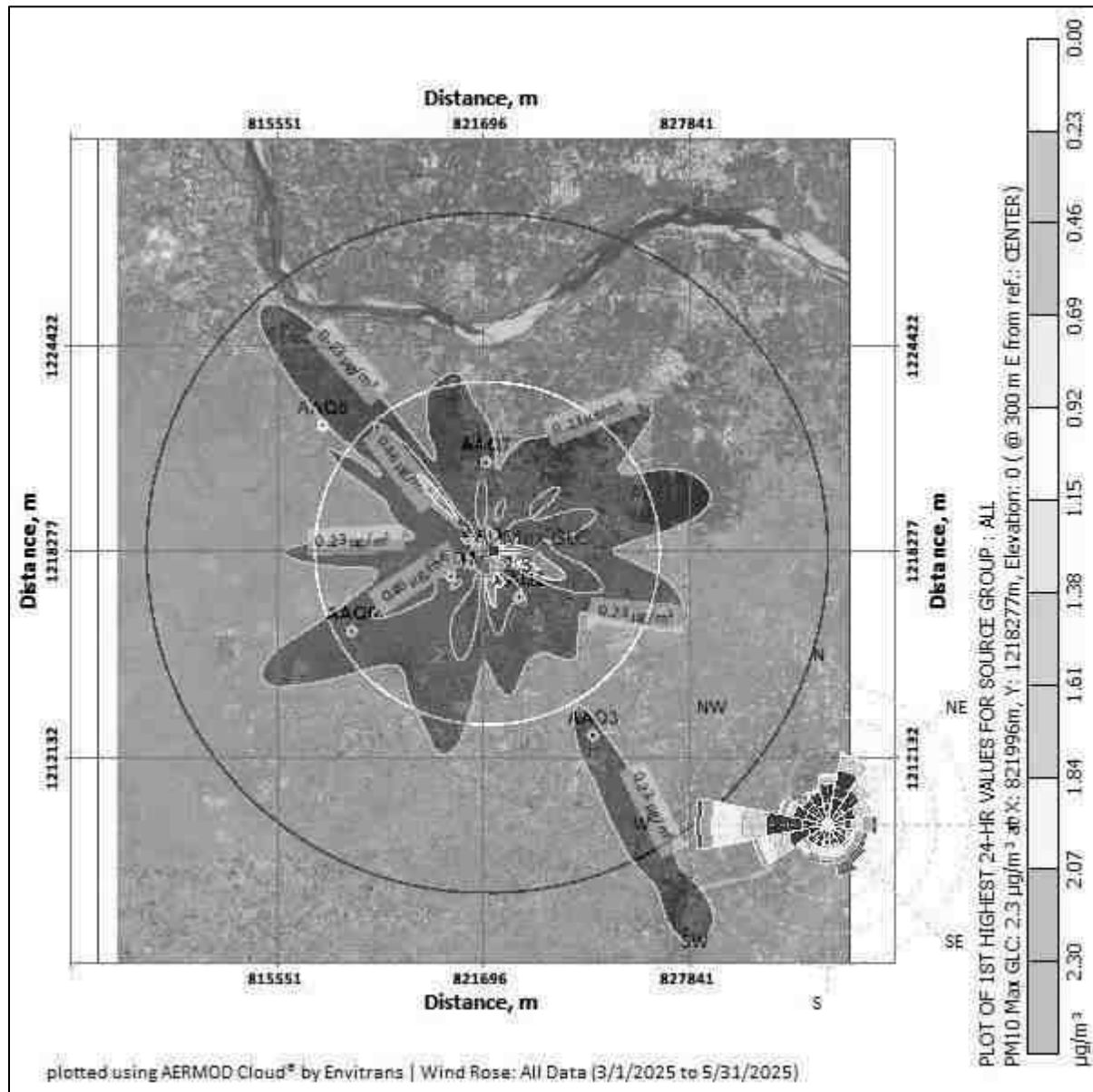


FIG 7.3 Isopleth of GLC Prediction –Cumulative for PM_{2.5}

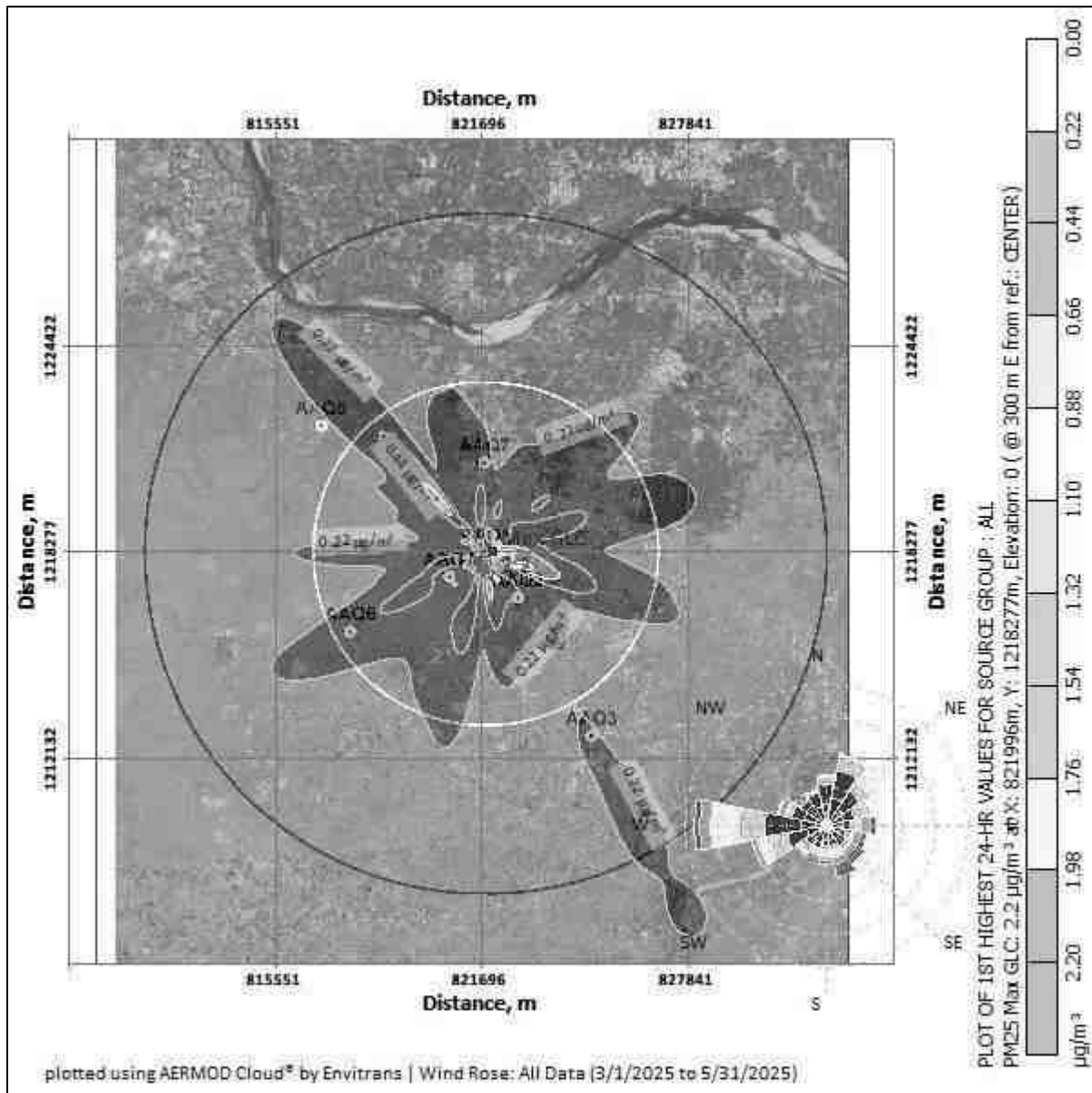
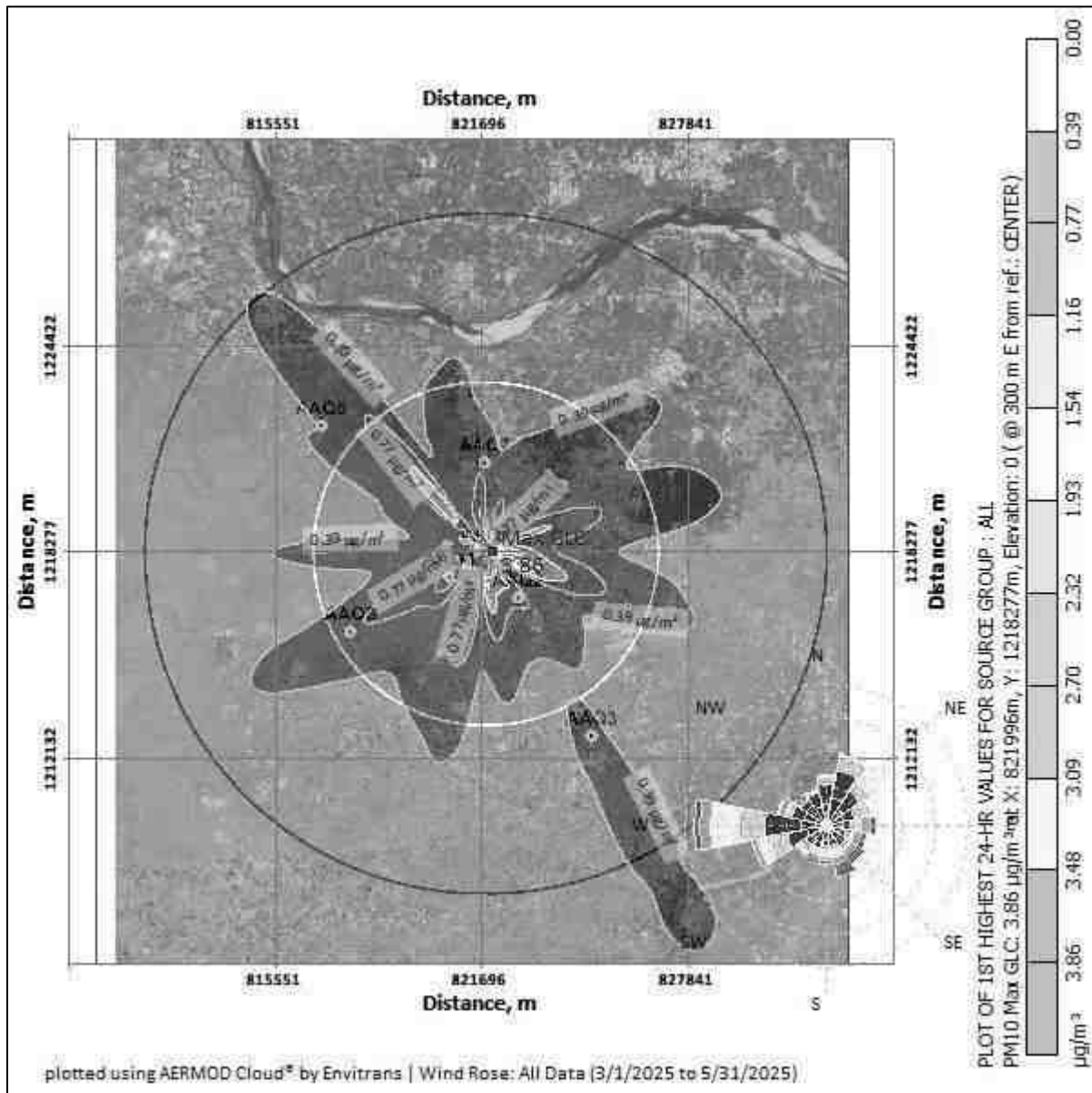


FIG 7.4 Isopleth of GLC Prediction –Cumulative for PM₁₀



PREDICTED AMBIENT AIR QUALITY:

The post project Concentrations of PM₁₀, PM_{2.5}, (GLC) (base line + incremental) after adopting necessary control measures is given in Table No - 7.4 to 7.4.

Table 7.3 Concentrations of PM2.5 after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in $\mu\text{g}/\text{m}^3$
1	Project site core zone	33.3	1.87	35.17	60
2	Thalaiyeetupatti	23.4	1.69	25.09	
3	Kurumpapatti	25.5	0.56	26.06	
4	Kuppam	25.2	1.50	26.7	
5	Elunuthimangalam	22.9	0.37	23.27	
6	Munnur	26.4	0.19	26.59	
7	Kunthanipalayam	26.3	0.20	26.5	

Table 7.3a Cluster Concentrations of PM2.5 after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in $\mu\text{g}/\text{m}^3$
1	Project site core zone	33.3	2.20	35.5	60
2	Thalaiyeetupatti	23.4	1.98	25.38	
3	Kurumpapatti	25.5	0.66	26.16	
4	Kuppam	25.2	1.76	26.96	
5	Elunuthimangalam	22.9	0.44	23.34	
6	Munnur	26.4	0.22	26.62	
7	Kunthanipalayam	26.3	0.21	26.51	

Table 7.3b Concentrations of PM10 after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in $\mu\text{g}/\text{m}^3$
1	Project site core zone	72.1	2.30	74.4	100
2	Thalaiyeetupatti	50.7	2.07	52.77	
3	Kurumpapatti	54.4	0.69	55.09	

4	Kuppam	53.5	1.84	55.34	
5	Elunuthimangalam	48.2	0.46	48.66	
6	Munnur	57.5	1.61	59.11	
7	Kunthanipalayam	56.7	0.23	56.93	
Table 7.3c Cluster Concentrations of PM10 after Project Implementation					
SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Project site core zone	72.1	3.86	75.96	100
2	Thalaiyeetupatti	50.7	3.48	54.18	
3	Kurumpapatti	54.4	1.16	55.56	
4	Kuppam	53.5	3.09	56.59	
5	Elunuthimangalam	48.2	0.77	48.97	
6	Munnur	57.5	2.70	60.2	
7	Kunthanipalayam	56.7	0.39	57.09	

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 $48.66 \mu\text{g}/\text{m}^3$ to $74.4 \mu\text{g}/\text{m}^3$ and for $\text{PM}_{2.5}$ are in the range of $23.27 \mu\text{g}/\text{m}^3$ to $35.17 \mu\text{g}/\text{m}^3$ and PM_{10} are surrounding area range of $48.97 \mu\text{g}/\text{m}^3$ to $75.96 \mu\text{g}/\text{m}^3$ and for $\text{PM}_{2.5}$ are in the range of $23.34 \mu\text{g}/\text{m}^3$ to $35.5 \mu\text{g}/\text{m}^3$ which are within the statutory limits in each case. The mitigation measures undertaken in the mine for control of air pollution are given below

- Wet drilling will be practiced in drilling operation.
- Water sprinkling will be done in haul roads & loading etc.
- The mines workers are provided with the dust masks.
- Three-layer plantation in the safety zone.
- DG sets shall be periodically maintained as per manufacturer's specifications.

Cumulative Impact on Traffic

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

Table 7. 4 – Impact on Traffic

TRAFFIC STUDY:						
ToR Condition			Study Details		Study Outcome / Action Plan	
Standard ToR			Traffic Study		Follows	
Total Proposed Mineral Transportation of the Cluster Quarries:						
Quarry			Total Mineral Production in MT Per Day		No of Lorries per day	
P1(Mahaganapathi Blue Metal - Proposed)			1200		120	
P2 (Tmt. P. Amaravathi - Existing)			487.5		48.7	
P3 (Tvl. New Star Blue Metal - Existing)			351.25		35.1	
Total			2,038.75		203.8	
Since two quarries already exist, it is part of the current traffic. The proposed projects will add 120 trips per day.						
Summary of Traffic Volume for the Cluster Area						
Route	Existing Traffic Survey in PCU	Incremental Traffic Survey due to project in PCU	Total Traffic Survey Volume	Hourly capacity in PCU as per IRC - 1960 guidelines		
NH-81 Karur – Coimbatore 5.2 km (S)	530	15	545	3000		
Modified Level of Service for the cluster area						
Sampling Location	Existing Volume (PCU/hr)	Existing Capacity Volume/ city ratio	Additional Volume (PCU/hr)	Modified Volume (PCU/hr)	Modified Volume/ Capacity ratio	Modified LOS

NH-81 Karur – Coimbatore 5.2 km (S)	530	0.17	15	0.18	0.35	B*
B* - Stable traffic Flow Conclusion: The existing road capacity will be Stable traffic flow after adding dispatch of proposed cluster quarries.						

The proposed projects will bring 120 trips per day including cluster quarries. The existing road can absorb this additional traffic due to this project. Various measures like proper maintenance of road, covering of the loaded truck with tarpaulin, water sprinkling will be carried out to ensure no adverse impact on the logistical front.

7.3.3 HYDROGEOLOGICAL STUDY

There is Noyyal river is located at a distance of 5.1 km in NW direction of lease area. Due to the presence of these water bodies nearby, a detailed hydrogeological study has been done. As suggested in the Precise Area Communication letter, safety distances of 7.5m to adjacent Patta land.

7.3.4 SLOPE STABILITY STUDY

The proposed quarry is a very small quarry and the production is also less. Opencast mechanized mining with a bench height of 5m and bench width of 5m and 45° Slope is proposed. The depth of mining is proposed as 62m (BGL), which is the ultimate pit limit. Also, there is no overburden since the entire mined out material will be utilized.

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

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

7.3.5 DISASTER MANAGEMENT PLAN

Proper preventive mechanism exists already in the mines.

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

7.3.6 MINE CLOSURE PLAN

The quarrying operation is proposed up to a depth of 62m (BGL) only, which will be achieved in 5 years. The ultimate pit dimension will be length 204 m x Width 145 m x Depth 62 m. After completion of quarrying operation, the mined-out pit will be left as rain water harvesting pond. The quarry will be properly fenced with barbed wire.

CHAPTER 8

PROJECT BENEFITS

INTRODUCTION

Tvl. Mahaganapathi Blue Metal has proposed Rough stone and gravel quarry over an extent of 3.45.53 ha located at S.F.Nos. 511/1, 511/2, 512/2 of Kuppam Village, Pugalur Taluk, Karur District Tamil Nadu State.

PROJECT BENEFITS

Project benefits are attributed in various ways as under:

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

8.1 IMPROVEMENTS IN THE PHYSICAL INFRASTRUCTURE

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

8.2 IMPROVEMENTS IN THE SOCIAL INFRASTRUCTURE

The proposed project will help in improving the socio-economic status of the near-by villages by generating direct or indirect employment opportunities. Substantial

amount of indirect revenue will be generated by transportation activities along with employment e.g. labour, helper etc.

ECONOMIC BENEFITS:

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

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

The mining Tvl. Mahaganapathi Blue Metal, will create direct employment opportunity for 33 local people. As per MOEF & CC Notification CER cost is arrived for an amount of 5 Lakhs, it will be utilized as per the CER letter received from the competent authority, enclosed as annexure no 13.

8.4 OTHER TANGIBLE BENIFITS

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

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

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. TO25B0108TN5219111N, dated 16.07.2025 for the proposed project, the 'Environmental Cost Benefit Analysis' is not prescribed.

CHAPTER 10

ENVIRONMENTAL MANAGEMENT PLAN

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

10.1.1 OBJECTIVES

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

10.1.2 BASIC OF EMP

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

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

EMP covers all phases of the project considering the impacts with mitigation

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

Table 10.1 Environmental Management Plan	
Environmental Parameter	Mitigation Measures
Air	Wet drilling to suppress the dust emission from drill machine
	Regular water sprinkling on haulage road through fixed water sprinkler.
	3.5 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 assess the impact due to the mining activities and the efficacy of the adopted air pollution control measures.
	Afforestation for control of dust.
Surface water	There is Noyyal River is located at a distance of 5.1km in NE direction. Adequate safety distance is left. No dumping of material or discharge will be done in or near the river or water body.
	Surface runoff management structures like garland drain of required length which is connected to a settling pond will be constructed around the quarry to collect the rain water.
	Monthly or after rainfall, inspection will do to ensure performance of water management structures and systems. There is no discharge of any effluent into nearby water bodies.

Ground Water	The quarrying operation is proposed upto a depth of 62 m above ground level, Water table is found at a depth of 77 m, hence the project will not intersect the Ground water table during entire quarry period.
Water Consumption and Wastewater generation	Water required for this project will be sourced from vendors.
	Domestic wastewater generation of 1.0 KLD will be treated in septic tank with soak pit.
	Conduct ground water and surface water monitoring for parameters specified by CPCB
Noise	The workers employed are provided with protection equipment, earmuffs and ear- plugs for the protection from high noise level generated at the mine site wherever required.
	Noise levels are controlled by using optimum explosive charge, proper delay detonators and proper stemming to prevent blow out of holes.
	Development of thick greenbelt all along the safety Zone (7.5 m) 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 assess the impact due to the mining activities and the efficacy of the adopted noise control measures. Additional noise control measures will be adopted if required as per the observations during monitoring.
Ground Vibration and Fly Rock Control	Controlled blasting using delay detonators will be carried out to maintain the PPV value well within the prescribed standards of DGMS.
	Drilling and blasting will be carried under the supervision of qualified persons.
	Will be Ensured that blast holes are adequately stemmed for the depth of the hole and stemmed with suitable angular material.
	To be Undertake noise or vibration monitoring.
Land Environment	At conceptual stage, the mining pits will be converted into Rain Water Harvesting pit. Remaining area will be converted into greenbelt area.
	No external dumping i.e., outside the project area. The entire material will be sold.

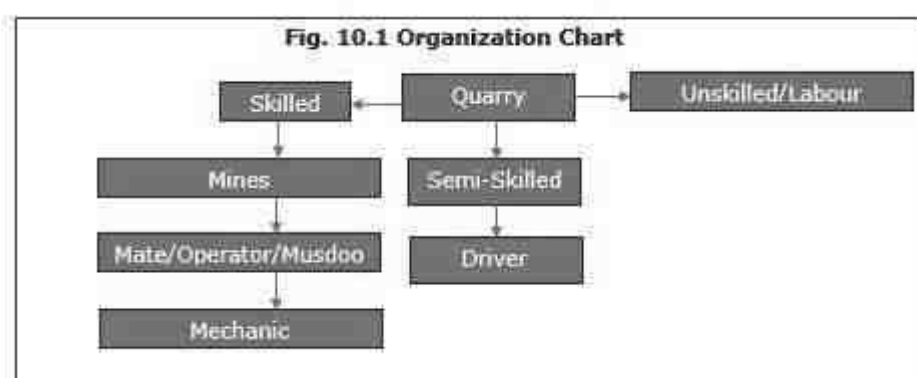
	Garland drains with catch pits / settlement traps to be provided all around the project area to prevent run off affecting the surrounding lands.
	The periphery of Project area will be planted with thick plantation to arrest the fugitive dust, which will also act as acoustic barrier.
	Frequent Soil and ground water testing as per Environmental Monitoring Plan.
Top Soil / Overburden	There is no overburden anticipated during the quarrying operation.
Biological Environment	During mining, thick plantation will be carried out on the mentioned safety zone areas.
	The main attributes that retard the survival of sapling is fugitive dust, this fugitive dust can be controlled by water sprinkling on the haul roads and installing a sprinkler unit near the newly planted area.
	Regular review on green belt development programme.
	Year wise greenbelt development plan mentioned in Chapter III will be monitored.

10.1.3 ADMINISTRATION AND TECHNICAL SETUP

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

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

- ✚ Collection of health statistics of the workers and population of the surrounding villages.
- ✚ Green belt development.
- ✚ Monitoring the progress of implementation of the environmental monitoring programme.
- ✚ Compliance to statutory provisions, norms of State Pollution Control Board, Ministry of Environment and Forests and the conditions of the environmental clearance as well as the consents to establish and consents to operate.



1	Skilled	Mines Manager(II Class)	1 No
		Foreman/Mine Mate	2Nos
		Operator	12 Nos
		Mechanic	1 No
2	Semi-Skilled	Diver	5 Nos
3	Un-skilled	Labours	12 Nos
Total			33 Nos

10.1.4 ENVIRONMENTAL POLICY

- The Project Proponent has stipulated a well-defined Environmental policy by which the lessee is committed to conducting business with a strong environmental conscience towards the community, customers, and employees. The Environment policy is given as below.
- The Environment policy of "Rough Stone & Gravel Quarry of Thiru. Tvl. Mahaganapathi Blue Metal is that the rules and commitment are driven towards conservation of the environment.
- The lessee is committed to efficient use of natural resources based on the reduce, recycle and reuse method.

- The project is committed to the identification of possible impacts and will take the necessary management steps to mitigate the impacts.
- Environment performance will be regularly monitored and reported for continual improvement of our environment and health performance.

10.1.5 OCCUPATIONAL SAFETY & HEALTH MANAGEMENT

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

10.1.6 COST OF ENVIRONMENTAL CONTROL MEASURES

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

Table 10.2 - Environmental Management Plan Budget

Activities	Mitigation Measure	Capital cost	Recurring Cost per Annum
Air Environment	Compaction, gradation and drainage on both sides for Haulage Road	0.17	0.17
	Fixed Water Sprinkling Arrangements + Water sprinkling by own water tankers	5.00	0.25

	Muffle blasting – To control fly rocks during blasting	0.00	0.05
	Wet drilling procedure / latest eco-friendly drill machine with separate dust extractor unit	1.00	0.20
	No overloading of trucks/tippers/tractors	0.00	0.05
	Stone carrying trucks will be covered by tarpaulin	0.00	0.10
	Enforcing speed limits of 20 km/hr within ML area	0.10	0.01
	Regular monitoring of exhaust fumes as per RTO norms	0.00	0.05
	Regular sweeping and maintenance of approach roads for at least about 200 m from ML Area	0.00	0.69
	Installing wheel wash system near gate of quarry	0.20	0.05
Sub-Total (A)		6.47	1.62
Noise Environment	Provision for Portable blaster shed	0.30	0.02
Sub-Total (B)		0.30	0.02
Waste Management	Provision for domestic waste collection and disposal through authorized agency	0.20	0.10
	Installation of dust bins	0.05	0.02
Sub-Total (C)		0.25	0.12
Mine Closure	Plantation inside ML area (340 Nos.)	0.47	0.09
Sub-Total (D)		0.47	0.09
Implementation of EC, Mining Plan & DGMS Condition	Size 6' X 5' with blue background and white letters as mentioned in MoM Appendix II by the SEAC TN	0.05	0.01
	Air, Water, Noise and Soil Quality Sampling every 6 Months for Compliance Report of EC Conditions	0.00	0.50
	Workers will be provided with Personal Protective Equipment's	0.33	0.03
	Health checkup for workers will be provisioned	0.00	0.17
	First Aid facility Provision	0.00	0.03
	Signage & boards for safety precautions	0.05	0.01

	No parking will be provided on the transport routes. Separate provision on the south side of the hill will be made for vehicles / HEMMs. Flaggers will be deployed for traffic management	0.35	0.01
	Installation of CCTV cameras in the mines and mine entrance	0.15	0.02
Sub-Total (E)		0.93	0.78
Grant Total (A+B+C+D+E)		8.42	2.64
Total EMP Cost for 5 years is 23.01 lakhs i.e., Rs.8.42 Lakhs of Capital Cost + Rs.14.59 Lakhs of Recurring Cost (For 5 Years)			

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

S. No.	PROPOSED CER ACTIVITIES	COST IN LAKHS.
1	Plantations inside and outside the school premises	5.0
2	Renovation of buildings and painting work	
3	Laying tiles for floors	
Total		5.0

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

The total project cost is as given below:

Fixed Cost		
Land Cost	:	Rs.20.7318 Lakhs
First Aid Room	:	Rs.1.000 Lakh
Rest Shelter	:	Rs.1.000 Lakh
Sanitary Facility	:	Rs.1.000 Lakh
Total (A)– Rs.23.7318 Lakhs		
Operational Cost		

Machineries	:	Rs.80.000 Lakhs
Fencing cost	:	Rs.2.500 Lakhs
Total (B) – Rs. 82.00 Lakhs		
EMP Cost		
Air Environment, Noise Environment, Mine Closure, Implementation of EC, Mining Plan & DGMS Condition	:	Total(C)–Rs.23.01 Lakhs
CER Cost		
Plantation, Providing A4 papers, Scanner cum printer and Painting the school building	:	Total (F)– Rs.5.00 Lakhs
Grand Total (A+B+C+D+E+F)	:	Rs. 133.7418 Lakhs

10.1.7 CONCLUSION

Various aspects of mining activities were considered, and related impacts were evaluated. Considering all the possible ways to mitigate the Environmental concerns, an Environmental Management Plan was prepared, and INR 23.01 lakhs has been allocated for the same. The EMP is dynamic, flexible, and subjected to periodic review. For projects where major environmental impacts are associated, EMP will be under regular review. Thus, the proper steps will be taken to accomplish all the goals mentioned in the EMP, and the project will have a positive impact on the study area.

CHAPTER 11

SUMMARY& CONCLUSION

11.1 OVER ALL JUSTIFICATION FOR IMPLEMENTATION OF THE PROJECT INTRODUCTION

Tvl. Mahaganapathi Blue Metal, has obtained Precise Area communication letter from the Assistant Director, Department of Geology and Mining, Karur to quarry out Mineable reserves of 720246 Cu.m of Rough Stone and 18,264 Cu.m of Gravel up to 62m BGL. Proposed production quantity for first five years 720246 Cu.m of Rough Stone and 18,264 Cu.m of Gravel up to 62m BGL (below ground level) for the period of first five years over an extent of 3.45.53 ha., located at the Survey No. 511/1, 511/2, 512/2 of Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State.

As per EIA notification, 2006 and its subsequent amendments the proposed "Rough Stone and Gravel Quarry of Tvl. Mahaganapathi Blue metal mines cluster falls under Schedule 1(a) of EIA Notification and its subsequent amendments the project comes under Category B1. The ToR for preparation of EIA/EMP report of the project was approved vide ToR Identification No. TTO25B0108TN521911N, dated 16/07/2025 This report has been prepared in line with the approved TOR for production of maximum excavation of 720246 Cu.m of Rough Stone and 18,264 Cu.m of Gravel

Sl. No.	Description	Status/Remarks
1.	Sector	Non-coal mining
2.	Category of the project	B1
3.	Proposed mineral	Rough Stone and Gravel quarry
4.	Type of Lease	Existing Quarry
5.	Extent of the lease	3.45.53 Ha
6.	Proposed depth of mining	62m BGL
7.	Method of mining	Opencast Semi-mechanized.
8.	Proposed lease period	5 Years
9.	Proposed Environmental Clearance	5 Years
10.	Mineable reserves (upto 62m BGL) (Quantity in Cu.m)	720246 Cu.m of Rough Stone and 18,264 Cu.m of Gravel
11.	Proposed production quantity for first five years (upto 62m BGL)	720246 Cu.m of Rough Stone and 18,264 Cu.m of Gravel

The Tvl. Mahaganapathi Blue Metal is with sound experience in the identification, quarrying and marketing of Rough Stone and Gravel. The proposed land is a Patta land and attached as **Annexure 6**.

1.1.1 LOCATION

The proposed project site is located in Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State and its Latitude: 11°00'21.62"N to 11°00'27.71"N and Longitude: 77°56'37.99"E to 77°56'45.37"E with Survey of India Topo Sheet No. 58- F/13. To conduct the study, the proposed mine lease area (core zone) and an impact zone of 10 km radius (called buffer zone) around the proposed mine site were considered. The EIA report is based on three months baseline data (i.e. March 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°E –S45°W with dipping towards SE80°.

11.1.3 PROJECT DESCRIPTION

This is a proposed Rough Stone quarry by Opencast Mechanized mining method with drilling and blasting. The quarrying is restricted up to a depth of 62m below ground level. The geological reserves are estimated to be 2007180 m³ of Rough Stone and 24516 m³ of Gravel. The mineable reserve calculated by deducting 7.5m safety distance and bench loss. The mineable reserves are 720246 m³ of Rough Stone and 18264 m³ of Gravel which will be recovered at the rate of 100% recovery upto a depth of 62 m Below ground level for the period of five years.

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

S.No.	Type of Detail	Description
1	Sector	1(a) Non coal mining
2	Fresh/Existing project	Proposed
3	Category	B1
4	Nature of mineral	Fresh Quarry
5	Life of the mine	05 years
6	Geological reserves (upto 62m BGL)	2007180 m ³ of Rough Stone and 24516 m ³ of Gravel
	Mineable reserves (upto 62 m BGL)	720246 m ³ of Rough Stone and 18264 m ³ of Gravel
	Proposed production quantity for first five years (upto 21m BGL)	720246 m ³ of Rough Stone and 18264 m ³ of Gravel
7	Waste generation and management	Nil
8	Bench height and width	Proposed bench height & width is 5.0m respectively and number of proposed benches is 7 +1 Nos.
9	Ultimate pit depth	62m BGL
10	End use	The excavated Rough Stone and Gravel is used for construction industries for Government & Public sector projects besides catering domestic housing and infrastructure projects in and around the district.

11.1.4 PROJECT REQUIREMENTS

The requirements of the project is given below.7

S.No.	Nature of requirement	Description
1	Water requirement	Total water requirement of 7.5 KLD which will be procured from the outside agencies. Out of 2.0 KLD drinking water requirement, Green belt development is 2.0 KLD and dust suppression is 3.5 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 579.241 KL of HSD for entire life of the project.
3	Manpower requirement	This project will give employment opportunities to 33 people

4	Financial requirement	The total project cost as per PFR will be INR . Rs. 133.7418 Lakhs including Operational cost, Fixed Asset cost and EMP cost
5	Funds for Socio economic development	INR 5 Lakhs is allocated. In addition, any demand raised by people during public hearing will also be met.

11.1.5 DESCRIPTION OF LEASE AREA

The features in the study area is given below.

Table 11.1 Description of the lease area				
S.No.	Areas	Distance from project site		
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Nil within 15km radius		
2	Areas which are important or sensitive for ecological reasons			
A	Wetlands, water courses or other water bodies,			
		Water bodies	Distance	Direction
		Noyyal Canal	60m	NW
		Kaveri River	6.81 km	N
		Noyil River	5.1 km	NW
B	Coastal zone, biospheres,	Nil within 10km radius		
C	Mountains, forests	Nil within 10km radius		
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	Nil within 15km radius		
4	Inland, coastal, marine or underground waters	Nil within 15km radius		
5	State, National boundaries	Nil within 15km radius		
6	Routes or facilities used by the public for access to recreation or other tourist. pilgrim areas	Nil within 15km radius		

7	Defense installations	Nil within 15km radius
8	Densely populated or built-up area	Densely Populated Karur, 17 km (NE)
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Densely Populated Karur, 17km (NE)
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Nil
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	Nil
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earth quakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions) similar effects	No. The area is not prone to earthquakes, floods, etc.

The baseline data collection for meteorology, air, water, noise and soil environments have been carried out during March to May 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	Latitude	Longitude
1	AAQ 1	Project site	Core Zone	11° 0'24.47"N	77°56'41.34"E
2	AAQ 2	Thalaiyeethupatti	1.46km, SE	10°59'42.91"N	77°57'12.38"E
3	AAQ 3	Kurumpapatti	6.19km, SE	10°57'28.63"N	77°58'27.08"E
4	AAQ 4	Kuppam	2.29km, NW	11° 0'48.62"N	77°55'25.75"E
5	AAQ 5	Elunuthimangalam	6.89km, NW	11° 2'12.10"N	77°53'18.87"E
6	AAQ 6	Munnur	4.40km, SW	10°59'9.22"N	77°54'30.59"E

Table 11.2: Details Of Ambient Air Quality Monitoring Locations

S. No.	Station Code	Locations	Distance & Direction	Latitude	Longitude
7	AAQ 7	Kunthanipalayam	2.76km, NE	11° 1'54.43"N	77°56'52.17"E

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

Station ID	Min	Max	Avg.
Particulate matter PM_{2.5} (µg/m³)			
AAQ-1	25.1	33.3	29.4
AAQ-2	16.9	23.4	20.1
AAQ-3	20.2	25.5	22.8
AAQ-4	19.8	25.2	22.5
AAQ-5	17.9	22.9	20.0
AAQ-6	22.2	26.4	24.3
AAQ-7	22.0	26.3	24.0
CPCB NAAQS 2009 for PM_{2.5} - 60 µg/m³			
Particulate matter PM₁₀ (µg/m³)			
AAQ-1	54.3	72.1	63.5
AAQ-2	36.9	50.7	43.8
AAQ-3	42.8	54.4	48.3
AAQ-4	42.1	53.5	47.4
AAQ-5	39.2	48.2	43.7
AAQ-6	47.8	57.5	52.4
AAQ-7	47.5	56.7	51.8
CPCB NAAQS 2009 for PM₁₀ - 100 µg/m³			
Sulphur Di-oxide as SO₂ (µg/m³)			
AAQ-1	4.5	6.3	5.5
AAQ-2	3.6	5.8	4.6
AAQ-3	3.9	5.5	4.6
AAQ-4	4.1	5.1	4.6
AAQ-5	4.4	9.0	6.7
AAQ-6	4.1	6.3	5.2
AAQ-7	4.0	5.5	4.7
CPCB NAAQS 2009 for SO₂ - 80 µg/m³			
Oxide of Nitrogen as NO₂ (µg/m³)			
AAQ-1	7.3	12.6	10.1
AAQ-2	6.6	8.9	7.7
AAQ-3	7.6	10.8	9.4
AAQ-4	7.4	10.2	8.9
AAQ-5	5.8	10.5	8.2
AAQ-6	8.1	13.2	10.4
AAQ-7	8.3	12.3	10.2
CPCB NAAQS 2009 for NO₂ - 80 µg/m³			

11.2.2 WATER ENVIRONMENT

Table 11.3 Ground Water monitoring results

PARAMETERS	GW1	GW2	GW3	GW4	GW5	GW6	GW7	Limits Permissible Limits
Odour	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	Agreeable
Turbidity	<1	<1	<1.0	<1.0	<1.0	<1	<1	5
pH at 25 °C	7.39	7.89	7.32	7.45	7.41	7.21	7.94	6.5- 8.5
Electrical Conductivity	1232	1025	1159	1972	1196	831.6	732.5	-
Total Dissolved Solids	740	616	696	1182	720	502	440	2000
Total hardness as CaCO ₃	494	145	322	348	330	280	218	600
Calcium as Ca	106.8	27.88	64.8	80.8	66	70.4	48.8	200
Magnesium as Mg	54.5	18.1	38.4	35.0	39.6	25.0	23.0	100
Calcium as CaCO ₃	267	69.7	162	202	165	176	122	-
Magnesium as CaCO ₃	227	75	160	146	165	104	96	-
Total alkalinity as CaCO ₃	282	189	290	460	292	230	205	600
Chloride as Cl ⁻	210	236	102	498	110	148	130	1000
Free Residual chlorine as Cl ⁻	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL(DL-0.2)	BDL(DL-0.2)	BDL(DL-0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	1
Sulphates as SO ₄ ²⁻	120	184	280	316	290	54.4	50.2	400
Iron as Fe	0.09	0.05	BDL(DL-0.01)	BDL(DL-0.01)	BDL(DL-0.01)	0.06	0.06	0.3
Nitrate as NO ₃	2.45	2.74	3.56	4.65	3.89	2.11	1.49	45
Fluoride as F	0.55	0.48	0.36	0.49	0.44	0.57	0.45	1.5
Manganese as Mn	BDL (D.L - 0.05)	BDL (D.L - 0.05)	BDL(DL-0.05)	BDL(DL-0.05)	BDL(DL-0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	0.3

All the values were found to be within permissible limits

11.2.3 NOISE ENVIRONMENT

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

Table 11.4 Noise monitoring results

S. No	Location	Day equivalent	Night equivalent	Day equivalent limits by CPCB	Night equivalent limits by CPCB
1	Project site	49.7	42.7	75	70
2	Thalaiyeethupatti village	47.2	39.6		
3	Kurumpapatti	48.4	38.7		
4	Kuppam village	45.9	38.3		
5	Elunuthimangalam village	46.1	38.1		
6	Munnur village	45.6	37.6		
7	Kunthanipalayam Village	49.7	39.3		

11.2.4 SOIL ENVIRONMENT

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

Table 11.5 - Result of Soil Analysis

PARAMETER	S1	S2	S3	S4	S5	S6	S7
PH	8.12	6.37	6.72	6.28	6.78	6.86	6.44
EC	94.78	76.53	186.5	48.95	162.4	90.24	65.98
DRY CONTENT	89.78	95.77	96.41	95.21	93.24	94.31	95.66
WATER CONTENT	10.22	4.23	3.59	4.79	6.76	5.69	4.34
ORGANIC MATTER	0.45	0.78	1.05	1.21	1.05	1.32	0.94
TOTAL SOLUBLE SULPHATE	BDL(D.L. 0.02)	BDL(D.L. 0.02)	BDL(D.L. 0.02)	BDL(D.L. 0.02)	BDL(D.L. 0.02)	BDL(D.L. 0.02)	BDL(D.L. 0.02)
PHOSPHOROUS	0.87	1.34	2.76	1.78	2.12	2.41	2.97
TEXTUER	SILT LOAM	silt loam	silty clay loam	silty clay	silty clay loam	loam	silt loam
SAND	26.58	24.37	13.36	8.94	13.35	33.74	29.05
SILT	58.52	68.24	48.25	47.55	47.58	49.56	53.33
CLAY	14.90	7.39	38.39	43.51	39.07	16.70	17.62
NITROGEN & NITREGENOUS COMPOUNDS	342	625	302	261	284	441	220
SODIUM	765	575	1060	412	1032	394	346
POTASSIUM	513	744	884	650	856	625	717
Water Holding Capacity	41	40	42	38	42	42	41
Porosity	19.6	17.5	19.6	18.2	19.3	20.2	19.8

11.2.5 BIOLOGICAL ENVIRONMENT

FLORA

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

FAUNA

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

11.2.6 LAND USE

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

Table No. 11.6: Major Land Use Units of the Study Area in Percentage			
Sl.No.	Land Use / Land Cover	Area in Sq.Km	Area in Percentage
1	Built-up land	13.51	4.2
2	Crop land	236.8	73.69
3	Fallow land	4.26	1.36
4	Land with scrub	17.16	5.34
5	Land without scrub	7.93	2.46
6	Existing Quarry	8.11	2.52
7	Plantations	21.97	6.83
10	Water bodies	11.57	3.6
	Total Area	321.31	100

11.2.7 SOCIO ECONOMIC ENVIRONMENT

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

The following data area collected from secondary data.

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

The expert visited 5 villages in the study area namely Kuppam village, Kurumpapatti, Pudukkanali village, Thalayeetupatti village and Munnur village. Discussions were held with the people from nearby locality to study the social and economic conditions prevailing in the area. The expert also visited nearby hospitals, primary health centres and Nalmukkal. The following observations were made.

Primary schools are available in many villages. For hospital facilities, people in the locality have to go to hospital in Viswanathapuri which is about 9 Km from the lease area. Major schools with higher secondary and senior secondary schools are located in Kurupapatti. Facilities like petrol pump stations, ATM facility are available in Kuppam.

11.2.8 HYDROGEOLOGY OF THE LEASE AREA

There is Noyyal River is located at a distance of 5.1 km in NW direction of lease area, the hydrological and hydrogeological pattern of the study area is studied in detail using satellite imagery.

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

11.2.9 GROUND WATER STUDY

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

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

As far as the mining lease area is considered, the area is rocky and no major seepage is envisaged. The production quantity is very less and the depth proposed is 62 m BGL. Hence, there will not be any major impact due to mining on water levels or ground water levels in the area.

ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

Environmental impacts on the following environments are identified.

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

11.2.10 LAND ENVIRONMENT: IMPACT AND MITIGATION MEASURES

The major impact due to this project on land environment is the change in land use. Since this quarry is a small one and the production is less, mining activity will be carried out upto 62 m BGL. Other than quarrying of minerals, no other change will be done since there is no dumping. To prevent soil erosion during monsoon season, garland drain will be constructed with silt traps. At the mine closure stage, 2.95.80 Ha of lease area will be left as rain water harvesting pond. 0.47.73 Ha will be developed with green belt. For this, plants like Pongamia pinnata, Syzigium cumini, Albizia lebbeck, Thespesia populnea, Bauhinia racemose, Cassia siamea, Azadirachta indica are selected. A total of 480 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 7.5 KLD which will be sourced from outside agencies. Negligible sewage will be generated, for which a septic tank with soak pit will be set up.

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

Since the mining operation will be limited upto depth of 62m (BGL), there will not be any seepage. However, the rain water percolation and collection of water from seepage shall be less than 300lpm and it shall be pumped out periodically by a stand by diesel powered Centrifugal pump motivated with 7.5HP Motor. The quality of water is expected to be potable. Hence, water stored in the quarry pit will be pumped into the adjacent agricultural fields. Further the water can also be used for plantation purposes

The major water bodies found in the buffer zone are.

Water bodies	Distance	Direction
Noyyal Canal	60m	NW
Kaveri River	6.81 km	N
Noyil River	5.1 km	NW

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

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

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

11.2.12 BIOLOGICAL ENVIRONMENT: IMPACT AND MITIGATION MEASURES

Impacts

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

Mitigation measures

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

11.2.13 AIR ENVIRONMENT: IMPACT AND MITIGATION MEASURES

The major air pollutants due to mining operations are fugitive emissions like PM₁₀, PM_{2.5}. Other than these pollutants, gaseous emissions of sulfur dioxide (SO₂) and oxides of nitrogen (NO_x) due to excavation/loading equipment and vehicles plying on haul roads are the cause of air pollution in the project area.

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

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

11.2.14 NOISE ENVIRONMENT: IMPACT AND MITIGATION MEASURES

Impacts

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

Mitigation measures

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

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

11.2.15 VIBRATION: IMPACT AND MITIGATION MEASURES

Impacts

- ✚ Though vibration will be only felt by the people working inside the lease area, it is usually undesired.
- ✚ Vibration may also cause flyrocks

- ✚ It may frighten the birds and small insects in the lease area. However, it will be felt only for a short period

Mitigation measures

- ✚ Carrying out blasting on limited scale, only from 12:00 PM to 2:00 PM
- ✚ Control of fly rock and vibration by maintaining peak particle velocity within 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 3,00,000 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, Rheumatic 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 23.01 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 33 people directly. Local people will be hired for unskilled labour.
- Through CSR, nearby schools, hospitals will be benefitted.

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

Various aspects of mining activities were considered and related impacts were evaluated. Considering all the possible ways to mitigate the environmental concerns Environmental Management Plan was prepared an 23.01 lakhs for the 05 years has been allocated as EMP cost. The EMP is dynamic, flexible and subjected to periodic review. For project where the major environmental impacts are associated, EMP will be under regular review. Thus, the proper steps will be taken to accomplish all the goals mentioned in the EMP and the project will bring the positive impact in the study area.

CHAPTER 12

DISCLOSURE OF CONSULTANTS

Global Mining Solutions is a NABET Accredited EIA consultant as per NABET certificate NABET/EIA/2326/IA 0110. The registered office of Global Mining Solutions is at Plot No.6, S.F.No.13/2 A2, VS City, RC Chettypatty, Kottamettupatty, Omalur, Salem, Tamilnadu-636455.

Declaration by Experts contributing to the proposed Rough Stone and Gravel Quarry over an extent 3.45.53 Ha, while total cluster area of 7.91.53 Ha at Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State.

