DRAFT EIA / EMP FOR

PROPOSED ROUGH STONE QUARRY

CATEGORY B1 - CLUSTER (CLUSTER AREA – 14.70.60 Ha.)

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

APPROVED TOR vide TO25B0108TN5171977N, Dated: 25.09.2025

PROPOSED QUARRY LEASE DETAILS	
SURVEY NOS	10/1 (BLOCK-8)
VILLAGE	PADALUR (EAST)
TALUK	ALATHUR
DISTRICT	PERAMBALUR
EXTENT	1.20.0 Ha
PROPOSED PRODUCTION FOR FIVE YEARS	1,33,200 m^3 of Rough Stone
PEAK PRODUCTION	27,000 m^3 (2ND YEAR)
LAND	GOVERNMENT LAND

(Sector No. 1(a) (Sector no.1 as per NABET)
Category of the Project: B1 Cluster Mining, Total Cluster Area – 14.70.60 Ha
Baseline Monitoring Period – March to May 2025

APPLICANT

THIRU.R.VINOTH,
NO.44/4, SUBBRAMANIYAR KOVIL STREET, TITTAKUDI,
CUDDALORE DISTRICT - 606 106.

ENVIRONMENTAL CONSULTANT	LABORATORY
M/s. GLOBAL MINING SOLUTIONS ***(NABET Accredited & ISO 9001 Certified Consultant)*** **Plot No. 6, S.F.No. 13/2, A2, VS City,** **RC Chettypatty, Kottamettupatty, Omalur,** **Salem, Tamil Nadu – 636 455.** **NABET Accreditation No: NABET/EIA/23-26/SA 0241, Valid Until - January 4, 2026** **Contact: 97502 23535 & 94446 54520** **Email: infoglobalmining@gmail.com, globalminingsolutionssalem@gmail.com**	**M/s. SHRIENT ANALYTICAL & RESEARCH LABS PRIVATE LIMITED** ***(NABL Accredited Testing Laboratory)*** ***Valid Until -29.09.2029*** ***#416/15, Dhargas Road, Perungalathur, West Tambaram, Chennai,*** ***Tamil Nadu, India.***

December -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						
2						
3						
4						
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8						
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10						

ACKNOWLEDGEMENT

M/s. Global Mining Solutions, Salem is very much thankful to Thiru.R.Vinoth, for the confidence and trust placed on our organization for carrying out Environmental Impact Assessment (EIA) study for the proposed Rough Stone Quarry over a lease extent of 1.20.00 Ha., & Cluster extent of 14.70.60 Ha at Padalur (East) Village, Alathur Taluk, Perambalur 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 EIA/EMP report. Our sincere thanks to the local people of Padalur (East) 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.Prabhu)

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 Quarry over a lease extent of 1.20.00 Ha., & Cluster extent of 14.70.60 Ha at Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.

For M/s. Global Mining Solutions

M. MANIKANDAN
EIA CO-ORDINATOR
GLOBAL MINING SOLUTIONS
SALEM

UNDERTAKING

In Line with MOEF 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. TO25B0108TN5171977N, dated 25.09.2025 for preparation of EIA/EMP report for the proposed Rough Stone Quarry over a lease extent of 1.20.00 Ha., & Cluster extent of 14.70.60 Ha at Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State., for the production of 1,33,200 m^3 of Rough Stone from the proposed lease area and the details has been complied in the 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/23-26/SA 0241, valid till 04.01.2026.

For M/s. Global Mining Solutions

M. MANIKANDAN
EIA CO-ORDINATOR
GLOBAL MINING SOLUTIONS
SALEM



भारतीय गुणवत्ता परिषद
QUALITY COUNCIL OF INDIA

NABET

National Accreditation Board for Education and Training

Certificate of Accreditation

Global Mining Solutions

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

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

S. No	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1	Mining of minerals including opencast/ underground mining	1	1 (a) (i)	A
2	Thermal power plants	4	1 (d)	B
3	Metallurgical industries (ferrous)	8	3 (a)	A
4	Cement Plants	9	3 (b)	A
5	Building and construction projects	38	8 (a)	B
6	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/ASED/25/0838 dated May 30, 2025. The accreditation needs to be renewed before the expiry date. Global Mining Solutions, Salem following due process of assessment.

Valid up to
January 4, 2026

Issue Date
May 30, 2025

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

Prof (Dr) Varinder S Kanwar
CEO - NABET

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

DECLARATION BY EXPERTS

Declaration by Experts contributing to the proposed Rough Stone Quarry over a lease extent of 1.20.00 Ha., & Cluster extent of 14.70.60 Ha at Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.