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

EIA Coordinator Name: M. Manikandan



Signature & Date

Period of involvement: 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. <u>Period: March 2025 to May 2025.</u>	R. Dhanak
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. <u>Period: March 2025 to May 2025</u>	K. Abirami
3	SHW	Ramadoss N	Assessment of waste generated from the project, suggested waste management practices. <u>Period: March 2025 to May 2025</u>	N. Ramadoss
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. <u>Period: March 2025 to May 2025</u>	K. Sarasvathy
5	EB	Saravanan S	Baseline data collection of related to ecology of the area. <u>Period: March 2025 to May 2025</u>	S. Saravanan
6	HG	Ravinthiran N	Hydrogeological feature of the area. Ground water depth and impact of project on ground water of the area. <u>Period: March 2025 to May 2025</u>	N. Ravinthiran
7	AQ	Srilatha Thiruveedhula	Air quality modeling utilizing the area source model. Predication of the	T. Srilatha

			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>	R. Dhami
9	LU	Dhanalakshmi Ramanathan	Preparation of land use map based on satellite imagery. Land use classification and analysis. Impact prediction of the project on the surrounding land environment. <u>Period: March 2025 to May 2025</u>	R. Dhami
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>	S. Prashant
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>	Shisupal Sing
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>	Valliappan

TM-FAE:

TM- EC						
S. No	Name of TM (EC)	Sector(s) proposed	Approved (to work under)	Period of involvement	Type of work	Signature
1.	Dhanalakshmi Ramanathan	1(a)	Manikandan Manickam	Period: March to May 2025.	Associated with EIA Coordinator in overall preparation of Draft EIA/EMP report.	R. Dhaman
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	S. Kumar
2	B.J.Sampatkkumar	SE	Saraswathy K	Period: March to May 2025.	Assisted by the Expert in preparation of socio-	

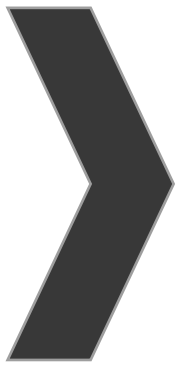
					economic report.	
		SC	Shishupal Singh	<i>Period: March to May 2025.</i>	Assisted by the Expert in interpretation of soil sampling and their quality involved in the project.	
3	Mownica Balaji	NV	Dhanalakshmi Ramanathan	<i>Period: March to May 2025.</i>	Associated with the expert team in suggesting control 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	<i>Period: March to May 2025.</i>	Associated with the expert in selection of base line monitoring	

					stations, Review of Noise quality results, Review of emission sources – drilling, blasting, excavation and transportati on, Identificatio n of impacts on environment , identificatio n of remedial measures and input to EIA preparation	
		Geo	Valliappa n Meyyapp an		Associated with the expert in preparing Geological map.	
5	Suresh Mani	LU	Srilatha Thiruvee dhula	<i>Period: March to May 2025.</i>	Associated with Experts in preparing Land use map based on satellite imagery, Land use classification and analysis, Impact prediction	

					on surrounding land environment .	
		HG	Ashok Kumar Rajagopal		Associated with Experts in studying hydro-geology pattern of study area, studying water and the impact of the project on ground water.	
6	Asan Ali S	NV	Srilatha Thiruvee dhula	<i>Period: March to May 2025.</i>	Associated with the expert in monitoring and analysis of blast induced ground vibration in order to develop the site-specific equation for its prediction, monitoring of fly rocks & air blast (noise), preparation of SOP's for the safety blasting practice in the mines.	<i>S. Asan ali</i>

		Geo	Valliappa n Meyyappa n		Associated with the Qualified Person & Experts in preparing Geological map, assessing stability of quarry slope faces and dump, managemen t plan for mine stability and after use of mining quarry and geological features of the area during mine plan preparation.	
7	Prabu M	Geo	Valliappa n Meyyappa n	<i>Period: March to May 2025.</i>	Associated with Experts and involved in Field Investigatio ns, Mapping /Geo- referencing	
8	Abirami Kaliyaperu mal	RH	S V Prashant	<i>Period: March to May 2025.</i>	Associated with experts and involved in the identificatio n 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).	R. Dharmalingam
10	Manikandan Manickam	AP	Ramados 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	m. j. j.
		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: 12205
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA),
TAMIL NADU)



Dated 16/07/2025



To,

Tvl.Mahaganapathi Blue Metal
 Survey No.510/1,Arasampalayam, Kuppam Post,Pugalur Taluk, Karur District, TAMIL NADU-639111
 mahaasriekambaram@gmail.com

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

Sir/Madam,

Sub: SEIAA, Tamil Nadu – Terms of Reference along with Public Hearing (ToR) for the Proposed Rough Stone and Gravel Quarry lease over an extent 3.45.53 Ha at S.F.Nos. 511/1, 511/2 & 512/2, Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu by Tvl. Mahaganapathi Blue Metal – “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/537840/2025, Dated: 16.05.2025.
 2. Your application submitted for Terms of Reference dated: 22.05.2025.
 3. Minutes of the 578th Meeting of SEAC held on 13.06.2025.
 4. Minutes of the 849h Meeting of Authority held on 10.07.2025.

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO25B0108TN5219111N
(ii) File No.	12205
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vii) Name of Project	Proposed Rough stone and Gravel Quarry of for Tvl.Mahaganapathi Blue Metal
(viii) Name of Company/Organization	MAHAGANAPATHI BLUE METAL
(ix) Location of Project (District, State)	KARUR, 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 inter alia 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 10.07.2025. 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 Tvl. Mahaganapathi Blue Metal 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 OM No. 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 Chair Person, TNPC Board, 76, Mount Salai, Guindy, Chennai-32
7. The District Collector, Karur District,
8. The Commissioner of Geology and Mines, Guindy, Chennai-32
9. Assistant Director, Department of Geology & Mining, Karur District,
10. EI Division, Ministry of Environment & Forests, Parivaran 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, appropriate environmental monitoring, good maintenance of haul roads and village/panchayat roads, authorized blasting operation etc. The PP shall submit the following

S. No	Terms of Reference
	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. Since waterbody (i.e., canal located at a distance of 250m) is situated nearby, the PP shall carry out the hydrogeological and hydrological study including the details of waterflow pattern to determine the impacts of the mining operation in the waterbodies. 4. The details of enumeration of structures including schools, colleges, primary health centres should be submitted along with the EIA report. 5. 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. 6. The proponent shall furnish photographs of adequate fencing, garland drainage built with siltation tank & green belt along the periphery including replantation of existing trees; maintaining the safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan. 7. The Proponent shall carry out Bio diversity study as a part of EIA study and the same shall be included in the Report. 8. 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. 9. The PP shall carry out the comprehensive studies on the cumulative environmental impacts of the existing & proposed quarries which included drilling & blasting, loading & hauling on the surrounding village and structures. 10. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the existing quarry wall (exists without benches) for spelling out the slope stability action plan with mitigation measures and working methodology, by involving any one of the reputed Research and Academic Institutions such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Dept of Mining Engg., Anna University Chennai, etc. A copy of such scientific study report shall be submitted with an action plan accommodating the inclusion of haul road accessibility with maintaining the proper gradient by ensuring the slope stability of the working benches to be constructed and existing quarry wall. 11. The PP shall install the CCTV camera for the continuous surveillance of mining activity & furnish the photographic/videographic evidence along with the EIA report.

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.

S. No	Terms of Reference
	(vii) Quantity of material mined out outside the mine lease area (viii) Condition of Safety zone/benches (ix) Revised/Modified Mining Plan showing the benches of not exceeding 6 m height and ultimate depth of not exceeding 50m. 2. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site. 3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc. 4. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry. 5. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report. 6. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site. 7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall the PP shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC. 8. However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level. 9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent. 10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site. 11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences. 12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines, 13. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines? 14. Quantity of minerals mined out. · Highest production achieved in any one year · Detail of approved depth of mining. · Actual depth of the mining achieved earlier. · Name of the person already mined in that leases area. · If EC and CTO already obtained, the copy of the same shall be submitted. · Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches. 15. All corner coordinates of the mine lease area, superimposed on a High-Resolution

S. No	Terms of Reference
	Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone). 16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc., 17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan. 18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same. 19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment. 20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds, etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. 21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study. 22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind. 23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted. 24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given. 25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided. 26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered. 27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided. 28. Impact on local transport infrastructure due to the Project should be indicated. 29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity. 30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report

S. No	Terms of Reference
	which should be site-specific. 31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible. 32. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner. 33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner 34. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period. 35. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period. 36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed. 37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations. 38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation. 39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given. 40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc. 41. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB. 42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine. 43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

3. Seiaa Specific Conditions:

S. No	Terms of Reference
3.1	The authority noted that the subject was placed in the 578th SEAC-II meeting held on 13.06.2025. 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 7,20,246m3

S. No	Terms of Reference
	of Rough Stone and 18,264m³ of Gravel up to the depth of 62m BGL. The annual peak production is 1,44,155m³ of Rough Stone and 18,264m³ 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 conditions mentioned below.

4. Seiaa Stanadard Conditions:

S. No	Terms of Reference
4.1	<u>Cluster Management Committee</u> - 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. - The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc., - 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. - 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. - 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. - 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. - The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner. - The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public in the vicinity. <u>Agriculture & Agro-Biodiversity</u> - Impact on surrounding agricultural fields around the proposed mining Area. - Impact on soil flora & vegetation around the project site. - 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. - The Environmental Impact Assessment should study the agro-biodiversity, agro- forestry, horticultural plantations, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem. - Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services. - The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock. <u>Forests</u> - The project proponent shall detailed study on impact of mining on Reserve forests and free ranging wildlife. - The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.

S. No	Terms of Reference
	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. <u>Water Environment</u> 19. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the entire mine lease period. 20. Erosion Control measures. 21. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas. 22. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir. 23. The project proponent shall study and furnish the details on potential fragmentation impact on natural Environment, by the activities. 24. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts. 25. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components. 26. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites. 27. The EIA shall include the impact of mining activity on the following: - Hydrothermal/Geothermal effect due to destruction in the Environment. - Bio-geochemical processes and its foot prints including Environmental stress. - Sediment geochemistry in the surface streams. <u>Energy</u> 28. The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilise the Energy shall be furnished. <u>Climate Change</u> 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. <u>Mine Closure Plan</u> 32. Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued. <u>EMP</u> 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. <u>Risk Assessment</u> 35. To furnish risk assessment and management plan including anticipated vulnerabilities during

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

Standard Terms of Reference for (Mining of minerals)

1.

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

S. No	Terms of Reference
	Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report
1.8	Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided
1.9	The study 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
1.10	Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given
1.11	Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given
1.12	A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees
1.13	Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished
1.14	Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated
1.15	The vegetation in the RF / PF areas in the study area, with necessary details, should be given
1.16	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted
1.17	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically

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

S. No	Terms of Reference
1.25	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided
1.26	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided
1.27	Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided
1.28	Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from 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

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

A. 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:

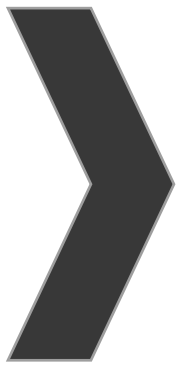
1. Project name and location (Village, District, State, Industrial Estate (if applicable).
2. Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
3. Measures for mitigating the impact on the environment and mode of discharge or disposal.
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 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 its acquisition, nearby (in 2-3 km.) water body, population, within 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: -

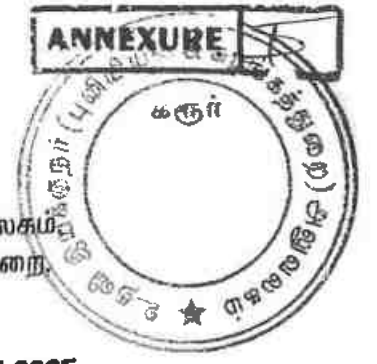
- a. A note confirming compliance of the TOR, with cross referencing of the relevant sections / pages of the EIA report should be provided.
- b. All documents may be properly referenced with index, page numbers and continuous page numbering.
- c. Where data are presented in the report especially in tables, 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 will take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.
 - The final EIA report shall be submitted to the SEIAA, Tamil Nadu for obtaining Environmental Clearance.
 - The TORs with public hearing prescribed shall be **valid for a period of three years** from the date of issue, for submission of the EIA/EMP report as per OMNo.J-11013/41/2006-IA-II(I)(part) dated 29th August, 2017.



ANNEXURE-2

ந.க.எண். 208/கனிமம்/2024

மாவட்ட ஆட்சியர் அலுவலகம்
புவியியல் மற்றும் சுரங்கத்துறை
கரூர்



நாள்: 11.04.2025.

குறிப்பாணை**பொருள்:**

கனிமங்களும் குவாரிகளும் - கரூர் மாவட்டம் - புகளூர் வட்டம் - குப்பம் கிராமம் - பட்டா புல எண்கள்.511/1 (0.96.76 ஹெக்டேர்), 511/2 (1.21.24 ஹெக்டேர்) மற்றும் 512/2 (1.27.53 ஹெக்டேர்) ஆகியவற்றின் மொத்தம் 3.45.53 ஹெக்டேர் நிலப் பரப்பில் - சாதாரணக்கற்கள் மற்றும் கிராவல் வெட்டி எடுக்க குவாரி குத்தகை உரிமம் வேண்டி மகாகணபதி புளுமெட்டல் என்ற நிறுவனத்தின் விண்ணப்பம் செய்தது - உரிமம் வழங்க பரிந்துரை செய்யப்பட்டது - தகுதியான நிலப்பரப்பாக கருதி ஏற்பளிக்கப்பட்ட சுரங்க திட்டம் மற்றும் மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணைய இசைவினை பெற்று சமர்ப்பிக்கக் கோருதல் - தொடர்பாக.

பார்வை:

1. தி/ள்.மகாகணபதி புளு மெட்டல், சர்வே எண்.510/1, அரசம்பாளையம், குப்பம் அஞ்சல், புகளூர் வட்டம், கரூர் மாவட்டம் என்ற நிறுவனத்தின் குவாரி குத்தகை உரிமம் வழங்கக் கோரும் விண்ணப்பம் நாள்: 11.07.2024
2. வருவாய் கோட்டாட்சியர், கரூர் அவர்களின் கடிதம் ந.க.எண். அ1/3892/2024, நாள்:08.10.2024
3. உதவி புவியியலாளர், புவியியல் மற்றும் சுரங்கத்துறை கரூர் என்பவரது புலத்தணிக்கை அறிக்கை நாள்: .04.2025.
4. அரசாணை (பல்வகை) எண். 169, தொழில் (எம்.எம்.சி-1) துறை நாள்: 04.08.2020 இணைத்து வரப்பெற்றுள்ளது. (தமிழ்நாடு அரசிதழ் சிறப்பு வெளியீடு எண். 315 நாள்: 04.08.2020).

கரூர் மாவட்டம், புகளூர் வட்டம் குப்பம் கிராமம் பட்டா புல எண்கள்.511/1 (0.96.76 ஹெக்டேர்), 511/2 (1.21.24 ஹெக்டேர்) மற்றும் 512/2 (1.27.53 ஹெக்டேர்) ஆகியவற்றின் மொத்தம் 3.45.53 ஹெக்டேர்ஸ் பரப்பு நிலத்திலிருந்து ஐந்து ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க சர்வே எண்.510/1, அரசம்பாளையம், குப்பம் அஞ்சல், புகளூர் வட்டம், கரூர் மாவட்டம் என்ற முகவரியை சேர்ந்த தி/ள்.மகாகணபதி புளுமெட்டல் என்ற நிறுவனத்தினர் பார்வை 1-இல் கண்டுள்ளவாறு விண்ணப்பம் செய்துள்ளார்.



மேற்படி விண்ணப்பம் தொடர்பாக, வருவாய் கோட்டாட்சியர், கருநாடகம் மற்றும் உதவி புவியியலாளர், புவியியல் மற்றும் சுரங்கத்துறை, கருநாடக ஆகியோர் புலத்தணிக்கை மேற்கொண்டு கருநாடக மாவட்டம், புகளூர் வட்டம் குப்பம் கிராமம் பட்டா புல எண்கள்.511/1 (0.96.76 ஹெக்டேர்), 511/2 (1.21.24 ஹெக்டேர்) மற்றும் 512/2 (1.27.53 ஹெக்டேர்) ஆகியவற்றின் மொத்தம் 3.45.53 ஹெக்டேர்ஸ் பரப்பில் மட்டும் தமிழ்நாடு சிறு கனிமச்சலுகை விதிகளில் விதி எண்கள்.19-(1), 20 மற்றும் 33-இன் கீழ் தி/ள்.மகாகணபதி புளூமெட்டல் என்ற நிறுவனத்தினர் 5 ஆண்டுகளுக்கு சாதாரண சுற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்க கீழ்க்கண்ட நிபந்தனைகளுக்குட்பட்டு அனுமதி வழங்கலாம் என பரிந்துரை செய்துள்ளனர்.

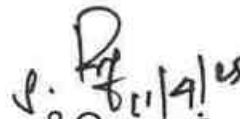
1. விண்ணப்ப புலத்திற்கு கிழக்கில் தென்வடலாக செல்லும் கிராம சாலைக்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு யாதொரு சேதமுமின்றி முறையாக குவாரிப்பணி செய்ய வேண்டும்.
2. விண்ணப்ப புலத்திற்கு அருகில் உள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டர் மற்றும் புறம்போக்கு நிலத்திற்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு யாதொரு சேதமுமின்றி முறையாக குவாரிப்பணி செய்ய வேண்டும்.
3. குத்தகைக்காலத்தில் கைத்துளைப்பான் கருவி கொண்டு பாறைகளை துளையிடும், மிதமான வெடிபொருள் பயன்படுத்தியும், பொதுமக்களுக்கோ, பொது சொத்துக்களுக்கோ யாதொரு சேதமுமின்றி விதிமுறைகளின்படி குவாரிப்பணி செய்ய வேண்டும்.
4. குவாரித் தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்ய Mettalliferous Mines, விதிகளின்படி அகலமானதும், பாதுகாப்பானதுமான Benches அமைத்து பாதுகாப்பான முறையில் குவாரிக்குள் வாகனங்கள் சென்றுவரவும் மற்றும் குவாரி தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்தும் குவாரிப்பணி செய்ய வேண்டும்.
5. குவாரி குத்தகை வழங்க ஏதுவாக உதவி இயக்குநர் (சுரங்கம்) அவர்களால் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தினையும், மாநில அளவிலான சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் (SEIAA) அனுமதி பெற்று மாவட்ட நிர்வாகத்திற்கு விண்ணப்பதாரரால் சமர்ப்பிக்கப்பட வேண்டும்.

எனவே, வருவாய் கோட்டாட்சியர், கருநாடகம் மற்றும் உதவி புவியியலாளர், புவியியல் மற்றும் சுரங்கத்துறை, கருநாடக ஆகியோரின் பரிந்துரைகள் மற்றும் நிபந்தனைகளின் அடிப்படையில் கருநாடக மாவட்டம், புகளூர் வட்டம் குப்பம் கிராமம் பட்டா புல எண்கள்.511/1 (0.96.76 ஹெக்டேர்), 511/2 (1.21.24 ஹெக்டேர்) மற்றும் 512/2 (1.27.53 ஹெக்டேர்) ஆகியவற்றின் மொத்தம் 3.45.53 ஹெக்டேர்ஸ் பரப்பில் 1959-ம் வருட தமிழ்நாடு சிறுகனிம விதிகள், விதி எண். 19(1), 20 மற்றும் 33-இன்படியும் மேலும் மேற்கண்ட நிபந்தனைகளுக்கு உட்பட்டு ஐந்து வருட காலத்திற்கு தி/ள். மகா கணபதி புளூ மெட்டல்

UK

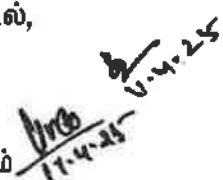
என்ற நிறுவனத்திற்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்குவதற்குரிய தகுதியான நிலப்பரப்பாக கருதப்படுகிறது.

அதற்கிணங்க, தமிழ்நாடு சிறு கனிம சலுகை விதிகள்-1959 விதி எண்.41-இன்படி குவாரிப்பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்க திட்டத்தினை 90 தினங்களுக்குள் சமர்ப்பிக்குமாறு தி/ள். மகா கணபதி புளூ மெட்டல் என்ற நிறுவனத்தினர் கேட்டுக்கொள்ளப்படுகிறார். மேலும் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தின் தொடர்ச்சியாக 1959-ஆம் வருடத்திய தமிழ்நாடு சிறுகனிம சலுகை விதிகள், விதி எண்.42-இன்படி சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் இசைவினைப் பெற்று சமர்ப்பிக்கும் பட்சத்தில் மட்டுமே குவாரி உரிமம் வழங்கப்படும் என இதன் மூலம் தெரிவிக்கப்படுகிறது.


உதவி இயக்குநர்,
புவியியல் மற்றும் சுரங்கத்துறை,
கரூர்.

பெறுநர்

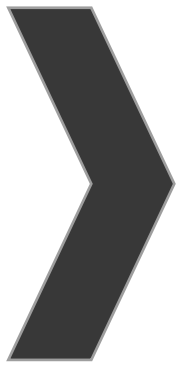
தி/ள்.மகாகணபதி புளூ மெட்டல்,
சர்வே எண்.510/1,
அரசம்பாளையம்,
குப்பம் அஞ்சல்,
புகளூர் வட்டம், கரூர் மாவட்டம்


11-4-25

நகல்:-

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





ANNEXURE-3

From
Thiru.S.Poornavel, M.Sc.,
Assistant Director,
Geology and Mining,
Karur.

To
Tvl.Mahaganapathi Blue Metal,
S.F.No.510/1,
Arasampalayam,
Kuppam Post,
Pugalur Taluk, Karur District

Rc.No.208/Mines/2024, Dated: 24.04.2025

Sir,

Sub: Mines and Minerals – Minor Mineral – Karur District –
Pugalur Taluk – Kuppam Village – Patta lands in
S.F.Nos.511/1 (0.96.76 hectares), 511/2 (1.21.24
hectares, and 512/2 (1.27.53 hectares), Over an
extant of 3.45.53 hectares – Rough Stone and Gravel
Quarry lease application Preferred by
Tvl.Mahaganapathi Blue Metal – Precise area
communicated – mining plan submitted for approval –
Mining Plan Approved – Regarding.

- Ref: 1. Rough stone and Gravel Quarry lease application
preferred by Tvl.Mahaganapathi Blue Metal,
S.F.No.510/1, Arasampalayam, Kuppam Post,
Pugalur Taluk, Karur District, dated: 11.07.2024.
2. Order of the Hon'ble Supreme Court of India in
I.A.Nos.12-13/2011 in SLP (C) No.19628-
19629/2009, dt: 27.02.2012.
3. Government of India, Ministry of Environment and
Forest Office Memorandum, Dated:18.05.2012.
4. The Chairman, State Level Environment Impact
Assessment Authority, Tamil Nadu
D.O.Lr.No.SEIAA-TN/Minor Minerals/2012, Dated:
17.09.2012.
5. The Commissioner of Geology and Mining, Chennai
letter Rc.No.3868/LC/2012, dt: 19.11.2012.
6. Assistant Director, Geology and Mining, Karur
Notice Rc.No.208/Mines/2024, Dated: 11.04.2024.
7. Mining Plan submitted by Tvl.Mahaganapathi Blue
Metal, letter Dated: 12.04.2025 received on
21.04.2025.



In the reference 1st cited Tvl.Mahaganapathi Blue Metal, S.F.No.510/1, Arasampalayam, Kuppam Post, Pugalur Taluk, Karur District has applied for the grant of Rough Stone and Gravel quarry lease for Five years period over an extent of 3.45.53 hectares of patta land in S.F.Nos.511/1 (0.96.76 hectares), 511/2 (1.21.24 hectares), and 512/2 (1.27.53 hectares), of Kuppam Village, Pugalur Taluk, Karur District under Rule 19(1) of Tamil Nadu Minor Mineral Concession Rule 1959.

The Precise area has been communicated by Assistant Director, Geology and Mining, Karur to the applicant for the period of five years based on the recommendation of the Revenue Divisional Officer, Karur and Assistant Geologist, Geology and Mining, Karur in the reference 6th cited. In perusal to that the draft mining plan submitted by the applicant as per the Rule 41 in the reference 7th cited and also instructed to the applicant to submit the Environmental Clearance as per Rule 42 of Tamil Nadu Minor Mineral Concession Rules.

The above submitted mining plan for the grant of Rough stone and Gravel quarry lease patta land in S.F.Nos.511/1 (0.96.76 hectares), 511/2 (1.21.24 hectares, and 512/2 (1.27.53 hectares), Over an extent of 3.45.53 hectares of Kuppam Village, Pugalur Taluk, Karur District has been examined in detail.

Scrutiny remarks on the draft Mining Plan are furnished below.

- a. The Rough Stone and Gravel has been planned to be operated for a period of five years.
- b. The Geological reserve in the subject area is assessed as 5519745 Metric Tonne of Rough Stone and Gravel 49032 Metric Tonne upto a depth of 62m below ground level only.
- c. The Mineable reserve is estimated as 1980676.50 Metric Tonne of Rough Stone and 36528 Metric Tonne of Gravel for the period of Five years upto a depth of 62 m below ground level only.

✓

- d. It has been proposed to quarry 1980676.50 Metric Tonne of Rough Stone and 36528 Metric Tonne of Gravel for the period of five years upto a depth of 62 m below ground level.
- e. Machineries like tractor mounted compressor attached with jack hammers, excavators with rock breaker attachment are proposed for quarrying operation.
- f. Water table level in the area applied is 77m below the ground level during a year.
- g. As per the Rule 111 of Metalliferous Mining Regulations 1961, the boundary barrier zone of 7.5 meters is ear-marked as neutral zone.
- h. The draft Mining plan is submitted within the prescribed time limit of 90 days from the date of receipt of the precise area communication and stipulations made in the rule 36 of the TNMMCR, 1959 are adhered.
- i. The plates including Toposketch of quarry lease applied area for 10Km Radius (1:1,00,000), Quarry lease & Surface plan (1:1,000), Conceptual plan and sections (1:1,000), Topography, Geological & Year wise development & Production plan & Sections (1: 1,000) and Environmental plan (1:10,000) were verified with reference to the field evidences.

As per the guidelines/ instructions issued by the Commissioner of Geology and Mining, Chennai vide letter Rc.No.3868/LC/2012, date: 19.11.2012., the mining plan submitted by the applicant is hereby approved, subject to the following conditions:

- (I) The mining plan is approved without prejudice to any other Law applicable to the quarry lease from time to time whether such laws are made by the Central Government, State Government or any other authority.
- (II) This approval of the mining plan does not in any way imply the approval of the Government in terms or any other provisions of the Mines and Minerals (Development and Regulation) Act,



1957, or any other connected laws including Forest (Conservation) Act, 1980, Forest Conservation Rules, 1981, Environment Protection Act, 1980, Explosives Act, 1884 (Central Act IV of 1884) Minor Mineral Concession and Development Rules, 2010 and the Rules made there under and the Tamil Nadu Minor Mineral Concession Rules, 1959.

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

(IV) As per the Assistant Director, Geology and Mining, Karur notice in Rc.No.208/Mines/2024, Dated.11.04.2025 the following conditions are incorporated in the Mining Plan plates.

1. விண்ணப்ப புலத்திற்கு கிழக்கில் தென்வடலாக செல்லும் கிராம சாலைக்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு யாதொரு சேதமுமின்றி முறையாக குவாரிப்பணி செய்ய வேண்டும்.
2. விண்ணப்ப புலத்திற்கு அருகில் உள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டர் மற்றும் புறம்போக்கு நிலத்திற்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு யாதொரு சேதமுமின்றி முறையாக குவாரிப்பணி செய்ய வேண்டும்.
3. குத்தகைக்காலத்தில் கைத்துளைப்பான் கருவி கொண்டு பாறைகளை துளையிட்டும், மிதமான வெடிபொருள் பயன்படுத்தியும், பொதுமக்களுக்கோ, பொது சொத்துக்களுக்கோ யாதொரு சேதமுமின்றி விதிமுறைகளின்படி குவாரிப்பணி செய்ய வேண்டும்.
4. குவாரித் தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்ய Mettalliferous Mines, விதிகளின்படி அகலமானதும், பாதுகாப்பானதுமான Benches அமைத்து பாதுகாப்பான முறையில் குவாரிக்குள் வாகனங்கள் சென்றுவரவும் மற்றும் குவாரி தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்தும் குவாரிப்பணி செய்ய வேண்டும்.
5. குவாரி குத்தகை வழங்க ஏதுவாக உதவி இயக்குநர் (சுரங்கம்) அவர்களால் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தினையும், மாநில அளவிலான சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் (SEIAA) அனுமதி பெற்று மாவட்ட நிர்வாகத்திற்கு விண்ணப்பதாரரால் சமர்ப்பிக்கப்பட வேண்டும்.

(V) Quarrying shall be done as per the approved Mining Plan and that the mining plan is approved without prejudice to any other law applicable to the quarry lease from time to time whether such laws

are made by the Central Government, State Government or any other authority.

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

Encl: Two copies of Approved Mining Plan.

Dr. P. 24/4/25
Assistant Director,
Geology and Mining,
Karur.

Dr. 24/4/25

UK

From
Thiru.S.Poornavel, M.Sc.,
Assistant Director,
Geology and Mining,
Karur.

To
Tvl.Mahaganapathi Blue Metal,
S.F.No.510/1,
Arasampalayam,
Kuppam Post,
Pugalur Taluk, Karur District

R.C. No.208/Mines/2024, Dated:24.04.2025

Sub: Mines and Minerals – Minor Mineral – Karur District – Pugalur Taluk - Kuppam Village - Patta lands in S.F.Nos.511/1 (0.96.76 hectares), 511/2 (1.21.24 hectares, and 512/2 (1.27.53 hectares), Over an extant of 3.45.53 hectares - Rough Stone and Gravel Quarry lease application preferred by Tvl.Mahaganapathi Blue Metal – Mining Plan approved – Requested for the details of existing pits in lease applied field to get Environmental Clearance - furnished – Regarding.

- Ref:
1. Rough stone and Gravel Quarry lease application preferred by Tvl.Mahaganapathi Blue Metal, S.F.No.510/1, Arasampalayam, Kuppam Post, Pugalur Taluk, Karur District, dated: 11.07.2024.
 2. Precise Area Communication Memorandum Rc.No.208/Mines/2024, Dated: 11.04.2024.
 3. Mining Plan submitted by Tvl.Mahaganapathi Blue Metal letter Dated: 12.04.2025, received on 21.04.2025
 4. The Assistant Director, Geology and Mining, Karur Mining Plan approved letter Rc.No.208/Mines/2024, Dated: 24.04.2024.
 5. Tvl.Mahaganapathi Blue Metal, letter Dated: 23.04.2025

In the reference 1st cited Tvl.Mahaganapathi Blue Metal, S.F.No.510/1, Arasampalayam, Kuppam Post, Pugalur Taluk, Karur District has applied for the grant of Rough Stone and Gravel quarry lease for Five years period over an extent of 3.45.53 hectares of patta land in S.F.Nos.511/1 (0.96.76 hectares), 511/2 (1.21.24 hectares), and 512/2 (1.27.53 hectares), of Kuppam Village, Pugalur Taluk, Karur District under Rule 19(1) of Tamil Nadu Minor Mineral Concession Rule 1959.

In the reference 2nd cited the precise area has been communicated to the applicant based on the recommendation of the Revenue Divisional Officer, Karur and Assistant Geologist of Geology and Mining, Karur.

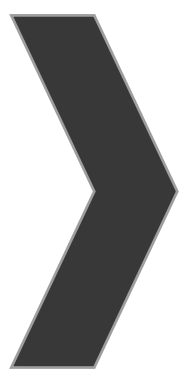
The subject land was previously held under quarry lease, in favour of Thiru.M.Ramasamy, S/o.Marappa Gounder, for the first five years in S.F.No. 511 over an extent of 2.18.0 hectares of patta land in Kuppam Village, Pugalur Taluk, Karur District vide the District Collector's Proceeding in Rc.No.D/48/2004 Dt:20.5.2004, the lease period from 13.9.2005 to 12.9.2010.

The old working pits noticed in the lease applied area as per the approved mining plan and the existing pit dimensions as follows:-

Pit Level	Length(m)	Width(m)	Depth(m)
I	129	95	2
II	55	19	4

P. R.
24/4/24
Assistant Director,
Geology and Mining,
Karur.

P.
24/4/24



APPROVAL MINING PLAN

MINING PLAN FOR KUPPAM 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 : KARUR
TALUK : PUGALUR
VILLAGE : KUPPAM
S.F.NOS : 511/1, 511/2 AND 512/2
EXTENT : 3.45.53Ha

FOR

APPLICANT

Tvl.Mahaganapathi Blue Metal,
Survey No.510/1,
Arasampalayam, Kuppam Post,
Pugalur Taluk,
Karur District.

This Mining Plan is approved subject
to the conditions/stipulations
Indicated in the Mining Plan approval
Letter No: 208 / mines / 2024

PREPARED BY: 24.04.2025

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

M/s. GLOBAL MINING SOLUTIONS

(NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT)

PLOT NO. 6, SF NO. 13/2, A2, VS CITY, RC CHETTYPATTY,
KOTTAMETTUPATTY,

OMALUR, SALEM, TAMIL NADU – 636 455

NABET ACCREDITATION NO – NABET/EIA/2326/IA 0110

CONTACT: 97502 23535, 94446 54520

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



ECO-FRIENDLY



SUSTAINABILITY

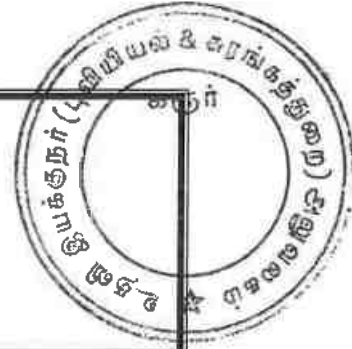


SAFETY



(PPE)

Tvl.Mahaganapathi Blue Metal,
Survey No.510/1,
Arasampalayam,
Kuppam Post, Pugalur Taluk,
Karur District.



CONSENT LETTER FROM THE APPLICANT

The Mining Plan in respect of **Rough Stone and Gravel** quarry over an extent of 3.45.53hectares of Patta lands in S.F.Nos.511/1, 511/2 and 512/2 of Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State has been prepared by

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

Qualified Person

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

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

Qualified Person

M/s. GLOBAL MINING SOLUTIONS

(NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT)

PLOT No. 6, SF No. 13/2, A2, Vs City, RC Chettypatty,

Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455

NABET ACCREDITATION NO – NABET/EIA/2326/IA 0110

CONTACT: 97502 23535, 94446 54520

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

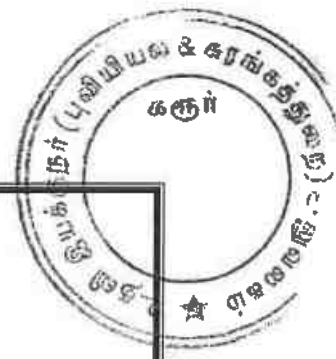
Signature of the Applicant

For Tvl.Mahaganapathi Blue Metal

M.Ekambaram, (Managing Partner)

Place: Karur

Date: 12.04.2025



Tvl.Mahaganapathi Blue Metal,
Survey No.510/1,
Arasampalayam,
Kuppam Post, Pugalur Taluk,
Karur District.

DECLARATION

The Mining Plan in respect of **Rough Stone and Gravel** quarry over an extent of 3.45.53hectares of Patta lands in S.F.Nos.511/1, 511/2 and 512/2 of Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State has been prepared with my consultation and I have understood the contents and agree to implement the same in accordance with the Mining Laws.

Signature of the Applicant
For Tvl.Mahaganapathi Blue Metal

M.Ekambaram, (Managing Partner)

Place: Karur

Date: 12.04.2025



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

Qualified Person

M/s. GLOBAL MINING SOLUTIONS

(NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT)

PLOT No. 6, SF No. 13/2, A2, Vs City, RC Chettypatty,

Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455

NABET ACCREDITATION NO – NABET/EIA/2326/IA 0110

CONTACT: 97502 23535, 94446 54520

CERTIFICATE

This is to certify that, the provisions of under rules 41 & 42 as Amended in under Tamil Nadu Minor Mineral Concession Rules, 1959, have been observed in the Mining Plan for the grant of **Rough Stone and Gravel** quarry lease over an extent of 3.45.53hectares of Patta lands in S.F.Nos.511/1, 511/2 and 512/2 of Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State applied by Tvl.Mahaganapathi Blue Metal, for fresh quarry lease.

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

Certified

Signature of Qualified Person.


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

Qualified Person

C.NATARAJAN M.Sc.,M.Phil.,

Qualified Person

Place: Salem

Date: 14.04.2025



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

Qualified Person

M/s. GLOBAL MINING SOLUTIONS

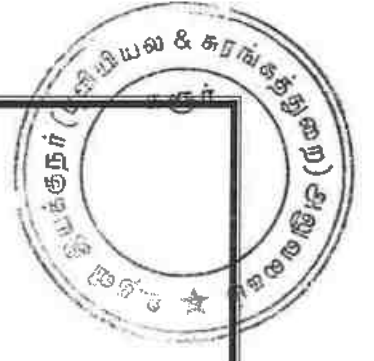
(NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT)

PLOT No. 6, SF No. 13/2, A2, Vs City, RC Chettypatty,

Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455

NABET ACCREDITATION NO – NABET/EIA/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 3.45.53 hectares of Patta lands in S.F.Nos.511/1, 511/2 and 512/2 of Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State for Tvl.Mahaganapathi Blue Metal, covers all the provisions of Mines Act, Rules, and Regulations etc made there under and whenever specific permission are required, the applicant will approach the Director General of Mines Safety, Chennai. The standards prescribed by DGMS in respect of Mines Health will be strictly implemented.

Certified

Signature of Qualified Person.

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

Qualified Person

C.NATARAJAN M.Sc.,M.Phil.,

Qualified Person

Place : Salem

Date : 14.04.2025

Handwritten signature

CERTIFICATE

Certified that I, C.Natarajan, M/s. GLOBAL MINING SOLUTIONS (NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT) Plot No. 6, SF No. 13/2, A2, Vs City, RC Chettypatty, Kottamettupatty, Omahur, Salem, Tamil Nadu – 636 455 NABET ACCREDITATION NO – NABET/EIA/2326/IA 0110. I am a Post graduate in Geology (M.Sc., Geology) from Annamalai university and more than five years of experience in mining Field.

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

Accordingly I prepared this Mining Plan in respect of Rough Stone and Gravel quarry lease applied for an extent of 3.45.53hectares of Patta land in S.F.Nos.511/1, 511/2 and 512/2 of Kuppam Village, Pugalur Taluk, Karur District, by Tvl.Mahaganapathi Blue Metal, for a period of Five Years. Since the Mining Plan is prepared as per the provisions contained in Rule 15(1) (a) and (b) of Minerals (Other than Atomic, Hydro Carbons Energy Minerals) concession Rules 2016, the same may be approved by the Competent Authority.


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

Qualified Person

C.NATARAJAN M.Sc.,M.Phil.,

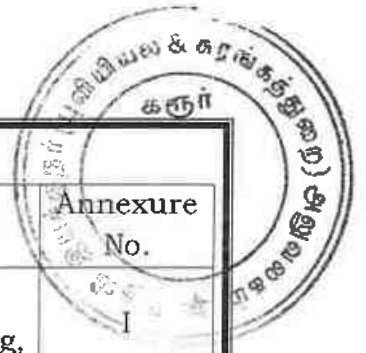
Qualified Person

Place : Salem

Date : 14.04.2025

CONTENTS

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3.0	Location	6
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9.0	Employment Potentials & Welfare Measures	19
10.0	Environment Management Plan	21
11.0	Mine Closure Plan	24
12.0	Any Other Details Intend to furnish by the Applicant	25



Annexure

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

LIST OF PLATES

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

VK



MINING PLAN FOR MINOR MINERALS

ROUGH STONE AND GRAVEL

Over an extent of 3.45.53 hectares of Patta land in S.F.Nos.511/1, 511/2 and 512/2 of Kuppam Village, Pugalur Taluk, Karur District, Tamil Nadu State.

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

1.0 Introduction and Executive Summary;

1. The present Mining Plan is prepared for Tvl.Mahaganapathi Blue Metal, Survey No.510/1, Arasampalayam, Kuppam Post, Pugalur Taluk, Karur District.
2. The application was processed by the Assistant Director, Department of Geology and Mining, Karur, and passed an order vide Rc.No.208/Kanimam/2024 dated 11.04.2025 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 3.45.53 hectares of Patta lands in S.F.Nos. 511/1, 511/2 and 512/2 of Kuppam Village, Pugalur Taluk, Karur District of Tamil Nadu State for a period of five years.
3. Accordingly, Mining Plan is prepared under the provisions of rule 19(1), 41 and 42 as per the amendments under Tamil Nadu Minor Mineral Concession Rules, 1959 by incorporating following the conditions imposed in the precise area communication letter.
 - a) A safety distance of 10m should be provided to the village road (passing in a north-south) direction on the east side of the quarry lease applied and should not cause any damage while quarrying operations.
 - b) A 7.5 meters of safety distance should be left out for the adjacent patta lands and 10 meters of safety distance should be left out for the adjacent government lands while quarrying operation should not cause any damage while quarrying operations.

This Mining Plan is approved subject
to the conditions/stipulations
indicated in the Mining Plan approval
Letter No: 208/mines/2024
Dated: 24.04.2025



- c) The applicant should use jackhammers and mild explosives during blasting in the quarry, and the applicant should not cause any hindrance or damage during the quarry operations.
- d) The applicant ensures labours safety and vehicles safely passing within the quarry as per the Metalliferous Mines Rule, should keep widening and safety benches.
- e) The quarry lease will grant after the applicant getting approval for draft mining plan from Assistant Director (Mines) and Environmental clearance from the State Level Environmental Impact Assessment Authority (SEIAA) the applicant should submit to the district administration.
4. Geological Resources is estimated at 55,19,745Ts of Rough stone and 49,032Ts of gravel formation and Mineable Reserves is estimated at 19,80,676.50Ts of Rough Stone and 36,528Ts of gravel formation and 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 19,80,676.50Ts of Rough Stone and 36,528Ts of gravel formation 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 10kms 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).

UK



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.

✓



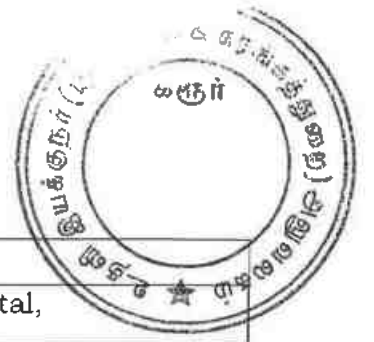
EXECUTIVE SUMMARY:

a.	Name of the Village Panchayat	:	Kuppam
b.	Name of the Panchayat Union	:	K.Paramathi
c.	The proposed total Movable Reserves	:	19,80,676.50Ts of Rough Stone 36,528Ts of gravel formation
d.	The proposed quantity of reserves (level of production) for Five years to be mined is (Recoverable reserves)	:	19,80,676.50Ts of Rough Stone 36,528Ts of gravel formation
e.	Total extent of the area	:	3.45.53Ha
f.	Proposed Period of mining	:	Five Years
g.	Existing depth	:	4m maximum below ground level
h.	Proposed Depth of mining	:	62m (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. 23,73,180/- Rs. 82,00,000/- Rs. 6,20,000/- Total Project cost(A+B+C)= Rs. 1,11,93,180/-

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

Corners	Co-ordinates		Distance between the corners
	Latitude	Longitude	
1	11° 00' 21.73"N	77° 56' 38.86"E	1-2 = 79.8m
2	11° 00' 24.23"N	77° 56' 38.14"E	2-3 = 44.4m
3	11° 00' 25.67"N	77° 56' 38.11"E	3-4 = 16.4m
4	11° 00' 26.19"N	77° 56' 37.99"E	4-5 = 37.0m
5	11° 00' 27.38"N	77° 56' 38.17"E	5-6 = 10.2m
6	11° 00' 27.71"N	77° 56' 38.14"E	6-7 = 212.2m
7	11° 00' 27.03"N	77° 56' 45.09"E	7-8 = 33.4m
8	11° 00' 25.98"N	77° 56' 45.37"E	8-9 = 35.6m
9	11° 00' 24.90"N	77° 56' 44.94"E	9-10 = 42.8m
10	11° 00' 23.51"N	77° 56' 44.80"E	10-11 = 28.8m
11	11° 00' 22.62"N	77° 56' 44.52"E	11-12 = 30.8m
12	11° 00' 21.62"N	77° 56' 44.55"E	12-13 = 45.2m
13	11° 00' 21.77"N	77° 56' 43.07"E	13-11 = 60.8m
14	11° 00' 21.87"N	77° 56' 41.07"E	14-1 = 67.2m

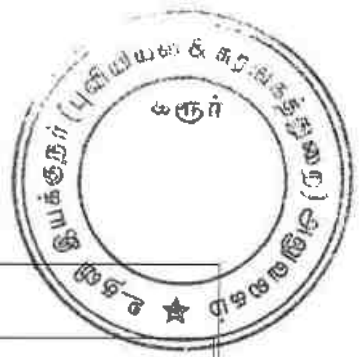
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2.0 General Information:

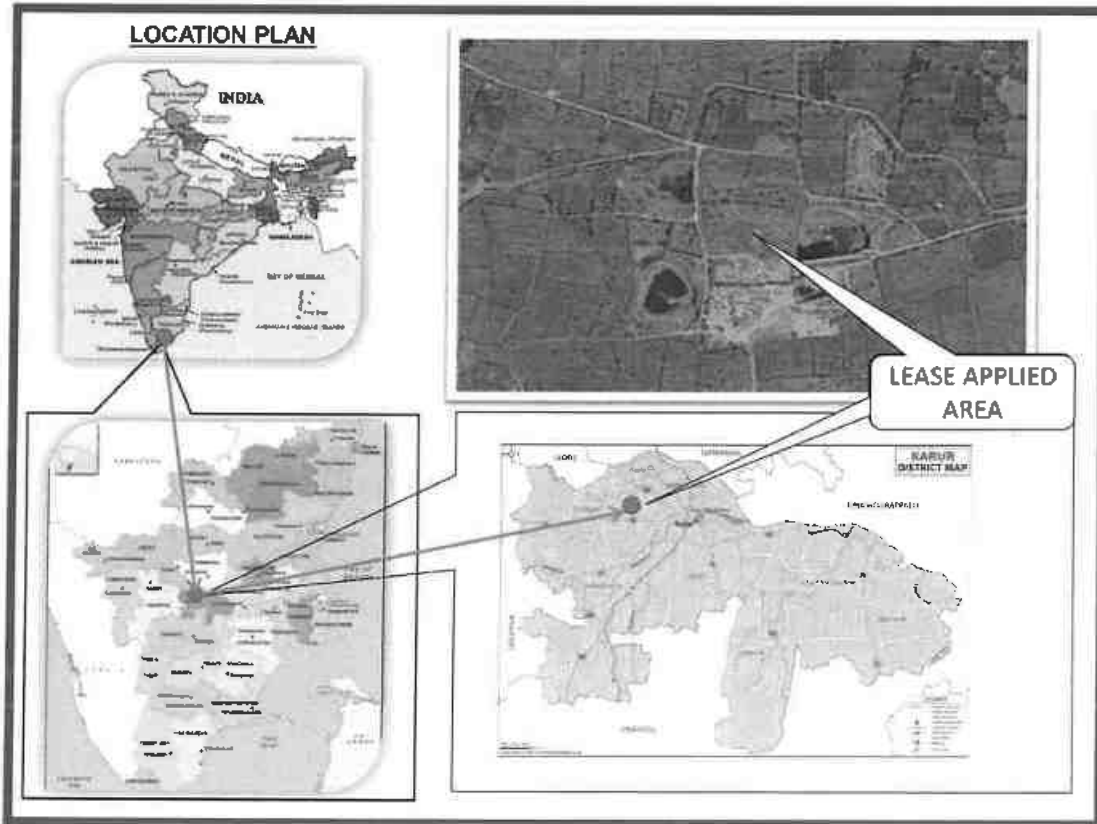
2.1	a.	Name of the Applicant	: Tvl.Mahaganapathi Blue Metal,
	b.	Address of the Applicant with phone No and e-mail id if any	: Survey No.510/1, Arasampalayam, Kuppam Post, Pugalur Taluk, Karur District. Pin code -639111 Cell No.:9442237163
	c.	Status of the Applicant	: Partnership firm
2.2	a.	Mineral Which the applicant intends to mine	: Rough Stone and Gravel.
	b.	Precise area communication letter No.	: Precise area communication letter received from the Assistant Director, Department of Geology and Mining, Karur, vide Rc.No.208/Kanimam/2024 dated 11.04.2025.
	c.	Period of permission / lease granted	: The Assistant Director, Department of Geology and Mining, Karur, has grant of lease period for five years .
	d.	Name and Address of the QP preparing Mining Plan	: C.Natarajan, M.Sc.,M.Phil., Qualified Person M/s. GLOBAL MINING SOLUTIONS (NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT) PLOT No. 6, SF No. 13/2, A2, Vs City, RC Chettypatty, Kottamettupatty, Omalur, Salem District, Tamil Nadu - 636 455 NABET ACCREDITATION NO - NABET/EIA/2326/IA 0110 Contact: 97502 23535, 94446 54520

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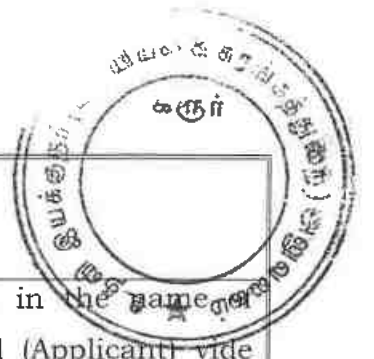


3.0 Location:

S.No	Details of the Area:	
1	Corner Coordinates	Latitude : 11°00'21.62"N to 11°00'27.71"N Longitude : 77°56'37.99"E to 77°56'45.37"E
2	Toposheet Number	58- F/13
3	The altitude of the area	189m (MSL)
4	Extent	3.45.53Ha
5	Survey Nos	511/1, 511/2 and 512/2
6	Village	Kuppam
7	Taluk	Pugalur
8	District	Karur
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 Mahaganapathi Blue Metal (Applicant) vide patta nos. 3983, 3984, 4560 and 1249, Please refer Annexure No: IV.
c.	Toposheet No. with Latitude and Longitude	:	Topo Sheet No: 58-F/ 13 Latitude : 11°00'21.62"N to 11°00'27.71"N Longitude : 77°56'37.99"E to 77°56'45.37"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 Kuppam - Pullaiyampalayam village road on south side of the area. The Nearest Railway line is Karur to Erode line which is about 5.5Km on north 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

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PART - A

4.0 Geology and Mineral Reserves:

4.1	a. Topography	: ➤ The area applied for quarry lease is exhibits almost plain covered by Gravel formation. The massive Charnockite formation is noticed below 2m (Avg) Gravel formation and sloping towards southeastern side of the area, the altitude of the area is above 189m (maximum) from MSL. ➤ No major river is found nearby the lease applied area. ➤ Water table is found at a depth of 77m in summer and 74m 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. <table><tr><th><u>AGE</u></th><th><u>ROCK TYPE</u></th></tr><tr><td>Recent</td><td>Gravelly soil Unconformity</td></tr><tr><td>Archaean</td><td>Dolerite dyke Charnockite. Peninsular Gneissic complex and Calc Gneiss</td></tr></table>	<u>AGE</u>	<u>ROCK TYPE</u>	Recent	Gravelly soil Unconformity	Archaean	Dolerite dyke Charnockite. Peninsular Gneissic complex and Calc Gneiss
<u>AGE</u>	<u>ROCK TYPE</u>								
Recent	Gravelly soil Unconformity								
Archaean	Dolerite dyke Charnockite. Peninsular Gneissic complex and Calc Gneiss								
4.2		Details of Exploration already carried out if any :	No exploration was carried out, as the Rough stone formations are clearly visible from existing quarry pit.						
4.3	a.	Estimation of Reserves :	The Geological and Recoverable reserves are estimated by cross sectional method. Totally three sections have been drawn, two sections drawn length wise as (X-Y), (X1-Y1) and another one section drawn width wise as (A-B), to cover maximum area considered for lease. The Plans and Sections have been drawn with a scale of 1:1000 and 1:500 respectively. Please refer plate No.III.						

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a. Geological Resources

The quarrying is restricted up to a depth of 62m (below ground level) only, availability of resources is given below.

Table No-1

Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel in m ³	Rough stone in m ³	Bulk Density	Gravel formation in Ts	Geological Resources of Rough stone in Ts
XY-AB	I	222	51	2	22644	-	2	45288.00	-
	II	222	51	5	-	56610	2.75	-	155677.50
	III	222	51	5	-	56610	2.75	-	155677.50
	IV	222	51	5	-	56610	2.75	-	155677.50
	V	222	51	5	-	56610	2.75	-	155677.50
	VI	222	51	5	-	56610	2.75	-	155677.50
	VII	222	51	5	-	56610	2.75	-	155677.50
	VIII	222	51	5	-	56610	2.75	-	155677.50
	IX	222	51	5	-	56610	2.75	-	155677.50
	X	222	51	5	-	56610	2.75	-	155677.50
	XI	222	51	5	-	56610	2.75	-	155677.50
	XII	222	51	5	-	56610	2.75	-	155677.50
	XIII	222	51	5	-	56610	2.75	-	155677.50
Total					22644	679320	-	45288.00	186813d.00
X1Y1- AB	I	52	18	2	1872	-	2	3744.00	-
	II	174	68	5	-	55160	2.75	-	162690.00
	III	21	50	3	-	3150	2.75	-	8662.50
		195	118	5	-	115050	2.75	-	316387.50



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IV	195	118	5	-	115050	2.75	-	316387.50
V	195	118	5	-	115050	2.75	-	316387.50
VI	195	118	5	-	115050	2.75	-	316387.50
VII	195	118	5	-	115050	2.75	-	316387.50
VIII	195	118	5	-	115050	2.75	-	316387.50
IX	195	118	5	-	115050	2.75	-	316387.50
X	195	118	5	-	115050	2.75	-	316387.50
XI	195	118	5	-	115050	2.75	-	316387.50
XII	195	118	5	-	115050	2.75	-	316387.50
XIII	195	118	5	-	115050	2.75	-	316387.50
Total				1872	1327860	-	3744.00	3651615.00
Grand Total				24516	2007180	-	49032.00	5519745.00

Gravel Formation

: 49,032Ts

The Geological Resources of Rough stone

: 55,19,745Ts

b. Already excavated

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

Table No-2

Pit No	length (Max) in(m)	Width (Max) in (m)	Depth (Max) in (m)
I	129	95	2
II	55	19	4



c. Mineable Reserve

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

Table No-3

Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel in m ³	Rough stone in m ³	Bulk Density	Gravel formation in Ts	Mineable Reserves of Rough stone in Ts
XY-AB	I	204	43	2	17544	-	2	35088	-
	II	199	41	5	-	40795	2.75	-	112186.25
	III	189	36	5	-	34020	2.75	-	93555.00
	IV	179	31	5	-	27745	2.75	-	76298.75
	V	169	26	5	-	21970	2.75	-	60417.50
	VI	159	21	5	-	16695	2.75	-	45911.25
	VII	149	16	5	-	11920	2.75	-	32780.00
	VIII	139	11	5	-	7645	2.75	-	21023.75
	IX	129	6	5	-	3870	2.75	-	10642.50
Total					17544	164660	-	35088	452815.00
X1Y1-AB	I	40	9	2	720	-	2	1440	-
	II	153	61	5	-	46665	2.75	-	128328.75
		21	47	3	-	2961	2.75	-	8142.75
	III	164	103	5	-	84460	2.75	-	232265.00
	IV	154	98	5	-	75460	2.75	-	207515.00
	V	144	93	5	-	66960	2.75	-	184140.00
	VI	134	88	5	-	58960	2.75	-	162140.00
	VII	124	83	5	-	51460	2.75	-	141515.00
	VIII	114	78	5	-	44460	2.75	-	122265.00
	IX	104	73	5	-	37960	2.75	-	104390.00
	X	94	68	5	-	31960	2.75	-	87890.00
	XI	84	58	5	-	24360	2.75	-	66990.00
	XII	74	48	5	-	17760	2.75	-	48840.00
	XIII	64	38	5	-	12160	2.75	-	33440.00
Total					720	555586	-	1440	1527861.50
Grand Total					18264	720246	-	36528	1980676.50

The mineable reserve is computed as 19,80,676.50Ts of Rough stone and 36,528Ts of Gravel formation upto a depth 62m (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, 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.

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The Yearwise Production and Development Table

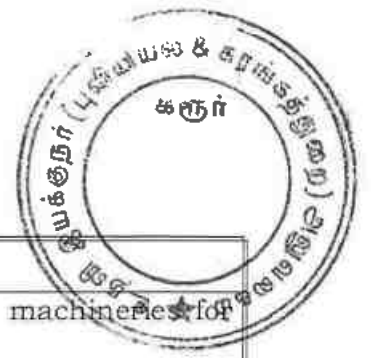
Table No -4

Year	Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Gravel in m ³	Rough stone in m ³	Bulk Density	Gravel in Ts	Mineable Reserves of Rough stone in Ts
I	XY-AB	I	204	43	2	17544	-	2	35088.00	-
		II	199	41	5	-	40795	2.75	-	112186.25
	X1Y1-AB	I	40	9	2	720	-	2	1440.00	-
		II	153	61	5	-	46665	2.75	-	128328.75
		III	21	47	3	-	2961	2.75	-	8142.75
II	X1Y1-AB	III	104	103	5	-	53560	2.75	-	147290.00
		Total				18264	143981	-	36528.00	395947.75
		III	60	103	5	-	30900	2.75	-	84975.00
	XY-AB	IV	105	98	5	-	51450	2.75	-	141487.50
		III	189	36	5	-	34020	2.75	-	93555.00
III	X1Y1-AB	IV	179	31	5	-	27745	2.75	-	76298.75
		Total					144115	-	-	396316.25
		IV	49	98	5	-	24010	2.75	-	66027.50
	XY-AB	V	144	93	5	-	66960	2.75	-	184140.00
		VI	33	88	5	-	14520	2.75	-	39930.00
IV	X1Y1-AB	V	169	26	5	-	21970	2.75	-	60417.50
		VI	159	21	5	-	16695	2.75	-	45911.25
		Total					144155	-	-	396426.25
	XY-AB	VI	101	88	5	-	44440	2.75	-	122210.00
		VII	124	83	5	-	51460	2.75	-	141515.00
V	X1Y1-AB	VIII	73	78	5	-	28470	2.75	-	78292.50
		VII	149	16	5	-	11920	2.75	-	32780.00
		VIII	139	11	5	-	7645	2.75	-	21023.75
	XY-AB	Total					143935	-	-	395821.25
		VIII	41	78	5	-	15990	2.75	-	43972.50
	X1Y1-AB	IX	104	73	5	-	37960	2.75	-	104390.00
		X	94	68	5	-	31960	2.75	-	87890.00
		XI	84	58	5	-	24360	2.75	-	66990.00
	XY-AB	XII	74	48	5	-	17760	2.75	-	48840.00
		XIII	64	38	5	-	12160	2.75	-	33440.00
	XY-AB	IX	129	6	5	-	3870	2.75	-	10642.50
		Total					144060	-	-	396165.00
		Grand Total					18264	720246	36528.00	1980676.50

The applicant has proposed to carry out 19,80,676.50Ts of Rough stone and 36,528Ts of Gravel formation upto a depth 62m (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												
	1	Jack hammer	10												
	2	Compressor	3												
			Dia Hole mm												
			32												
			Make												
			Atlas Copco												
			Motive power												
			Compressed air												
			Diesel Drive												
b.	Loading	:	Excavator of 0.90m ³ bucket capacity (with Rock breaker attachment) (2No).												
c.	Transportation	:	Tipper 5Nos (20/25Ts) 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, <table border="1"> <thead> <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> </thead> <tbody> <tr> <td>I</td><td>204</td><td>145</td><td>62</td></tr> </tbody> </table> 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.	Ultimate Pit dimension (M) end of Mining plan Period				Pit No	Length (max) in (m)	Width (Avg) in (m)	Depth(max) in(m)	I	204	145	62
Ultimate Pit dimension (M) end of Mining plan Period															
Pit No	Length (max) in (m)	Width (Avg) in (m)	Depth(max) in(m)												
I	204	145	62												

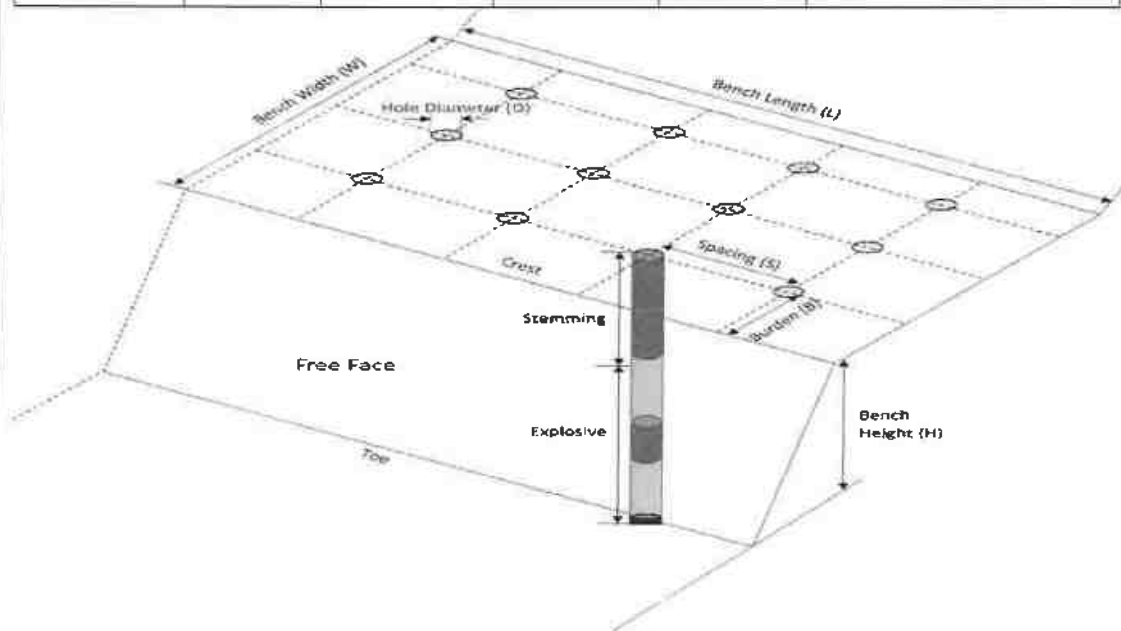
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6.0 Blasting:

- 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 K.g of explosives. Blasting parameters are as follows.

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



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

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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. <table><tr><td>Number of holes</td><td>: 440</td></tr><tr><td>Powder factor</td><td>: 6Ts/Kg of explosives</td></tr><tr><td>Total explosive required</td><td>: 220Kg slurry explosives</td></tr><tr><td>Charge / hole</td><td>: 0.5Kg</td></tr><tr><td>Blasting time</td><td>: 12-2 Pm</td></tr></table>	Number of holes	: 440	Powder factor	: 6Ts/Kg of explosives	Total explosive required	: 220Kg slurry explosives	Charge / hole	: 0.5Kg	Blasting time	: 12-2 Pm
Number of holes	: 440											
Powder factor	: 6Ts/Kg of explosives											
Total explosive required	: 220Kg 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. ➤ <i>The applicant ensure that will appoint the Mate (Should have Valid Blaster Certificate) during Blasting Operation.</i>										

7.0 Mine Drainage:

7.1	Depth of Water table	➤ The ground water table is reported as 77m below ground level. In the proposed mining plan only 62m (below ground level) depth has been envisaged as workable depth for safe & economic quarrying for the entire lease period. Hence the quarrying operation may not affect the ground water.
7.2	Arrangement and Places where the mine water is finally proposed to be discharged	➤ The ground water may not rise immediately in this type of mining. However, the rain water percolation and collection of water from the seepage shall be less than 300lpm and it shall be pumped about periodically by a stand by diesel powered Centrifugal pump motivated with 7.5H.P.Motor. The quality of water is potable and it is not contaminated with any hazardous things. Hence, water stored in the quarry pit will be pumped into the adjacent agricultural fields. Further the water stored in the old pit will also be used for plantation purposes

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8.0 Other Permanent Structures:

8.1	Habitations / Village	:	There is no habitations situated within a radius of 300m.
8.2	Power lines (HT/LT)	:	There is no Power line (HT/LT) passing within a radius of 50m.
8.3	Water bodies (River, Pond, Lake, Odai, Channel etc)	:	There is Noyyal canal passing on north side of the area and is 55m away from the area.
8.4	Archeological / Historical Monuments	:	There are no Archaeological / Historical Monuments within a radius of 300m.
8.5	Road (NH, SH, Village Road etc.)	:	The National Highway (NH-81) Karur - Coimbatore is about 5.2km on south side of the area. The State Highway (SH-84) Karur - Salaipudur is about 2.5Km on north side of the area.
8.6	Places of Worship	:	There are no Places of Worship within a radius of 50m.
8.7	Reserved Forest / Forest / Social Forest / Wild Life Sanctuary etc.,	:	There is no Reserve 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

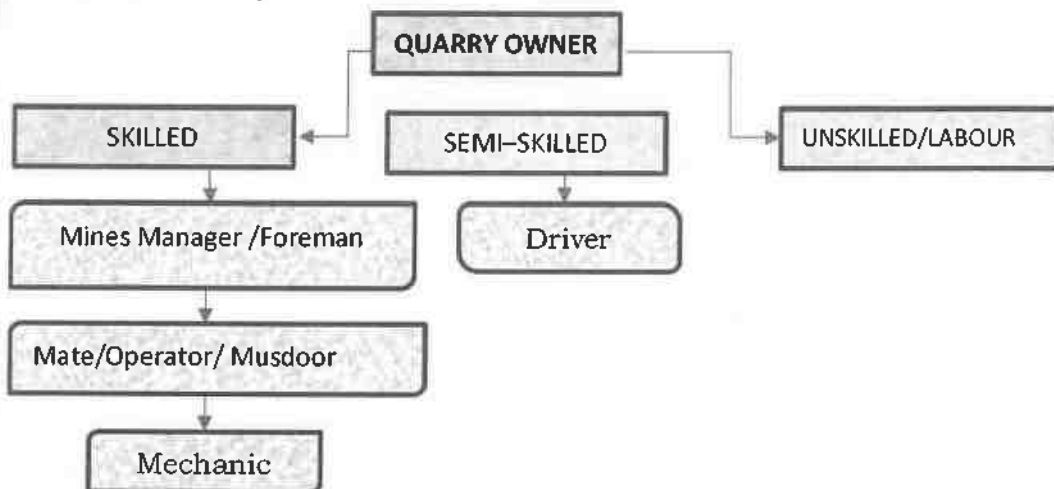
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9.0 Employment Potential & Welfare Measures:

9.1 Employment Potential (Management & Supervisory personal)

The proposed organization chart



1.	Skilled	Mines Manager	1 No.
		Foreman / Mate	2 No.
		Operator	12 No.
		Mechanic	1 No.
2.	Semi-skilled	Driver	5 No.
3.	Unskilled	Labours	12Nos
Total =			33Nos

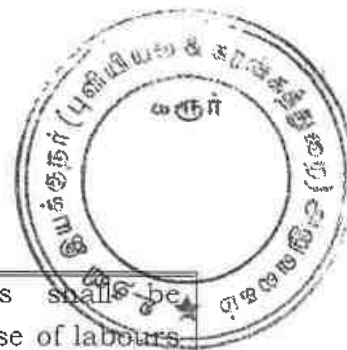
Allowing 10% absentee, the no. of men of roll will be around 30.

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 Kuppam village which is about 2Km on northwest side of the area.



b.	Sanitary facilities	:	Semi-permanent latrines & urinals shall be maintained at convenient places for use of labours as per the provisions of Rule (33) of the Mines Rules, 1960 separately for males and females. Washing facilities shall also be arranged as per rule (36) of the Mines Rules, 1960.
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 13Km (SE) in Karur 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 exhibits almost plain topography covered by Gravel formation. 2. Quarrying operation is proposed up to a depth of 62m (below ground level) for the proposed mining plan period. 3. Fluctuation of Water table in this area is in between 77m and 74m during a year. 4. This region receives the average annual rainfall of 800mm to 900mm. The surrounding area is practiced by the seasonal cultivation. The existing land use pattern is given as under.

Table No-5

Sl. No.	Land Use	Present Area (Ha)	Area in use during the quarrying period (Ha)
1.	Quarrying Pit	1.33.00	2.95.80
2.	Infrastructure	Nil	0.01.00
3.	Roads	0.01.00	0.01.00
4.	Green Belt	Nil	0.47.73
5.	Unutilized	2.11.53	Nil
	Total =	3.45.53	3.45.53

10.2	Water Regime	:	Water table in this area is noticed at a depth of 77m and presently, in the proposed mining plan only 62m (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.

VK

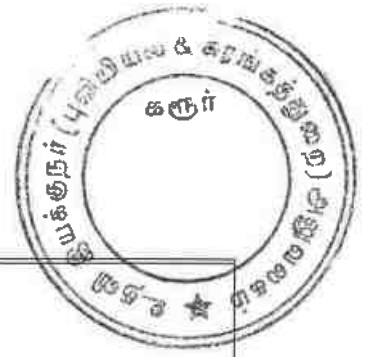


10.4	Climatic conditions	: Generally subtropical climatic condition prevails throughout the year and there is no sharp variation in climate. This District receives rain both in south west and north east monsoon. The average rainfall is about 800mm to 900mm and the temperature ranges from 18°C during winter and to a maximum of 42°C during the summer.																				
10.5	Human Settlement	: The nearest habitations with the population is given as under. Table No-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>Uppupalayam</td><td>2.5Km - NE</td><td>400</td></tr><tr><td>2.</td><td>Kuppam</td><td>2.0km - NW</td><td>800</td></tr><tr><td>3.</td><td>Pullaiyampalayam</td><td>2.6km - SE</td><td>300</td></tr><tr><td>4.</td><td>Andisangilipalayam</td><td>1.2km - SW</td><td>500</td></tr></table>	S. No	Name of the Village	Approximate distance & Direction from lease applied area	Approximate population	1.	Uppupalayam	2.5Km - NE	400	2.	Kuppam	2.0km - NW	800	3.	Pullaiyampalayam	2.6km - SE	300	4.	Andisangilipalayam	1.2km - SW	500
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10.6	Plan for Air, Dust Suppression	: Air or dust expected to be generated from drilling process, hauling roads, places of excavation etc., will be suppressed by periodical wetting of land by water spraying. Wet drilling and dust extractor arrangements will be provided to drilling units so as to control raise of dust from the site of drilling. Operators, those exposed directly to such conditions will be provide such protective equipment like mask, ear plug, helmet, gloze etc., as per the Mines Act.																				
10.7	Plan for Noise Control	: Quarrying of Rough Stone will be carried out by drilling and blasting by using low power explosives, and hence, noise will be very minimum. However, periodical noise level monitoring will be carried out to check the noise level in and around the quarry site. Nowhere the noise level should exceed the permissible limit of 80db during the quarry working hours.																				

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10.8	Environmental Impact Assessment Statement Describing Impact on mining on the next Five years	:	The mining plan proposed is for a small production of Rough stone without involving deep hole drilling and heavy blasting. Such limited mining activity is not likely to cause any impact adversely on environment as far as pollution of air, water and noise is concerned, anyhow environmental impact studies will be conducted as per EIA notification issued by MOEF.
10.9	Proposal for Waste Management	:	There is no waste anticipated in this rough stone quarry operation.
10.10	Proposal of Reclamation of Land affected during mining activities and at the end of mining.	:	In the proposed mining plan 62m (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 62m 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 4773Sqm area is proposed to use under afforestation by planting 573nos 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)=		Rs. 20,73,180
	2. First aid room and accessories		Rs.1,00,000
	3. Labour Shed		Rs.1,00,000
	4. Sanitary Facility		Rs.1,00,000
	Total=		Rs. 23,73,180/-



B. Operational Cost:		
1. Machineries	:	Rs.80,00,000/-
2. Fencing cost	:	Rs. 2,00,000/-
Total	:	Rs.82,00,000/-
C.EMP Cost:		Budget Provision for the entire quarrying period.
	:	Air Quality Sampling = Rs. 40,000/-
	:	Water Quality Sampling = Rs. 40,000/-
	:	Noise Monitoring = Rs. 20,000/-
	:	Ground vibration test = Rs. 20,000/-
Expenditure		
1. Drinking water facility		Rs.1,50,000/-
2. Sanitary Arrangements		Rs. 50,000/-
3. Safety kids		Rs. 50,000/-
4. Water sprinkling		Rs. 1,50,000/-
5. Afforestation		Rs. 1,00,000/-
Total=		Rs. 6,20,000/-
Total Project Cost (A+B+C)	:	Rs. 1,11,93,180/-
CSR Cost(2% of Total Project Cost)	:	Rs. 2,23,864/-

11.0 Mine Closure Plan:

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

✓



12.0 Any Other Details Intend to Furnish by the Applicant:

- (i) Permission will be obtained from the District Mines Office to extract the Rough Stone from the Boundary barriers and for slopes.
- (ii) Care and precautionary measures will be taken for the safety of workers as per Rules and Acts.
- (iii) The applicant will endeavor every attempt to quarry the Rough Stone economically without any wastage and to improve the environment and ecology.
- (iv) The Mining Plan is prepared by incorporating the conditions stipulated in the precise area communication issued and relevant mining laws in force.
- (v) Any violation pointed out by the inspecting authorities shall be rectified as per the guidelines of the Department.

Prepared by

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

Place : Salem.

Date : 14.04.2025

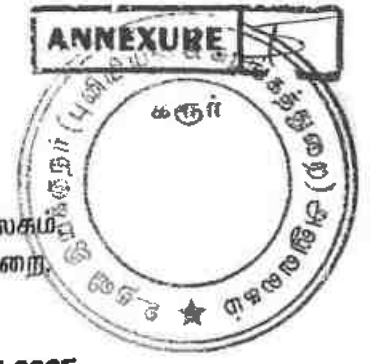
This Mining Plan is approved based on incorporation of the particulars specified in clause 7 (iv) of the Commissioner of Geology and Mining Chennai Lr No 3868 / LC / 2012 dt 19-11-2012 and Draft Minor Mineral Conservation & Development Rules 2010

P. R. 24/4/25
Assistant Director of Geology and Mining
Karur District.

This Mining Plan is approved subject to the conditions/stipulations indicated in the Mining Plan approval Letter No: 208/M4828/2024
Dated: 24-04-2025.

ந.க.எண். 208/கனிமம்/2024

மாவட்ட ஆட்சியர் அலுவலகம்
புவியியல் மற்றும் சுரங்கத்துறை
கரூர்



நாள்: 11.04.2025.

குறிப்பாணை**பொருள்:**

கனிமங்களும் குவாரிகளும் - கரூர் மாவட்டம் - புகளூர் வட்டம் - குப்பம் கிராமம் - பட்டா புல எண்கள்.511/1 (0.96.76 ஹெக்டேர்), 511/2 (1.21.24 ஹெக்டேர்) மற்றும் 512/2 (1.27.53 ஹெக்டேர்) ஆகியவற்றின் மொத்தம் 3.45.53 ஹெக்டேர் நிலப் பரப்பில் - சாதாரணக்கற்கள் மற்றும் கிராவல் வெட்டி எடுக்க குவாரி குத்தகை உரிமம் வேண்டி மகாகணபதி புளுமெட்டல் என்ற நிறுவனத்தின் விண்ணப்பம் செய்தது - உரிமம் வழங்க பரிந்துரை செய்யப்பட்டது - தகுதியான நிலப்பரப்பாக கருதி ஏற்பளிக்கப்பட்ட சுரங்க திட்டம் மற்றும் மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணைய இசைவினை பெற்று சமர்ப்பிக்கக் கோருதல் - தொடர்பாக.

பார்வை:

1. தி/ள்.மகாகணபதி புளு மெட்டல், சர்வே எண்.510/1, அரசம்பாளையம், குப்பம் அஞ்சல், புகளூர் வட்டம், கரூர் மாவட்டம் என்ற நிறுவனத்தின் குவாரி குத்தகை உரிமம் வழங்கக் கோரும் விண்ணப்பம் நாள்: 11.07.2024
2. வருவாய் கோட்டாட்சியர், கரூர் அவர்களின் கடிதம் ந.க.எண். அ1/3892/2024, நாள்:08.10.2024
3. உதவி புவியியலாளர், புவியியல் மற்றும் சுரங்கத்துறை கரூர் என்பவரது புலத்தணிக்கை அறிக்கை நாள்: .04.2025.
4. அரசாணை (பல்வகை) எண். 169, தொழில் (எம்.எம்.சி-1) துறை நாள்: 04.08.2020 இணைத்து வரப்பெற்றுள்ளது. (தமிழ்நாடு அரசிதழ் சிறப்பு வெளியீடு எண். 315 நாள்: 04.08.2020).

கரூர் மாவட்டம், புகளூர் வட்டம் குப்பம் கிராமம் பட்டா புல எண்கள்.511/1 (0.96.76 ஹெக்டேர்), 511/2 (1.21.24 ஹெக்டேர்) மற்றும் 512/2 (1.27.53 ஹெக்டேர்) ஆகியவற்றின் மொத்தம் 3.45.53 ஹெக்டேர்ஸ் பரப்பு நிலத்திலிருந்து ஐந்து ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க சர்வே எண்.510/1, அரசம்பாளையம், குப்பம் அஞ்சல், புகளூர் வட்டம், கரூர் மாவட்டம் என்ற முகவரியை சேர்ந்த தி/ள்.மகாகணபதி புளுமெட்டல் என்ற நிறுவனத்தினர் பார்வை 1-இல் கண்டுள்ளவாறு விண்ணப்பம் செய்துள்ளார்.



மேற்படி விண்ணப்பம் தொடர்பாக, வருவாய் கோட்டாட்சியர், கருநாடகம் மற்றும் உதவி புவியியலாளர், புவியியல் மற்றும் சுரங்கத்துறை, கருநாடக ஆகியோர் புலத்தணிக்கை மேற்கொண்டு கருநாடக மாவட்டம், புகளூர் வட்டம் குப்பம் கிராமம் பட்டா புல எண்கள்.511/1 (0.96.76 ஹெக்டேர்), 511/2 (1.21.24 ஹெக்டேர்) மற்றும் 512/2 (1.27.53 ஹெக்டேர்) ஆகியவற்றின் மொத்தம் 3.45.53 ஹெக்டேர்ஸ் பரப்பில் மட்டும் தமிழ்நாடு சிறு கனிமச்சலுகை விதிகளில் விதி எண்கள்.19-(1), 20 மற்றும் 33-இன் கீழ் தி/ள்.மகாகணபதி புளூமெட்டல் என்ற நிறுவனத்தினர் 5 ஆண்டுகளுக்கு சாதாரண சுற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்க கீழ்க்கண்ட நிபந்தனைகளுக்குட்பட்டு அனுமதி வழங்கலாம் என பரிந்துரை செய்துள்ளனர்.

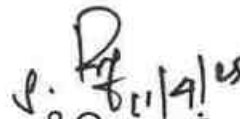
1. விண்ணப்ப புலத்திற்கு கிழக்கில் தென்வடலாக செல்லும் கிராம சாலைக்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு யாதொரு சேதமுமின்றி முறையாக குவாரிப்பணி செய்ய வேண்டும்.
2. விண்ணப்ப புலத்திற்கு அருகில் உள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டர் மற்றும் புறம்போக்கு நிலத்திற்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு யாதொரு சேதமுமின்றி முறையாக குவாரிப்பணி செய்ய வேண்டும்.
3. குத்தகைக்காலத்தில் கைத்துளைப்பான் கருவி கொண்டு பாறைகளை துளையிடும், மிதமான வெடிபொருள் பயன்படுத்தியும், பொதுமக்களுக்கோ, பொது சொத்துக்களுக்கோ யாதொரு சேதமுமின்றி விதிமுறைகளின்படி குவாரிப்பணி செய்ய வேண்டும்.
4. குவாரித் தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்ய Mettalliferous Mines, விதிகளின்படி அகலமானதும், பாதுகாப்பானதுமான Benches அமைத்து பாதுகாப்பான முறையில் குவாரிக்குள் வாகனங்கள் சென்றுவரவும் மற்றும் குவாரி தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்தும் குவாரிப்பணி செய்ய வேண்டும்.
5. குவாரி குத்தகை வழங்க ஏதுவாக உதவி இயக்குநர் (சுரங்கம்) அவர்களால் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தினையும், மாநில அளவிலான சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் (SEIAA) அனுமதி பெற்று மாவட்ட நிர்வாகத்திற்கு விண்ணப்பதாரரால் சமர்ப்பிக்கப்பட வேண்டும்.

எனவே, வருவாய் கோட்டாட்சியர், கருநாடகம் மற்றும் உதவி புவியியலாளர், புவியியல் மற்றும் சுரங்கத்துறை, கருநாடக ஆகியோரின் பரிந்துரைகள் மற்றும் நிபந்தனைகளின் அடிப்படையில் கருநாடக மாவட்டம், புகளூர் வட்டம் குப்பம் கிராமம் பட்டா புல எண்கள்.511/1 (0.96.76 ஹெக்டேர்), 511/2 (1.21.24 ஹெக்டேர்) மற்றும் 512/2 (1.27.53 ஹெக்டேர்) ஆகியவற்றின் மொத்தம் 3.45.53 ஹெக்டேர்ஸ் பரப்பில் 1959-ம் வருட தமிழ்நாடு சிறுகனிம விதிகள், விதி எண். 19(1), 20 மற்றும் 33-இன்படியும் மேலும் மேற்கண்ட நிபந்தனைகளுக்கு உட்பட்டு ஐந்து வருட காலத்திற்கு தி/ள். மகா கணபதி புளூ மெட்டல்

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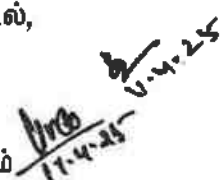
என்ற நிறுவனத்திற்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்குவதற்குரிய தகுதியான நிலப்பரப்பாக கருதப்படுகிறது.

அதற்கிணங்க, தமிழ்நாடு சிறு கனிம சலுகை விதிகள்-1959 விதி எண்.41-இன்படி குவாரிப்பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்க திட்டத்தினை 90 தினங்களுக்குள் சமர்ப்பிக்குமாறு தி/ள். மகா கணபதி புளூ மெட்டல் என்ற நிறுவனத்தினர் கேட்டுக்கொள்ளப்படுகிறார். மேலும் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தின் தொடர்ச்சியாக 1959-ஆம் வருடத்திய தமிழ்நாடு சிறுகனிம சலுகை விதிகள், விதி எண்.42-இன்படி சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் இசைவினைப் பெற்று சமர்ப்பிக்கும் பட்சத்தில் மட்டுமே குவாரி உரிமம் வழங்கப்படும் என இதன் மூலம் தெரிவிக்கப்படுகிறது.


உதவி இயக்குநர்,
புவியியல் மற்றும் சுரங்கத்துறை,
கரூர்.

பெறுநர்

தி/ள்.மகாகணபதி புளூ மெட்டல்,
சர்வே எண்.510/1,
அரசம்பாளையம்,
குப்பம் அஞ்சல்,
புகளூர் வட்டம், கரூர் மாவட்டம்


11-4-25

நகல்:-

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



அதன்மேல்படிவ எண் 23

பெயர்: திருச்சி ராப்பண்ணி

பெயர்: கீரே

புல எண்: 511

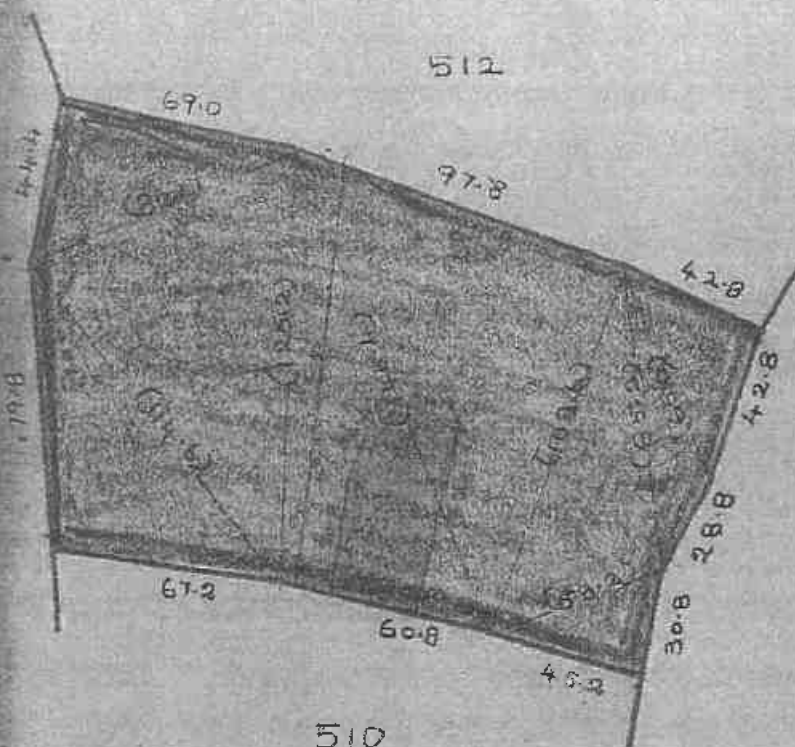
பரப்பு: ஹெக்டேர்

உ. ஏ. ரா.

New Survey No. 511/1 & 2 of the

As per T.C. 8A-25/1431 dt. 24.1.14.

அ. ரா. ரா. ரா.



- ☐ பரப்பு: 511/1-ல் இயங்கிய கல் உடைக்கப்பட்ட பகுதி: மொத்த 8.96.76 ஏக்கர்
☐ பரப்பு: 511/2-ல் இயங்கிய கல் உடைக்கப்பட்ட பகுதி: மொத்த 1.07.00 ஏக்கர்
☐ பரப்பு: 511/2-ல் இயங்கிய கல் உடைக்கப்பட்ட பகுதி: மொத்த 0.14.24 ஏக்கர்
 மொத்த 2.18.00 ஏக்கர்

12 ஏக்கர் - 13 ஏக்கர்

புதுவரை

கிராம நிர்வாக அலுவலர்,
 18, பெரும் கிராமம்,
 புதுவரை வட்டம்.

LEASE APPLIED AREA



புதுவரை வட்டம்
 ம. ரா. ரா. ரா.
 அலுவல் பணியாளர்

அளவு: 1.2500 ஏக்கர்

118 ரா. ரா.
 ம. ரா. ரா.



வட்டம்: - 512

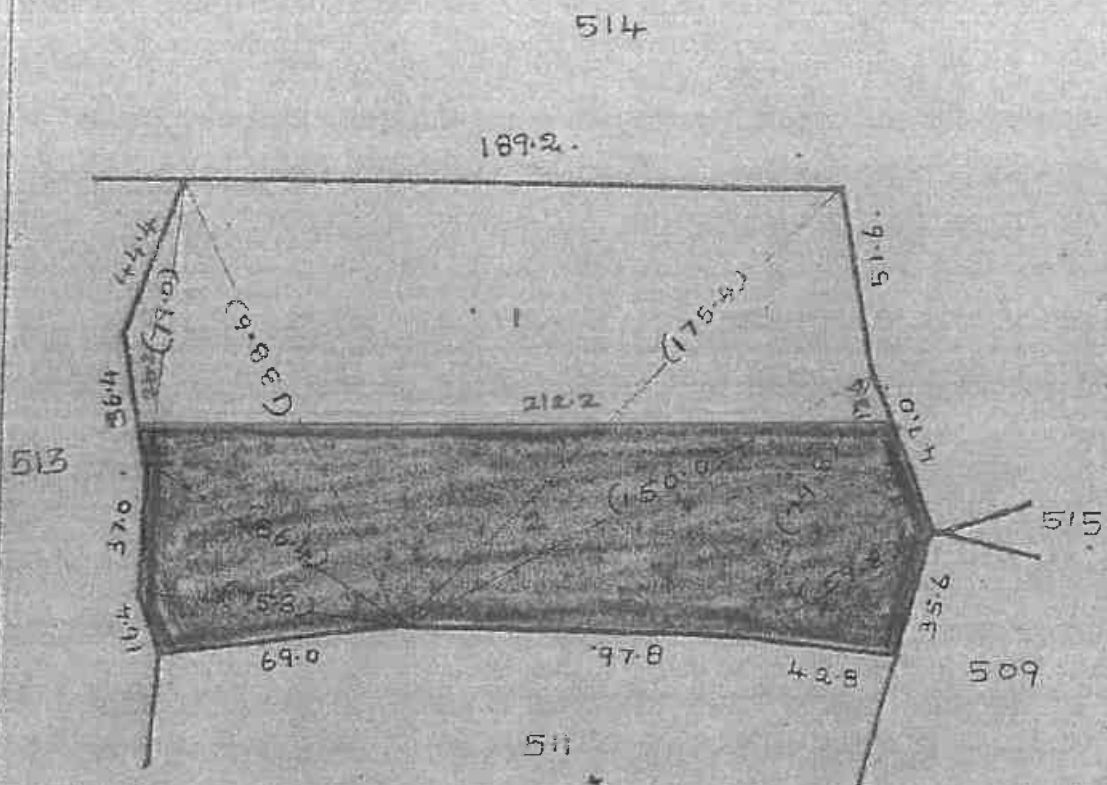
கிராமம்

பெயர்: - 512

புது ஏக்கர்: - 512

பரப்பு: சென்டீமீட்டர்

2 - 9



பகுதி: 512/2-5 இரண்டு பகுதி பகுதி பகுதி: 1.27.53 9.51.

12.00.00 - 13.00.00

Handwritten signature and date: 1.06.2024

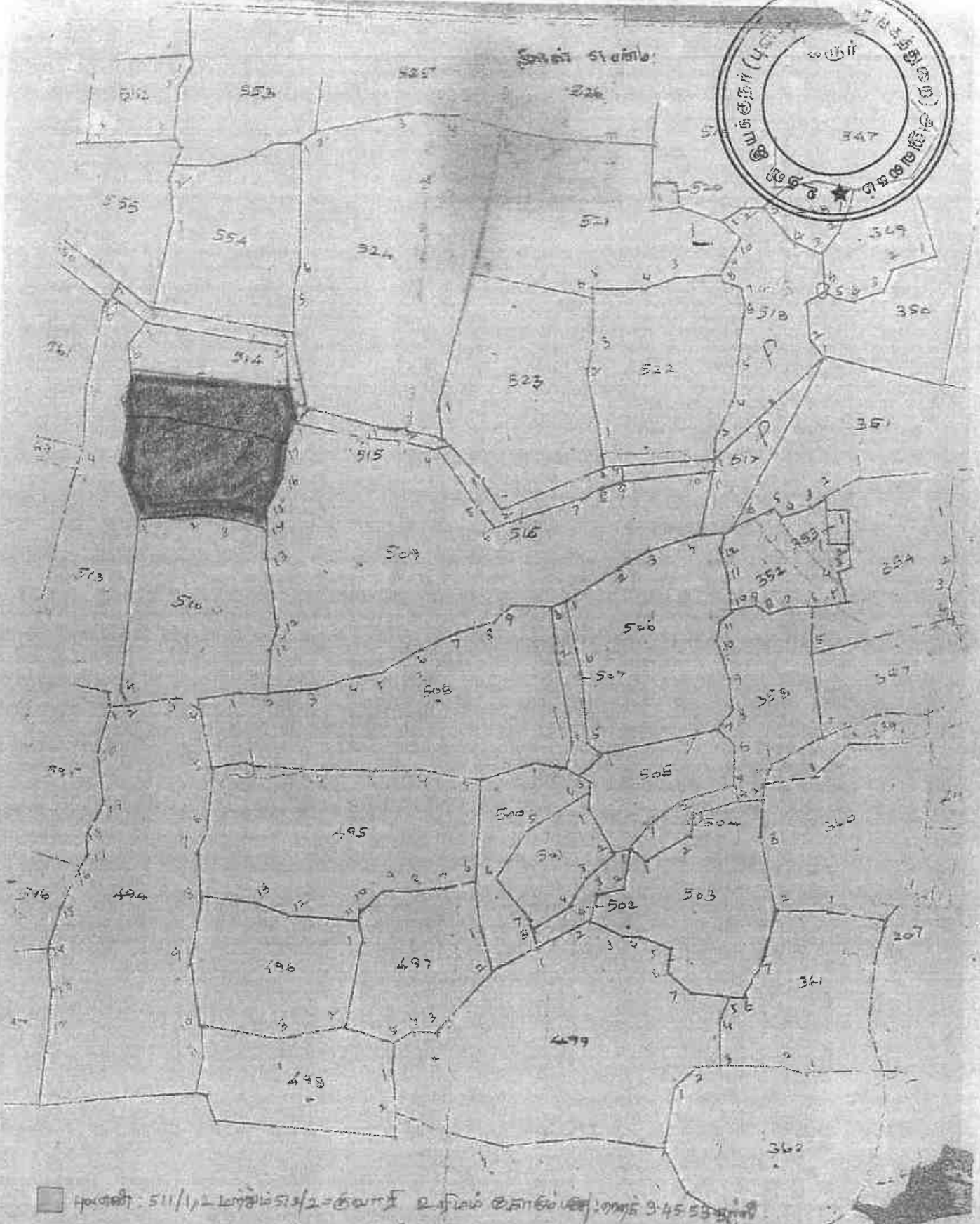
கிராம நிர்வாக அலுவலர்,
18. சபை கிராமம்,
புது ஏக்கர்.