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

EIA Coordinator Name: Manikandan Manickam



Signature & Date

Period of involvement: March 2025 to May 2025.

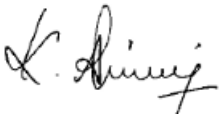
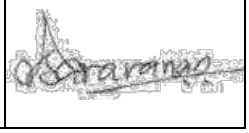
Contact information:

M/s Global Mining Solutions

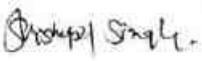
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Kottamettupatty, Omalur,

Salem, Tamil Nadu – 636 455.

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

			Period: March 2025 to May 2025.	
6	*HG*	*Ravinthiran N*	*Hydrogeological feature of the area. Ground water depth and impact of project on ground water of the area.* *Period: March 2025 to May 2025.*	
7	*AQ*	*Srilatha Thiruveedhula*	*Air quality modeling utilizing the area source model. Predication of the ground level concentration of the dust. Suggesting suitable mitigation measures.* *Period: March 2025 to May 2025.*	
8	*NV*	*Dhanalakshmi Ramanathan*	*Ambient noise study of the area. Incremental noise generation due to quarry operation and impact of the noise due to the project.* *Period: March 2025 to May 2025.*	
9	*LU*	*Srilatha Thiruveedhula*	*Preparation of land use map based on satellite imagery. Land use classification and analysis. Impact prediction of the project on the surrounding land environment.* *Period: March 2025 to May 2025.*	

10	*RH*	*S.V. Prashant*	*Identification of the Risk related to the mining activities. Preparation of emergency disaster management plan. Plan for supply of safety equipment for the worker.* *Period: March 2025 to May 2025.*	
11	*SC*	*Shisupal Sing*	*Soil monitoring, secondary data collection on soil type, soil management practices, utilization of topsoil.* *Period: March 2025 to May 2025.*	
12	*GEO*	*Valliappan Meyyappan*	*Geological map, stability of quarry and dump, management plan for mine stability, after use of mining quarry and geological feature of the area.* *Period: March 2025 to May.*	

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COMPLIANCE TO TERMS OF REFERENCE

POINT WISE COMPLIANCE OF TOR CONDITIONS

S.No	TOR Points	Reply	Page No
1.SEAC Conditions – Site Specific			
1	The PP shall furnish modified MP incorporating benches on all the sides along with EIA Report	Agreed, The revised mining plan work is in progress, it will be submitted along with Final EIA report.	
2	A Cluster Management Committee (CMC) shall be constituted including all the mines in the cluster as Committee Members for the effective management of the mining operation in the cluster through systematic & scientific approach with appointment of 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.	A cluster management committee including all the proponents of the rough stone quarrying projects within the cluster of 500 m radius will be constituted for the effective implementation of appropriate environmental management plan. Affidavit in this regard will be submitted during final EIA/EMP Report.	-

<table>
<tr><td></td><td>(ii) The Organization chart of the Committee with defining the role of the members
(iii) The 'Standard Operating Procedures' (SoP) executing the planned activities.</td><td></td><td></td></tr>
<tr><td>3.</td><td>The PP should submit an affidavit to follow the scientific formation of benches for 5m *5m properly during mining as per the approved mining plan.</td><td>Agreed,
An affidavit for stipulated bench formation will be incorporated in the Final Report.</td><td></td></tr>
<tr><td>4.</td><td>The PP shall install the CCTV camera for the continuous surveillance of mining activity & furnish the photographic / videographic evidence along with the EIA report.</td><td>Agreed, The PP will install CCTV at the proposed mine lease area and submit proof in the Final EIA/EMP report.</td><td></td></tr>
<tr><td colspan="4">3. SEAC Standard Condition</td></tr>
<tr><td>1</td><td>In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following:</td><td>An unknown person had already mined the applied lease area. CCR not applicable
The existing pit dimension mentioned in the approved mining plan is given below.</td><td></td></tr>
<tr><td></td><td>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</td><td>
<table>
<tr><th>Pit No</th><th>length (Max) in(m)</th><th>Width (Avg) in (m)</th><th>Depth (Max) in (m)</th></tr>
<tr><td>I</td><td>80</td><td>56</td><td>21m (above ground level)</td></tr>
<tr><td>II</td><td>80</td><td>10</td><td>6m (above</td></tr>
</table>
</td><td></td></tr>
</table>

	v. Details of illegal/illicit mining vi. Violation in the quarry during the past working. vii. Quantity of material mined out outside the mine lease area viii. Condition of Safety zone/benches Revised/Modified Mining Plan showing the benches of not exceeding 6 m height and ultimate depth of not exceeding 50m.	<table><tr><td></td><td></td><td></td><td>ground level)</td></tr></table>	
2	Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.	The VAO certificate is enclosed as Annexure – 5.	
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	A Site survey has been conducted to identify and list structures located within a 500 m radius from the proposed Quarry and structures located within 500 m radius are given in section 3.5 of Chapter 3. Within a 500-meter radius, there are 14 structures, including 11 agricultural sheds, a motor room, a stream barrier, and a water tank. There are no habitation within 500 m radius.	108