LEASE APPLIED AREA

ஆய்விட்டவர்
பா. முத்துசுந்தரி
அமலர் / பணிபுரணி
24.4.85

அளவு: 1: 2000 1/15

Handwritten signature



பகுதி: 511/1/1 - பகுதி: 511/2 - குவாட்ரன்ட் 2 - பகுதி: 511/3 - குவாட்ரன்ட் 3 - 4553 சதுர மீட்டர்

பிரதம - பிரதம
பிரதம - பிரதம
பிரதம - பிரதம

பிரதம - பிரதம
பிரதம - பிரதம
பிரதம - பிரதம

LEASE APPLIED AREA



தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : கரூர்

வட்டம் : புகழூர்

வருவாய் கிராமம் : குப்பம்

பட்டா எண் : 3983

உரிமையாளர்கள் பெயர்

1. மகா கணபதி புளுமெட்டல் நிறுவனத்திற்காக மேனேஜிங் பாட்னர் சின்னப்பகவுண்டர் மகன் ...பெரியசாமி-

புல எண்	உட்பிரிவு	புன்செய்		நன்செய்		மற்றவை		குறிப்புரைகள்
		பரப்பு	தீர்வை	பரப்பு	தீர்வை	பரப்பு	தீர்வை	
		ஹெக்ட - ஏர்	ரூ - பை	ஹெக்ட - ஏர்	ரூ - பை	ஹெக்ட - ஏர்	ரூ - பை	
511	1	0 - 96.76	1.34	--	--	--	--	2021/0105/14/059452- -2021/14/07/000077SD ----- 23-07-2021
		0 - 96.76	1.34					

குறிப்பு :



- மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து
- பெறப்பட்டவை. இவற்றை தாங்கள் <https://eservices.tn.gov.in> என்ற இணைய தளத்தில் 14/07/018/03983/30803 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
 - இத் தகவல்கள் 22-06-2024 அன்று 12:30:13 PM நேரத்தில் அச்சடிக்கப்பட்டது.
 - கைப்பேசி கேமராவின் 2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்



தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : கருநாடகம்

வட்டம் : புகழூர்

வருவாய் கிராமம் : குப்பம்

பட்டா எண் : 3984

உரிமையாளர்கள் பெயர்

1. மகா கணபதி புளுமெட்டல் நிறுவனத்திற்காக மேனேஜிங் பாட்னர் பெரியசாமி மகன் ...செந்தில்குமார் -

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	
511	2	1 - 21.24	1.67	--	--	--	--	2021/0105/14/059452- -2021/14/07/000077SD ----- 23-07-2021
		1 - 21.24	1.67					

குறிப்பு :



- மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் <https://eservices.tn.gov.in> என்ற இணைய தளத்தில் 14/07/018/03984/30814 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
- இத் தகவல்கள் 22-06-2024 அன்று 12:31:47 PM நேரத்தில் அச்சடிக்கப்பட்டது.
- கைப்பேசி கேமராவின் 2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

UK



தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : கரூர்

வட்டம் : புகழூர்

வருவாய் கிராமம் : குப்பம்

பட்டா எண் : 4560

உரிமையாளர்கள் பெயர்

1. மகாகணபதி புனாமெட்டல் நிறுவனத்திற்காக மேனேஜிங் பாட்னர்

... பெரியசாமி



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	
512	2	1 - 27.53	1.76	--	--	--	--	2023/0105/14/156196- -2023/14/07/000192SD ----- 04-12-2023
		1 - 27.53	1.76					

குறிப்பு :



- மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் <https://eservices.tn.gov.in> என்ற இணைய தளத்தில் 14/07/018/04560/40875 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
- இத் தகவல்கள் 22-06-2024 அன்று 12:32:54 PM நேரத்தில் அச்சடிக்கப்பட்டது.
- கைப்பேசி கேமராவின் 2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

UK



எண் 2

கிராமத்தில் வருடவாரி புவனாரி கைப்பற்று சாகுபடி ஆடம்பரம் கணக்கு

இரண்டாம் பகுதி	பகுதி				
	(1)	(2)	(3)	(4)	(5)
இரண்டாம் பகுதி	பகுதி	பகுதி	பகுதி	பகுதி	பகுதி
	பகுதி	பகுதி	பகுதி	பகுதி	பகுதி
	பகுதி	பகுதி	பகுதி	பகுதி	பகுதி
	பகுதி	பகுதி	பகுதி	பகுதி	பகுதி
	பகுதி	பகுதி	பகுதி	பகுதி	பகுதி

கிராமக் கணக்கு

வட்டம் | 80218

மேலண்டி 14.05.2017

422 - ஆம் பக்கத்தில்

[illegible]

அ-பதிவேடு விவரங்கள் - ஊரகம்

மாவட்டம் : கரூர்
வட்டம் : புகழூர்
கிராமம் : குப்பம்



1. புல எண்	511	9. மண் வயனமும் ரகமும்	8 - 4
2. உட்பிரிவு எண்	1	10. மண் தரம்	6
3. பழைய புல உட்பிரிவு எண்	511--	11. தீர்வை (ரூ - ஹெ)	1.38
4. பகுதி	P	12. பரப்பு (ஹெக்டேர் - ஏர்)	0 - 96.76
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த தீர்வை (ரூ - பை)	1.34
6. நிலத்தின் வகை	பஞ்சை	14. பட்டா எண்	3983
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இறு போகமா	1	16. பெயர்	1.பெரியசாமி

குறிப்பு:



மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து
1. பெறப்பட்டவை. இவற்றை தாங்கள் <https://eservices.tn.gov.in> என்ற இணைய
தளத்தில் 14/07/018/511/1/50803 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி
செய்துகொள்ளவும்.

UK

அ-பதிவேடு விவரங்கள் - ஊரகம்



மாவட்டம் : கரூர்
வட்டம் : புகழூர்
கிராமம் : குப்பம்

1. புல எண்	511	9. மண் வயனமும் ரகமும்	8 - 4
2. உட்பிரிவு எண்	2	10. மண் தரம்	6
3. பழைய புல உட்பிரிவு எண்	511--	11. தீர்வை (ரூ - ஹெ)	1.38
4. பகுதி	P	12. பரப்பு (ஹெக்டேர் - ஏர்)	1 - 21.24
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த தீர்வை (ரூ - பை)	1.67
6. நிலத்தின் வகை	பஞ்சை	14. பட்டா எண்	3984
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இரு போகமா	1	16. பெயர்	1.செந்தில்குமார்

குறிப்பு:



மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து
1. பெறப்பட்டவை. இவற்றை தாங்கள் <https://eservices.tn.gov.in> என்ற இணைய
தளத்தில் 14/07/018/511/2/50814 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி
செய்துகொள்ளவும்.

UK

அ-பதிவேடு விவரங்கள் - ஊரகம்



மாவட்டம் : கருநா
வட்டம் : புகழூர்
கிராமம் : குப்பம்

1. புல எண்	512	9. மண் வயனமும் ரகமும்	8 - 4
2. உட்பிரிவு எண்	2	10. மண் தரம்	6
3. பழைய புல உட்பிரிவு எண்	512--	11. தீர்வை (ரூ - ஹெ)	1.38
4. பகுதி	P	12. பரப்பு (ஹெக்டேர் - ஏர்)	1 - 27.53
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த தீர்வை (ரூ - பை)	1.76
6. நிலத்தின் வகை	பஞ்சை	14. பட்டா எண்	4560
7. பாசன ஆதாரம்	-	15. குறிப்பு	.
8. இரு போகமா	-	16. பெயர்	1.பெரியசாமி

குறிப்பு:



மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து
1. பெறப்பட்டவை. இவற்றை தாங்கள் <https://eservices.tn.gov.in> என்ற இணைய
தளத்தில் 14/07/018/512/2/50875 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி
செய்துகொள்ளவும்.

UK

ANNEXURE VII

239



भारतीय गैर न्यायिक INDIA NON JUDICIAL

एक हजार रुपये

ONE THOUSAND RUPEES

रु.1000

Rs.1000

INDIA

தமிழ்நாடு தமிழ்நாடு TAMILNADU ரூ 1000 — - 1 OCT 2024 BG 579481

MAHAGANAPATHI BLUE METAL
KARURR. RAMASAMY,
STAMP VENDOR
L.No:3861/83
D.M.COURT, KARUR.

கூட்டு வியாபார உடன்படிக்கைப் பத்திரம்

2024ம் ஆண்டு நவம்பர் மாதம் 1ம் தேதிக்கு கருர் மாவட்டம், மண்மங்கலம் தாலூக்கா, ஆண்டாங்கோவில் கீழ்பாகம் கிராமம், எழில் நகர், நம்பர் 2551 என்ற விலாசத்தில் இருக்கும், மரப்ப கவுண்டர் அவர்களின் குமார் மா.ஏகாம்பரம் -1 (வயது 61) கருர் மாவட்டம், மண்மங்கலம் தாலூக்கா, ஆண்டாங்கோவில் கீழ்பாகம் கிராமம், எழில் நகர், நம்பர் 2551 என்ற விலாசத்தில் இருக்கும் மா.ஏகாம்பரம் அவர்களின் மனைவி பி.திலகவதி -2 (வயது 60) கருர்

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மாவட்டம், மண்மங்கலம் தாலுக்கா, ஆண்டாங்கோவில் கீழ்பாகம் கிராமம், எழில் நகர், நம்பர் 2551 என்ற விலாசத்தில் இருக்கும் மா.ஏகாம்பரம் அவர்களின் குமாரத்தி ச.கிருத்திகா-3 (வயது 32) கருர் மாவட்டம், கருர் தாலுக்கா, செங்குந்தபுரம் போஸ்ட், திருநகர் முதல் தெரு, நம்பர் 41 என்ற விலாசத்தில் இருக்கும் ராஜசேகர் அவர்களின் குமாரர் ஆர்.நிமோஷ்ராஜ் -4 (வயது 29) ஆகிய நாம் 4 பேர்களும் சேர்ந்து எழுதிக்கொண்ட கூட்டு வியாபார உடன்படிக்கைப் பத்திரம்.

1. இப்பவும் நம்மில் 1 முதல் 4 வரை லக்கமிட்டவர்கள் 4 பேர்களும் மேலும் கருர் மாவட்டம், கருர் தாலுக்கா, வேலாயுதம்பாளையம் அஞ்சல், வள்ளுவர் நகர் 2வது தெரு, நம்பர் 102 என்ற விலாசத்தில் இருக்கும் சி.பெரியசாமி அவர்களின் மனைவி பி.மல்லிகா (வயது 64), கருர் மாவட்டம், கருர் தாலுக்கா, வேலாயுதம்பாளையம் அஞ்சல், வள்ளுவர் நகர் 2வது தெரு, நம்பர் 102 என்ற விலாசத்தில் இருக்கும் சின்னப்ப கவுண்டர் அவர்களின் குமாரர் சி.பெரியசாமி (வயது 71), கருர் மாவட்டம், கருர் தாலுக்கா, வேலாயுதம்பாளையம் அஞ்சல், கந்தம்பாளையம் என்ற விலாசத்தில் இருக்கும் பி.செல்வராஜ் அவர்களின் மனைவி எஸ்.ரதிதேவி (வயது 42), கருர் மாவட்டம், கருர் தாலுக்கா, வேலாயுதம்பாளையம் அஞ்சல், மாணிக்கநகர் என்ற விலாசத்தில் இருக்கும் பி.பெரியசாமி அவர்களின் குமாரர் பி.செந்தில்குமார் (வயது 48) ஆகிய நாம் 8 பேர்களும் சேர்ந்து 02.10.2024ம் தேதியிட்ட கூட்டு வியாபார உடன்படிக்கைப் பத்திரத்தின்படி கருர் மாவட்டம், கருர் தாலுக்கா, குப்பம் போஸ்ட், அரசம்பாளையம், எஸ்.எம்.நம்பர் 5101 என்ற இடத்தில் " மகாகணபதி புளூ மெட்டல் " " MAHAGANAPATHI BLUE METAL " என்ற விலாசம் வைத்து கருங்கல் ஜல்லிகளை இயந்திரம் மூலம் உடைத்து விற்பனை செய்யும் மற்றும் லாரி வாடகைக்கு விரும் தொழிலை ஆரம்பித்து கூட்டாக நடத்தி வந்ததில் நம்மில் பி.மல்லிகா, சி.பெரியசாமி, எஸ்.ரதிதேவி, பி.செந்தில்குமார் ஆகிய 4 பேர்களும் இக்கூட்டு வியாபாரத்தில் தொடர்ந்து கூட்டாளிகளாக இருந்துவர சௌகரியம் இல்லை என்று மற்ற கூட்டாளிகளுக்கு தெரிவித்தும் அதற்கு அவர்களும் சம்மதித்த வகையில் 31.10.2024ம் தேதியுடன் இக்கூட்டிலிருந்து விலகிக் கொண்டுவிட்டார்கள். பின்னிட்டு நம்மில் 1 முதல் 4 வரை லக்கமிட்டவர்கள் 4 பேர்களும் சேர்ந்து 01.11.2024ம் தேதிமுதல் கொண்டு மேற்படி வகையறா வியாபாரத்தை

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மேற்படி விலாசத்திலேயே தொடர்ந்து கூட்டாக நடத்தி வருகிறோம். இனியும் தொடர்ந்து கூட்டாக நடத்தி வருவோமாகவும் கூட்டாளிகள் விரும்பித் தீர்மானித்தால் மேற்படி பெயரை மாற்றி அமைத்துக்கொள்ளவோ அல்லது வேறு இடங்களுக்கு மாற்றவோ செய்யலாம்.

2. இக்கூட்டின் சார்பில் இதுதவிர வேறு எந்த வியாபாரம் வேண்டுமானாலும் கூட்டாளிகள் விரும்பித் தீர்மானித்தால் இதே பெயரிலேயே இதே விலாசத்திலேயே செய்து வரலாம்.

3. இக்கூட்டின் அபிவிருத்தியை முன்னிட்டு நம் கூட்டாளிகள் உள்ளூரிலும் வெளியூர்களிலும் கிளைகள் துவங்கி நடத்தி வரலாம்.

4. இந்தக்கூட்டு வியாபார உடன்படிக்கைப் பத்திரத்தின் ஊர்த்துக்கள் 01.11.2024ம் தேதிமுதல் கொண்டு அமுலுக்கு வந்ததாக கருதவேண்டியது.

5. இக்கூட்டு வியாபாரத்திற்காக நம்மில் 1 முதல் 4 வரை லக்கமிட்டவர்களின் முதலீட்டுக் கணக்குகளில் ஏற்கனவே வரவாக உள்ள தொகைகளை அவரவர் முதலீட்டுத் தொகையாக கருதிக்கொள்ள வேண்டியது. கூட்டாளிகள் விரும்பித் தீர்மானித்தால் மேற்படி முதலீட்டுத் தொகைகளை கூட்டியோ அல்லது குறைத்தோ வைத்துக் கொள்ளலாம். கூட்டின் அபிவிருத்தியை முன்னிட்டு நம் கூட்டாளிகள் யார் வேண்டுமானாலும் கடன் வாங்கி நிறுவனத்திற்கு கொடுக்கலாம். அவ்வித கடன்களை கூட்டாளிகளின் கடன் அல்லது நடப்பு கணக்குகளில் வரவு வைத்துக்கொள்ள வேண்டியது. மேற்படி முதலீடு மற்றும் கடன் அல்லது நடப்பு கணக்குகளிலும் கூட்டாளிகளின் இதர கணக்குகளிலும் பற்று நீக்கி வரவாக உள்ள தொகைகளுக்கு கூட்டாளிகள் வருடம் ஒன்றுக்கு அதிகபட்சமாக 12% வரை வட்டி போட்டு பொதுவில் செலவு எழுதிக்கொள்ள வேண்டியது. கூட்டாளிகள் விரும்பித் தீர்மானித்தால் மேற்படி வட்டி விகிதத்தை குறைத்து வட்டி போட்டு செலவு எழுதிக் கொள்ளலாம். அதேபோல் கூட்டாளிகள் விரும்பித் தீர்மானித்தால் கூட்டாளிகளின் கடன் மற்றும் நடப்பு கணக்குகளில் வரவாக இருக்கும் தொகைகளை கணக்கில் எடுத்துக்கொள்ளாமல் முதலீட்டுக் கணக்கில் மட்டும் வரவாக இருக்கும் தொகைக்கு அதிகபட்சமாக 12%

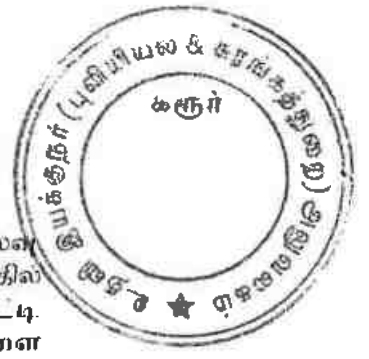
1

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2 P. Oleg...

4 R. ...

UK



.4.

வரையிலோ அல்லது குறைத்தோ வட்டி போட்டு செலவு எழுதிக் கொள்ளலாம். அதேபோல் வருமானவரி சட்டத்தில் கூட்டாளிகளின் முதலீட்டு கணக்கிற்கு உண்டான வட்டி விகிதத்தில் அவ்வப்போது கொண்டு வரப்படும் மாற்றங்களை அனுசரித்தும் மேற்படி வட்டி விகிதத்தை கூட்டியோ அல்லது குறைத்தோ போட்டு செலவு எழுதிக் கொள்ளலாம்.

6. இக்கூட்டு வியாபாரத்திற்காக நம்மில் 1 லக்கமிட்ட மா.ஏகாம்பரம், 2 லக்கமிட்ட பி.திலகவதி, 3 லக்கமிட்ட ஈ.கிருத்திகா, 4 லக்கமிட்ட ஆர்.நிமோஷ்ராஜ் ஆகிய 4 பேர்களும் உழைக்கும் கூட்டாளிகளாக இருந்துவர வேண்டியது. மேற்படி 4 பேர்களும் இக்கூட்டின் வியாபாரத்தையும் அன்றாட நிர்வாக காரியங்களையும் இக்கூட்டின் வளர்ச்சிக்காக நன்கு கவனித்து நடத்தி வரவேண்டியது. மேற்படி காரியங்களுக்காக மேற்படி உழைக்கும் கூட்டாளிகள் சம்பளம், போனஸ் முதலியவை போட்டு எடுத்துக் கொள்ள வேண்டியது. மேற்படி உழைக்கும் கூட்டாளிகள் 1, 2, 3, 4 லக்கமிட்டவர்களுக்கு தற்பொழுது மாத ஊதியமாக தலா ரூ.2,500/-ம் மேற்படி உழைக்கும் கூட்டாளிகள் ஒவ்வொருவருக்கும் குறைந்த பட்சம் இரண்டு மாத ஊதியம் போனஸாகவும் கொடுத்து பொதுவில் செலவு எழுதிக் கொள்ள வேண்டியது. மேலும் நம் அனைவரின் ஏகோபித்த சம்மதத்தின் பேரில் மேற்படி உழைக்கும் கூட்டாளிகளின் ஊதியம் மற்றும் போனஸை கூட்டியோ அல்லது குறைத்தோ எடுத்துக் கொள்ளலாம்.

7. இக்கூட்டு வியாபாரத்திற்காக நம்மில் 1 லக்கமிட்ட மா.ஏகாம்பரம், 2 லக்கமிட்ட பி.திலகவதி, 3 லக்கமிட்ட ஈ.கிருத்திகா, 4 லக்கமிட்ட ஆர்.நிமோஷ்ராஜ் ஆகிய 4 பேர்களும் மேனேஜிங் பார்ட்னர்களாக இருந்துவர வேண்டியது. மேற்படி 4 பேர்களும் இக்கூட்டு வியாபாரத்தின் சகலநிர்வாக காரியங்களையும் நன்கு கவனித்து நடத்தி வரவேண்டியது.

8. இக்கூட்டு வியாபாரத்திற்காக நம் கூட்டாளிகள் வெளிநபர்களிடம் கடன்கள் வாங்க நேரிட்டால் அப்படி வாங்கும் கடன் தொகைகளை இக்கூட்டு விலாசத்தின் பெயரிலேயே வாங்கி கூட்டின் கணக்குகளில் உடனுக்குடன் வரவு வைத்துக்கொள்ள வேண்டியது. புரோதோட்டுகளில் கையெழுத்திட்டு கடன்கள் வாங்க நம்மில் 1 லக்கமிட்ட

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மா.ஏகாம்பரம், 2 லக்கமிட்ட பி.திலகவதி, 3 லக்கமிட்ட
ஈ.கிருத்திகா, 4 லக்கமிட்ட ஆர்.நிமோஷராஜ் ஆகிய 4
பேர்களும் தனித்தனியே கையொழுத்து செய்து ஸாங்க
இதன்மூலம் பூரண அதிகாரம் வழங்கப்படுகிறது.

9. இக்கூட்டு வியாபாரத்தின் சார்பாக பேங்குகளில் கரண்ட் அக்கௌண்ட், ஓவர் டிராப்ட், கேஷ் கிரடிட், பில்ஸ் டிஸ்கவுண்ட் முதலிய கணக்குகள் வைக்கவும் செக்குகளில் கையெழுத்து செய்து அவற்றை ஆப்ரேட் செய்யவும் நம்மில் 1 லக்கமிட்ட மா.ஏகாம்பரம், 2 லக்கமிட்ட பி.திலகவதி, 3 லக்கமிட்ட ஈ.திருத்திகா, 4 லக்கமிட்ட ஆர்.நிமோஜ்ராஜ் ஆகிய 4 பேர்களும் தனித்தனியே கையெழுத்து செய்து வாங்க இதன்மூலம் பூரண அதிகாரம் வழங்கப்படுகிறது.

10. இந்த கூட்டு நிறுவனத்தின் பெயரில் இந்த கூட்டு நிறுவனத்தின் சார்பாக அசையும், அசையா சொத்துக்களை கிரையம் பெறவும், விற்பனை செய்யவும், அடமானம், போக்கியம், பிழைதிருத்தல், குத்தகை, வாடகை, பரிவர்த்தனை, ஆவண ஒப்படைப்பு (DEPOSIT OF TITLE DEEDS) போன்ற பத்திரங்களும் மற்றும் வேறு ஆவணங்கள் எழுதிக்கொடுக்கவும், எழுதிபெறவும் நம்மில் நம்மில் 1 லக்கமிட்ட மா.ஏகாம்பரம், 2 லக்கமிட்ட பி.திலகவதி, 3 லக்கமிட்ட ஈ.கிருத்திகா, 4 லக்கமிட்ட ஆர்.நிமோஜ்ஜராஜ் ஆகிய 4 பேர்களும் தனித்தனியே கையெழுத்து செய்து வாங்க இதன்மூலம் பூரண அதிகாரம் வழங்கப்படுகிறது.

11. இக்கூட்டு வியாபாரம் சம்பந்தமாக வெளிநபர்களுடன் தொடர்பு கொள்ளவும் தேவையான காண்டிராக்ட்களை ஏற்படுத்திக் கொள்ளவும் மற்றும் அரசு ஒப்பந்த பத்திரங்கள் ஆகியவைகளில் கையெழுத்து செய்யவும் நம்மில் 1 லக்கமிட்ட மா.ஏகாம்பரம், 2 லக்கமிட்ட பி.திலகவதி, 3 லக்கமிட்ட ஈ.கிருத்திகா, 4 லக்கமிட்ட ஆர்.நிமோஜ்ராஜ் ஆகிய 4 பேர்களும் தனித்தனியே கையெழுத்து செய்ய இதன்மூலம் பூரண அதிகாரம் வழங்கப்படுகிறது.

12. இக்கூட்டின் சார்பில் வரும் ரிஜிஸ்தர் தபால்கள், தந்தி, மணியார்டர்கள் லாரியில், ரயில்வே பாஸ்களில் கையெழுத்து செய்து வாங்கவும் மேலும் இக்கூட்டின் நிமித்தம் ஏதேனும் சிவில் கிரிமினல் வழக்குகள் ஏற்பட்டால்

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13 ~~A. KILL~~

2 P. Subramanian

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சம்பந்தப்பட்ட கோட்டாவில் இக்கூட்டின் சார்பாக தாயாகவோ அல்லது வகைக்களை நியமித்து அளவின் ஐயமாகவோ ஒழிப்பதில் அவ்வித வழக்குகளை நடத்தவும் அரசு செய்து கொள்ளவும், பைசல் செய்து கொள்ளவும் மற்றும் மத்திய மாதில் அரசு அலுவலகங்களில் இக்கூட்டின் சார்பாக காரியங்களை கவனிக்கவும் இக்கூட்டு வியாபாரம் சம்பந்தப்பட்ட மற்ற சகலநிவாக காரியங்களையும் கவனித்து நடத்தவும் நம்மிட 1 லக்கமிட்ட மாகையார்பார், 2 லக்கமிட்ட பித்தலகவதி, 3 லக்கமிட்ட சுகிருத்திகா, 4 லக்கமிட்ட ஆத்தியோய்யாஜ் ஆகிய 4 பேர்களும் தனித்தனியே கையெழுத்து செய்து வாங்க இதன்மூலம் புரண அதிகாரம் வழங்கப்படுகிறது.

13. இக்கூட்டு வியாபாரமானது நம் கூட்டாளிகள் அனைவரும் விரும்பும் காலம் வரையில் அதாவது பாட்டனாஸிப் அடவிலலாக தொடர்ந்து நடந்து வரத்தக்கது.

14. இனி இக்கூட்டின் கணக்குகளை பிரதிவருடம் மார்க் மாதக் கடைசியிலோ அல்லது கூட்டாளிகள் அனைவரும் விரும்பித் தீர்மானிக்கும் இது காலங்களிலோ இக்கூட்டின் கணக்கை கட்டி கூட்டு வியாபாரம் சம்பந்தப்பட்ட சகல செலவுகளும் மேலும் கூட்டாளிகள் விரும்பித் தீர்மானித்து பொதுவில் எழுதக்கூடிய உழைக்கும் கூட்டாளிகளின் சம்பளம், போனஸ் மற்றும் கூட்டாளிகளின் முதலீட்டு கடன் கணக்குகளுக்கும் டான் வட்டி போன்ற சகலசெலவுகளும் போக பாக்கி ஏற்படும் லாபலோபத்தை நம் கூட்டாளிகள் 4 பேர்களும் சமமாக பிரித்துக்கொள்ள வேண்டியது.

15. நம்மிட யார் வேண்டுமானாலும் தனியாகவோ அல்லது வேறு நபர்களுடன் கூட்டு சேர்ந்தோ வேறு எந்த வியாபாரம் வேண்டுமானாலும் செய்து வரலாம். ஆனால் அப்படி அவர்கள் செய்து வரும் வியாபாரத்திற்கும் அவற்றில் ஏற்படும் லாபலோபத்திற்கும் இக்கூட்டு வியாபாரத்திற்கும் யாதொருவிதமான சம்பந்தமும் பாத்தியமும் பின் தொடர்ச்சியும் கிடையாது.

16. நம்மிட யாரேனும் இக்கூட்டிலிருந்து விலக விரும்பினால் அவர் மற்ற கூட்டாளிகளுக்கு ஒரு மாத நவணை கண்டு எழுத்து மூலம் ஒரு நோட்டீஸ் கொடுக்க வேண்டியது. பின் அந்த தேதிவரையில் இக்கூட்டின் கணக்கை கட்டியோ அல்லது உத்தேசமாக லாபலோபத்தை தீர்ணயம் செய்தோ விலகும் அல்லது விலக்கப்படும்.

UK

3 E. S. S. S.

2 J. S. S. S.

A. R. S. S.

UK



கூட்டாளிக்கு அவர் கணக்குப்படி சேரவேண்டிய தொகையை கொடுத்துவிட்டோ அல்லது கொடுக்கத் தகுந்த ஏற்பாடுகளைச் செய்துவிட்டோ மற்ற கூட்டாளிகள் தாமதவோ அல்லவோ வேறு நபர்களை சேர்த்துக்கொண்டோ இக்கூட்டு வியாபாரத்தை மேற்படி இடத்தில் மேற்படி பெயரிலேயே தொடர்ந்து நடத்தி வரவேண்டியது.

17. நம்மில் யாரேனும் இக்கூட்டிலிருந்து விலகினாலும் அல்லது விலக்கப்பட்டாலும் அல்லது யாரேனும் காலமாகி விட்டாலும் இக்கூட்டு கலைந்ததாக கருதப்பட மாட்டாது.

18. விலகும் அல்லது விலக்கப்படும் கூட்டாளிக்கு இக்கூட்டு வியாபாரத்தின் குட்வில், தளவாட சாமான்கள், நிலம், கட்டிட வகையறாக்கள், கிரசர் நிலங்கள் அசையும், அசையா சொத்துக்கள் மற்றுமுள்ள சகலவிதமான ஆஸ்திப்பொறுப்புகளில் யாதொருவிதமான சம்பந்தமும் பாத்தியமும் பின்தொடர்ச்சியும் கிடையாது. அவர் தன் முதலீடு மற்றும் இதர கணக்கில் வரவாக உள்ள தொகையை மட்டும் பெற்றுக்கொண்டு விலகிக் கொள்ள வேண்டியது.

19. நம்மில் யாரேனும் இக்கூட்டின் வளர்ச்சிக்குத் தடையாகவோ அல்லது இக்கூட்டிற்கு விரோதமாகவோ நடந்து கொண்டால் மற்ற மெஜாரிட்டி கூட்டாளிகள் விரும்பினால் மேற்படி கூட்டாளியை இக்கூட்டிலிருந்து விலக்கிவிடலாம்.

20. இக்கூட்டு வியாபார உடன்படிக்கைப் பத்திரத்தின் ஷரத்துக்களை தேவைப்பட்டால் திருத்தி அமைக்கவோ அல்லது மாற்றி அமைக்கவோ செய்யலாம். அதற்கு ஒரு பத்திரம் எழுதிக்கொண்டு அதனை இதன் துணைப்பத்திரமாக (CODICIL) பாவித்து அதன்படி நடந்து கொள்ளவேண்டியது.

21. நம் கூட்டாளிகள் அனைவரும் இதில் கண்டிராத மற்ற விஷயங்களைப் பொறுத்தமட்டில் நாம் 1932ம் ஆண்டின் "இந்தியன் பார்டனர்ஸிப் ஆக்ட்" ஐ அனுசரித்து நடந்து கொள்ளவேண்டியது.

இப்படிக்கு நம் கூட்டாளிகள் 4 பேர்களும் சேர்ந்து எழுதிக்கொண்ட கூட்டு வியாபார உடன்படிக்கைப் பத்திரம்.

1.

3.

2.

4.

சாட்சிகள்

1.

A. Panneerselvam S/o R. Ramasamy
86/92 East St. Vengal
P. Velupillai Prabhakaran

2.

R. Ramasamy S/o R. Ramasamy, No 182 P13,
Valluvu, Puthur, Paramathi velu Namakkal Dt.



Government of India

Form GST REG-06

[See Rule 10(1)]

Registration Certificate

Registration Number : 33AATFM1657Q1ZI



1.	Legal Name	MAHAGANAPATHI BLUE METAL			
2.	Trade Name, if any	MAHAGANAPATHI BLUE METAL			
3.	Additional trade names, if any				
4.	Constitution of Business	Partnership			
5.	Address of Principal Place of Business	Building No./Flat No.: 510/1 Road/Street: KUPPAM VILLAGE, KUPPAM POST, ARAVAKURICHI TK City/Town/Village: KARUR District: Karur State: Tamil Nadu PIN Code: 639111			
6.	Date of Liability	01/07/2017			
7.	Date of Validity	From	01/07/2017	To	Not Applicable
8.	Type of Registration	Regular			
9.	Particulars of Approving				

Signature

Signature valid

Digitally signed by GST REG-06
AND SERVICES TAX
NETWORK
Date: 2025.02.20 00:46:09 IST

Name

Designation

Jurisdictional Office

Date of issue of Certificate

20/02/2025

Note: The registration certificate is required to be prominently displayed at all places of Business/Office(s) in the State.

This is a system generated digitally signed Registration Certificate issued based on the deemed approval of application on 20/02/2025 .

Handwritten signature



सत्यमेव जयते



Goods and Services Tax Identification Number: 33AATFM1657Q12I

Details of Additional Place of Business(s)

Legal Name MAHAGANAPATHI BLUE METAL
Trade Name, if any MAHAGANAPATHI BLUE METAL
Additional trade names, if any

Total Number of Additional Places of Business(s) in the State 0

14



Goods and Services Tax Identification Number: 33AATFM1657Q1ZI

Legal Name MAHAGANAPATHI BLUE METAL

Trade Name, if any MAHAGANAPATHI BLUE METAL

Additional trade names, if any

Details of Managing / Authorized Partners

1		Name	MARAPPAN EKAMBARAM
		Designation/Status	Partner
		Resident of State	Tamil Nadu
2		Name	PALANISAMY THILAGAVATHI
		Designation/Status	Partner
		Resident of State	Tamil Nadu
3		Name	NIMOSHRAJ RAJASEKAR
		Designation/Status	Partner
		Resident of State	Tamil Nadu
4		Name	EKAMBARAM KIRUTHIKA
		Designation/Status	Partner
		Resident of State	Tamil Nadu

Handwritten signature

**FORM A***(See rule 5)***REGISTER OF FIRMS****(Maintained under Section 59 of the Indian Partnership Act, 1932)**

1. Serial number of Firm : **FR/Karur/506/2011**
2. Name of Firm : **MAHAGANAPATHI BLUE METAL**
3. Date of Registration : **07-Oct-2011**
4. Duration of the Firm : **At Will**
5. Address

Address	Date of change	Remarks
SF.NO.510/1, ARASAMPALAYAM, KUPPAM POST, KARUR TALUK& DIST, KARUR, Karur, Karur, Tamil Nadu, India, 639002		

6. Partners

Name of the Partners	Address	Date of Joining	Date of Ceasing	Remarks
P.MALLIKA	10/2 VALLUVAR NAGAR 2ND STREET, VELAYUTHAMPALAYAM POST, KARUR, Tamil Nadu, India	26-Aug-2011	31-Oct-2024	
C.PERIYASAMY	10/2 VALLUVAR NAGAR 2ND STREET VELAYUTHAMPALAYAM, KARUR, Tamil Nadu, India	26-Aug-2011	31-Oct-2024	
S.RATHIDEVI	KANTHAMPALAYAM, VELAYUTHAMPALAYAM POST,KARUR, Tamil Nadu, India	26-Aug-2011	31-Oct-2024	
P.SENTHILKUMAR	MANICKANAGAR,VELAYUTHAMPALAYAM POST,KARUR, Tamil Nadu, India	26-Aug-2011	31-Oct-2024	
P THILAGAVATHI	2/551,EZHIL NAGAR, ANDANKOIL (EAST), Manmangalam, Karur, Tamil Nadu, India, 639001	02-Oct-2024		
E KIRUTHIKA	2/551,EZHIL NAGAR, ANDANKOIL (EAST), Manmangalam, Karur, Tamil Nadu, India, 639001	02-Oct-2024		
M EKAMBARAM	2/551,EZHIL NAGAR,, ANDANKOIL (EAST), Manmangalam, Karur, Tamil Nadu, India, 639001	02-Oct-2024		
R NIMOSHRAJ	NO.4/1,THIRUNAGAR 1ST STREET,SENGUNTHAPURAM, KARUR, Karur, Karur, Tamil Nadu, India, 639002	02-Oct-2024		

7. Alteration in Partners : -

8. Principal places of business and changes therein :

Address	Date of change	Remarks
SF.NO.510/1, ARASAMPALAYAM, KUPPAM POST, KARUR TALUK& DIST, KARUR, Karur, Karur, Tamil Nadu, India, 639002		

9. Change in Firm Name : -

10. Other place of business : -

11. Change in Branch Details : -

Name of Firm : MAHAGANAPATHI BLUE METAL

12. Application Request List

Sr. No	Description of Document	Date of Filing	Signature of Registrar or Authorised Officer
1	Annual Filing (Period: 2018-2019)	12-Feb-2020	Digitally signed by : chinnaraj venkatachalam
2	Annual Filing (Period: 2019-2020)	23-Jun-2020	Digitally signed by : chinnaraj venkatachalam
3	Annual Filing (Period: 2020-2021)	11-Aug-2021	Digitally signed by : baskaran joseph
4	Annual Filing (Period: 2021-2022)	01-Jul-2022	Digitally signed by : Kumar R
5	Annual Filing (Period: 2023-2024)	10-Jul-2024	Digitally signed by : Kumar R
6	Change In Constitution Of Firm	29-Jan-2025	Digitally signed by : Kumar R
7	Change In Constitution Of Firm	05-Feb-2025	Digitally signed by : Kumar R

Username : FRG_20032_506_2011



10/2
Registrar of Firms,
KARUR.

139



भारत सरकार



आधार

இந்திய அரசாங்கம்
Government of India

இந்திய தனிப்பட்ட அடையாள ஆணைய அமைப்பு
Unique Identification Authority of India

பதிவேட்டு எண்/ Enrolment No.: 2007/20016/06315

To
ஏகாம்பரம் மா
Ekambaram M
S/O Marappagounder,
EZHIL NAGAR REDDI PALAYAM,
ANDAN KOVIL EAST,
VTC: Andankoil East,
PO: Andankoil,
District: Karur,
State: Tamil Nadu,
PIN Code: 639002,
Mobile: 9442237163

Signature valid



உங்கள் ஆதார் எண் / Your Aadhaar No. :

6497 5817 6158

VID : 9117 5306 6567 4403

எனது ஆதார், எனது அடையாளம்



Aadhaar no. Issued: 28/08/2013



ஏகாம்பரம் மா
Ekambaram M
பிறந்த நாள்/DOB: 11/08/1963
ஆண்/ MALE

ஆதார் என்பது அடையாளத்திற்கான கால்களும் குடியரிமை, அவற்று பிறந்த தேதிக்கான சான்றும் இது சரிபாட்டின் மட்டுமே பயன்படுத்தப்பட வேண்டும் ஆணைகள் அங்கீகாரம் அல்லது ஓர் குறிப்பிட்ட எடுக்கல் செய்தல் ஆகியவைகள்
Aadhaar is proof of identity, not of citizenship or date of birth. It should be used with verification (online authentication, or scanning of QR code / offline XML)

6497 5817 6158

எனது ஆதார், எனது அடையாளம்



Government of India



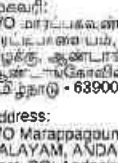
AADHAAR

தகவல் / INFORMATION

- ஆதார் என்பது அடையாளத்திற்கான கால்களும் குடியரிமை அல்லது பிறந்த தேதிக்கான சான்றும் இது சரிபாட்டின் மட்டுமே பயன்படுத்தப்பட வேண்டும் ஆணைகள் அங்கீகாரம் அல்லது ஓர் குறிப்பிட்ட எடுக்கல் செய்தல் ஆகியவைகள்
- இந்த ஆதார் கடிதத்தை பரவலாகியிருந்த அங்கீகார நிறுவனத்தால் ஆணைகள் அங்கீகாரம் அல்லது ஆப் எஸ்கோவில் கிடைக்கும் ம் ஆதார் அல்லது ஆதார் ஓர் எஸ்கோவில் செயலியை பயன்படுத்தி ஓர் குறியீடு எஸ்கோவில் அல்லது www.uidai.gov.in ல் கிடைக்கும் பாதுகாப்பான ஓர் குறியீடு ரீட்டர் செயலியை பயன்படுத்தி சரிபார்க்க வேண்டும்
- ஆதார் தனித்துவமானது மற்றும் பாதுகாப்பானது
- ஆதார் பதிவு செய்யப்பட்ட நாளிலிருந்து ஒவ்வொரு 10 வருடங்களுக்குப் பிறகும் ஆதாரில் அடையாளம் மற்றும் முகவரிக்கான ஆணைகள் புதுப்பிக்கப்பட வேண்டும்
- பல்வேறு அரசு மற்றும் அரசு சாரா பலன்கள் / சேவைகளைப் பெற ஆதார் உங்களுக்கு உதவுகிறது
- உங்கள் மொபைல் எண் மற்றும் மின்னஞ்சல் ஐடியை ஆதாரில் புதுப்பிக்கவும்.
- ஆதார் சேவைகளைப் பெற mAadhaar செயலியை பதிவிறக்கவும்
- ஆதார்பயோமெட்ரிக்ஸ் பயன்படுத்தாதபோது பாதுகாப்பை உறுதிசெய்ய ஆதார்பயோமெட்ரிக்ஸ் லாக் அளவாக அமர்த்தப்பட பயன்படுத்தவும்
- ஆதார் கோரும் நிறுவனங்கள் ஒப்புதலைப் பெற வேண்டிய கட்டாயம் உள்ளது.
- Aadhaar is proof of identity, not of citizenship or date of birth (DOB). DOB is based on information supported by proof of DOB document specified in regulations, submitted by Aadhaar number holder.
- This Aadhaar letter should be verified through either online authentication by UIDAI-appointed authentication agency or QR code scanning using mAadhaar or Aadhaar QR Scanner app available in app stores or using secure QR code reader app available on www.uidai.gov.in.
- Aadhaar is unique and secure.
- Documents to support identity and address should be updated in Aadhaar after every 10 years from date of enrolment for Aadhaar.
- Aadhaar helps you avail of various Government and Non-Government benefits/services.
- Keep your mobile number and email id updated in Aadhaar.
- Download mAadhaar app to avail of Aadhaar services.
- Use the feature of Lock/Unlock Aadhaar/biometrics to ensure security when not using Aadhaar/biometrics.
- Entities seeking Aadhaar are obligated to seek consent.

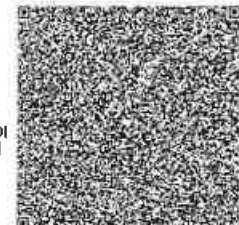


Aadhaar no. Issued: 28/08/2013



ஏகாம்பரம் மா
Ekambaram M
பிறந்த நாள்/DOB: 11/08/1963
ஆண்/ MALE

Address:
S/O Marappagounder, EZHIL NAGAR REDDI
PALAYAM, ANDAN KOVIL EAST,
VTC: Andankoil, DIST: Karur,
Tamil Nadu - 639002



6497 5817 6158

VID : 9117 5306 6567 4403

1047 | help@uidai.gov.in | www.uidai.gov.in

ANNEXURE

CHETTINAD CEMENT CORPORATION LTD.

(Regd. Office: RANI SEETHAI HALL BUILDING IV & V FLOORS, 603, ANNA SALAI, MADRAS-600009.)
WORKS OFFICE: PULIYUR.21144
PHONE 22744 KARUR
TELE: 21745
GRAM "CEMENT" Puliyur C.F.
Telex: 0456-215.
STD Code: 04324All Correspondences to
Kumarakrishnan Muthiah Nagar
PULIYUR CEMENT FACTORY POST-600114
(Karur Taluk Tiruchirappalli Dist.)T. RAJU., B.E.,
MINES MANAGER & DY. GENERAL MANAGER.22nd September, 1987.CERTIFICATE.

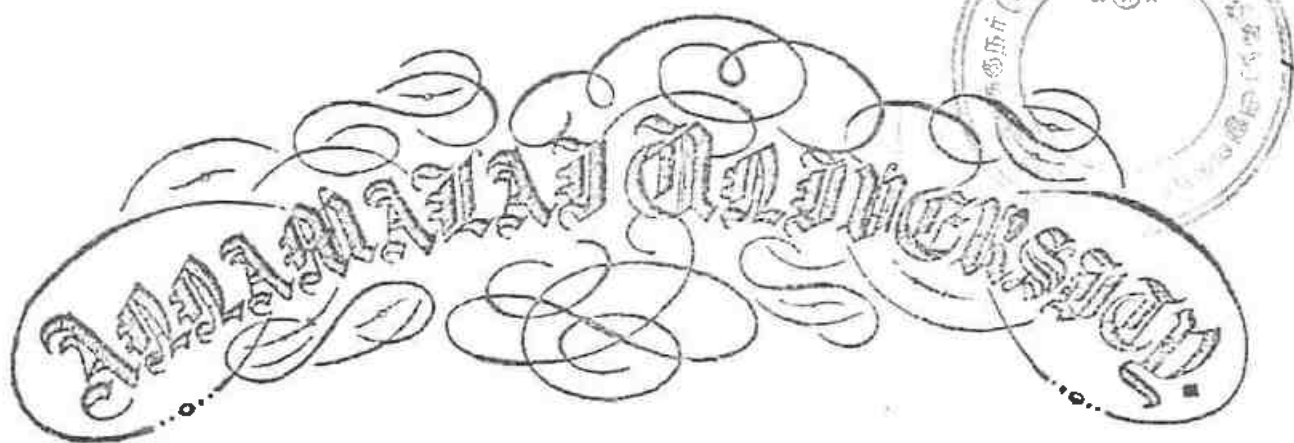
This is to certify that Mr. C. Matarajan has been working as a Geologist from 14-12-1979 to till date. He has been incharge of supervision of day to day functions in respect of Exploration, Preparation of Geological Plans & Sections, Preparation of Mines Plans, and Quality control and other allied mining activities in the following Pits of our Seethainagar Limestone Mines in Anna District.

<u>Name of the Pit.</u>	<u>Average Raising/day.</u>
1. Alambadi Pit.	- 1,700 T.
2. Mallapuram Pit.	- 900 T.
3. Karikkali Pit.	- 150 T.
Total.	- 2,750 T.

He has got nearly Eight years of total experience in our Mines in the above supervisory capacity.

for CHETTINAD CEMENT CORPORATION LTD.,


(T. RAJU).
Mines Manager & Dy. General Manager.



Faculty of Science

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

Given under the seal of the University.

Annamalainagar.

8th December, 1976.

UX

X. Chandrasekhar
Vice-Chancellor.

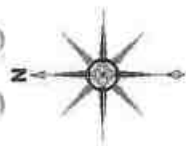


PLATE NO-1

DATE OF SURVEY : 12.04.2025

APPLICANT:

TVL MAHAGANAPATHI BLUE METAL,
SURVEY NO 510/1,
ARASAMPALAYAM, KUPPAM POST,
PUGALUR TALUK,
KARUR DISTRICT.

QUARRY APPLIED LEASE AREA:

S.F.NO's : 511/1, 511/2 & 512/2,
EXTENT : 3.45.53 Ha,
VILLAGE : KUPPAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

Q. L. APPLIED AREA : ●

TOPO SHEET NO : 58 F / 13

LATITUDE : 11°00'21.62"N to 11°00'27.71"N

LONGITUDE: 77°56'37.99"E to 77°56'45.37"E

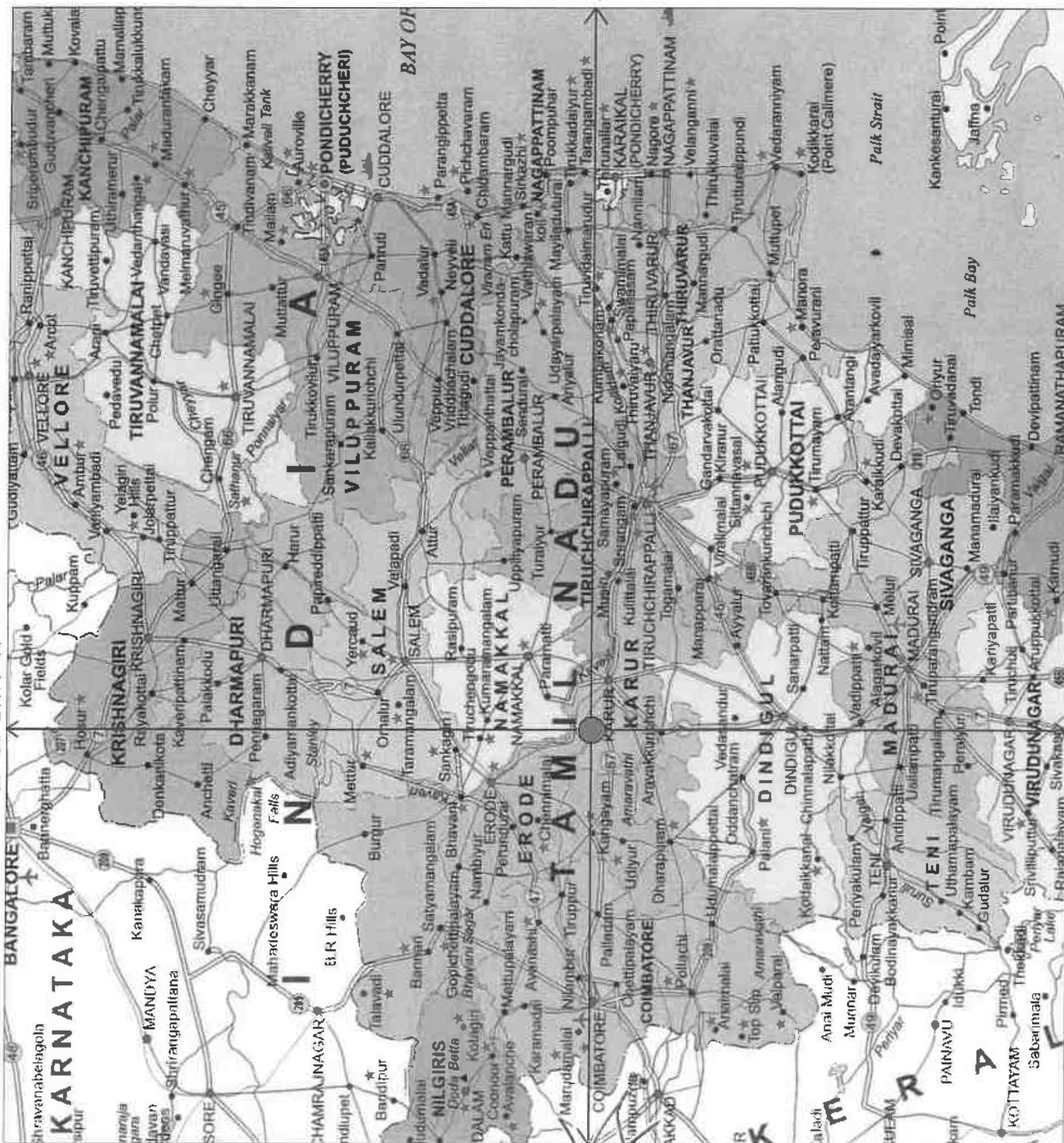
LOCATION PLAN

NOT TO SCALE

PREPARED BY:

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

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



77° 56' 45.37" E

77° 56' 37.99" E

11° 00' 21.62" N

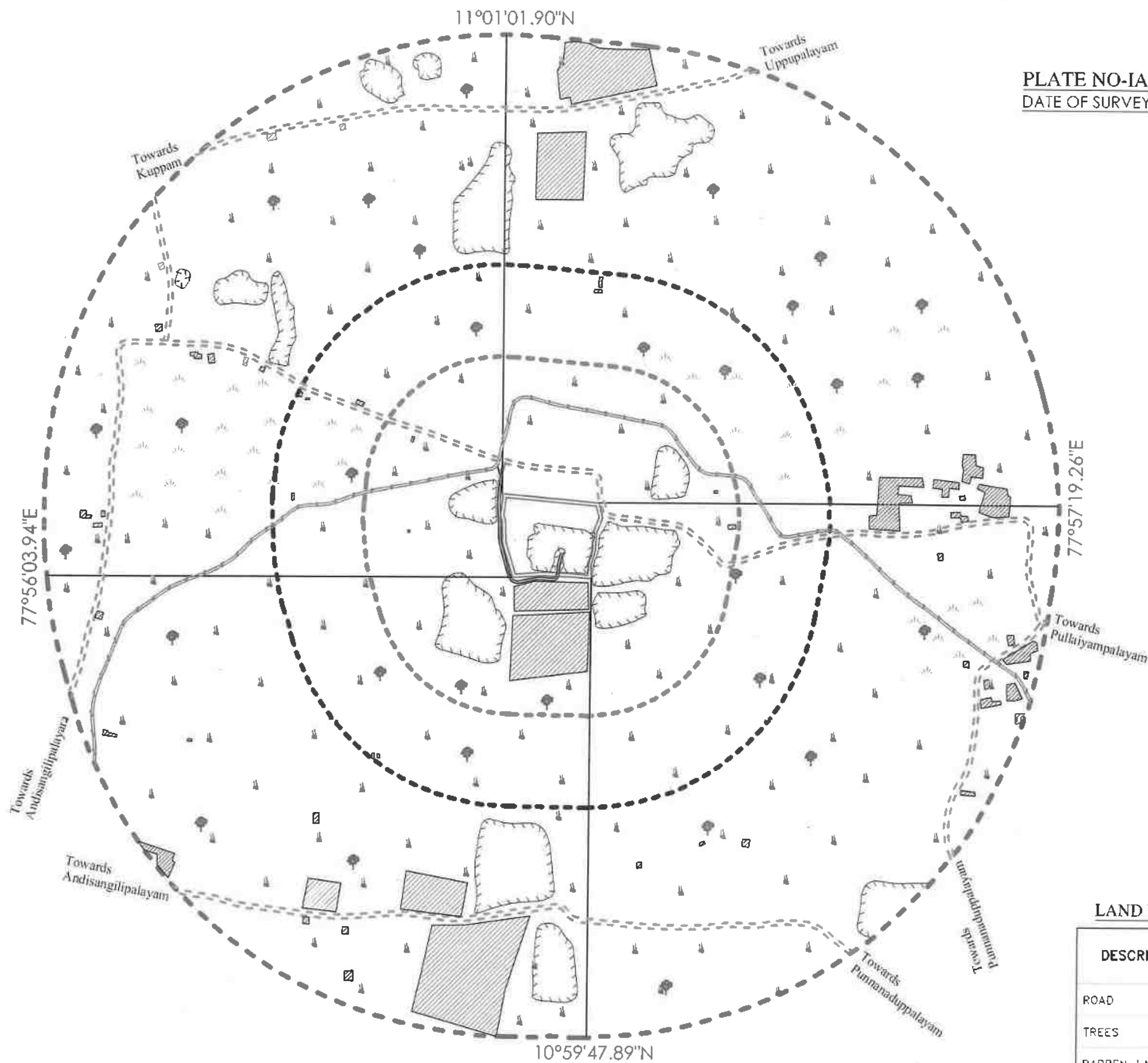


PLATE NO-IA
DATE OF SURVEY : 12.04.2025

APPLICANT:
TVL MAHAGANAPATHI BLUE
SURVEY NO.510/1,
ARASAMPALAYAM, KUPPAM POST,
PUGALUR TALUK,
KARUR DISTRICT.

QUARRY APPLIED LEASE AREA:
S.F.NO's : 511/1, 511/2 & 512/2,
EXTENT : 3.45.53 Ha,
VILLAGE : KUPPAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

TOPO SHEET NO : 58 F / 13

LATITUDE : 11°00'21.62"N to 11°00'27.71"N

LONGITUDE : 77°56'37.99"E to 77°56'45.37"E

Q.L.APPLIED AREA	
7.5m & 10m SAFETY	
300M RADIUS	
500M RADIUS	
1KM RADIUS	
APPROACH ROAD	
VILLAGE ROAD	
BARREN LAND	
TREES	
SEASONAL AGRICULTURE	
NOYYAL CANAL	
QUARRY PIT	
HABITATIONS	
CRUSHER	
FACTORY	

LAND USE PATTERN

DESCRIPTION	AREA IN (%)
ROAD	05
TREES	13
BARREN LAND	53
WATER BODIES	02
HABITATIONS	12
AGRICULTURE	15

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

C. N. ARUN, M.Sc., M.Phil.,
QUALIFIED PERSON

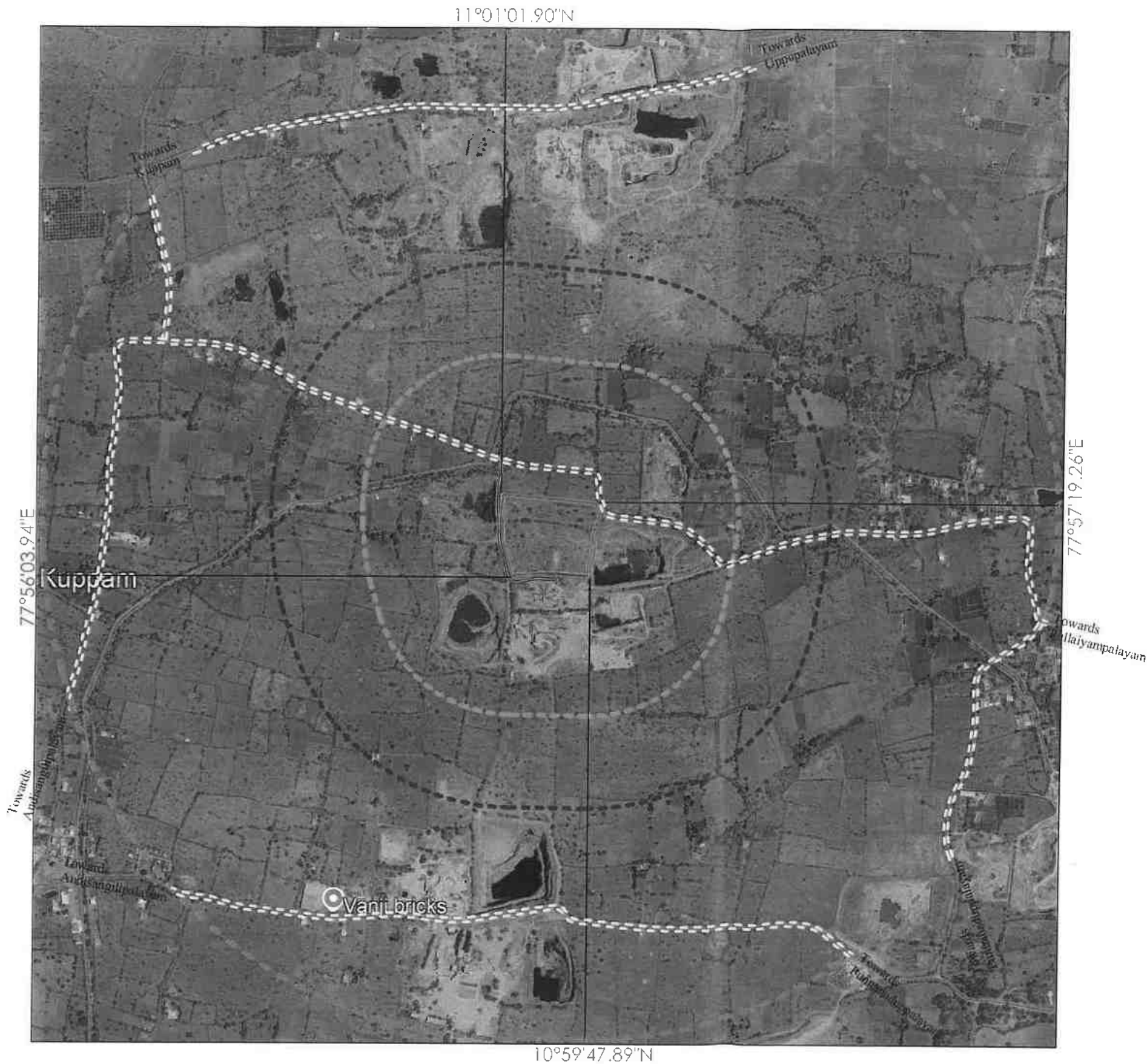
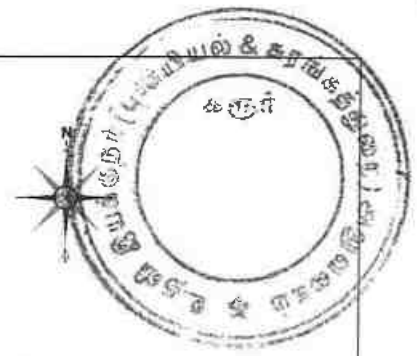


PLATE NO-IB

DATE OF SURVEY : 12.04.2025

APPLICANT:

TVL MAHAGANAPATHI BLUE METAL,
SURVEY NO 510/1,
ARASAMPALAYAM, KUPPAM POST,
PUGALUR TALUK,
KARUR DISTRICT.

QUARRY APPLIED LEASE AREA:

S.F.NO's : 511/1, 511/2 & 512/2,
EXTENT : 3.45.53 Ha,
VILLAGE : KUPPAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

TOPO SHEET NO : 58 F / 13

LATITUDE : 11°00'21.62"N to 11°00'27.71"N

LONGITUDE : 77°56'37.99"E to 77°56'45.37"E

Q.L.APPLIED AREA



7.5m & 10m SAFETY



300M RADIUS



500M RADIUS



1KM RADIUS



APPROACH ROAD



VILLAGE ROAD



SATELLITE IMAGERY MAP

SCALE 1: 10,000

PREPARED BY :

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THE BEST OF MY KNOWLEDGE BASED UPON
THE LEASE MAP AUTHENTICATED BY STATE
GOVERNMENT

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

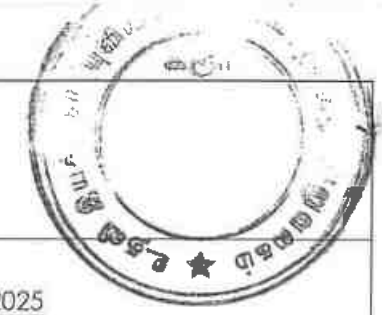
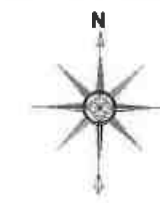
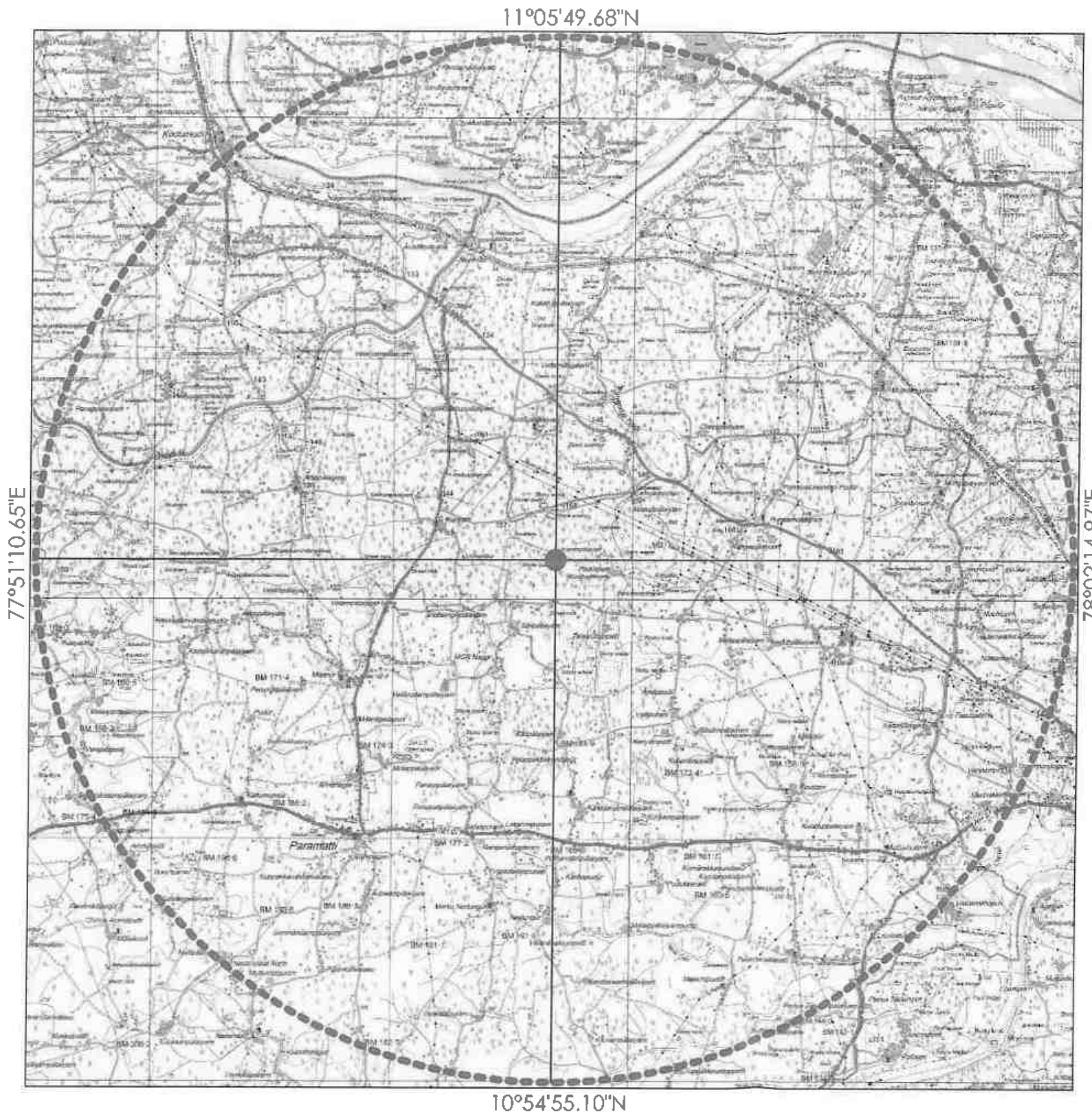


PLATE NO-IC
DATE OF SURVEY : 12.04.2025

APPLICANT:
 TVL.MAHAGANAPATHI BLUE METAL,
 SURVEY NO 510/1,
 ARASAMPALAYAM, KUPPAM POST,
 PUGALUR TALUK,
 KARUR DISTRICT.

QUARRY APPLIED LEASE AREA:
 S.F.NO's : 511/1, 511/2 & 512/2,
 EXTENT : 3.45.53 Ha,
 VILLAGE : KUPPAM,
 TALUK : PUGALUR,
 DISTRICT : KARUR.

INDEX

TOPO SHEET NO : 58 F / 13

LATITUDE : 11°00'21.62"N to 11°00'27.71"N

LONGITUDE : 77°56'37.99"E to 77°56'45.37"E

Q.L.APPLIED AREA

10KM RADIUS

CONVENTIONAL SYMBOLS	
Contour lines showing elevation	...
Water bodies (rivers, lakes, ponds)	...
Boundaries (village, taluk, district)	...
Settlements (villages, towns)	...
Transportation (roads, railways)	...
Topographic features (hills, mountains)	...
Infrastructure (bridges, dams)	...
Vegetation (forests, scrubland)	...
Other symbols (wells, temples)	...

TOPO SKETCH OF QUARRY LEASE

APPLIED AREA FOR

10Km RADIUS

SCALE- 1:100000

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 IN THIS PLATE IS TRUE AND CORRECT TO
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 THE LEASE MAP AUTHENTICATED BY STATE
 GOVERNMENT

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

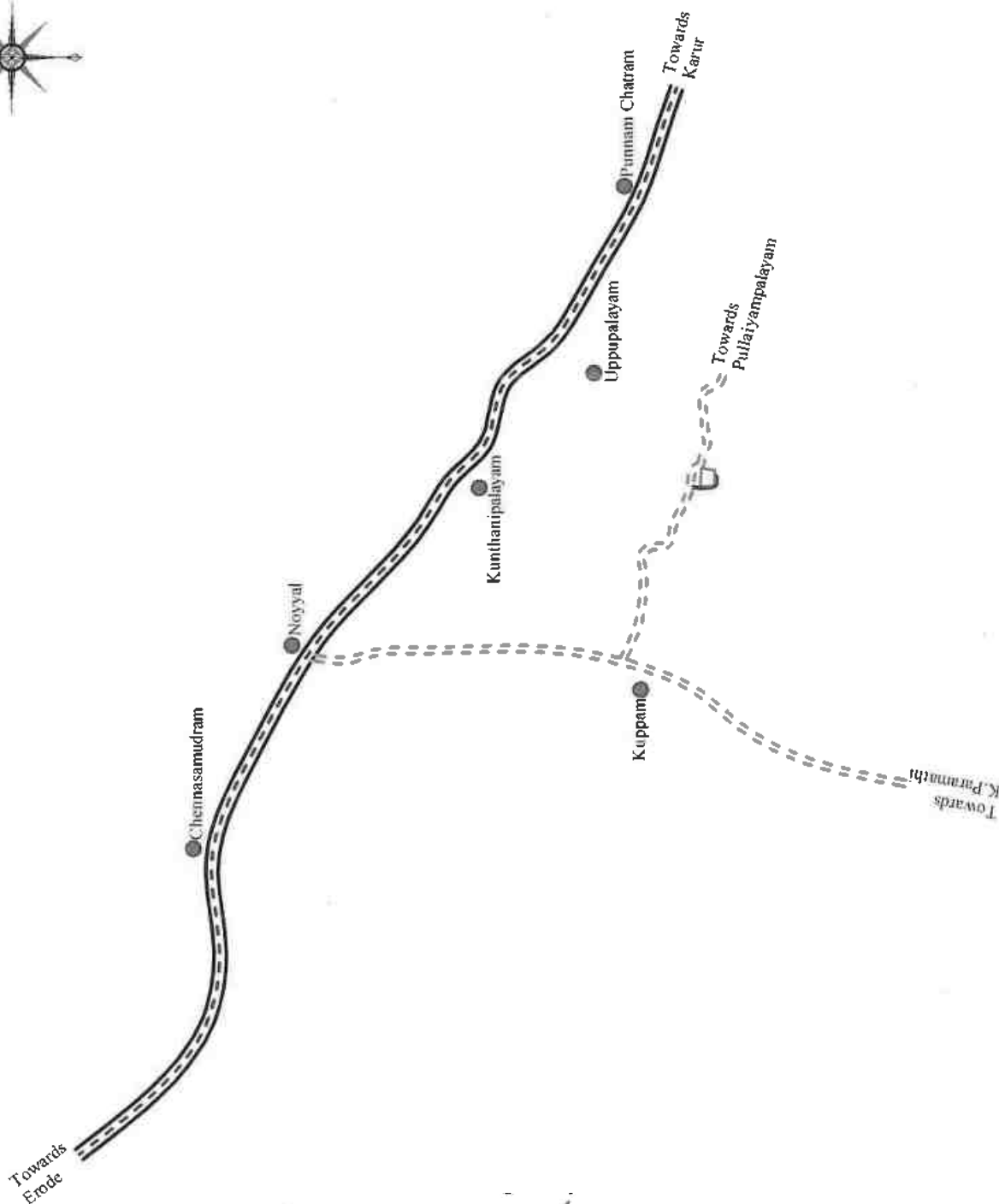
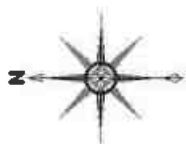


PLATE NO-ID

DATE OF SURVEY : 12.04.2025

APPLICANT:

TVL MAHAGANAPATHI BLUE METAL
SURVEY NO.510/1,
ARASAMPALAYAM, KUPPAM POST,
PUGALUR TALUK,
KARUR DISTRICT.

QUARRY APPLIED LEASE AREA:

S.F.NO's : 511/1, 511/2 & 512/2.
EXTENT : 3.45.53 Ha,
VILLAGE : KUPPAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

Q.L.APPLIED AREA

APPROACH ROAD

VILLAGE ROAD

STATE HIGHWAY

HABITATIONS

Not to scale

PREPARED BY:

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

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



PLATE NO-II

DATE OF SURVEY : 12.04.2025

APPLICANT:

TVL.MAHAGANAPATHI BLUE METAL,
SURVEY NO.510/1,
ARASAMPALAYAM, KUPPAM POST,
PUGALUR TALUK,
KARUR DISTRICT.

QUARRY APPLIED LEASE AREA:

S.F.NO's : 511/1, 511/2 & 512/2,
EXTENT : 3.45.53 Ha,
VILLAGE : KUPPAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

Q.L. APPLIED BOUNDARY	
7.5m & 10m SAFETY DISTANCE	
TEMPORARY BENCH MARK	
APPROACH ROAD	
QUARRY ROAD	
CONTOUR	
SCRUB	
QUARRY PIT	

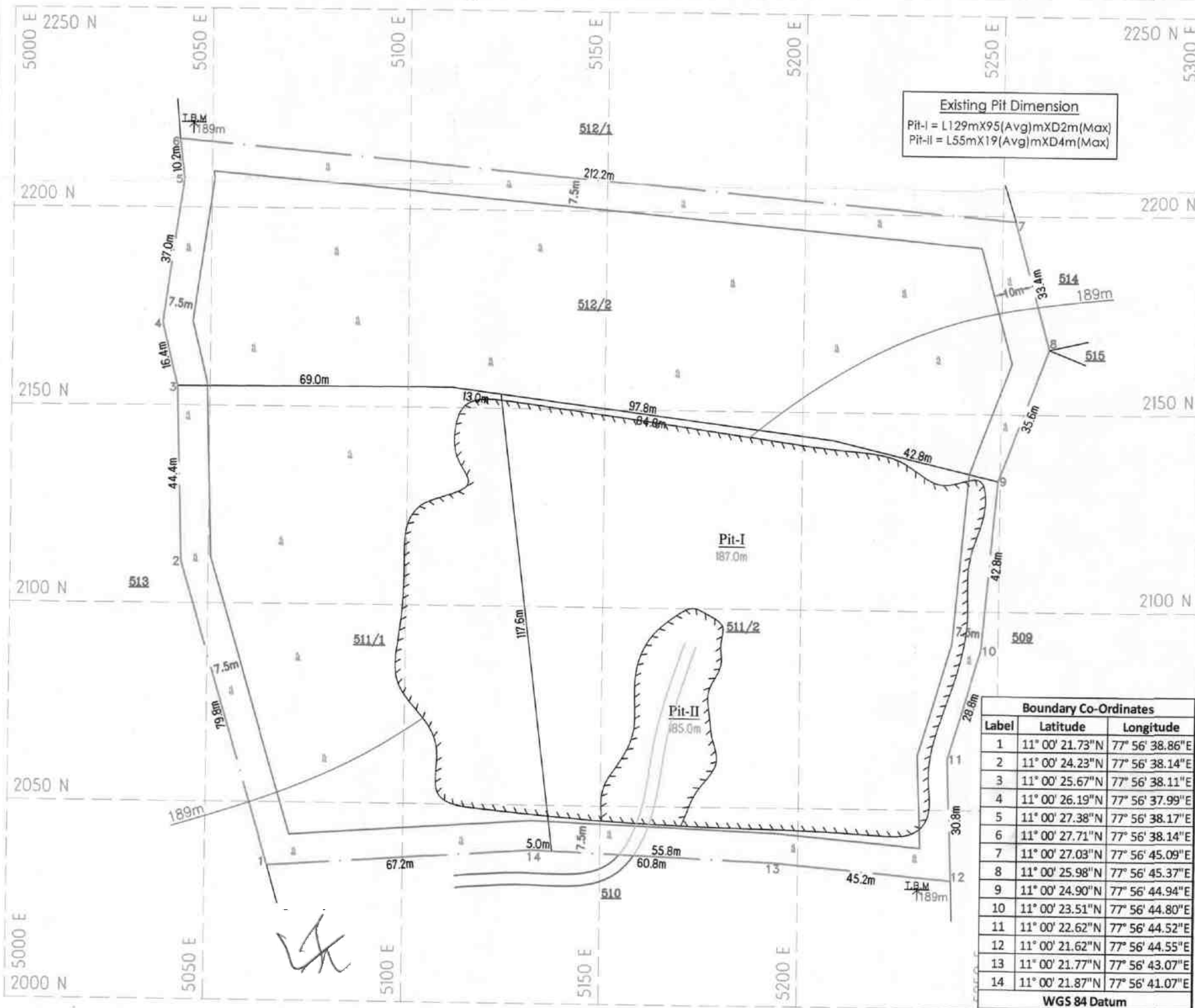
QUARRY LEASE & SURFACE PLAN

SCALE 1 : 1000

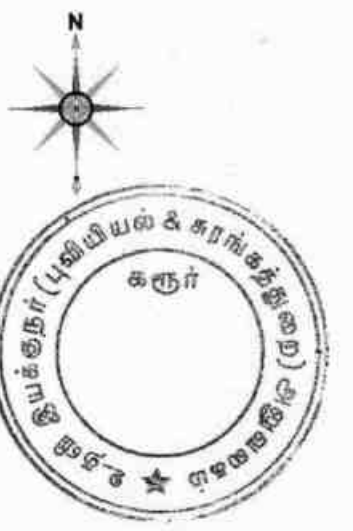
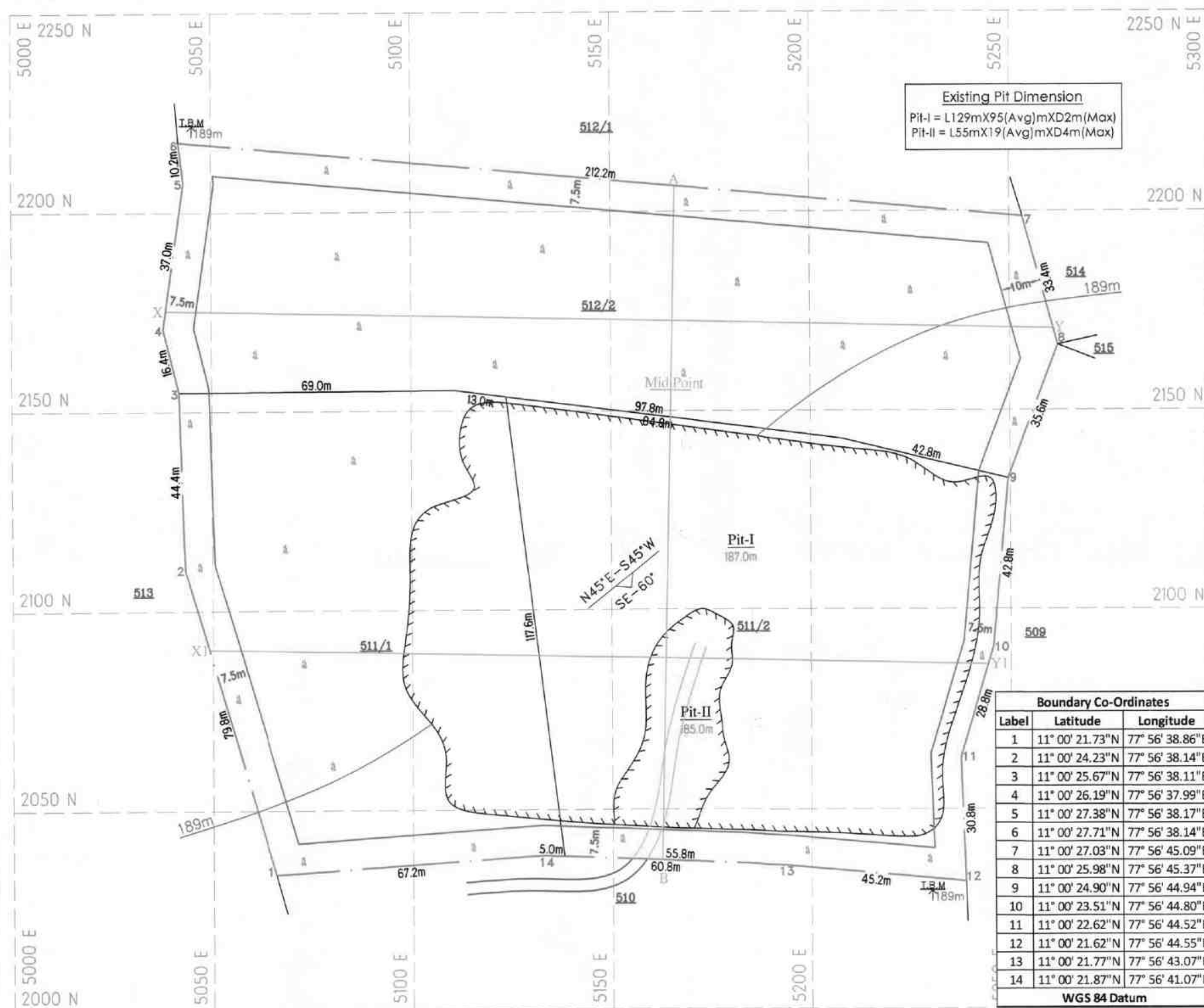
PREPARED BY:

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GOVERNMENT

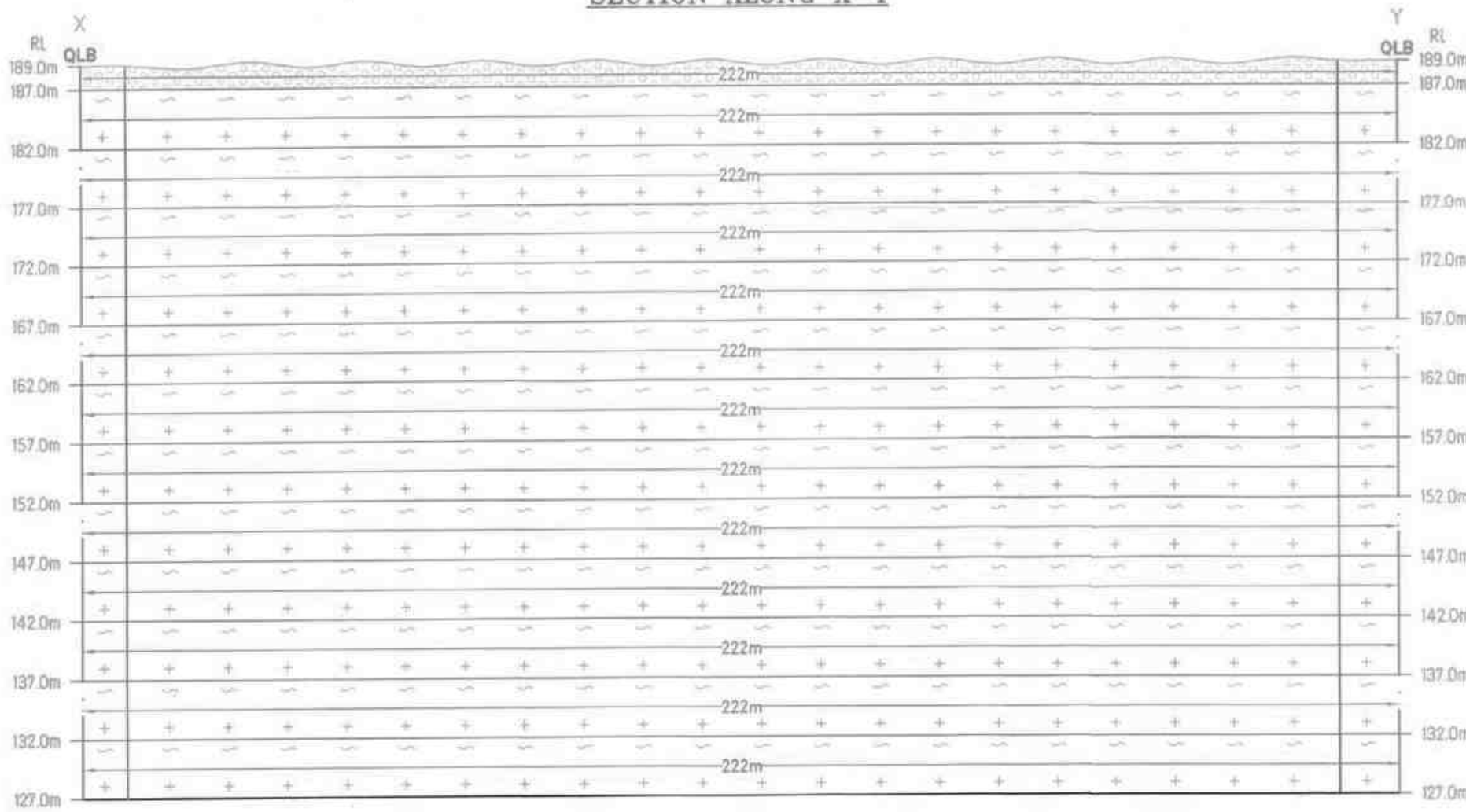
C.NATARAJAN, M. Sc. M. Phil.
QUALIFIED PERSON



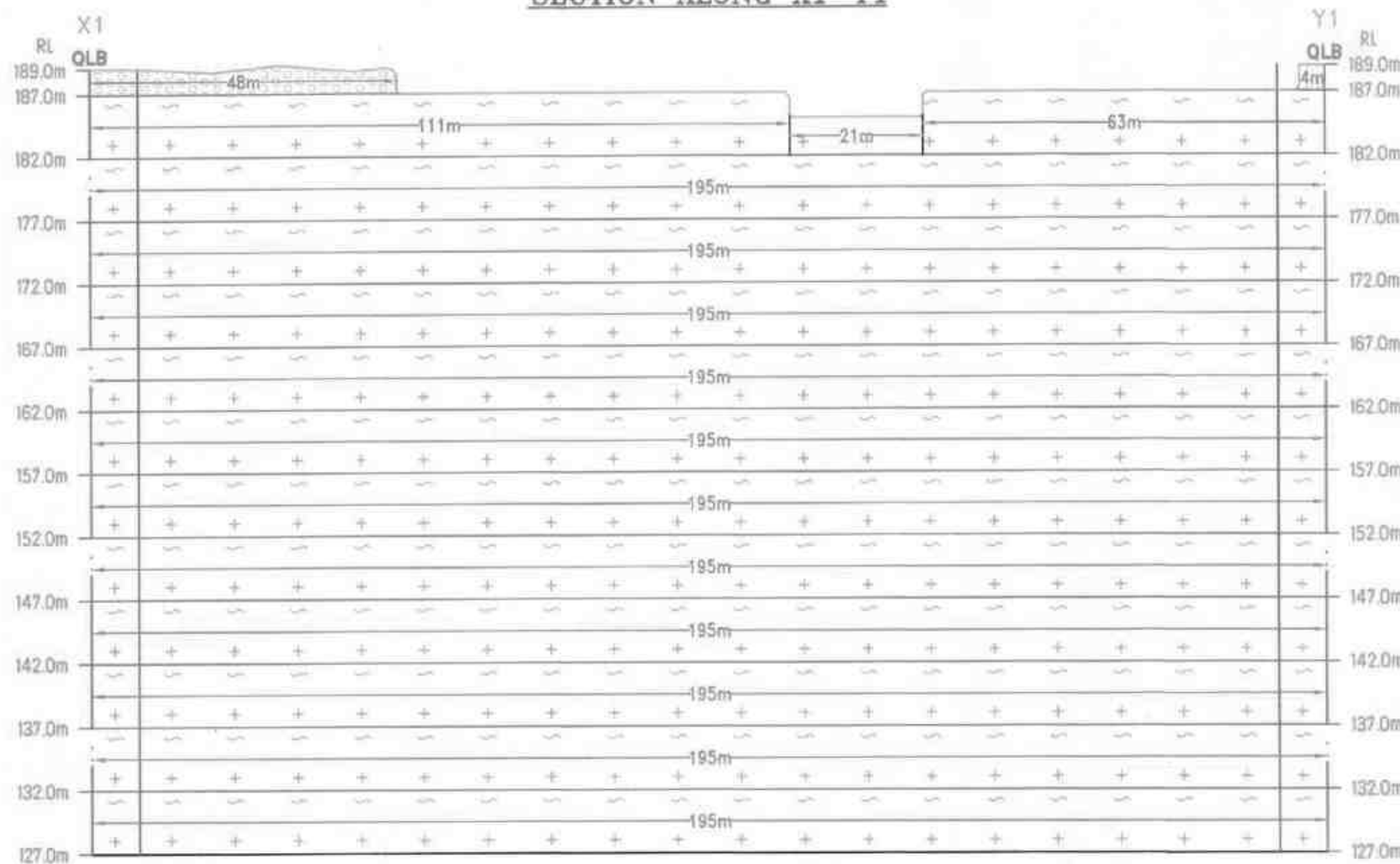
Boundary Co-Ordinates		
Label	Latitude	Longitude
1	11° 00' 21.73"N	77° 56' 38.86"E
2	11° 00' 24.23"N	77° 56' 38.14"E
3	11° 00' 25.67"N	77° 56' 38.11"E
4	11° 00' 26.19"N	77° 56' 37.99"E
5	11° 00' 27.38"N	77° 56' 38.17"E
6	11° 00' 27.71"N	77° 56' 38.14"E
7	11° 00' 27.03"N	77° 56' 45.09"E
8	11° 00' 25.98"N	77° 56' 45.37"E
9	11° 00' 24.90"N	77° 56' 44.94"E
10	11° 00' 23.51"N	77° 56' 44.80"E
11	11° 00' 22.62"N	77° 56' 44.52"E
12	11° 00' 21.62"N	77° 56' 44.55"E
13	11° 00' 21.77"N	77° 56' 43.07"E
14	11° 00' 21.87"N	77° 56' 41.07"E
WGS 84 Datum		



SECTION ALONG X-Y



SECTION ALONG X1-Y1



SECTION ALONG A-B

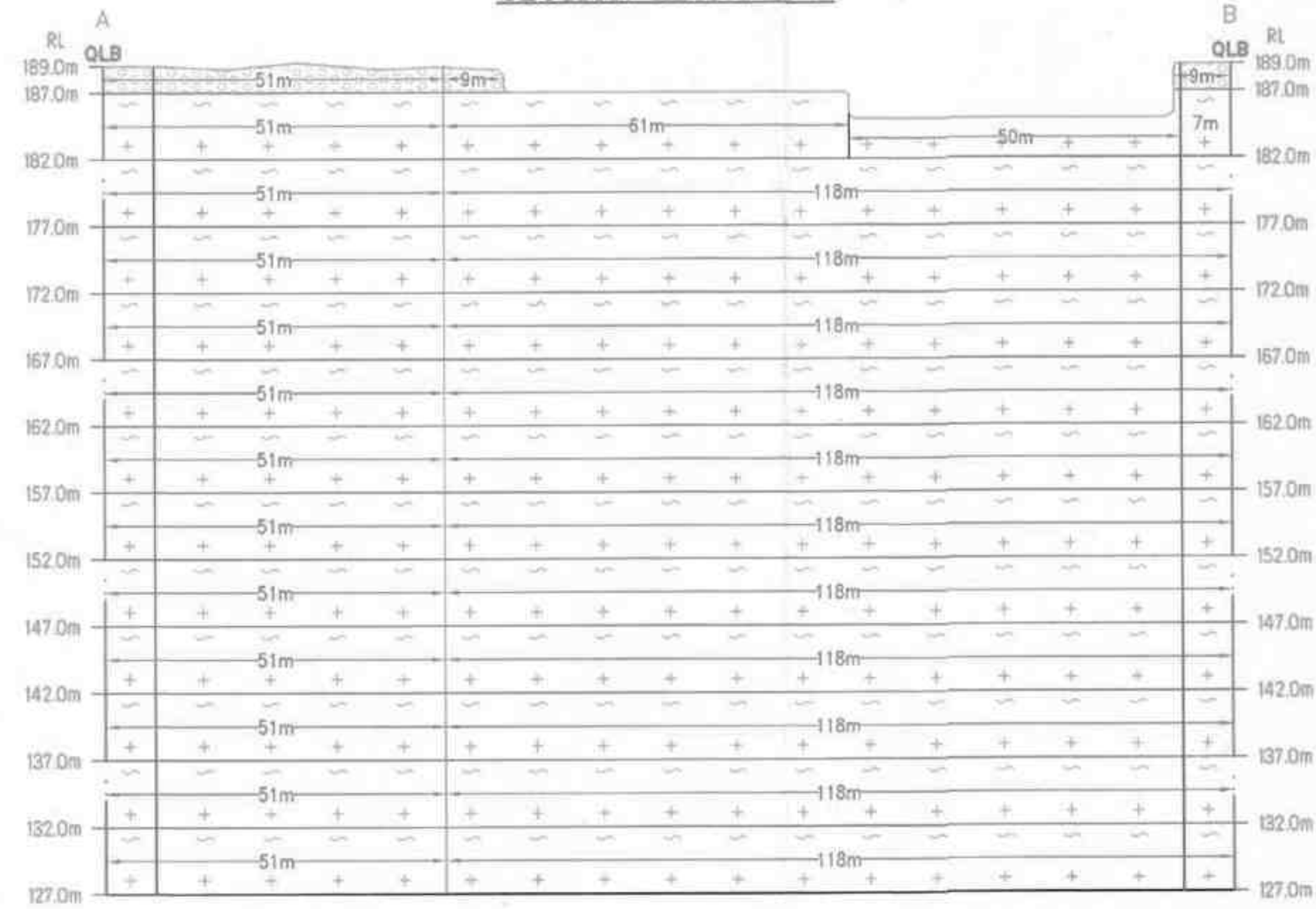


PLATE NO-III
DATE OF SURVEY : 12.04.2025

APPLICANT:
TVL MAHAGANAPATHI BLUE METAL,
SURVEY NO 510/1,
ARASAMPALAYAM, KUPPAM POST,
PUGALUR TALUK,
KARUR DISTRICT.