<table>
<tr><td></td><td>of the building, nature of construction, age of the building, number of residents, their profession and income, etc.</td><td></td><td></td></tr>
<tr><td>4</td><td>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 I km of the proposed quarry.</td><td>A detailed hydro-geological report will be included in the Final EIA Report.</td><td></td></tr>
<tr><td>5</td><td>The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.</td><td>The bio diversity study has been carried out by our FAE is given in section 3.7.7 of Chapter 3.</td><td>140</td></tr>
<tr><td>6</td><td>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.</td><td>The DFO letter will be incorporated in the Final EIA/EMP Report.</td><td></td></tr>
<tr><td>7</td><td>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</td><td>An unknown person had already mined the applied lease area. CCR not applicable
The existing pit dimension mentioned in the approved mining plan is given below.<table><tr><td>Pit No</td><td>length (Max) in(m)</td><td>Width (Avg) in (m)</td><td>Depth (Max) in (m)</td></tr><tr><td>I</td><td>80</td><td>56</td><td>21m (above</td></tr></table></td><td></td></tr>
</table>

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<td></td>
<td>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.</td>
<td>
<table>
<tr><td></td><td></td><td></td><td>ground level)</td></tr>
<tr><td>II</td><td>80</td><td>10</td><td>6m (above ground level)</td></tr>
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<tr>
<td>8</td>
<td>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.</td>
<td>The ultimate depth for this proposal (five years) is 56m (31m AGL & 25m BGL). The slope stability study will be carried through reputed Institute once the depth reaches 25 m BGL.</td>
<td></td>
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<tr>
<td>9</td>
<td>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.</td>
<td>Affidavit will be incorporated in the Final EIA/EMP Report.</td>
<td></td>
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<table>
<tr><td>10</td><td>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.</td><td>Controlled blasting techniques using delay detonators and optimum charge per delay will be implemented in this quarry. The details on blasting parameters are given in section 2.8.2 of Chapter 2.</td><td>94</td></tr>
<tr><td>11</td><td>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.</td><td>The PP has not carried out any quarrying operation before this project.</td><td></td></tr>
<tr><td>12</td><td>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,</td><td rowspan="3">An unknown person had already mined the applied lease area. CCR not applicable
The existing pit dimension mentioned in the approved mining plan is given below.
<table><tr><th>Pit No</th><th>length (Max) in(m)</th><th>Width (Avg) in (m)</th><th>Depth (Max) in (m)</th></tr><tr><td>I</td><td>80</td><td>56</td><td>21m (above ground level)</td></tr><tr><td>II</td><td>80</td><td>10</td><td>6m (above ground level)</td></tr></table></td><td></td></tr>
<tr><td>13</td><td>What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?</td><td></td></tr>
<tr><td>14</td><td>Quantity of minerals mined out.
• Highest production achieved in any one year</td><td></td></tr>
</table>

	• 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 comer coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).	Project coordinates superimposed in satellite imagery and topo map given as Figure No – 3.4 and Figure 3.5. The geology and geomorphology map are provided in Figure No.3.18 and 3.19 of Chapter 3. The 10km Radius Index plan showing buffer zone is given in Figure No.3.4 & Figure 3.5 in Chapter – 3.	114 & 115 150
16	The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc.,	It will be complied after commencement of the mining operation.	

17	The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan,	Fencing and greenbelt work is in progress and proof photographs of the same will be incorporated in the final EIA report. No standing trees in core zone. There are two tank situated on south and southeastern side of the area and is 51m and 170m away from the area. Map showing the Safety distance (10 m along the lease boundary) is given in Figure 2.2 of Chapter 2.	
18	The Project proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same.	The geological reserves – 4,37,910 m^3 of rough stone for 56m (31m above ground level and 25m below ground level) The mineable reserves – 1,33,200 m^3 of rough stone for 56m (31m AGL & 25m BGL). The proposed total production quantity (Five years) is 1,33,200 m^3 of rough stone with ultimate depth of 56m (31m AGL & 25m BGL) Working methodology and justification details are given in Chapter 2 and anticipated impact and its mitigation measures are detailed in Chapter 4.	87
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	Complied. Please refer figure 10.1 of Chapter 10.	