QUARRY APPLIED LEASE AREA:
S.F.NO's : 511/1, 511/2 & 512/2,
EXTENT : 3.45.53 Ha,
VILLAGE : KUPPAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

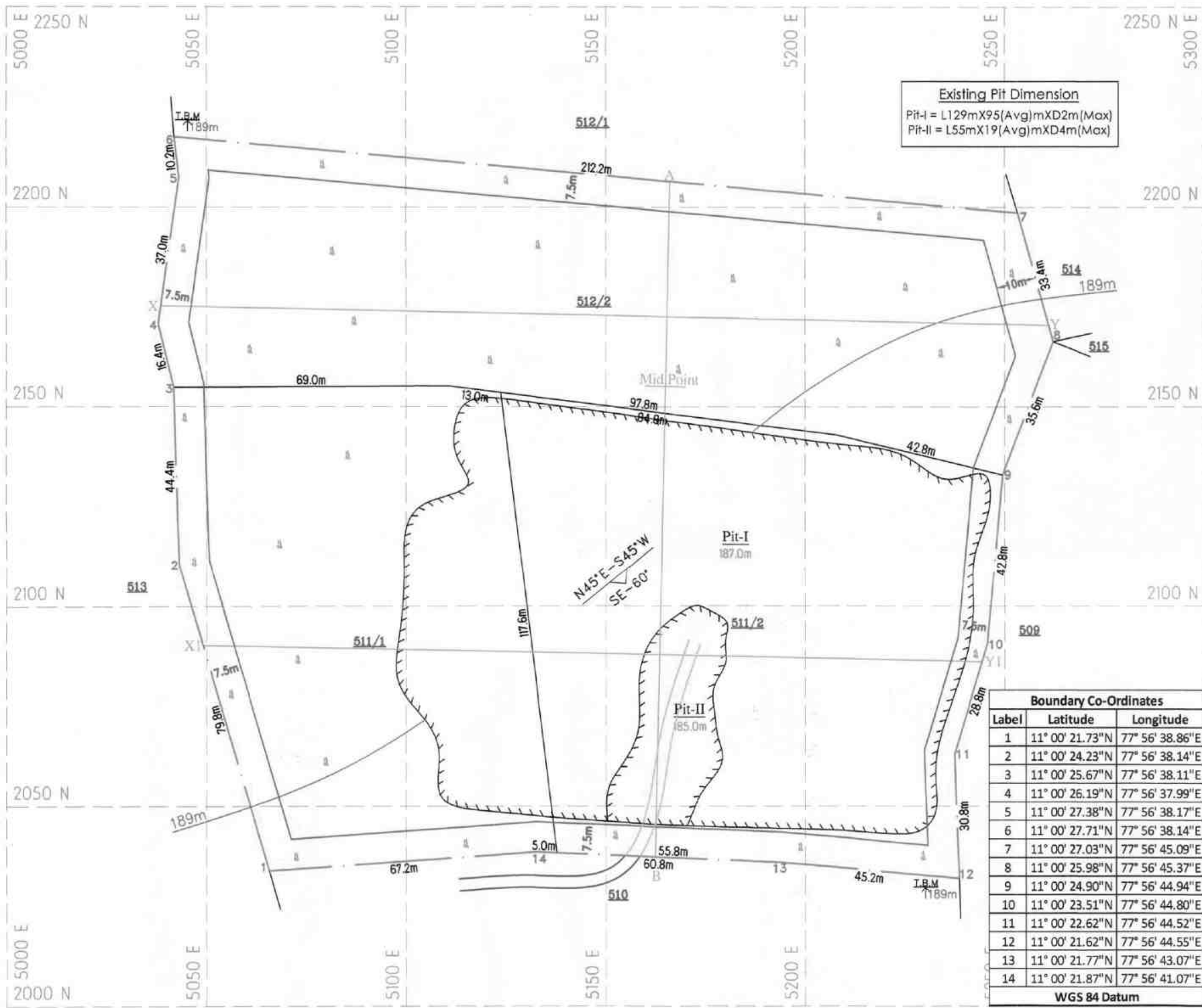
Q.L. APPLIED BOUNDARY	
7.5m & 10m SAFETY DISTANCE	
TEMPORARY BENCH MARK	
APPROACH ROAD	
QUARRY ROAD	
CONTOUR	
SCRUB	
QUARRY PIT	
GRAVEL	
ROUGH STONE	
STRIKE & DIP	

TOPOGRAPHY, GEOLOGICAL
PLAN & SECTIONS

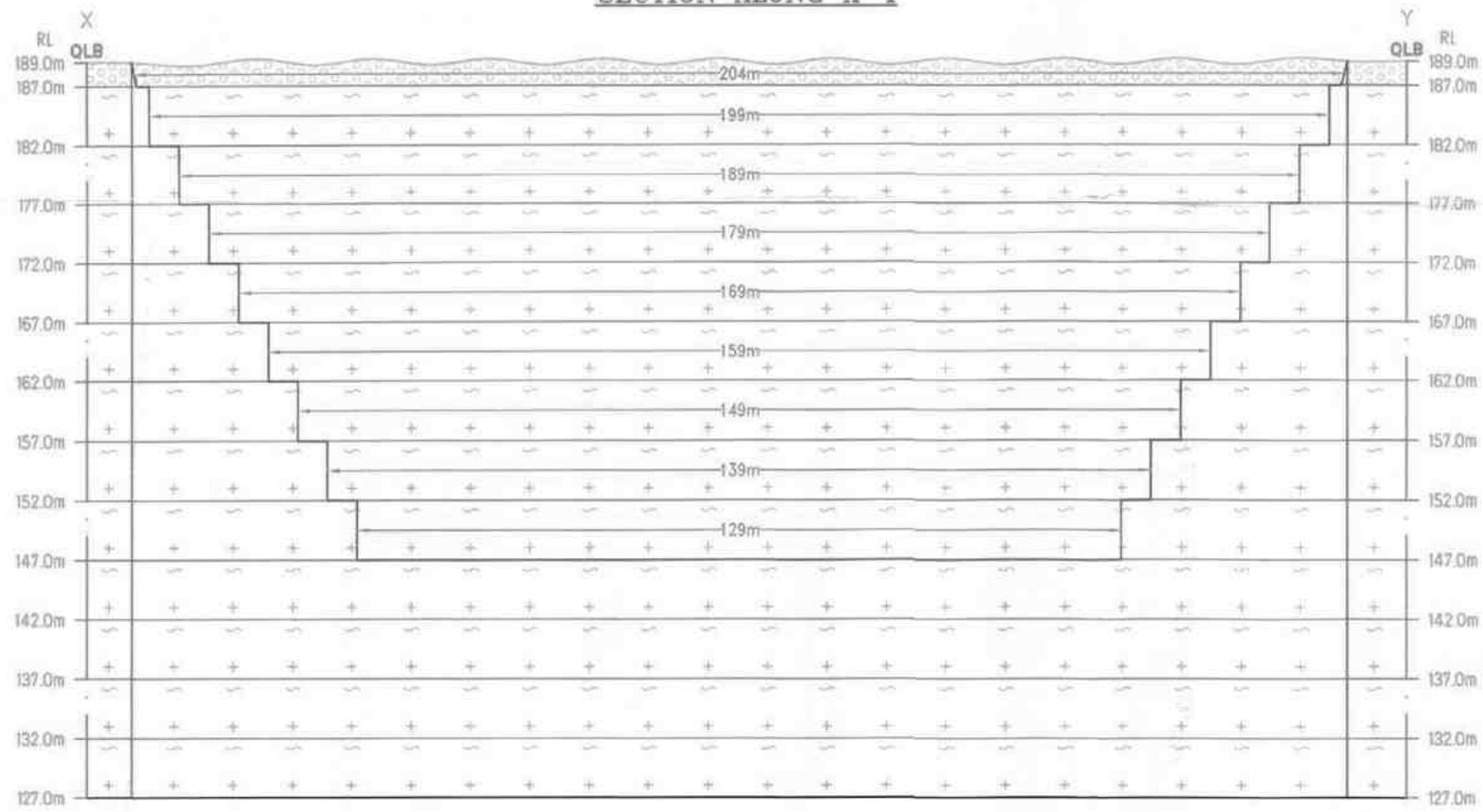
SCALE 1 : 1000
SECTIONS HOR 1:1000, VER 1:500

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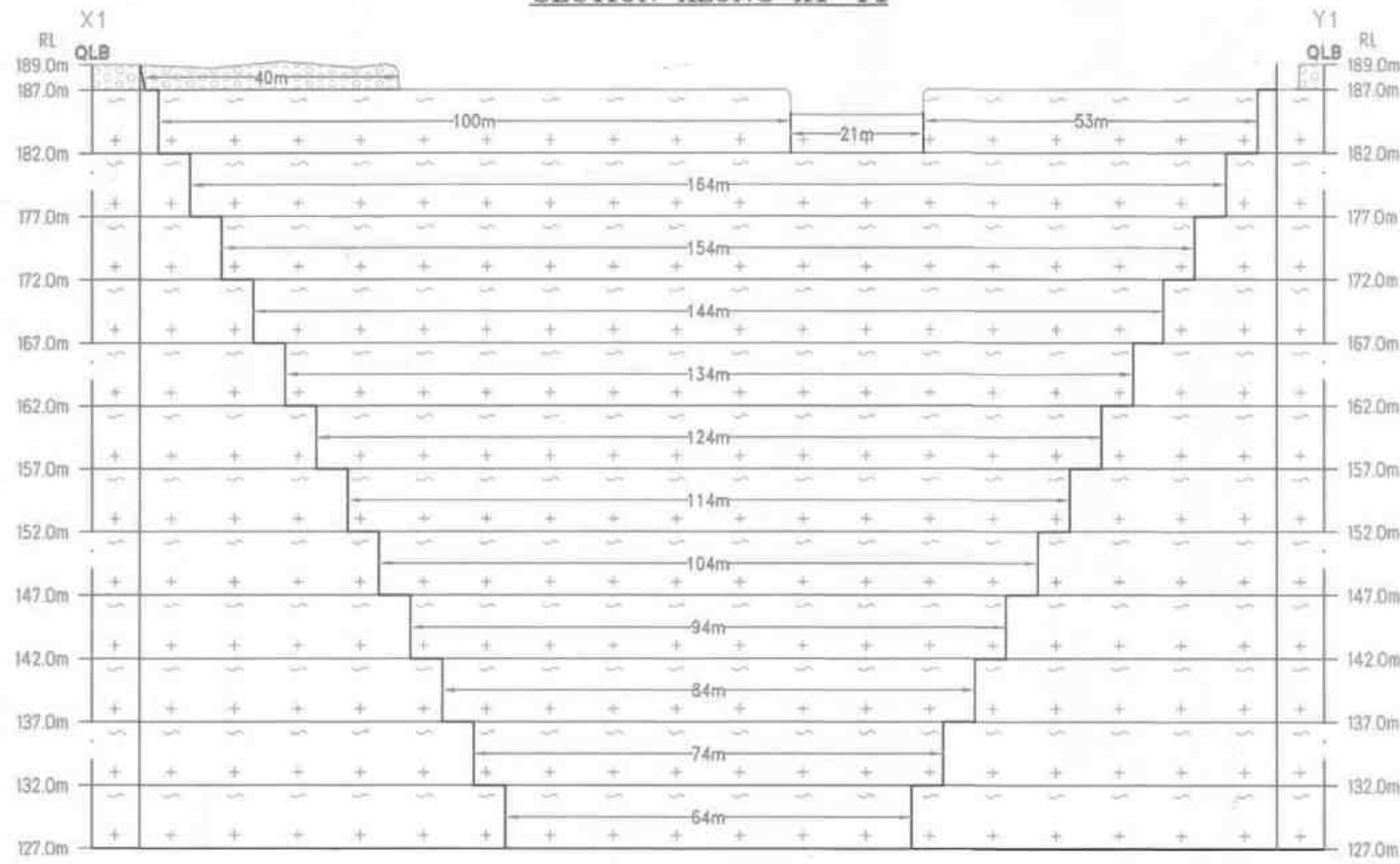
C. NATARAJAN, M.Sc., M.Phil.,
QUALIFIED PERSON



SECTION ALONG X-Y



SECTION ALONG X1-Y1



SECTION ALONG A-B

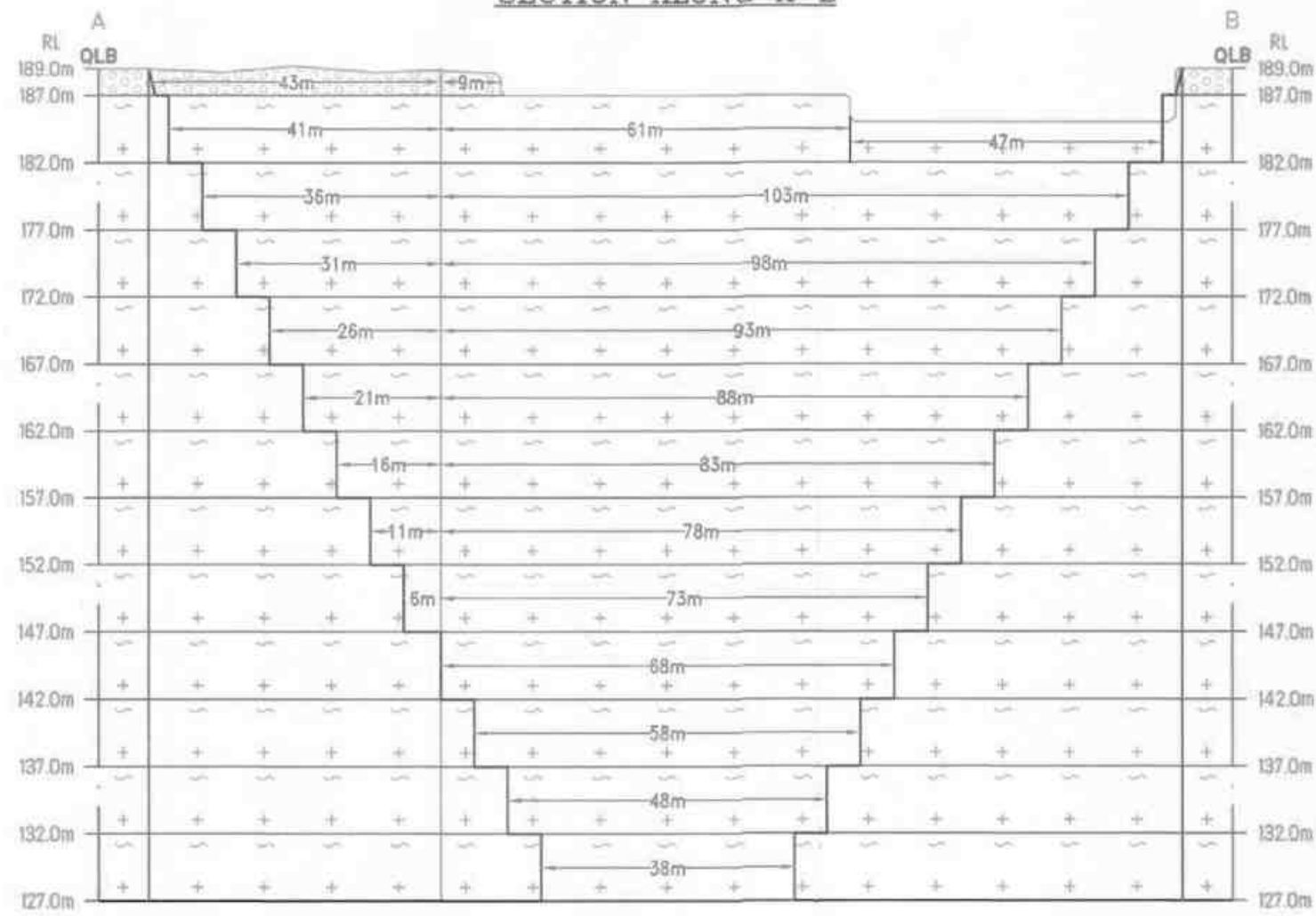


PLATE NO-IV

DATE OF SURVEY : 12.04.2025

APPLICANT:

TVL MAHAGANAPATHI BLUE METAL,
SURVEY NO.510/1,
ARASAMPALAYAM, KUPPAM POST,
PUGALUR TALUK,
KARUR DISTRICT.

QUARRY APPLIED LEASE AREA:

S.F.NO's : 511/1, 511/2 & 512/2,
EXTENT : 3.45.53 Ha,
VILLAGE : KUPPAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

Q.L. APPLIED BOUNDARY	
7.5m & 10m SAFETY DISTANCE	
TEMPORARY BENCH MARK	
APPROACH ROAD	
QUARRY ROAD	
CONTOUR	
SCRUB	
QUARRY PIT	
GRAVEL	
ROUGH STONE	
STRIKE & DIP	

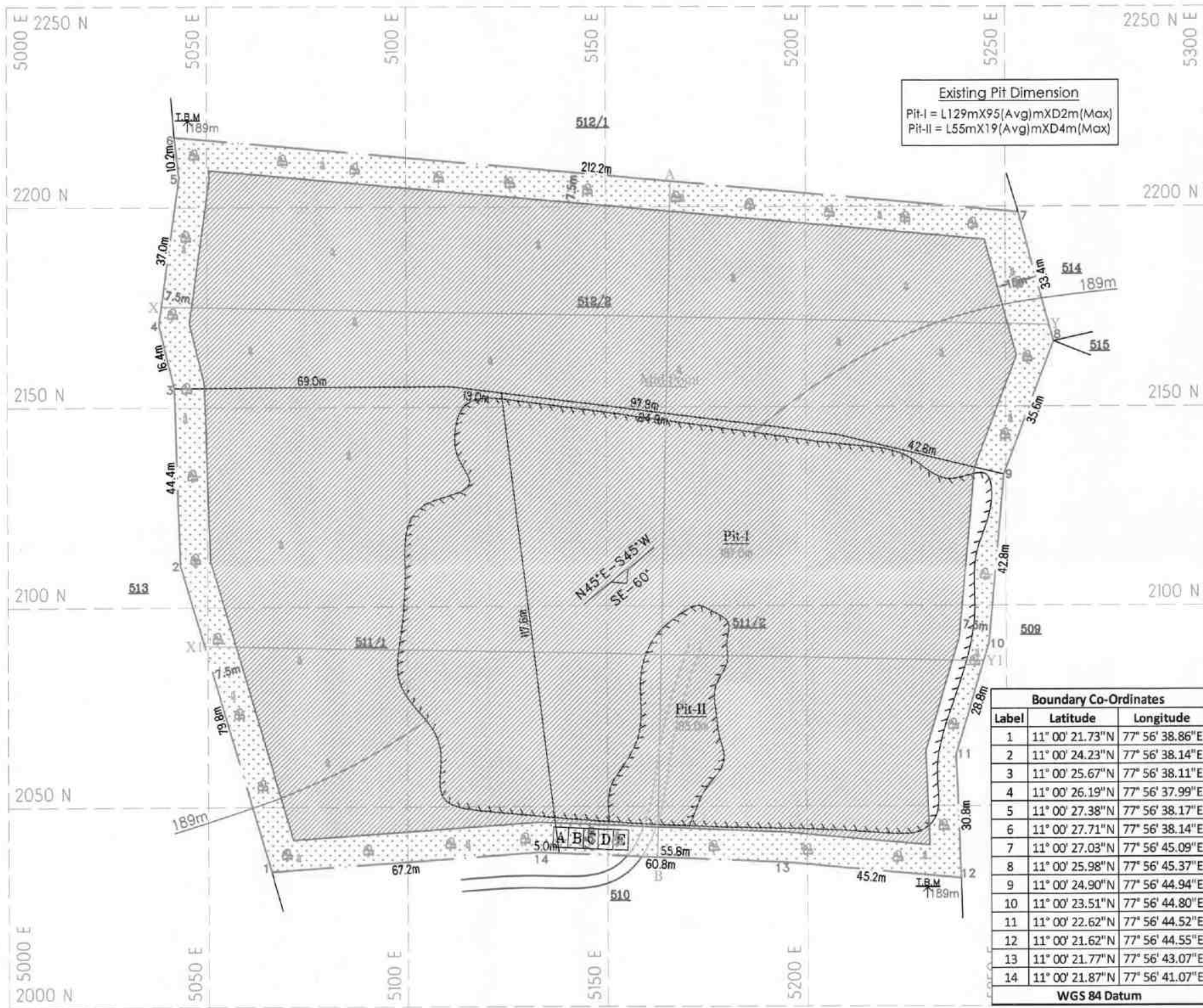
MINEABLE
PLAN & SECTIONS

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

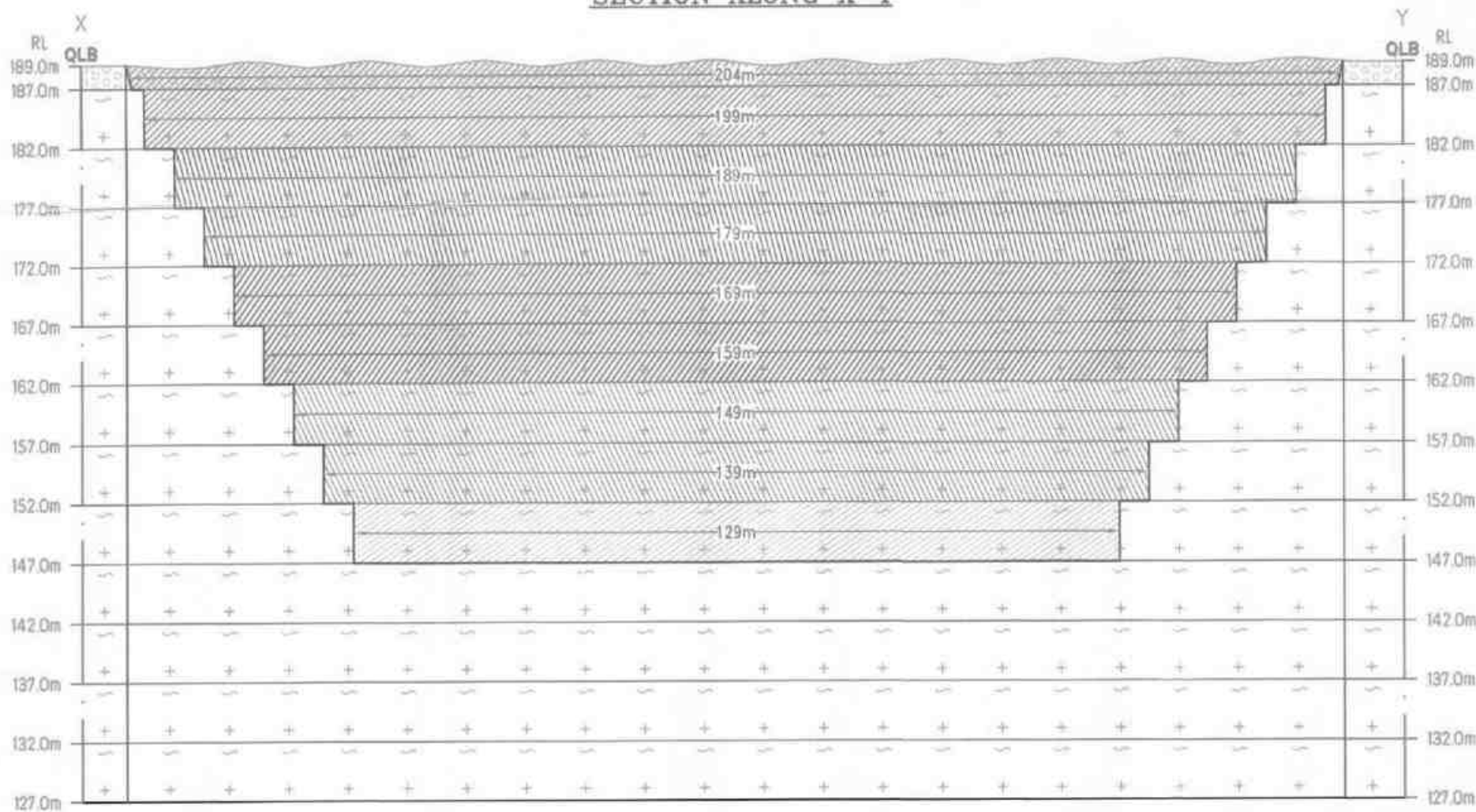
PREPARED BY:

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THE LEASE MAP AUTHENTICATED BY STATE
GOVERNMENT

C.NATANANANDAN, Phil.,
QUALIFIED PERSON



SECTION ALONG X-Y



PRESENT & POST LAND USE PATTERN

DESCRIPTION	PRESENT AREA (Ha)	AREA AT THE END OF THIS QUARRYING PERIOD (Ha)
AREA UNDER QUARRYING	1.33.00	2.95.80
INFRASTRUCTURE	NII	0.01.00
ROADS	0.01.00	0.01.00
GREEN BELT	NII	0.47.73
UN-UTILIZED AREA	2.11.53	NII
GRAND TOTAL	3.45.53	3.45.53

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

Proposed area to be Planted

PLATE NO-V
DATE OF SURVEY : 12.04.2025

APPLICANT:
TVL MAHAGANAPATHI BLUE METAL,
SURVEY NO.510/1,
ARASAMPALAYAM, KUPPAM POST,
PUGALUR TALUK,
KARUR DISTRICT.

QUARRY APPLIED LEASE AREA:
S.F.NO's : 511/1, 511/2 & 512/2,
EXTENT : 3.45.53 Ha,
VILLAGE : KUPPAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

Q.L. APPLIED BOUNDARY	
7.5m & 10m SAFETY DISTANCE	
TEMPORARY BENCH MARK	T.B.M.
APPROACH ROAD	
QUARRY ROAD	
CONTOUR	
SCRUB	
QUARRY PIT	
GRAVEL	
ROUGH STONE	
STRIKE & DIP	

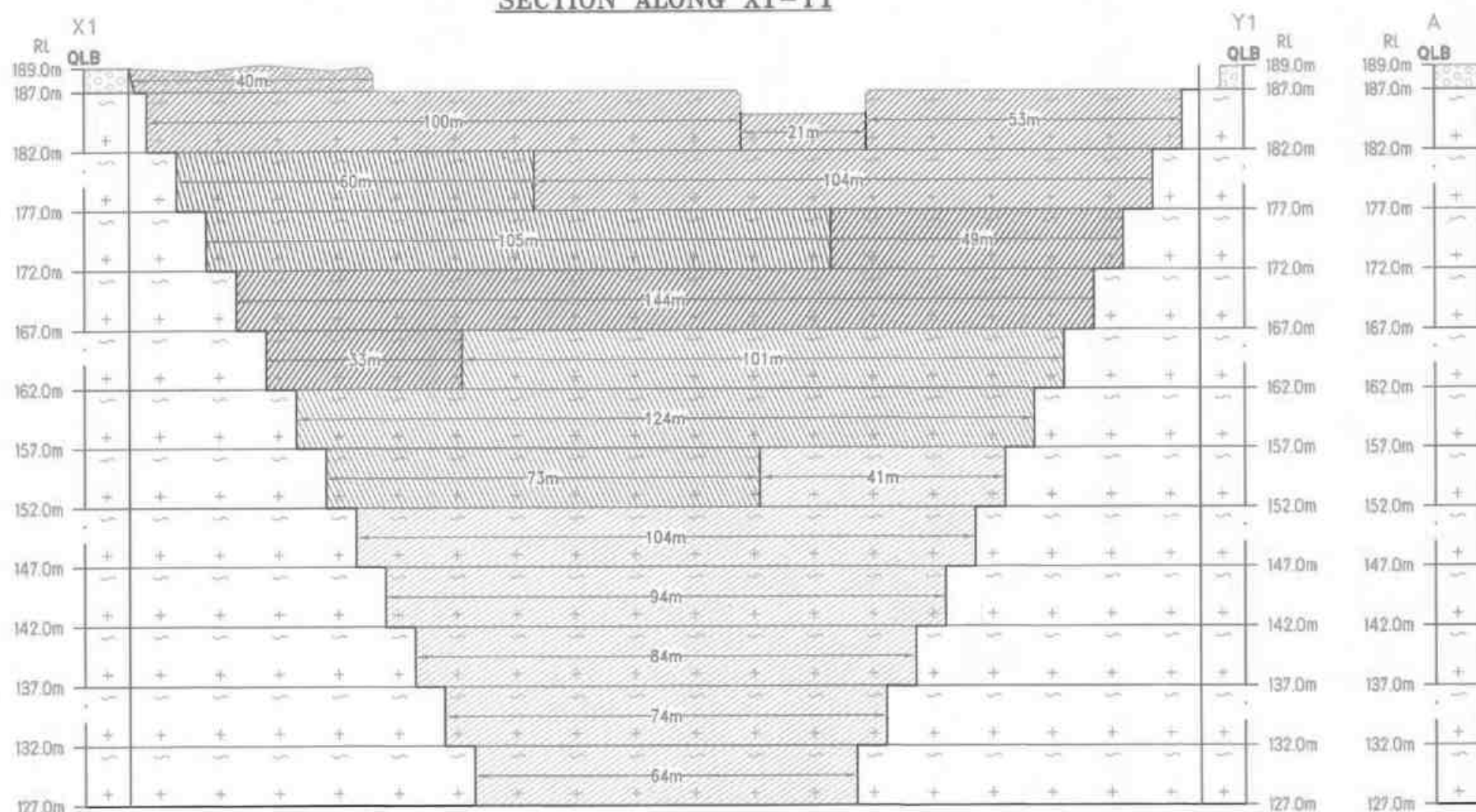
YEARWISE DEVELOPMENT & PRODUCTION PLAN & SECTIONS

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

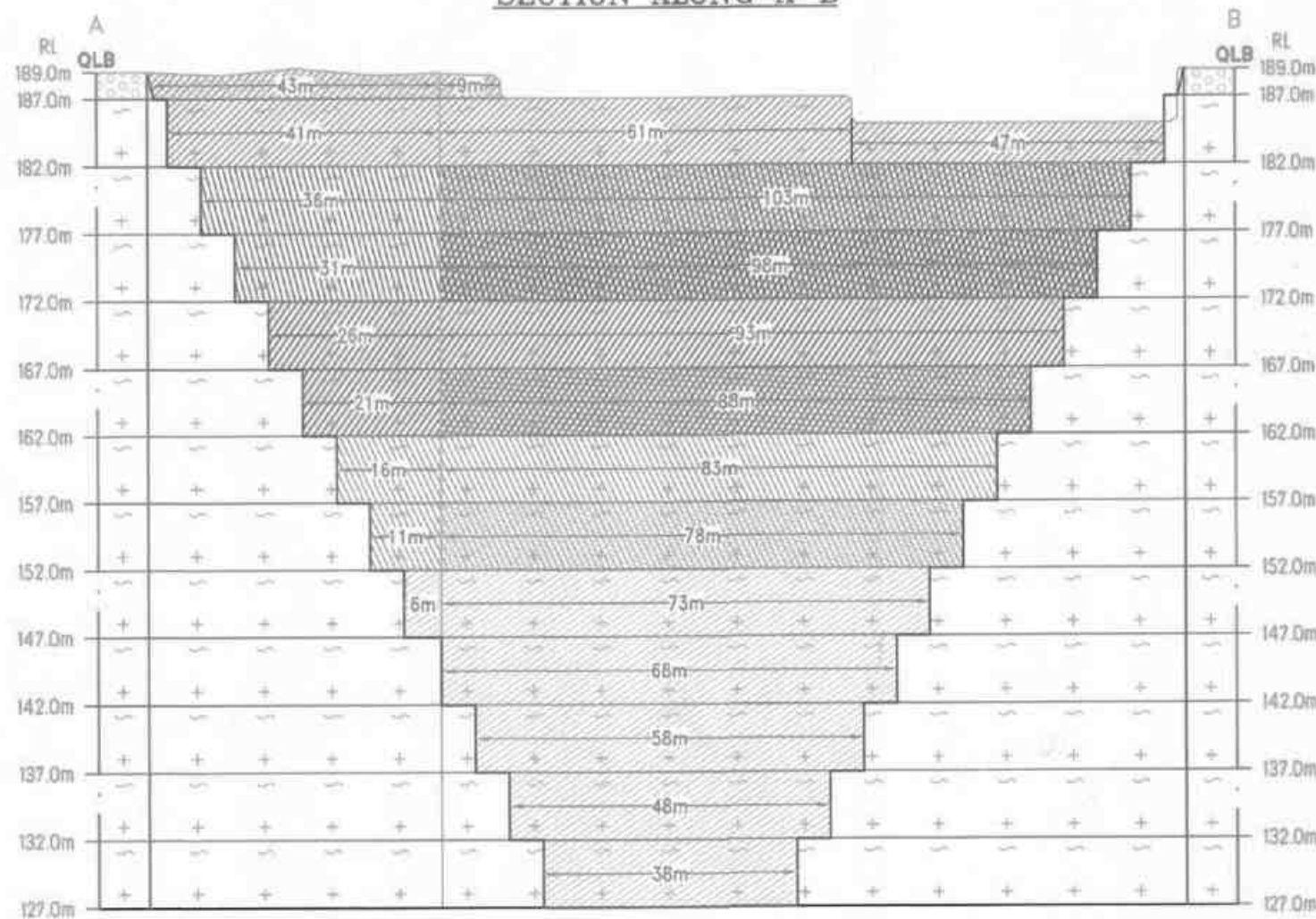
PREPARED BY:
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GOVERNMENT

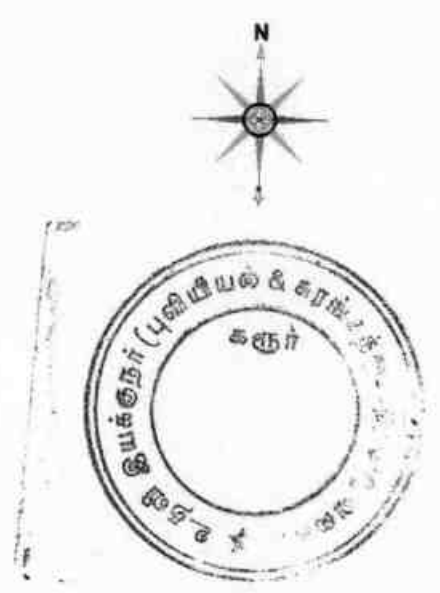
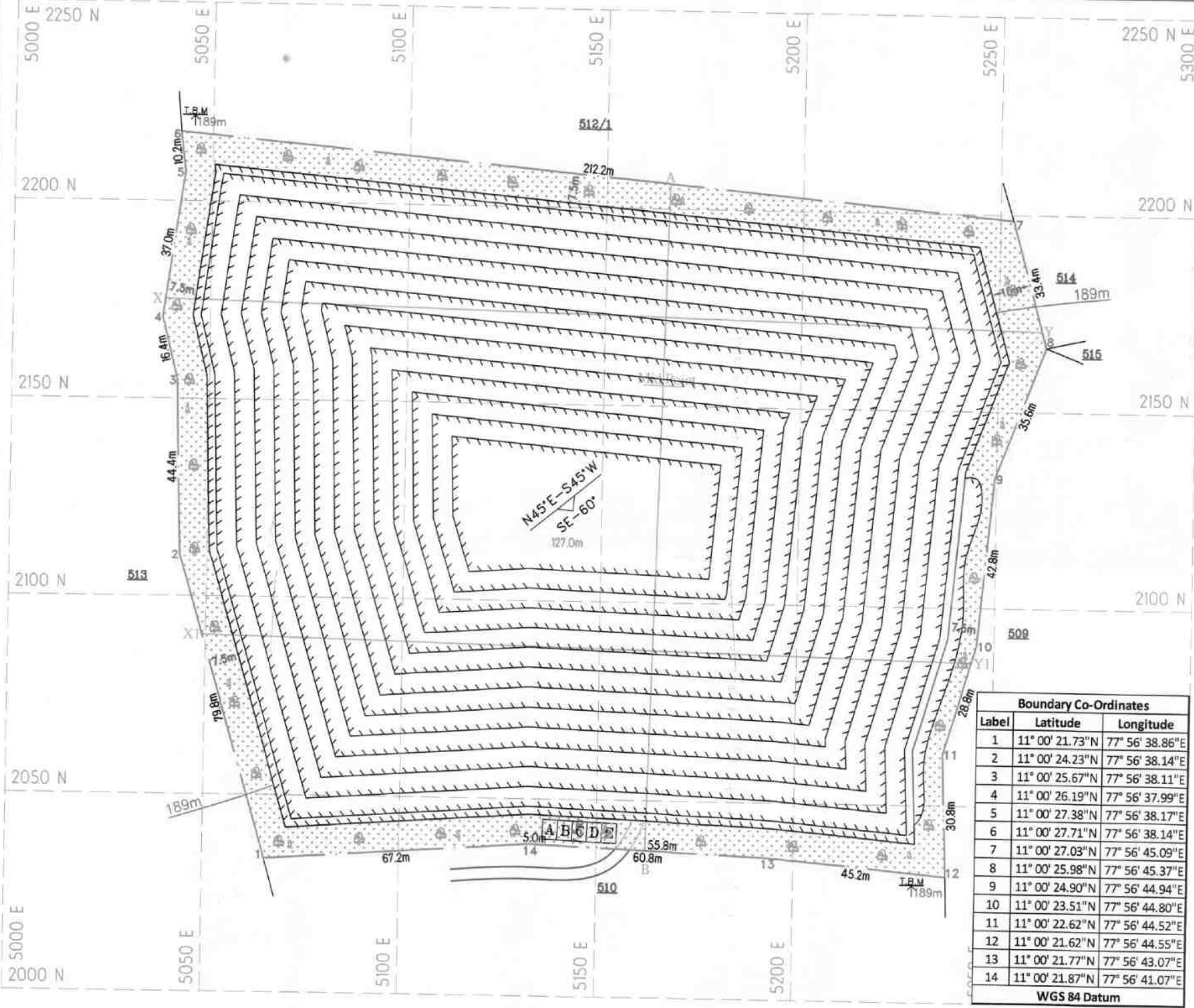
C. NATARAJAN, M.Sc., M.Phil.,
QUALIFIED PERSON

SECTION ALONG X1-Y1



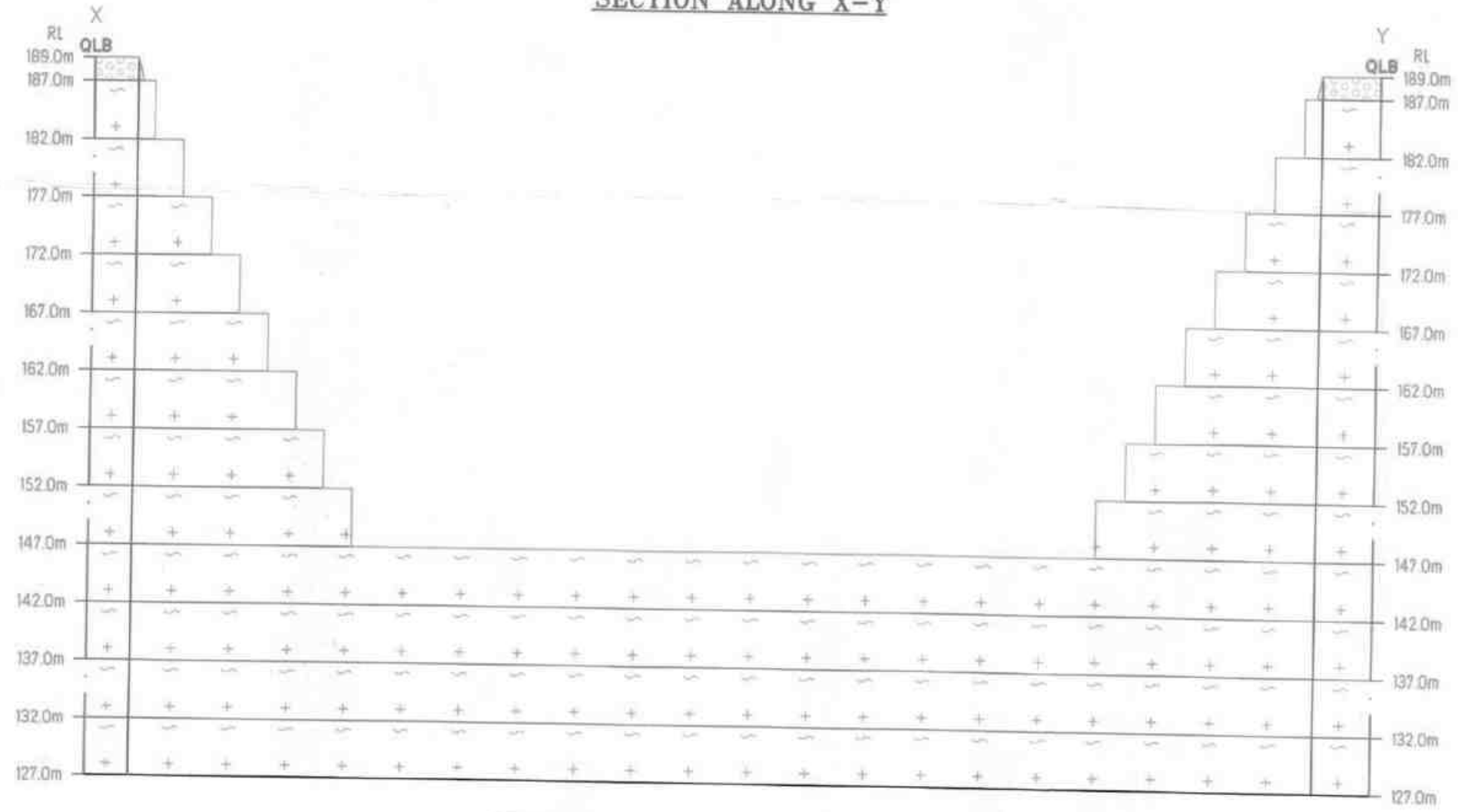
SECTION ALONG A-B





Boundary Co-Ordinates		
Label	Latitude	Longitude
1	11° 00' 21.73"N	77° 56' 38.86"E
2	11° 00' 24.23"N	77° 56' 38.14"E
3	11° 00' 25.67"N	77° 56' 38.11"E
4	11° 00' 26.19"N	77° 56' 37.99"E
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13	11° 00' 21.77"N	77° 56' 43.07"E
14	11° 00' 21.87"N	77° 56' 41.07"E
WGS 84 Datum		

SECTION ALONG X-Y



- PROPOSED SITE SERVICES**
- A - OFFICE
 - B - STORE ROOM
 - C - FIRST AID ROOM
 - D - REST SHELTER
 - E - TOILET

Ultimate Pit Dimension of End of the Quarry Lease Period
L204mX145(Avg)mXD62m(Max)

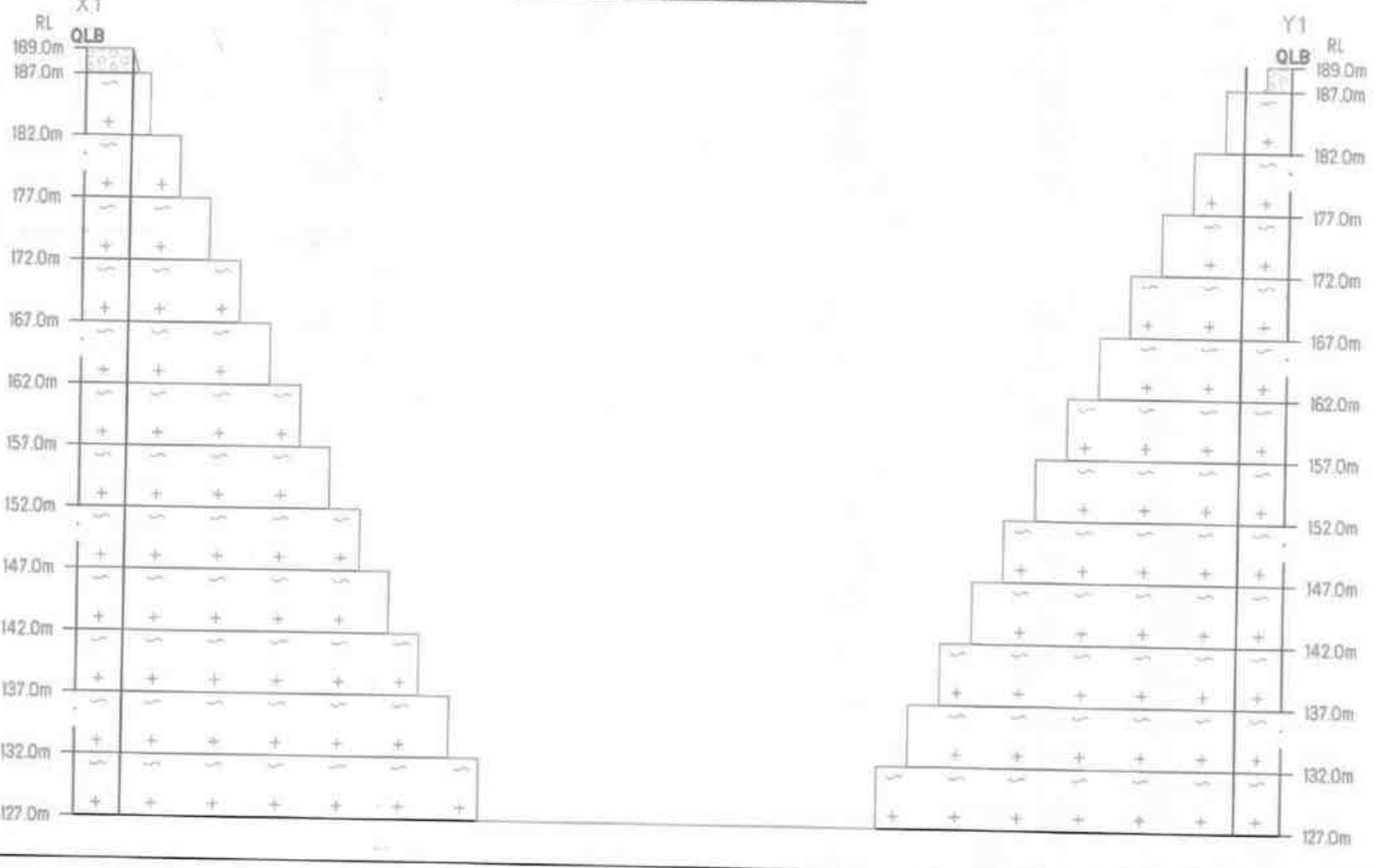
Proposed area to be Planted

PLATE NO-VI
DATE OF SURVEY : 12.04.2025
APPLICANT:
TVL MAHAGANAPATHI BLUE METAL,
SURVEY NO.510/1,
ARASAMPALAYAM, KUPPAM POST,
PUGALUR TALUK,
KARUR DISTRICT.
QUARRY APPLIED LEASE AREA:
S.F.NO's : 511/1, 511/2 & 512/2,
EXTENT : 3.45.53 Ha,
VILLAGE : KUPPAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

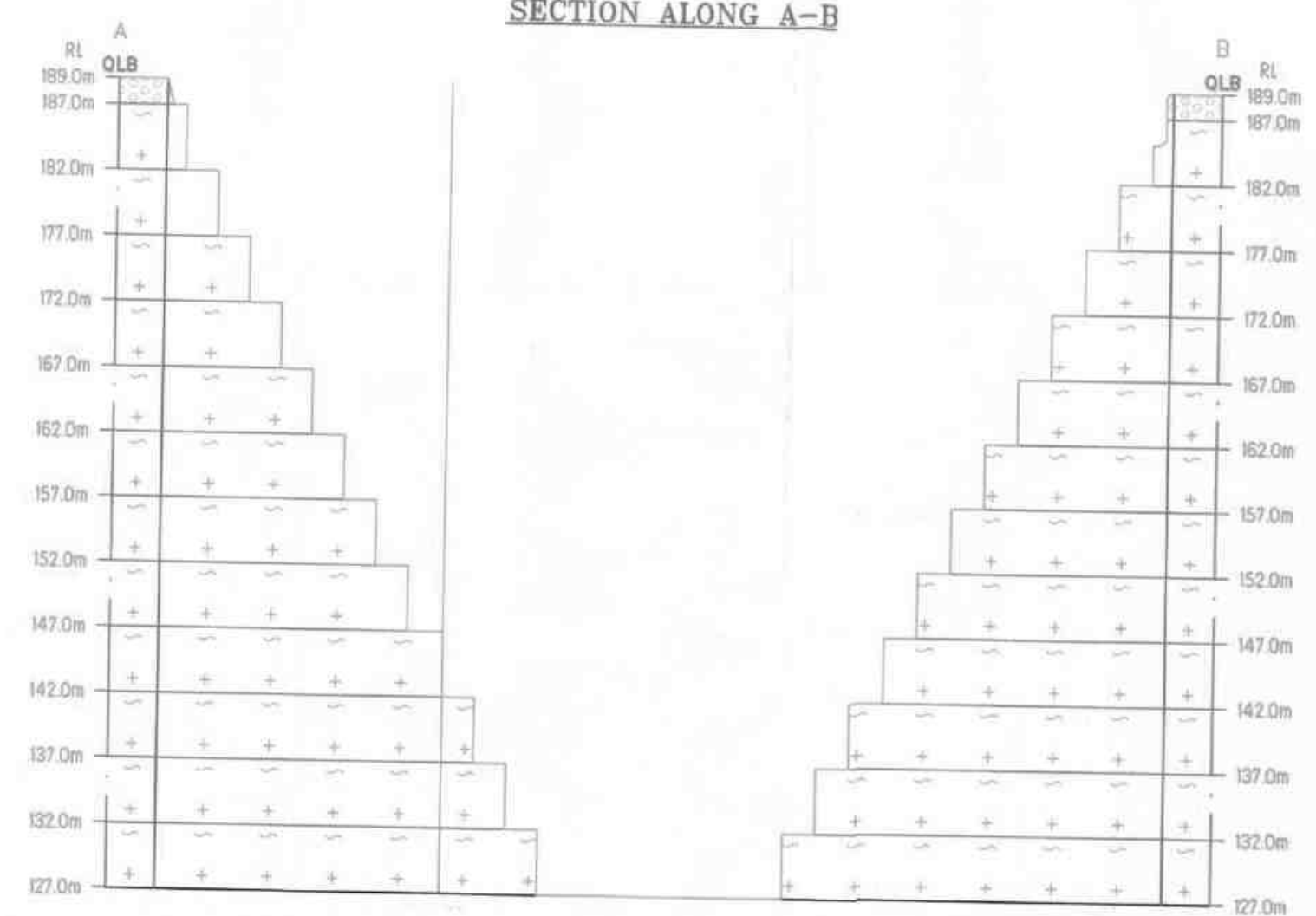
- INDEX**
- Q.L. APPLIED BOUNDARY
 - 7.5m & 10m SAFETY DISTANCE
 - TEMPORARY BENCH MARK
 - APPROACH ROAD
 - QUARRY ROAD
 - CONTOUR
 - SCRUB
 - PROPOSED QUARRY PIT
 - GRAVEL
 - ROUGH STONE
 - STRIKE & DIP

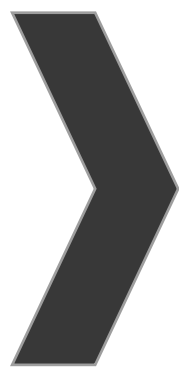
CONCEPTUAL PLAN & SECTIONS
SCALE 1 : 1000
SECTIONS HOR 1:1000, VER 1:500
PREPARED BY:
THIS IS TO CERTIFY THAT THE INFORMATION
IN THIS PLATE IS TRUE AND CORRECT TO
THE BEST OF MY KNOWLEDGE BASED UPON
THE LEASE MAP AUTHENTICATED BY STATE
GOVERNMENT
C.NATARAJAN, M.Sc., M.Phil.,
QUALIFIED PERSON

SECTION ALONG X1-Y1



SECTION ALONG A-B





ANNEXURE-4

From
Thiru.S.Poornavel, M.Sc.,
Assistant Director,
Geology and Mining,
Karur.

To
Tvl.Mahaganapathi Blue Metal,
S.F.No.510/1,
Arasampalayam,
Kuppam Post,
Pugalur Taluk, Karur District

Rc.No.208/Mines/2024, Dated:25.04.2025

Sir,

Sub: Mines and Minerals - Minor Mineral - Karur District -
Pugalur Taluk - Kuppam Village - Patta lands in
S.F.Nos.511/1 (0.96.76 hectares), 511/2 (1.21.24
hectares, and 512/2 (1.27.53 hectares), Over an
extant of 3.45.53 hectares - Rough Stone and Gravel
Quarry lease application Preferred by Tvl.Mahaganapathi
Blue Metal - Mining Plan approved - requested for the
details of Existing/ Proposed/Expired and Abandoned
quarries situated within 500 mts radial distance -
furnished - Regarding.

- Ref: 1. Rough stone and Gravel Quarry lease application
preferred by Tvl.Mahaganapathi Blue Metal,
S.F.No.510/1, Arasampalayam, Kuppam Post,
Pugalur Taluk, Karur District, dated: 11.07.2024.
2. Precise Area Communication Memorandum
Rc.No.208/Mines/2024, Dated: 11.04.2024.
3. Mining Plan submitted by Tvl.Mahaganapathi Blue
Metal letter Dated: 12.04.2025, received on
21.04.2025
4. The Assistant Director, Geology and Mining, Karur
Mining Plan approved letter Rc.No. 208/Mines/2024,
Dated: 24.04.2025.
5. Tvl.Mahaganapathi Blue Metal letter Dated:
23.04.2025.

In the reference 1st cited Tvl.Mahaganapathi Blue Metal, S.F.No.510/1,
Arasampalayam, Kuppam Post, Pugalur Taluk, Karur District has applied for the
grant of Rough Stone and Gravel quarry lease for Five years period over an extent
of 3.45.53 hectares of patta land in S.F.Nos.511/1 (0.96.76 hectares), 511/2
(1.21.24 hectares), and 512/2 (1.27.53 hectares), of Kuppam Village, Pugalur
Taluk, Karur District under Rule 19(1) of Tamil Nadu Minor Mineral Concession
Rule 1959.

Accordingly, the applicant has submitted the 3 copies of draft Mining Plan and the same was approved by the Assistant Director, Geology and Mining, Karur vide reference 4th cited.

In the reference 5th cited, the applicant has requested to the Assistant Director of Geology and Mining, Karur to provide the details of existing, proposed and abandoned quarries situated within 500 meter radial distance from the subject area and the same has been furnished as follows:-

I. Existing Quarries: -

Sl No.	Name of the lessee/firm it holder	Name of the Mineral	Taluk & Village	S.F.No.	Extent (hect)	Lease Period
1.	Tmt.P.Amaravathi W/o.Palanisamy	Rough Stone	Pugalur Taluk Kuppam	513/2C 595/2 Part	2.84.0	02.12.2024 to 01.12.2029
2.	Tvl. New Star Blue Metals	Rough Stone	Pugalur Taluk Kuppam	553/2 Part	1.62.0	06.12.2024 to 05.12.2034

II. Proposed Quarries: -

Sl No.	Name of the lessee/firm it holder	Name of the Mineral	Taluk & Village	S.F.No.	Extent (hect)	Lease Period
1.	Tvl.Mahaganapathi Blue Metal, S.F.No.510/1, Arasampalayam, Kuppam Post, Pugalur Taluk, Karur District	Rough Stone & Gravel	Pugalur Taluk Kuppam	511/1 511/2 512/2	3.45.53	Proposed Area

III. Lease Expired Quarries : -

Sl No.	Name of the lessee/firm it holder	Name of the Mineral	Taluk & Village	S.F.No.	Extent (hect)	Lease Period
1.	Thiru.S.Jeevanantham	Rough Stone	Pugalur Taluk Kuppam Village	524/3A 2 524/3B	1.81.5	05.07.2017 to 04.07.2022
2.	Tmt.P.Amaravathi W/o.Palanisamy	Rough Stone	Pugalur Taluk Kuppam Village	509/2A Part	0.89.5	18.08.2017 to 17.08.2022
3.	Tmt.P.Mallika, W/o.Periyasamy,	Rough Stone	Pugalur Taluk Kuppam Village	509/1 Part	1.88.0	07.2.2018 to 06.2.2023

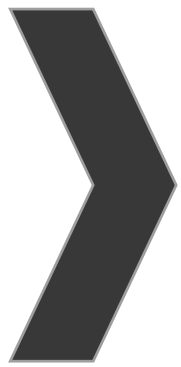
IV. Abandoned Quarries : -

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

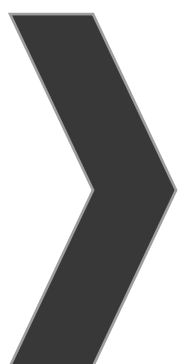
S. P. 24/4/25
Assistant Director,
Geology and Mining,
Karur

Pg 25/4/25

25/4/25



ANNEXURE-5



ANNEXURE-6

பம்: திடுக்கிதரப்பவ்னி

4. 2018-2019

५६० गायत्री. ५११

Signature

51600A

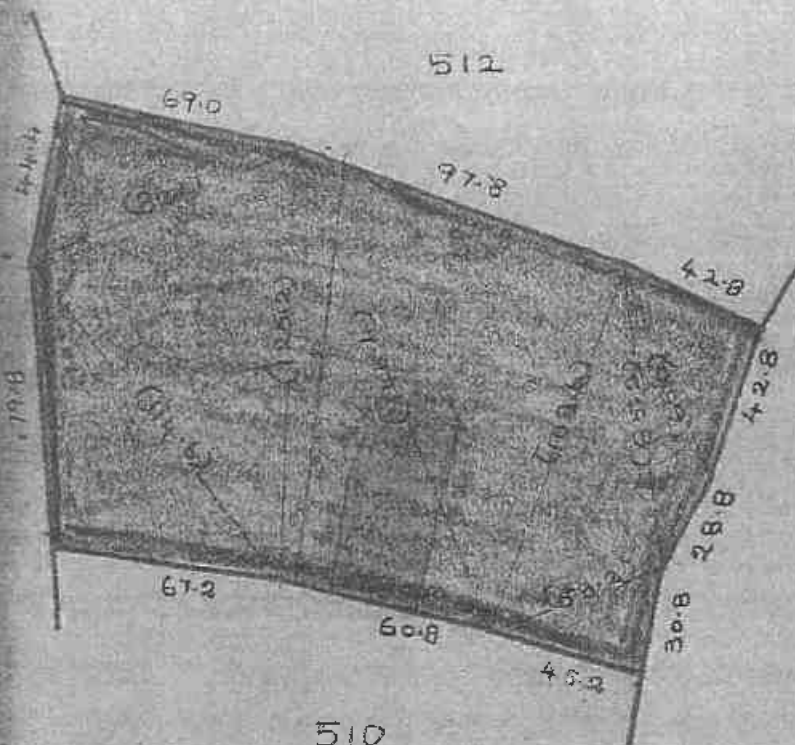
பெயர்:-

பரப்பு: ஹெக்டேர்

2. ஏன்

New Swedish Krona 500/4 per 1000 by fax

As per TIC BA-35/143: dt. 24-1-14



510

509

- ☐ 44000000: 511/1-ல் சீர்திருத்தம் 50% உடனடிபடுத்தல்: மார்ச் 0.96.769999
☐ 44000000: 511/2-ல் சீர்திருத்தம் 50% உடனடிபடுத்தல்: மார்ச் 1.07.000000
☐ 44000000: 511/2-ல் சீர்திருத்தம் 50% உடனடிபடுத்தல்: மார்ச் 0.14.240000
☐ 44000000: 511/2-ல் சீர்திருத்தம் 50% உடனடிபடுத்தல்: மார்ச் 2.18.000000

2016-2017

John G. Brown

கிராம நிர்வாக அலுவலர்.

18. குப்பம் கிராமம்.

புதுச்சேரி வட்டம்.

LEASE APPLIED AREA



ကျွန်ုပ်တို့၏အသံ

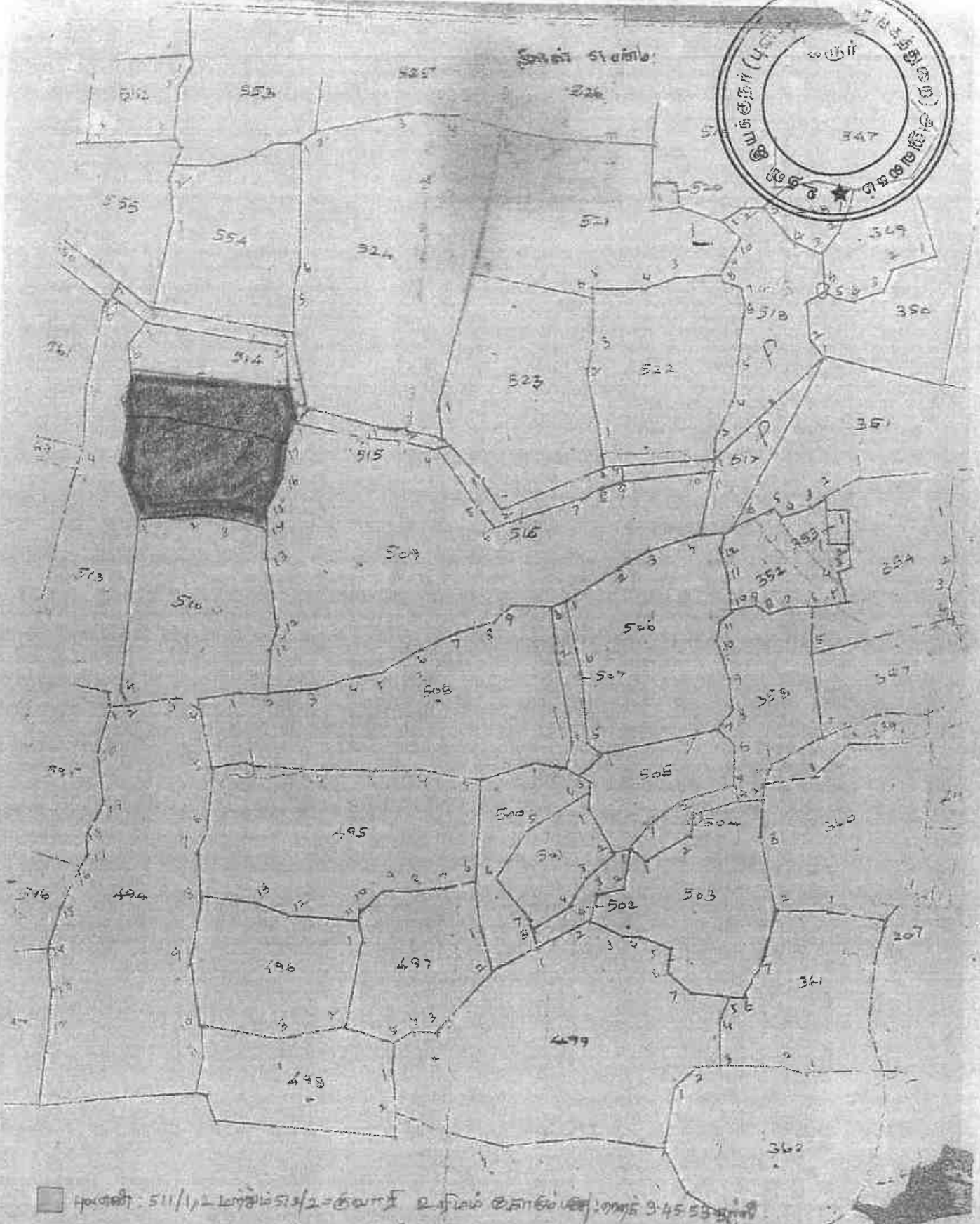
എ. ഗുണ്ടാക്കുറുപ്പൻ

சென்னை | டிசம்பர் 11, 2019

ਅੰਕ 1 : 20/05/15

160

പ്ര. വിജയ



■ ஹவுஸ் : 511/1/- லேசுக்கு 513/2-குடிசை 2-நிலம் குடிசைகளை/அறம் 3-4553-ஹவுஸ்

பொதுமுக - பி.வா.சி.
 21/01/2014

கிராம நிர்வாக அலுவலர்,
 18, சூப்பம் கிராமம்,
 புதுச்சேரி மாவட்டம்.

LEASE APPLIED AREA ■



தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : கரூர்

வட்டம் : புகழூர்

வருவாய் கிராமம் : குப்பம்

பட்டா எண் : 3983

உரிமையாளர்கள் பெயர்

1. மகா கணபதி புளுமெட்டல் நிறுவனத்திற்காக மேனேஜிங் பாட்னர் சின்னப்பகவுண்டர் மகன் ...பெரியசாமி-

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	
511	1	0 - 96.76	1.34	--	--	--	--	2021/0105/14/059452- -2021/14/07/000077SD ----- 23-07-2021
		0 - 96.76	1.34					

குறிப்பு :



மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து

1. பெறப்பட்டவை. இவற்றை தாங்கள் <https://eservices.tn.gov.in> என்ற இணைய தளத்தில் 14/07/018/03983/30803 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

2. இத் தகவல்கள் 22-06-2024 அன்று 12:30:13 PM நேரத்தில் அச்சடிக்கப்பட்டது.

3. கைப்பேசி கேமராவின் 2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்



தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : கருநாடகம்

வட்டம் : புகழூர்

வருவாய் கிராமம் : குப்பம்

பட்டா எண் : 3984

உரிமையாளர்கள் பெயர்

1. மகா கணபதி புளுமெட்டல் நிறுவனத்திற்காக மேனேஜிங் பாட்னர் பெரியசாமி மகன் ...செந்தில்குமார் -

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	
511	2	1 - 21.24	1.67	--	--	--	--	2021/0105/14/059452- -2021/14/07/000077SD ----- 23-07-2021
		1 - 21.24	1.67					

குறிப்பு :



- மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் <https://eservices.tn.gov.in> என்ற இணைய தளத்தில் 14/07/018/03984/30814 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
- இத் தகவல்கள் 22-06-2024 அன்று 12:31:47 PM நேரத்தில் அச்சடிக்கப்பட்டது.
- கைப்பேசி கேமராவின் 2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

UK



தமிழ்நாடு அரசு

வருவாய்த் துறை

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

மாவட்டம் : கரூர்

வட்டம் : புகழூர்

வருவாய் கிராமம் : குப்பம்

பட்டா எண் : 4560

உரிமையாளர்கள் பெயர்

1. மகாகணபதி புளுமெட்டல் நிறுவனத்திற்காக மேனேஜிங் பாட்னர்

... பெரியசாமி



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	
512	2	1 - 27.53	1.76	--	--	--	--	2023/0105/14/156196- -2023/14/07/000192SD ----- 04-12-2023
		1 - 27.53	1.76					

குறிப்பு :



- மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் <https://eservices.tn.gov.in> என்ற இணைய தளத்தில் 14/07/018/04560/40875 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
- இத் தகவல்கள் 22-06-2024 அன்று 12:32:54 PM நேரத்தில் அச்சடிக்கப்பட்டது.
- கைப்பேசி கேமராவின் 2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

Handwritten signature/initials



எண் 2

எண் 2
கிராமத்தில் வருட வாரி புலவாரி எனப்பற்று சாகுபடி ஆடங்கள் கணக்கு

[illegible]

கிராமக் கணக்கு

493 - ஆம் பக்கத்தில்
மாலைட்டம் 14 பக்கம்
கிராமக் கணக்கு
வட்டம் 1 சேலம்

[illegible]

அ-பதிவேடு விவரங்கள் - ஊரகம்

மாவட்டம் : கரூர்
வட்டம் : புகழூர்
கிராமம் : குப்பம்



1. புல எண்	511	9. மண் வயனமும் ரகமும்	8 - 4
2. உட்பிரிவு எண்	1	10. மண் தரம்	6
3. பழைய புல உட்பிரிவு எண்	511--	11. தீர்வை (ரூ - ஹெ)	1.38
4. பகுதி	P	12. பரப்பு (ஹெக்டேர் - ஏர்)	0 - 96.76
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த தீர்வை (ரூ - பை)	1.34
6. நிலத்தின் வகை	பஞ்சை	14. பட்டா எண்	3983
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இறு போகமா	1	16. பெயர்	1.பெரியசாமி

குறிப்பு:



மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து
1. பெறப்பட்டவை. இவற்றை தாங்கள் <https://eservices.tn.gov.in> என்ற இணைய
தளத்தில் 14/07/018/511/1/50803 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி
செய்துகொள்ளவும்.

UK

அ-பதிவேடு விவரங்கள் - ஊரகம்



மாவட்டம் : கரூர்
வட்டம் : புகழூர்
கிராமம் : குப்பம்

1. புல எண்	511	9. மண் வயனமும் ரகமும்	8 - 4
2. உட்பிரிவு எண்	2	10. மண் தரம்	6
3. பழைய புல உட்பிரிவு எண்	511--	11. தீர்வை (ரூ - ஹெ)	1.38
4. பகுதி	P	12. பரப்பு (ஹெக்டேர் - ஏர்)	1 - 21.24
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த தீர்வை (ரூ - பை)	1.67
6. நிலத்தின் வகை	பஞ்சை	14. பட்டா எண்	3984
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இரு போகமா	1	16. பெயர்	1.செந்தில்குமார்

குறிப்பு:



மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து
1. பெறப்பட்டவை. இவற்றை தாங்கள் <https://eservices.tn.gov.in> என்ற இணைய
தளத்தில் 14/07/018/511/2/50814 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி
செய்துகொள்ளவும்.

UK

அ-பதிவேடு விவரங்கள் - ஊரகம்



மாவட்டம் : கருர்
வட்டம் : புகழூர்
கிராமம் : குப்பம்

1. புல எண்	512	9. மண் வயனமும் ரகமும்	8 - 4
2. உட்பிரிவு எண்	2	10. மண் தரம்	6
3. பழைய புல உட்பிரிவு எண்	512--	11. தீர்வை (ரூ - ஹெ)	1.38
4. பகுதி	P	12. பரப்பு (ஹெக்டேர் - ஏர்)	1 - 27.53
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த தீர்வை (ரூ - பை)	1.76
6. நிலத்தின் வகை	பஞ்சை	14. பட்டா எண்	4560
7. பாசன ஆதாரம்	-	15. குறிப்பு	.
8. இரு போகமா	-	16. பெயர்	1.பெரியசாமி

குறிப்பு:



மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து
1.பெறப்பட்டவை. இவற்றை தாங்கள் <https://eservices.tn.gov.in> என்ற இணைய
தளத்தில் 14/07/018/512/2/50875 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி
செய்துகொள்ளவும்.

UK

ANNEXURE VII

239



भारतीय गैर न्यायिक INDIA NON JUDICIAL

एक हजार रुपये

ONE THOUSAND RUPEES

रु.1000

Rs.1000

INDIA

தமிழ்நாடு தமிழ்நாடு TAMILNADU ரூ 1000 — - 1 OCT 2024 BG 579481

MAHAGANAPATHI BLUE METAL
KARURR. RAMASAMY,
STAMP VENDOR
L.No:3861/83
D.M.COURT, KARUR.

கூட்டு வியாபார உடன்படிக்கைப் பத்திரம்

2024ம் ஆண்டு நவம்பர் மாதம் 1ம் தேதிக்கு கருர் மாவட்டம், மண்மங்கலம் தாலூக்கா, ஆண்டாங்கோவில் கீழ்பாகம் கிராமம், எழில் நகர், நம்பர் 2551 என்ற விலாசத்தில் இருக்கும், மரப்ப கவுண்டர் அவர்களின் குமார் மா.ஏகாம்பரம் -1 (வயது 61) கருர் மாவட்டம், மண்மங்கலம் தாலூக்கா, ஆண்டாங்கோவில் கீழ்பாகம் கிராமம், எழில் நகர், நம்பர் 2551 என்ற விலாசத்தில் இருக்கும் மா.ஏகாம்பரம் அவர்களின் மனைவி பி.திலகவதி -2 (வயது 60) கருர்

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மாவட்டம், மண்மங்கலம் தாலுக்கா, ஆண்டாங்கோவில் கீழ்பாகம் கிராமம், எழில் நகர், நம்பர் 2551 என்ற விலாசத்தில் இருக்கும் மா.ஏகாம்பரம் அவர்களின் குமாரத்தி ஈ.கிருத்திகா-3 (வயது 32) கருர் மாவட்டம், கருர் தாலுக்கா, செங்குந்தபுரம் போஸ்ட், திருநகர் முதல் தெரு, நம்பர் 41 என்ற விலாசத்தில் இருக்கும் ராஜசேகர் அவர்களின் குமாரர் ஆர்.நிமோஷ்ராஜ் -4 (வயது 29) ஆகிய நாம் 4 பேர்களும் சேர்ந்து எழுதிக்கொண்ட கூட்டு வியாபார உடன்படிக்கைப் பத்திரம்.

1. இப்பவும் நம்மில் 1 முதல் 4 வரை லக்கமிட்டவர்கள் 4 பேர்களும் மேலும் கருர் மாவட்டம், கருர் தாலுக்கா, வேலாயுதம்பாளையம் அஞ்சல், வள்ளுவர் நகர் 2வது தெரு, நம்பர் 102 என்ற விலாசத்தில் இருக்கும் சி.பெரியசாமி அவர்களின் மனைவி பி.மல்லிகா (வயது 64), கருர் மாவட்டம், கருர் தாலுக்கா, வேலாயுதம்பாளையம் அஞ்சல், வள்ளுவர் நகர் 2வது தெரு, நம்பர் 102 என்ற விலாசத்தில் இருக்கும் சின்னப்ப கவுண்டர் அவர்களின் குமாரர் சி.பெரியசாமி (வயது 71), கருர் மாவட்டம், கருர் தாலுக்கா, வேலாயுதம்பாளையம் அஞ்சல், கந்தம்பாளையம் என்ற விலாசத்தில் இருக்கும் பி.செல்வராஜ் அவர்களின் மனைவி எஸ்.ரதிதேவி (வயது 42), கருர் மாவட்டம், கருர் தாலுக்கா, வேலாயுதம்பாளையம் அஞ்சல், மாணிக்கநகர் என்ற விலாசத்தில் இருக்கும் பி.பெரியசாமி அவர்களின் குமாரர் பி.செந்தில்குமார் (வயது 48) ஆகிய நாம் 8 பேர்களும் சேர்ந்து 02.10.2024ம் தேதியிட்ட கூட்டு வியாபார உடன்படிக்கைப் பத்திரத்தின்படி கருர் மாவட்டம், கருர் தாலுக்கா, குப்பம் போஸ்ட், அரசம்பாளையம், எஸ்.எம்.நம்பர் 5101 என்ற இடத்தில் " மகாகணபதி புளூ மெட்டல் " " MAHAGANAPATHI BLUE METAL " என்ற விலாசம் வைத்து கருங்கல் ஜல்லிகளை இயந்திரம் மூலம் உடைத்து விற்பனை செய்யும் மற்றும் லாரி வாடகைக்கு விரும் தொழிலை ஆரம்பித்து கூட்டாக நடத்தி வந்ததில் நம்மில் பி.மல்லிகா, சி.பெரியசாமி, எஸ்.ரதிதேவி, பி.செந்தில்குமார் ஆகிய 4 பேர்களும் இக்கூட்டு வியாபாரத்தில் தொடர்ந்து கூட்டாளிகளாக இருந்துவர சௌகரியம் இல்லை என்று மற்ற கூட்டாளிகளுக்கு தெரிவித்தும் அதற்கு அவர்களும் சம்மதித்த வகையில் 31.10.2024ம் தேதியுடன் இக்கூட்டிலிருந்து விலகிக் கொண்டுவிட்டார்கள். பின்னிட்டு நம்மில் 1 முதல் 4 வரை லக்கமிட்டவர்கள் 4 பேர்களும் சேர்ந்து 01.11.2024ம் தேதிமுதல் கொண்டு மேற்படி வகையறா வியாபாரத்தை

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மேற்படி விலாசத்திலேயே தொடர்ந்து கூட்டாக நடத்தி வருகிறோம். இனியும் தொடர்ந்து கூட்டாக நடத்தி வருவோமாகவும் கூட்டாளிகள் விரும்பித் தீர்மானித்தால் மேற்படி பெயரை மாற்றி அமைத்துக்கொள்ளவோ அல்லது வேறு இடங்களுக்கு மாற்றவோ செய்யலாம்.

2. இக்கூட்டின் சார்பில் இதுதவிர வேறு எந்த வியாபாரம் வேண்டுமானாலும் கூட்டாளிகள் விரும்பித் தீர்மானித்தால் இதே பெயரிலேயே இதே விலாசத்திலேயே செய்து வரலாம்.

3. இக்கூட்டின் அபிவிருத்தியை முன்னிட்டு நம் கூட்டாளிகள் உள்ளூரிலும் வெளியூர்களிலும் கிளைகள் துவங்கி நடத்தி வரலாம்.

4. இந்தக்கூட்டு வியாபார உடன்படிக்கைப் பத்திரத்தின் ஊர்த்துக்கள் 01.11.2024ம் தேதிமுதல் கொண்டு அமுலுக்கு வந்ததாக கருதவேண்டியது.

5. இக்கூட்டு வியாபாரத்திற்காக நம்மில் 1 முதல் 4 வரை லக்கமிட்டவர்களின் முதலீட்டுக் கணக்குகளில் ஏற்கனவே வரவாக உள்ள தொகைகளை அவரவர் முதலீட்டுத் தொகையாக கருதிக்கொள்ள வேண்டியது. கூட்டாளிகள் விரும்பித் தீர்மானித்தால் மேற்படி முதலீட்டுத் தொகைகளை கூட்டியோ அல்லது குறைத்தோ வைத்துக் கொள்ளலாம். கூட்டின் அபிவிருத்தியை முன்னிட்டு நம் கூட்டாளிகள் யார் வேண்டுமானாலும் கடன் வாங்கி நிறுவனத்திற்கு கொடுக்கலாம். அவ்வித கடன்களை கூட்டாளிகளின் கடன் அல்லது நடப்பு கணக்குகளில் வரவு வைத்துக்கொள்ள வேண்டியது. மேற்படி முதலீடு மற்றும் கடன் அல்லது நடப்பு கணக்குகளிலும் கூட்டாளிகளின் இதர கணக்குகளிலும் பற்று நீக்கி வரவாக உள்ள தொகைகளுக்கு கூட்டாளிகள் வருடம் ஒன்றுக்கு அதிகப்பட்சமாக 12% வரை வட்டி போட்டு பொதுவில் செலவு எழுதிக்கொள்ள வேண்டியது. கூட்டாளிகள் விரும்பித் தீர்மானித்தால் மேற்படி வட்டி விகிதத்தை குறைத்து வட்டி போட்டு செலவு எழுதிக் கொள்ளலாம். அதேபோல் கூட்டாளிகள் விரும்பித் தீர்மானித்தால் கூட்டாளிகளின் கடன் மற்றும் நடப்பு கணக்குகளில் வரவாக இருக்கும் தொகைகளை கணக்கில் எடுத்துக்கொள்ளாமல் முதலீட்டுக் கணக்கில் மட்டும் வரவாக இருக்கும் தொகைக்கு அதிகப்பட்சமாக 12%

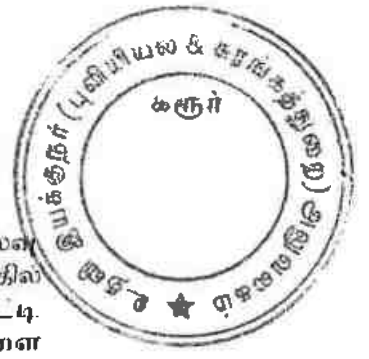
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வரையிலோ அல்லது குறைத்தோ வட்டி போட்டு செலவு எழுதிக் கொள்ளலாம். அதேபோல் வருமானவரி சட்டத்தில் கூட்டாளிகளின் முதலீட்டு கணக்கிற்கு உண்டான வட்டி விகிதத்தில் அவ்வப்போது கொண்டு வரப்படும் மாற்றங்களை அனுசரித்தும் மேற்படி வட்டி விகிதத்தை கூட்டியோ அல்லது குறைத்தோ போட்டு செலவு எழுதிக் கொள்ளலாம்.

6. இக்கூட்டு வியாபாரத்திற்காக நம்மில் 1 லக்கமிட்ட மா.ஏகாம்பரம், 2 லக்கமிட்ட பி.திலகவதி, 3 லக்கமிட்ட ஈ.கிருத்திகா, 4 லக்கமிட்ட ஆர்.நிமோஷ்ராஜ் ஆகிய 4 பேர்களும் உழைக்கும் கூட்டாளிகளாக இருந்துவர வேண்டியது. மேற்படி 4 பேர்களும் இக்கூட்டின் வியாபாரத்தையும் அன்றாட நிர்வாக காரியங்களையும் இக்கூட்டின் வளர்ச்சிக்காக நன்கு கவனித்து நடத்தி வரவேண்டியது. மேற்படி காரியங்களுக்காக மேற்படி உழைக்கும் கூட்டாளிகள் சம்பளம், போனஸ் முதலியவை போட்டு எடுத்துக் கொள்ள வேண்டியது. மேற்படி உழைக்கும் கூட்டாளிகள் 1, 2, 3, 4 லக்கமிட்டவர்களுக்கு தற்பொழுது மாத ஊதியமாக தலா ரூ.2,500/-ம் மேற்படி உழைக்கும் கூட்டாளிகள் ஒவ்வொருவருக்கும் குறைந்த பட்சம் இரண்டு மாத ஊதியம் போனஸாகவும் கொடுத்து பொதுவில் செலவு எழுதிக் கொள்ள வேண்டியது. மேலும் நம் அனைவரின் ஏகோபித்த சம்மதத்தின் பேரில் மேற்படி உழைக்கும் கூட்டாளிகளின் ஊதியம் மற்றும் போனஸை கூட்டியோ அல்லது குறைத்தோ எடுத்துக் கொள்ளலாம்.

7. இக்கூட்டு வியாபாரத்திற்காக நம்மில் 1 லக்கமிட்ட மா.ஏகாம்பரம், 2 லக்கமிட்ட பி.திலகவதி, 3 லக்கமிட்ட ஈ.கிருத்திகா, 4 லக்கமிட்ட ஆர்.நிமோஷ்ராஜ் ஆகிய 4 பேர்களும் மேனேஜிங் பார்ட்னர்களாக இருந்துவர வேண்டியது. மேற்படி 4 பேர்களும் இக்கூட்டு வியாபாரத்தின் சகலநிர்வாக காரியங்களையும் நன்கு கவனித்து நடத்தி வரவேண்டியது.

8. இக்கூட்டு வியாபாரத்திற்காக நம் கூட்டாளிகள் வெளிநபர்களிடம் கடன்கள் வாங்க நேரிட்டால் அப்படி வாங்கும் கடன் தொகைகளை இக்கூட்டு விலாசத்தின் பெயரிலேயே வாங்கி கூட்டின் கணக்குகளில் உடனுக்குடன் வரவு வைத்துக்கொள்ள வேண்டியது. புரோதோட்டுகளில் கையெழுத்திட்டு கடன்கள் வாங்க நம்மில் 1 லக்கமிட்ட

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மா.ஏகாம்பரம், 2 லக்கமிட்ட பி.திலகவதி, 3 லக்கமிட்ட
ஈ.கிருத்திகா, 4 லக்கமிட்ட ஆர்.நிமோஷராஜ் ஆகிய 4
பேர்களும் தனித்தனியே கையொழுத்து செய்து ஸங்க
இதன்மூலம் பூரண அதிகாரம் வழங்கப்படுகிறது.

9. இக்கட்டி வியாபாரத்தின் சார்பாக பேங்குகளில் கரண்ட் அக்கௌண்ட், ஓவர் டிராப்ட், கேஷ் கிரடிட், பில்ஸ் டிஸ்கவுண்ட் முதலிய கணக்குகள் வைக்கவும் செக்குகளில் கையெழுத்து செய்து அவற்றை ஆப்ரேட் செய்யவும் நம்மில் 1 லக்கமிட்ட மா.ஏகாம்பரம், 2 லக்கமிட்ட பி.திலகவதி, 3 லக்கமிட்ட ஈ.திருத்திகா, 4 லக்கமிட்ட ஆர்.நிமோஜ்ராஜ் ஆகிய 4 பேர்களும் தனித்தனியே கையெழுத்து செய்து வாங்க இதன்மூலம் பூரண அதிகாரம் வழங்கப்படுகிறது.

10. இந்த கூட்டு நிறுவனத்தின் பெயரில் இந்த கூட்டு நிறுவனத்தின் சார்பாக அசையும், அசையா சொத்துக்களை கிரையம் பெறவும், விற்பனை செய்யவும், அடமானம், போக்கியம், பிழைதிருத்தல், குத்தகை, வாடகை, பரிவர்த்தனை, ஆவண ஒப்படைப்பு (DEPOSIT OF TITLE DEEDS) போன்ற பத்திரங்களும் மற்றும் வேறு ஆவணங்கள் எழுதிக்கொடுக்கவும், எழுதிபெறவும் நம்மில் நம்மில் 1 லக்கமிட்ட மா.ஏகாம்பரம், 2 லக்கமிட்ட பி.திலகவதி, 3 லக்கமிட்ட ஈ.கிருத்திகா, 4 லக்கமிட்ட ஆர்.நிமோஜீராஜ் ஆகிய 4 பேர்களும் தனித்தனியே கையெழுத்து செய்து வாங்க இதன்மூலம் பூரண அதிகாரம் வழங்கப்படுகிறது.

11. இக்கூட்டு வியாபாரம் சம்பந்தமாக வெளிநபர்களுடன் தொடர்பு கொள்ளவும் தேவையான காண்டிராக்ட்களை ஏற்படுத்திக் கொள்ளவும் மற்றும் அரசு ஒப்பந்த பத்திரங்கள் ஆகியவைகளில் கையெழுத்து செய்யவும் நம்மில் 1 லக்கமிட்ட மா.ஏகாம்பரம், 2 லக்கமிட்ட பி.திலகவதி, 3 லக்கமிட்ட ஈ.கிருத்திகா, 4 லக்கமிட்ட ஆர்.நிமோஜ்ராஜ் ஆகிய 4 பேர்களும் தனித்தனியே கையெழுத்து செய்ய இதன்மூலம் புரண அதிகாரம் வழங்கப்படுகிறது.

12. இக்கூட்டின் சார்பில் வரும் ரிஜிஸ்தர் தபால்கள், தந்தி, மணியார்டர்கள் லாரியில், ரயில்வே பாஸ்களில் கையெழுத்து செய்து வாங்கவும் மேலும் இக்கூட்டின் நிமித்தம் ஏதேனும் சிவில் கிரிமினல் வழக்குகள் ஏற்பட்டால்

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13 ~~A. KILL~~

2 P. Dilegovich

4 R. nd ly

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சம்பந்தப்பட்ட கோட்டாவில் இக்கூட்டின் சார்பாக தாயாகவோ அல்லது வகைக்களை நியமித்து அளவின் ஐயமாகவோ ஒன்றாக அளவித வழக்குகளை நடத்தவும் அரசு செய்து கொள்ளவும், பைசல் செய்து கொள்ளவும் மற்றும் மத்திய மாதில் அரசு அலுவலகங்களில் இக்கூட்டின் சார்பாக காரியங்களை கவனிக்கவும் இக்கூட்டு வியாபாரம் சம்பந்தப்பட்ட மற்ற சகலநிவாக காரியங்களையும் கவனித்து நடத்தவும் நம்மில் 1 லக்கமிட்ட மாகையார்பார், 2 லக்கமிட்ட பித்தலகவதி, 3 லக்கமிட்ட சுகிருத்திகா, 4 லக்கமிட்ட ஆத்தியோய்யாஜ் ஆகிய 4 பேர்களும் தனித்தனியே கையெழுத்து செய்து வாங்க இதன்மூலம் புரண அதிகாரம் வழங்கப்படுகிறது.

13. இக்கூட்டு வியாபாரமானது நம் கூட்டாளிகள் அனைவரும் விரும்பும் காலம் வரையில் அதாவது பாட்டனாஸிப் அடவிலலாக தொடர்ந்து நடந்து வரத்தக்கது.

14. இனி இக்கூட்டின் கணக்குகளை பிரதிவருடம் மார்க் மாதக் கடைசியிலோ அல்லது கூட்டாளிகள் அனைவரும் விரும்பித் தீர்மானிக்கும் இது காலங்களிலோ இக்கூட்டின் கணக்கை கட்டி கூட்டு வியாபாரம் சம்பந்தப்பட்ட சகல செலவுகளும் மேலும் கூட்டாளிகள் விரும்பித் தீர்மானித்து பொதுவில் எழுதக்கூடிய உழைக்கும் கூட்டாளிகளின் சம்பளம், போனஸ் மற்றும் கூட்டாளிகளின் முதலீட்டு கடன் கணக்குகளுக்கும் டான் வட்டி போன்ற சகலசெலவுகளும் போக பாக்கி ஏற்படும் லாபலோபத்தை நம் கூட்டாளிகள் 4 பேர்களும் சமமாக பிரித்துக்கொள்ள வேண்டியது.

15. நம்மில் யார் வேண்டுமானாலும் தனியாகவோ அல்லது வேறு நபர்களுடன் கூட்டு சேர்ந்தோ வேறு எந்த வியாபாரம் வேண்டுமானாலும் செய்து வரலாம். ஆனால் அப்படி அவர்கள் செய்து வரும் வியாபாரத்திற்கும் அவற்றில் ஏற்படும் லாபலோபத்திற்கும் இக்கூட்டு வியாபாரத்திற்கும் யாதொருவிதமான சம்பந்தமும் பாத்தியமும் பின் தொடர்ச்சியும் கிடையாது.

16. நம்மில் யாரேனும் இக்கூட்டிலிருந்து விலக விரும்பினால் அவர் மற்ற கூட்டாளிகளுக்கு ஒரு மாத நவணை கண்டு எழுத்து மூலம் ஒரு நோட்டீஸ் கொடுக்க வேண்டியது. பின் அந்த தேதிவரையில் இக்கூட்டின் கணக்கை கட்டியோ அல்லது உத்தேசமாக லாபலோபத்தை தீர்ணயம் செய்தோ விலகும் அல்லது விலக்கப்படும்.

UK

3 E. S. S.

2 J. S. S.

A. R. S.

UK



கூட்டாளிக்கு அவர் கணக்குப்படி சேரவேண்டிய தொகையை கொடுத்துவிட்டோ அல்லது கொடுக்கத் தகுந்த ஏற்பாடுகளைச் செய்துவிட்டோ மற்ற கூட்டாளிகள் தாமதவோ அல்லவோ வேறு நபர்களை சேர்த்துக்கொண்டோ இக்கூட்டு வியாபாரத்தை மேற்படி இடத்தில் மேற்படி பெயரிலேயே தொடர்ந்து நடத்தி வரவேண்டியது.

17. நம்மில் யாரேனும் இக்கூட்டிலிருந்து விலகினாலும் அல்லது விலக்கப்பட்டாலும் அல்லது யாரேனும் காலமாகி விட்டாலும் இக்கூட்டு கலைந்ததாக கருதப்பட மாட்டாது.

18. விலகும் அல்லது விலக்கப்படும் கூட்டாளிக்கு இக்கூட்டு வியாபாரத்தின் குட்வில், தளவாட சாமான்கள், நிலம், கட்டிட வகையறாக்கள், கிரசர் நிலங்கள் அசையும், அசையா சொத்துக்கள் மற்றுமுள்ள சகலவிதமான ஆஸ்திப்பொறுப்புகளில் யாதொருவிதமான சம்பந்தமும் பாத்தியமும் பின்தொடர்ச்சியும் கிடையாது. அவர் தன் முதலீடு மற்றும் இதர கணக்கில் வரவாக உள்ள தொகையை மட்டும் பெற்றுக்கொண்டு விலகிக் கொள்ள வேண்டியது.

19. நம்மில் யாரேனும் இக்கூட்டின் வளர்ச்சிக்குத் தடையாகவோ அல்லது இக்கூட்டிற்கு விரோதமாகவோ நடந்து கொண்டால் மற்ற மெஜாரிட்டி கூட்டாளிகள் விரும்பினால் மேற்படி கூட்டாளியை இக்கூட்டிலிருந்து விலக்கிவிடலாம்.

20. இக்கூட்டு வியாபார உடன்படிக்கைப் பத்திரத்தின் ஷரத்துக்களை தேவைப்பட்டால் திருத்தி அமைக்கவோ அல்லது மாற்றி அமைக்கவோ செய்யலாம். அதற்கு ஒரு பத்திரம் எழுதிக்கொண்டு அதனை இதன் துணைப்பத்திரமாக (CODICIL) பாவித்து அதன்படி நடந்து கொள்ளவேண்டியது.

21. நம் கூட்டாளிகள் அனைவரும் இதில் கண்டிராத மற்ற விஷயங்களைப் பொறுத்தமட்டில் நாம் 1932ம் ஆண்டின் "இந்தியன் பார்டனர்ஸிப் ஆக்ட்" ஐ அனுசரித்து நடந்து கொள்ளவேண்டியது.

இப்படிக்கு நம் கூட்டாளிகள் 4 பேர்களும் சேர்ந்து எழுதிக்கொண்ட கூட்டு வியாபார உடன்படிக்கைப் பத்திரம்.

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சாட்சிகள்

1.

A. PANNEERSELVAN S/o R. VEJUNAN
86/92 East St. Vengal
P. VELUPILLAI PRABHAKARAN

2.

R. V. RAMASAMY, No 182 P13,
Valluvu, Puthur, Paramathi velu Narakkattu



Government of India

Form GST REG-06

[See Rule 10(1)]

Registration Certificate

Registration Number : 33AATFM1657Q1ZI



1.	Legal Name	MAHAGANAPATHI BLUE METAL			
2.	Trade Name, if any	MAHAGANAPATHI BLUE METAL			
3.	Additional trade names, if any				
4.	Constitution of Business	Partnership			
5.	Address of Principal Place of Business	Building No./Flat No.: 510/1 Road/Street: KUPPAM VILLAGE, KUPPAM POST, ARAVAKURICHI TK City/Town/Village: KARUR District: Karur State: Tamil Nadu PIN Code: 639111			
6.	Date of Liability	01/07/2017			
7.	Date of Validity	From	01/07/2017	To	Not Applicable
8.	Type of Registration	Regular			
9.	Particulars of Approving				

Signature

Signature valid

Digitally signed by GST REG-06
AND SERVICES TAX
NETWORK
Date: 2025.02.20 00:46:09 IST

Name	
Designation	
Jurisdictional Office	
Date of issue of Certificate	20/02/2025

Note: The registration certificate is required to be prominently displayed at all places of Business/Office(s) in the State.

This is a system generated digitally signed Registration Certificate issued based on the deemed approval of application on 20/02/2025 .

Handwritten signature



सत्यमेव जयते



Goods and Services Tax Identification Number: 33AATFM1657Q12I

Details of Additional Place of Business(s)

Legal Name MAHAGANAPATHI BLUE METAL
Trade Name, if any MAHAGANAPATHI BLUE METAL
Additional trade names, if any

Total Number of Additional Places of Business(s) in the State 0

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Goods and Services Tax Identification Number: 33AATFM1657Q1ZI

Legal Name MAHAGANAPATHI BLUE METAL

Trade Name, if any MAHAGANAPATHI BLUE METAL

Additional trade names, if any

Details of Managing / Authorized Partners

1		Name	MARAPPAN EKAMBARAM
		Designation/Status	Partner
		Resident of State	Tamil Nadu
2		Name	PALANISAMY THILAGAVATHI
		Designation/Status	Partner
		Resident of State	Tamil Nadu
3		Name	NIMOSHRAJ RAJASEKAR
		Designation/Status	Partner
		Resident of State	Tamil Nadu
4		Name	EKAMBARAM KIRUTHIKA
		Designation/Status	Partner
		Resident of State	Tamil Nadu

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FORM A

(See rule 5)

REGISTER OF FIRMS

(Maintained under Section 59 of the Indian Partnership Act, 1932)

1. Serial number of Firm : FR/Karur/506/2011
2. Name of Firm : MAHAGANAPATHI BLUE METAL
3. Date of Registration : 07-Oct-2011
4. Duration of the Firm : At Will
5. Address

Address	Date of change	Remarks
SF.NO.510/1, ARASAMPALAYAM, KUPPAM POST, KARUR TALUK& DIST, KARUR, Karur, Karur, Tamil Nadu, India, 639002		

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6. Partners

Name of the Partners	Address	Date of Joining	Date of Ceasing	Remarks
P.MALLIKA	10/2 VALLUVAR NAGAR 2ND STREET, VELAYUTHAMPALAYAM POST, KARUR, Tamil Nadu, India	26-Aug- 2011	31-Oct- 2024	
C.PERIYASAMY	10/2 VALLUVAR NAGAR 2ND STREET VELAYUTHAMPALAYAM, KARUR, Tamil Nadu, India	26-Aug- 2011	31-Oct- 2024	
S.RATHIDEVI	KANTHAMPALAYAM, VELAYUTHAMPALAYAM POST,KARUR, Tamil Nadu, India	26-Aug- 2011	31-Oct- 2024	
P.SENTHILKUMAR	MANICKANAGAR,VELAYUTHAMPALAYAM POST,KARUR, Tamil Nadu, India	26-Aug- 2011	31-Oct- 2024	
P THILAGAVATHI	2/551,EZHIL NAGAR, ANDANKOIL (EAST), Manmangalam, Karur, Tamil Nadu, India, 639001	02-Oct- 2024		
E KIRUTHIKA	2/551,EZHIL NAGAR, ANDANKOIL (EAST), Manmangalam, Karur, Tamil Nadu, India, 639001	02-Oct- 2024		
M EKAMBARAM	2/551,EZHIL NAGAR,, ANDANKOIL (EAST), Manmangalam, Karur, Tamil Nadu, India, 639001	02-Oct- 2024		
R NIMOSHRAJ	NO.4/1,THIRUNAGAR 1ST STREET,SENGUNTHAPURAM, KARUR, Karur, Karur, Tamil Nadu, India, 639002	02-Oct- 2024		

7. Alteration in Partners : -

8. Principal places of business and changes therein :

Address	Date of change	Remarks
SF.NO.510/1, ARASAMPALAYAM, KUPPAM POST, KARUR TALUK& DIST, KARUR, Karur, Karur, Tamil Nadu, India, 639002		

9. Change in Firm Name : -

10. Other place of business : -

11. Change in Branch Details : -

Name of Firm : MAHAGANAPATHI BLUE METAL

12. Application Request List

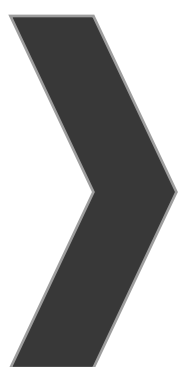
Sr. No	Description of Document	Date of Filing	Signature of Registrar or Authorised Officer
1	Annual Filing (Period: 2018-2019)	12-Feb-2020	Digitally signed by : chinnaraj venkatachalam
2	Annual Filing (Period: 2019-2020)	23-Jun-2020	Digitally signed by : chinnaraj venkatachalam
3	Annual Filing (Period: 2020-2021)	11-Aug-2021	Digitally signed by : baskaran joseph
4	Annual Filing (Period: 2021-2022)	01-Jul-2022	Digitally signed by : Kumar R
5	Annual Filing (Period: 2023-2024)	10-Jul-2024	Digitally signed by : Kumar R
6	Change In Constitution Of Firm	29-Jan-2025	Digitally signed by : Kumar R
7	Change In Constitution Of Firm	05-Feb-2025	Digitally signed by : Kumar R

Username : FRG_20032_506_2011



10/2
Registrar of Firms,
KARUR.

14



ANNEXURE-7



Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/1537	Report Date.	17.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1537	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	µg/m ³	66.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	32.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd


Verified




Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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Please Contact:

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TEST REPORT

Report No.	SARL/25/1538	Report Date.	17.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1538	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	µg/m ³	53.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1539	Report Date.	17.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1539	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	µg/m ³	70.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	33.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1540	Report Date.	17.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1540	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	µg/m ³	50.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	24.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1541	Report Date.	17.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1541	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	µg/m ³	48.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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END OF THE REPORT


Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / **GST No :** 33AAYCS7325R1ZA / **PAN No:** AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1542	Report Date.	17.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

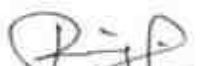
Sample Location	A4-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1542	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	µg/m ³	58.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	29.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1543	Report Date.	17.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

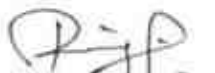
Sample Location	A3-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1543	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	µg/m ³	49.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1544	Report Date.	17.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1544	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	µg/m ³	54.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	26.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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S. BALAMURUGAN
Asst. Technical Manager

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Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1545	Report Date.	17.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvallankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1545	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	43.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	20.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1546	Report Date.	17.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1546	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	µg/m ³	47.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1547	Report Date.	17.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1547	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	µg/m ³	42.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	20.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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/25/1548	Report Date.	17.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

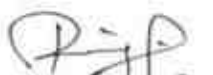
Sample Location	A5-Thiruvankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1548	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	µg/m ³	46.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1549	Report Date.	17.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

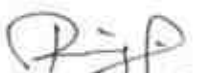
Sample Location	A6-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1549	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	µg/m ³	50.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.9	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	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

For Shrient Analytical and Research Labs Pvt. Ltd


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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1550	Report Date.	17.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

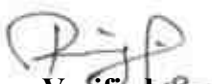
Sample Location	A7-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1550	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	µg/m ³	44.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	6.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/1565	Report Date.	24.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvallankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1565	Sample Received on	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	µg/m ³	41.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	19.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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TEST REPORT

Report No.	SARL/25/1566	Report Date.	24.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1566	Sample Received on	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	µg/m ³	52.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1567	Report Date.	24.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

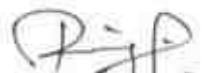
Sample Location	A7-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1567	Sample Received on	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	µg/m ³	46.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd


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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1568	Report Date.	24.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1568	Sample Received on	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	µg/m ³	44.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1569	Report Date.	24.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1569	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	µg/m ³	48.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	6.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1570	Report Date.	24.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1570	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	µg/m ³	44.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	6.5	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/25/1571	Report Date.	24.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1571	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	µg/m ³	45.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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TEST REPORT

Report No.	SARL/25/1572	Report Date.	24.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1572	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	µg/m ³	55.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	26.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1573	Report Date.	24.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1573	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	µg/m ³	49.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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/25/1574	Report Date.	24.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

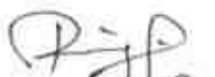
Sample Location	A4-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1574	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	µg/m ³	52.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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/25/1575	Report Date.	24.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1575	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	µg/m ³	65.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	31.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1576	Report Date.	24.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1576	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	µg/m ³	57.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	27.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/1577	Report Date.	24.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

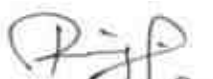
Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1577	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	µg/m ³	52.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.3	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

For Shrient Analytical and Research Labs Pvt. Ltd


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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / **GST No :** 33AAYCS7325R1ZA / **PAN No:** AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1578	Report Date.	24.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

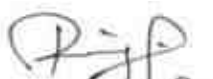
Sample Location	A2-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1578	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	µg/m ³	52.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / **GST No :** 33AAYCS7325R1ZA / **PAN No:** AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1593	Report Date.	31.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1593	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	µg/m ³	59.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	28.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL(D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1594	Report Date.	31.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1594	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	µg/m ³	58.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	28.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1595	Report Date.	31.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1595	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	µg/m ³	64.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	30.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1596	Report Date.	31.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

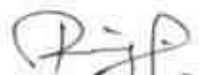
Sample Location	A2-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1596	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	µg/m ³	54.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	26.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1597	Report Date.	31.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1597	Sample Received on	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	µg/m ³	46.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1598	Report Date.	31.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1598	Sample Received on	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	µg/m ³	48.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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416/15, DhargasRoad, West Tambaram, Chennai- 600045
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TEST REPORT

Report No.	SARL/25/1599	Report Date.	31.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

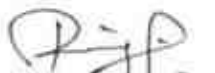
Sample Location	A3-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1599	Sample Received on	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	µg/m ³	45.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1600	Report Date.	31.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1600	Sample Received on	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	µg/m ³	52.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1601	Report Date.	31.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvallankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1601	Sample Received on	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	µg/m ³	48.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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S. BALAMURUGAN
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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1602	Report Date.	31.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1602	Sample Received on	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	µg/m ³	50.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.7	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	6.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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Report No.	SARL/25/1603	Report Date.	31.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1603	Sample Received on	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	µg/m ³	42.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	20.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	6.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

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/25/1604	Report Date.	31.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvallankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1604	Sample Received on	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	µg/m ³	42.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	20.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1605	Report Date.	31.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1605	Sample Received on	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	µg/m ³	46.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	5.8	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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S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / **GST No :** 33AAYCS7325R1ZA / **PAN No:** AAYCS7325R



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416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1606	Report Date.	31.03.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1606	Sample Received on	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	µg/m ³	44.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	6.6	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

Please Contact:

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416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/1621	Report Date.	07.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvallankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1621	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	µg/m ³	40.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	19.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1622	Report Date.	07.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1622	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	µg/m ³	44.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	5.4	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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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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416/15, DhargasRoad, West Tambaram, Chennai- 600045
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TEST REPORT

Report No.	SARL/25/1623	Report Date.	07.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1623	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	µg/m ³	51.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	24.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1624	Report Date.	07.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvallankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1624	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	µg/m ³	43.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	20.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.9	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

For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/1625	Report Date.	07.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1625	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	µg/m ³	48.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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/25/1626	Report Date.	07.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1626	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	µg/m ³	48.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/1627	Report Date.	07.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1627	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	µg/m ³	48.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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/25/1628	Report Date.	07.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1628	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	µg/m ³	47.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1629	Report Date.	07.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1629	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	µg/m ³	46.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


Verified




Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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416/15, DhargasRoad, West Tambaram, Chennai- 600045
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TEST REPORT

Report No.	SARL/25/1630	Report Date.	07.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1630	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	µg/m ³	50.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1631	Report Date.	07.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1631	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	µg/m ³	72.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	35.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1632	Report Date.	07.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1632	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	µg/m ³	49.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/1633	Report Date.	07.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1633	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	µg/m ³	68.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	32.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

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/25/1634	Report Date.	07.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1634	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	µg/m ³	46.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.7	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

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/25/1649	Report Date.	14.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1649	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	µg/m ³	55.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	26.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL(D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/1650	Report Date.	14.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1650	Sample Received on	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	µg/m ³	57.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	27.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1651	Report Date.	14.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1651	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	µg/m ³	60.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	29.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1652	Report Date.	14.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

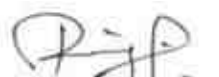
Sample Location	A2-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1652	Sample Received on	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	µg/m ³	55.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	26.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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S. BALAMURUGAN
Asst. Technical Manager

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416/15, DhargasRoad, West Tambaram, Chennai- 600045
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TEST REPORT

Report No.	SARL/25/1653	Report Date.	14.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1653	Sample Received on	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	µg/m ³	49.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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416/15, DhargasRoad, West Tambaram, Chennai- 600045
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TEST REPORT

Report No.	SARL/25/1654	Report Date.	14.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

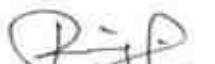
Sample Location	A4-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1654	Sample Received on	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		

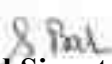
S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	µg/m ³	57.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	27.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1655	Report Date.	14.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1655	Sample Received on	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	µg/m ³	46.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1656	Report Date.	14.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1656	Sample Received on	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	µg/m ³	49.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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/25/1657	Report Date.	14.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvallankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1657	Sample Received on	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	µg/m ³	42.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	19.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	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/25/1658	Report Date.	14.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1658	Sample Received on	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	µg/m ³	43.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	20.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	5.2	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/25/1659	Report Date.	14.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1659	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	µg/m ³	42.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	20.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	6.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/1660	Report Date.	14.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1660	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	µg/m ³	47.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1661	Report Date.	14.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1661	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	µg/m ³	46.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1662	Report Date.	14.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

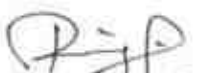
Sample Location	A7-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1662	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	µg/m ³	45.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd


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S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1677	Report Date.	21.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1677	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	µg/m ³	40.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	19.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1678	Report Date.	21.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1678	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	µg/m ³	49.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	6.5	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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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1679	Report Date.	21.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1679	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	µg/m ³	48.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.9	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/25/1680	Report Date.	21.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1680	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	µg/m ³	44.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1681	Report Date.	21.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1681	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	µg/m ³	45.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	5.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1682	Report Date.	21.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1682	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	µg/m ³	49.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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Report No.	SARL/25/1683	Report Date.	21.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1683	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	µg/m ³	45.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	20.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / **GST No :** 33AAYCS7325R1ZA / **PAN No:** AAYCS7325R



Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1684	Report Date.	21.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1684	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	µg/m ³	56.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	27.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai- 600045
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TEST REPORT

Report No.	SARL/25/1685	Report Date.	21.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1685	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	µg/m ³	47.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1686	Report Date.	21.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

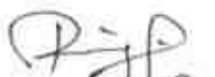
Sample Location	A4-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1686	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	µg/m ³	53.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1687	Report Date.	21.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1687	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	µg/m ³	53.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1688	Report Date.	21.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1688	Sample Received on	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	µg/m ³	46.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.1	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	7.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/1689	Report Date.	21.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1689	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	µg/m ³	59.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	28.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/1690	Report Date.	21.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1690	Sample Received on	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	µg/m ³	50.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	24.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/1705	Report Date.	28.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1705	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	µg/m ³	66.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	31.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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/25/1706	Report Date.	28.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1706	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	µg/m ³	53.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1707	Report Date.	28.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1707	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	µg/m ³	71.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	34.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1708	Report Date.	28.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

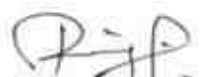
Sample Location	A2-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1708	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	µg/m ³	56.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	27.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1709	Report Date.	28.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1709	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	µg/m ³	50.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	8.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/1710	Report Date.	28.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

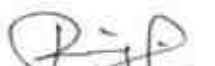
Sample Location	A4-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1710	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	µg/m ³	47.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd


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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1711	Report Date.	28.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

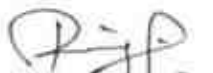
Sample Location	A3-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1711	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	µg/m ³	46.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1712	Report Date.	28.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1712	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	µg/m ³	50.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1713	Report Date.	28.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvallankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1713	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	µg/m ³	48.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1714	Report Date.	28.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1714	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	µg/m ³	44.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	20.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	5.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/1715	Report Date.	28.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1715	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	µg/m ³	41.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	19.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd


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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / **GST No :** 33AAYCS7325R1ZA / **PAN No:** AAYCS7325R



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416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1716	Report Date.	28.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

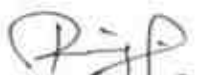
Sample Location	A5-Thiruvankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1716	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	µg/m ³	46.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1717	Report Date.	28.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1717	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	µg/m ³	46.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	5.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1718	Report Date.	28.04.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1718	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	µg/m ³	45.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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/25/1733	Report Date.	05.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvallankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1733	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	µg/m ³	48.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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/25/1734	Report Date.	05.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1734	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	µg/m ³	47.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1735	Report Date.	05.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1735	Sample Received on	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	µg/m ³	52.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1736	Report Date.	05.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1736	Sample Received on	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	µg/m ³	44.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory

S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1737	Report Date.	05.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1737	Sample Received on	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	µg/m ³	52.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	24.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1738	Report Date.	05.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1738	Sample Received on	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	µg/m ³	49.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1739	Report Date.	05.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1739	Sample Received on	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	µg/m ³	54.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	8.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/1740	Report Date.	05.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1740	Sample Received on	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	µg/m ³	57.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	27.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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/25/1741	Report Date.	05.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1741	Sample Received on	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	µg/m ³	53.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	24.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	8.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1742	Report Date.	05.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1742	Sample Received on	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	µg/m ³	54.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	26.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1743	Report Date.	05.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

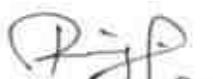
Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1743	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	µg/m ³	57.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	27.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1744	Report Date.	05.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1744	Sample Received on	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	µg/m ³	49.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/1745	Report Date.	05.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1745	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	µg/m ³	62.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	30.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/1746	Report Date.	05.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1746	Sample Received on	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	µg/m ³	47.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1761	Report Date.	12.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1761	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	29.04.2025	Test Completed on	12.05.2025
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	µg/m ³	68.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	32.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL(D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1762	Report Date.	12.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1762	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	29.04.2025	Test Completed on	12.05.2025
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	µg/m ³	47.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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
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416/15, DhargasRoad, West Tambaram, Chennai- 600045
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TEST REPORT

Report No.	SARL/25/1763	Report Date.	12.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1763	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	30.04.2025	Test Completed on	12.05.2025
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	µg/m ³	74.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	35.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1764	Report Date.	12.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

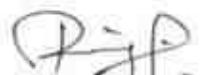
Sample Location	A2-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1764	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	30.04.2025	Test Completed on	12.05.2025
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	µg/m ³	51.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	24.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1765	Report Date.	12.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1765	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	01.05.2025	Test Completed on	12.05.2025
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	µg/m ³	48.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1766	Report Date.	12.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

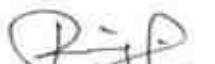
Sample Location	A4-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1766	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	01.05.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

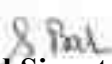
S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	µg/m ³	57.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	28.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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/25/1767	Report Date.	12.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1767	Sample Received on	05.05.2025
Sample Collected by	02.05.2025	Test Commenced on	05.05.2025
Sample Collected on	18.04.2025	Test Completed on	12.05.2025
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	µg/m ³	49.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst. Technical Manager

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

TEST REPORT

Report No.	SARL/25/1768	Report Date.	12.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1768	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	02.05.2025	Test Completed on	12.05.2025
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	µg/m ³	54.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	26.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

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/25/1769	Report Date.	12.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvallankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1769	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	03.05.2025	Test Completed on	12.05.2025
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	µg/m ³	50.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	24.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

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/25/1770	Report Date.	12.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1770	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	03.05.2025	Test Completed on	12.05.2025
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	µg/m ³	54.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	26.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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TEST REPORT

Report No.	SARL/25/1771	Report Date.	12.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1771	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	03.05.2025	Test Completed on	12.05.2025
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	µg/m ³	43.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	20.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	6.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1772	Report Date.	12.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

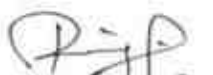
Sample Location	A5-Thiruvankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1772	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	04.05.2025	Test Completed on	12.05.2025
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	µg/m ³	46.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/1773	Report Date.	12.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

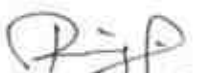
Sample Location	A6-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1773	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	04.05.2025	Test Completed on	12.05.2025
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	µg/m ³	45.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	5.5	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/25/1774	Report Date.	12.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1774	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	04.05.2025	Test Completed on	12.05.2025
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	µg/m ³	47.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/1789	Report Date.	19.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvallankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1789	Sample Received on	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	µg/m ³	41.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	19.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1790	Report Date.	19.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1790	Sample Received on	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	µg/m ³	56.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	26.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.0	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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/1791	Report Date.	19.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1791	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	µg/m ³	46.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1792	Report Date.	19.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1792	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	µg/m ³	45.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1793	Report Date.	19.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1793	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	µg/m ³	53.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd


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S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1794	Report Date.	19.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1794	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	µg/m ³	43.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	20.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1795	Report Date.	19.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1795	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	µg/m ³	47.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1796	Report Date.	19.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1796	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	µg/m ³	48.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1797	Report Date.	19.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1797	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	µg/m ³	50.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	8.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1798	Report Date.	19.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1798	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	µg/m ³	49.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1799	Report Date.	19.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1799	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	µg/m ³	69.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	33.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1800	Report Date.	19.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1800	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	µg/m ³	55.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	26.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1801	Report Date.	19.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1801	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	µg/m ³	58.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	27.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1802	Report Date.	19.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1802	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	µg/m ³	52.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
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TEST REPORT

Report No.	SARL/25/1817	Report Date.	26.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1817	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	µg/m ³	61.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	29.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL(D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/1818	Report Date.	26.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1818	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	µg/m ³	58.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	28.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	8.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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416/15, DhargasRoad, West Tambaram, Chennai- 600045
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TEST REPORT

Report No.	SARL/25/1819	Report Date.	26.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1819	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	µg/m ³	56.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	27.0	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	7.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1820	Report Date.	26.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

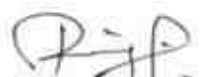
Sample Location	A2-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1820	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	µg/m ³	56.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	27.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1821	Report Date.	26.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1821	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	µg/m ³	55.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	26.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	8.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1822	Report Date.	26.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

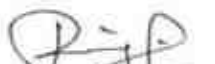
Sample Location	A4-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1822	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		

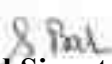
S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	µg/m ³	47.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	21.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1823	Report Date.	26.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

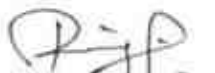
Sample Location	A3-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1823	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	µg/m ³	51.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	24.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	8.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1824	Report Date.	26.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1824	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	µg/m ³	51.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	24.7	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	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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S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1825	Report Date.	26.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvallankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1825	Sample Received on	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	µg/m ³	45.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.0	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	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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S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/1826	Report Date.	26.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1826	Sample Received on	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	µg/m ³	49.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	6.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1827	Report Date.	26.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1827	Sample Received on	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	µg/m ³	47.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1828	Report Date.	26.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvallankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1828	Sample Received on	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	µg/m ³	42.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	20.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	4.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/1829	Report Date.	26.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1829	Sample Received on	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	µg/m ³	54.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd


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S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / **GST No :** 33AAYCS7325R1ZA / **PAN No:** AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1830	Report Date.	26.05.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

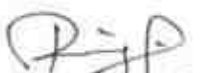
Sample Location	A7-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1830	Sample Received on	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	µg/m ³	50.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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416/15, DhargasRoad, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: -info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1845	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1845	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	µg/m ³	49.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	24.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1846	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1846	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	µg/m ³	53.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/1847	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1847	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	µg/m ³	48.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	23.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1848	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Thiruvankurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1848	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	µg/m ³	47.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

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Authorized Signatory

S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1849	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Therani village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1849	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	µg/m ³	55.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	26.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1850	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Karai West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1850	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	µg/m ³	46.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	22.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	5.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd

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Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1851	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1851	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	µg/m ³	54.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	8.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	10.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd


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Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1852	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1852	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	µg/m ³	56.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	27.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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TEST REPORT

Report No.	SARL/25/1853	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Nedungur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1853	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	µg/m ³	51.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	24.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	8.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1854	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1854	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	µg/m ³	53.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1855	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1855	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	µg/m ³	75.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	36.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1856	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1856	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	µg/m ³	54.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	25.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1857	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-1857	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	µg/m ³	72.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	34.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	7.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/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

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/25/1858	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. 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-Otathur village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1858	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	µg/m ³	51.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	µg/m ³	24.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	µg/m ³	6.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	µg/m ³	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1859

Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	WATER
Sample Mark	W1-Near Mine Lease Area

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-1859	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 24 th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 °C	APHA 24 th Edition 4500 – H+ B: 2023	-	8.01	6.50-8.50
4	Electrical Conductivity	APHA 24 th Edition 2510 B: 2023	(µS/cm)	509.3	-
B.	Chemical parameters				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	310	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	171	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	43.2	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	15.1	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	108	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	63.0	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	152	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	72.6	1000

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1859

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 (SO ₄ 2-)	APHA 24th Edition 4500 SO ₄ 2- E: 2023	mg/L	53.4	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.08	0.3
16	Nitrate (as NO ₃)	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	0.13	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/25/1860	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	WATER
Sample Mark	W2-Otathur village

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-1860	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 24 th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 °C	APHA 24 th Edition 4500 – H+ B: 2023	-	7.95	6.50-8.50
4	Electrical Conductivity	APHA 24 th Edition 2510 B: 2023	(µS/cm)	1656	-
B.	Chemical parameters				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1002	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	352	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	65.2	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	45.4	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	163	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	189	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	325	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	344	1000



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TEST REPORT

Report No.	SARL/25/1860

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 (SO ₄ 2-)	APHA 24th Edition 4500 SO ₄ 2- E: 2023	mg/L	272	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.15	0.3
16	Nitrate (as NO ₃)	IS 3025 (Part 34): 1988	mg/L	2.36	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.45	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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END OF THE REPORT


Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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

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TEST REPORT

Report No.	SARL/25/1861

Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	WATER
Sample Mark	W3-Nedungur village

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-1861	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 24 th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 °C	APHA 24 th Edition 4500 – H+ B: 2023	-	7.29	6.50-8.50
4	Electrical Conductivity	APHA 24 th Edition 2510 B: 2023	(µS/cm)	1964.0	-
B.	Chemical parameters				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1190	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	389	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	84.8	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	42.5	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	212	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	177	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	379	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	367	1000



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TEST REPORT

Report No.	SARL/25/1861

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 (SO ₄ 2-)	APHA 24th Edition 4500 SO ₄ 2- E: 2023	mg/L	345	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.12	0.3
16	Nitrate (as NO ₃)	IS 3025 (Part 34): 1988	mg/L	5.78	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.56	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd


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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1862

Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	WATER
Sample Mark	W4-Padalur Village

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-1862	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 24 th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 °C	APHA 24 th Edition 4500 – H+ B: 2023	-	8.11	6.50-8.50
4	Electrical Conductivity	APHA 24 th Edition 2510 B: 2023	(µS/cm)	2062.0	-
B.	Chemical parameters				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1250	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	422	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	98	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	42.5	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	245	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	177	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	397	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	382	1000



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TEST REPORT

Report No.	SARL/25/1862

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 (SO ₄ ²⁻)	APHA 24th Edition 4500 SO ₄ ²⁻ E: 2023	mg/L	358	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.14	0.3
16	Nitrate (as NO ₃)	IS 3025 (Part 34): 1988	mg/L	6.24	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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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1863

Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	WATER
Sample Mark	W5-Thiruvalankurichi Village

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-1863	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 24 th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 °C	APHA 24 th Edition 4500 – H+ B: 2023	-	7.56	6.50-8.50
4	Electrical Conductivity	APHA 24 th Edition 2510 B: 2023	(µS/cm)	1278.0	-
B.	Chemical parameters				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	780	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	232	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	58.4	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	20.6	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	146	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	86.0	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	258	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	242	1000



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TEST REPORT

Report No.	SARL/25/1863

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 (SO ₄ 2-)	APHA 24th Edition 4500 SO ₄ 2- E: 2023	mg/L	210	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.05	0.3
16	Nitrate (as NO ₃)	IS 3025 (Part 34): 1988	mg/L	4.62	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.39	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/25/1864	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	WATER
Sample Mark	W6-Therani village

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-1864	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 24 th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 °C	APHA 24 th Edition 4500 – H+ B: 2023	-	7.87	6.50-8.50
4	Electrical Conductivity	APHA 24 th Edition 2510 B: 2023	(µS/cm)	1975.0	-
B.	Chemical parameters				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1180	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	382	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	84	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	41.3	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	210	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	172	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	374	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	365	1000



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TEST REPORT

Report No.	SARL/25/1864

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 (SO ₄ 2-)	APHA 24th Edition 4500 SO ₄ 2- E: 2023	mg/L	342	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL(D.L-0.01)	0.3
16	Nitrate (as NO ₃)	IS 3025 (Part 34): 1988	mg/L	6.45	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.61	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/25/1865

Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	WATER
Sample Mark	W7-Karai West Village

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-1865	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 24 th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 °C	APHA 24 th Edition 4500 – H+ B: 2023	-	7.46	6.50-8.50
4	Electrical Conductivity	APHA 24 th Edition 2510 B: 2023	(µS/cm)	2134.0	-
B.	Chemical parameters				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1286	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	451	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	104	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	46.1	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	259	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	192	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	386	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	512	1000

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TEST REPORT

Report No.	SARL/25/1865

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 (SO ₄ 2-)	APHA 24th Edition 4500 SO ₄ 2- E: 2023	mg/L	216	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.04	0.3
16	Nitrate (as NO ₃)	IS 3025 (Part 34): 1988	mg/L	6.57	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.55	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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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

Page 2 of 2



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416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - info@shrientanalytical.com
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TEST REPORT

Report No.	SARL/25/1866	Report Date.	02.06.2025

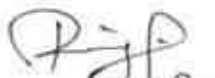
Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	SOIL
Sample Mark	S1-Within Mine Lease area

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-1866	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	-	7.32
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	182.8
3	Dry matter content	IS 15106: 2002	%	96.85
4	Water Content	IS 15106: 2002	%	3.15
5	Organic Matter	IS 2720: Part 22: 1972	%	0.72
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	252
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay loam
8	<u>Grain Size Distribution</u>	Methods Manual - Soil testing in India - P. No-67: 2011	%	15.47
	i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	45.32
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	39.21
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	BDL (D.L.0.02)
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.35
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	290
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	566
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	18.4
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	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/25/1867	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	SOIL
Sample Mark	S2-Otathur village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-1867	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		

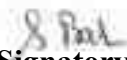
S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	8.14
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	286.6
3	Dry matter content	IS 15106: 2002	%	96.80
4	Water Content	IS 15106: 2002	%	3.20
5	Organic Matter	IS 2720: Part 22: 1972	%	0.92
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	390
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Clay Clay
8	<u>Grain Size Distribution</u>	Methods Manual - Soil testing in India - P. No-67: 2011	%	10.34
	i. Sand			
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	44.23
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	45.4
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.58
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	312
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	654
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	%	19.2
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	36

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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1868	Report Date.	02.06.2025

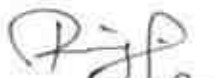
Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	SOIL
Sample Mark	S3-Nedungur village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-1868	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	-	8.26
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	216.6
3	Dry matter content	IS 15106: 2002	%	97.40
4	Water Content	IS 15106: 2002	%	2.60
5	Organic Matter	IS 2720: Part 22: 1972	%	0.78
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	136
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	<u>Grain Size Distribution</u>	Methods Manual - Soil testing in India - P. No-67: 2011	%	8.47
	i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	42.67
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	48.86
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	BDL (D.L.0.02)
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.21
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	335
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	136
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	%	17.60
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	38

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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1869	Report Date.	02.06.2025

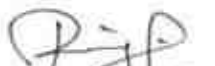
Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	SOIL
Sample Mark	S4-Padalur Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-1869	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		

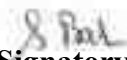
S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	8.23
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	265.4
3	Dry matter content	IS 15106: 2002	%	87.08
4	Water Content	IS 15106: 2002	%	12.92
5	Organic Matter	IS 2720: Part 22: 1972	%	1.21
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	198
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Clay
8	<u>Grain Size Distribution</u>	Methods Manual - Soil testing in India - P. No-67: 2011	%	16.24
	i. Sand			
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	38.0
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	45.78
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.65
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	489
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	894
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	%	16.5
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	42

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Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1870	Report Date.	02.06.2025

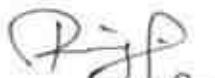
Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	SOIL
Sample Mark	S5-Thiruvankurichi Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-1870	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	-	8.26
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	188
3	Dry matter content	IS 15106: 2002	%	98.88
4	Water Content	IS 15106: 2002	%	1.12
5	Organic Matter	IS 2720: Part 22: 1972	%	0.67
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	234
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	<u>Grain Size Distribution</u>	Methods Manual - Soil testing in India - P. No-67: 2011	%	12.47
	i. Sand			
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	42.78
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	44.75
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.32
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	520
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	1020
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	%	19.2
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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CIN : U74999TN2017PTC116807 / **GST No :** 33AAYCS7325R1ZA / **PAN No:** AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1871	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	SOIL
Sample Mark	S6-Therani village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-1871	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	-	8.37
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	298.3
3	Dry matter content	IS 15106: 2002	%	94.35
4	Water Content	IS 15106: 2002	%	5.65
5	Organic Matter	IS 2720: Part 22: 1972	%	0.75
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	294
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	<u>Grain Size Distribution</u>	Methods Manual - Soil testing in India - P. No-67: 2011	%	10.66
	i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	45.55
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	43.79
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	BDL (D.L.0.02)
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.57
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	412
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	624
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	%	17.6
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	38

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S. BALAMURUGAN
Asst. Technical Manager

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CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/1872	Report Date.	02.06.2025

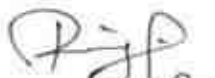
Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur District. Tamil Nadu State
Sample Description	SOIL
Sample Mark	S7-Karai West Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-1872	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	-	8.12
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	267.5
3	Dry matter content	IS 15106: 2002	%	91.48
4	Water Content	IS 15106: 2002	%	8.52
5	Organic Matter	IS 2720: Part 22: 1972	%	0.97
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	154
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	<u>Grain Size Distribution</u>	Methods Manual - Soil testing in India - P. No-67: 2011	%	7.65
	i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	41.02
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	51.33
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	BDL (D.L.0.02)
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.69
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	387
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	642
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	%	16.5
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	39

BDL – Below Detectable limit (DL - Detectable limit).

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Asst. Technical Manager

Please Contact:

For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.



Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045

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

www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/1873	Report Date.	02.06.2025

Customer Name & Address	ROUGH STONE AND GRAVEL QUARRY Of Thiru.D.Balaji At Over an extent of 2.75.0hectares S.F. Nos. 124/1A,124/1B,124/3A,124/3C,124/4A, And 124/4B Of Padalur(East) Village, Alathur Taluk, Perambalur 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-1873	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	40.3	38.0	40.9	41.8	39.4	48.5	48.5
07.00	41.8	39.4	38.6	44.4	41.9	50.8	52.2
08.00	43.6	42.5	41.9	42.8	42.5	49.3	53.0
09.00	47.0	44.5	43.3	46.4	46.3	49.1	51.6
10.00	48.9	46.9	50.3	48.5	44.1	48.1	52.1
11.00	50.6	48.8	49.4	51.3	43.5	47.3	50.3
12.00	51.5	53.2	46.1	52.5	42.3	45.1	46.8
13.00	53.3	54.6	47.0	48.8	46.8	47.4	46.2
14.00	54.6	52.3	52.6	46.4	44.0	53.0	49.1
15.00	52.0	53.5	52.4	44.3	47.4	46.8	52.3
16.00	57.5	50.4	51.0	48.4	45.3	48.8	53.2
17.00	55.6	49.6	52.4	47.4	44.3	48.1	53.0
18.00	50.4	50.4	49.1	45.5	47.5	49.5	48.4
19.00	49.2	44.3	45.5	46.1	46.6	51.2	43.1
20.00	48.4	40.4	44.9	43.5	39.5	45.8	40.7
21.00	45.3	39.4	43.0	41.8	38.4	46.2	37.0
22.00	42.4	38.8	44.5	42.4	37.3	50.2	38.7
23.00	38.9	38.5	42.6	40.8	35.6	39.2	39.3
24.00	37.8	38.1	40.4	39.9	37.1	39.3	38.3
01.00	37.0	37.1	41.9	41.3	35.8	37.6	38.6
02.00	38.2	36.8	40.9	40.5	34.6	38.2	37.8
03.00	36.1	37.3	39.9	40.6	37.0	36.9	39.1
04.00	39.0	37.0	39.1	39.2	37.8	38.1	39.4
05.00	40.2	38.4	38.5	38.8	39.2	37.6	38.1

LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/1873

Report Date.	02.06.2025

	N1	N2	N3	N4	N5	N6	N7
DAY EQUIVALENT	51.6	49.5	48.6	47.4	44.6	48.9	50.3
NIGHT EQUIVALENT	39.1	37.8	41.4	40.6	37.0	42.8	38.7
DAY & NIGHT EQUIVALENT	50.0	47.9	47.3	46.0	43.2	47.7	48.7

Remarks:

LOCATIONS:

N1-Near Mine Lease Area

N2-Otathur village

N3-Nedungur village

N4-Padalur Village

N5-Thiruvallankurichi Village

N6-Therani village

N7-Karai West Village

For Shrient Analytical and Research Labs Pvt. Ltd


Verified



END OF THE REPORT


Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

For any Technical Issues & Complaints: technical@shrientanalytical.com

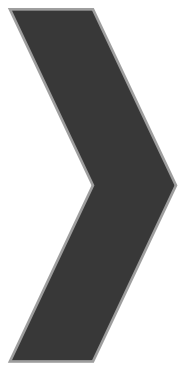
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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.

CIN : U74999TN2017PTC116807 / GST No : 33AAYCS7325R1ZA / PAN No: AAYCS7325R

Page 2 of 2



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.

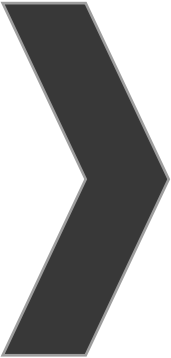
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: SHRIENT ANALYTICAL AND RESEARCH LABS PRIVATE LIMITED

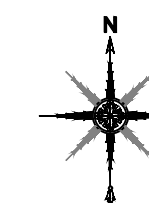
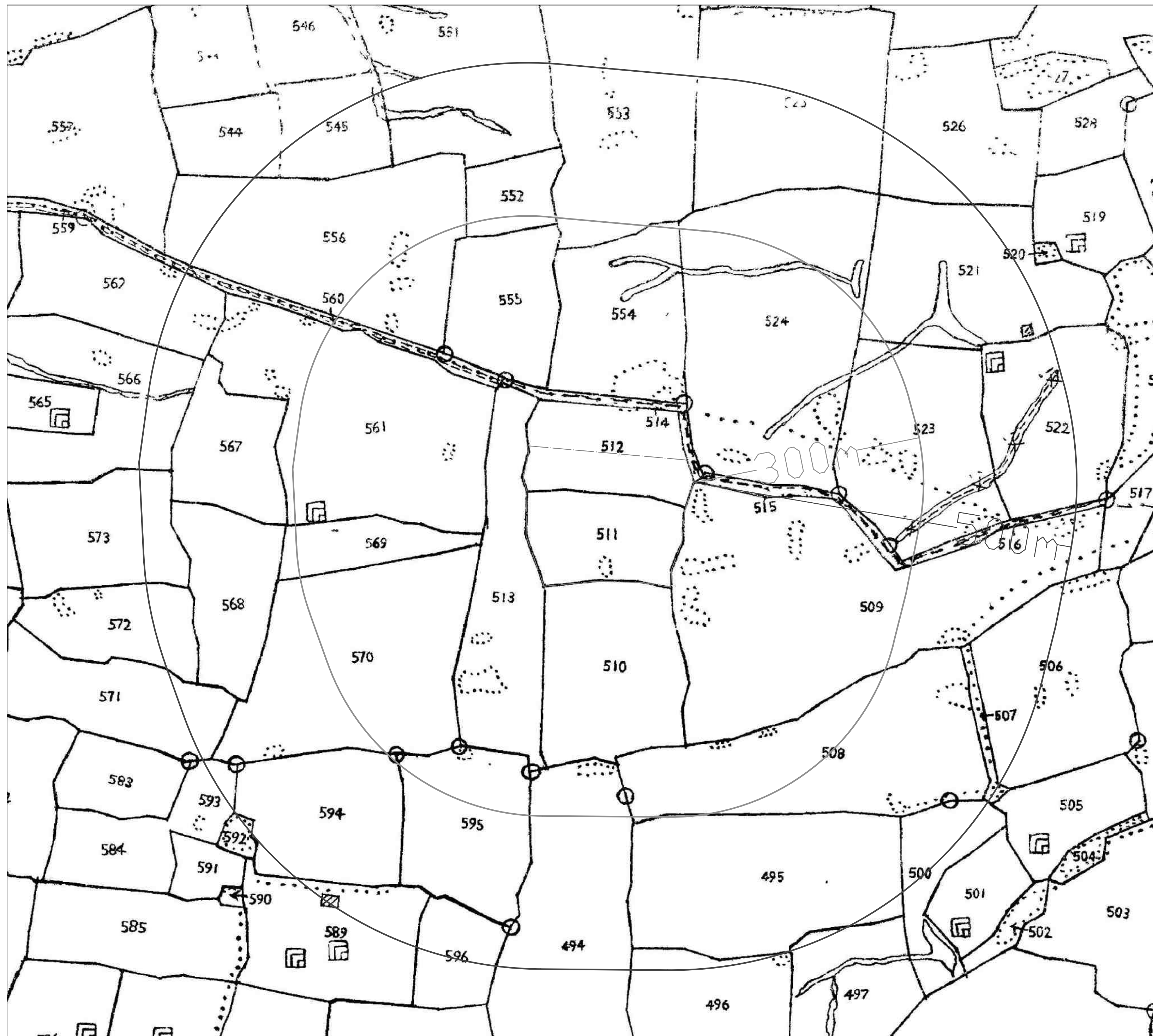
Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



ANNEXURE-9

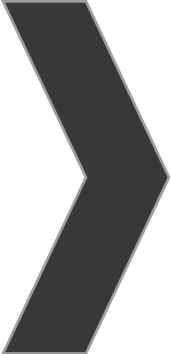


APPLICANT:

TVL.MAHAGANAPATHI BLUE METAL,
SURVEY NO.510/1,
ARASAMPALAYAM, KUPPAM POST,
PUGALUR TALUK,
KARUR DISTRICT.

QUARRY APPLIED LEASE AREA:

S.F.NO's : 511/1, 511/2 & 512/2,
EXTENT : 3.45.53 Ha,
VILLAGE : KUPPAM,
TALUK : PUGALUR,
DISTRICT : KARUR.



ANNEXURE-10

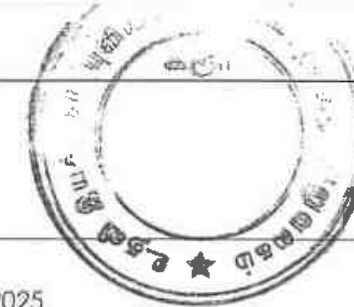
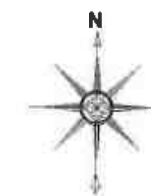
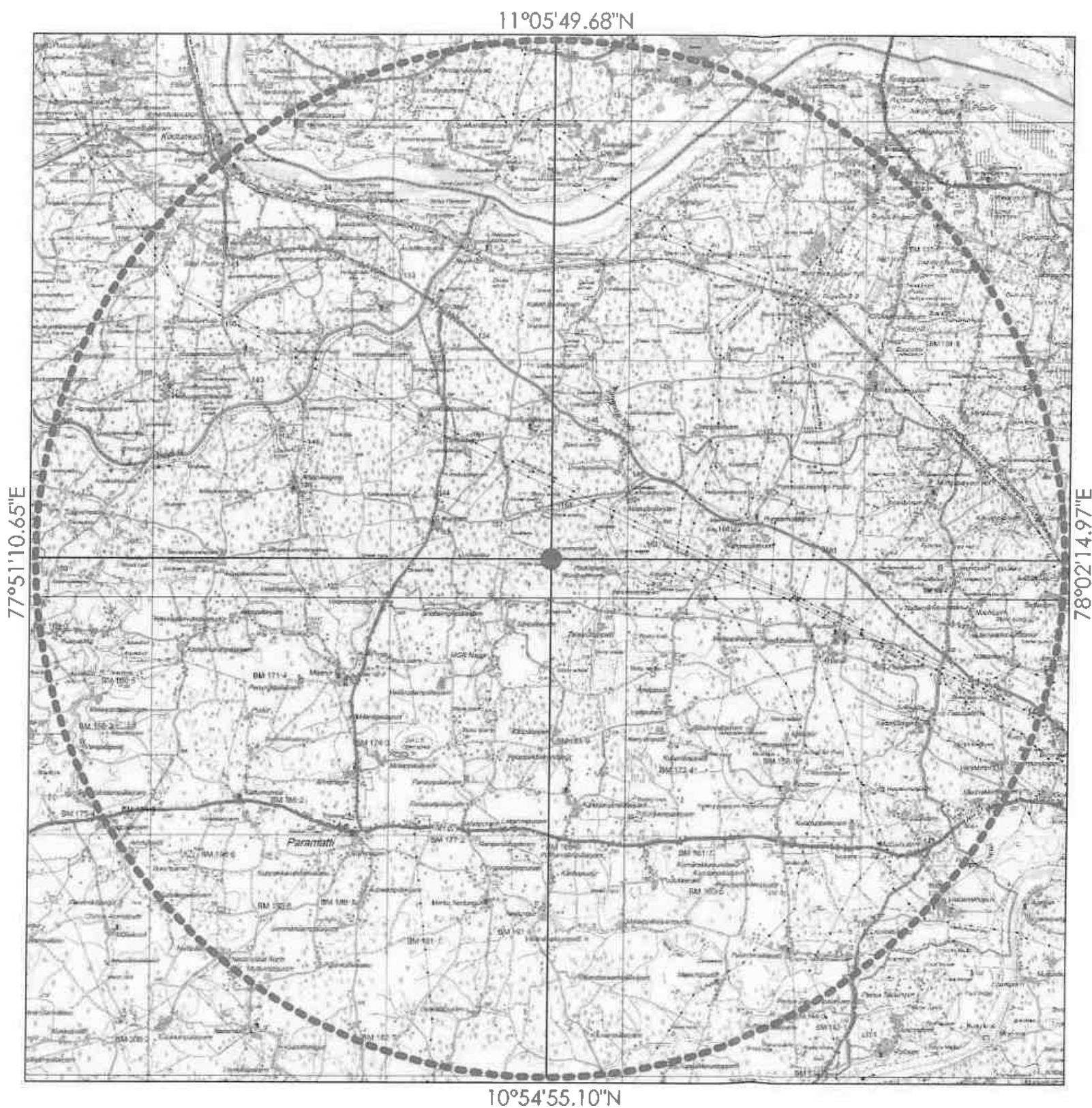


PLATE NO-IC

DATE OF SURVEY : 12.04.2025

APPLICANT:

TVL MAHAGANAPATHI BLUE METAL,
SURVEY NO 510/1,
ARASAMPALAYAM, KUPPAM POST,
PUGALUR TALUK,
KARUR DISTRICT.

QUARRY APPLIED LEASE AREA:

S.F.NO's : 511/1, 511/2 & 512/2,
EXTENT : 3.45.53 Ha,
VILLAGE : KUPPAM,
TALUK : PUGALUR,
DISTRICT : KARUR.

INDEX

TOPO SHEET NO : 58 F / 13

LATITUDE : 11°00'21.62"N to 11°00'27.71"N

LONGITUDE : 77°56'37.99"E to 77°56'45.37"E

Q.L.APPLIED AREA

10KM RADIUS

CONVENTIONAL SYMBOLS	
Contour lines showing elevation	1:100000
Water bodies (rivers, lakes, ponds)	1:100000
Highways and roads	1:100000
Railways	1:100000
Boundaries (village, taluk, district)	1:100000
Settlements (villages, towns)	1:100000
Topographic features (hills, mountains)	1:100000
Infrastructure (bridges, dams)	1:100000
Vegetation (forests, scrubland)	1:100000
Other symbols (wells, tanks)	1:100000

TOPO SKETCH OF QUARRY LEASE

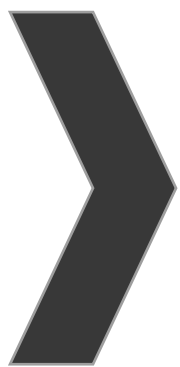
APPLIED AREA FOR

10Km RADIUS

SCALE- 1:100000

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

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



ANNEXURE-11