	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 I 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.	A detailed hydro-geological report will be incorporated in the Final EIA Report.	
21	The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora /fauna	The baseline data were collected (March 2025 to May 2025) for the environmental components including land, soil, water, air, noise, biology, socio-economy, and the results have been discussed in Chapter 3. Traffic density survey is detailed in section 2.11 of Chapter 2.	107 & 101

	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.	cumulative impact study due to mining operations in cluster are given in Section 7.4 of Chapter 7. Anticipated impacts and its mitigation measures for various attributes are detailed in Chapter 4.	160 & 197
23	Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.	Rain water harvesting Plan is given in section 4.2.3.4 of chapter 4. Water balance is shown in Figure 4.1.	166
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	Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features has been discussed in Section 3.7.6 of Chapter 3. details of surrounding ecological sensitive features have been provided in Table 3.1 under Chapter 3. Land use plan of the project area showing pre-operational, operational and post-	138

	operational phases and submitted. Impact, if any, of change of land use should be given.	operational phases are discussed in Table 2.4 under Chapter 2.	
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. No dumps have been proposed outside the lease area. There is no overburden / waste generation from this quarry, the entire mined out minerals will be directly transported to the needy buyers.	
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 TMCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.	This condition is not applicable to this project because this project is not located in proximity to the areas of areas declared as 'Critically Polluted' (or) the project areas which attracts the court restrictions for mining operations.	
27	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.	The rain water falling in the quarry will be harvested in the sump at the lowest level of the quarry. This sump will act as a settling pond to prevent solids escaping along with discharge, before outlet. etc.	166

		Towards surface runoff management, a garland drain will be constructed around the quarry and will be connected to a settling pond with silt traps. The supernatant clear water from the settling pond will be flow to the downstream users. Rain water harvesting plan is given in section 4.2.3.4 of Chapter 4.	
28	Impact on local transport infrastructure due to the Project should be indicated.	A traffic density study was carried out and are detailed in section 2.11 of Chapter 2.	101
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.	The details on tree survey covering 300 m radius is given in section 3.7.7 of chapter 3.	140
30	A detailed mine closure plan for the proposed project shall be included in EIA-/EMP report which should be site-specific.	The mine closure plan details are given in section 2.9 of Chapter 2 and section 7.6 of Chapter 7.	99
31	As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.	Accepted. It will be done.	

32	The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.	A detailed green belt development plan has been provided in Table 4.14 of Chapter 4.	184
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	The FAE of ecology and biodiversity has advised the project proponent that saplings of one year old raised in the ecofriendly bags should be purchased and planted with the spacing of 3 m between each plant around the proposed project area as per the advice of local forest authorities/botanist.	

34	A Disaster management Plan shall be prepared and included in the EIA,/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.	A disaster management plan for the project has been provided in Section 7.3 under Chapter 7.	195
35	A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.	A risk assessment plan for the project has been provided in Section 7.2 under Chapter 7.	192
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 have been discussed in detail in Section 4.4.7 under Chapter 4.	185
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	No public health implications are anticipated due to this project. Details of CER activities have been discussed in Chapter 8. Public health facilities will be further aimed to be developed through CER	

	along with budgetary allocations.	activities wherein periodic health checkups, medical camps for the locals will be conducted.	
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.	No negative impact on socio-economic environment of the study area is anticipated and this project shall benefit the socio-economic environment by offering employment for 25 people.	
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 in any court against this project.	
40	Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.	Benefits of the project is given in Chapter 8.	210
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	An unknown person had already mined the applied lease area. CCR not applicable The existing pit dimension mentioned in the approved mining plan is given below.	

<table>
<tr><td></td><td>the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.</td><td><table>
<tr><td>Pit No</td><td>length (Max) in(m)</td><td>Width (Avg) in (m)</td><td>Depth (Max) in (m)</td></tr>
<tr><td>I</td><td>80</td><td>56</td><td>21m (above ground level)</td></tr>
<tr><td>II</td><td>80</td><td>10</td><td>6m (above ground level)</td></tr>
</table></td><td></td></tr>
<tr><td>42</td><td>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.</td><td>The EMP is planned for the entire life of the mine. The affidavit for the same will be included in the Final EIA/EMP Report.</td><td></td></tr>
<tr><td>43</td><td>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.</td><td>Agreed</td><td></td></tr>
<tr><td colspan="4">4 SEIAA Standard Conditions</td></tr>
<tr><td colspan="4">Cluster Management Committee</td></tr>
<tr><td>1</td><td>Cluster Management Committee shall be framed which must include all the proponents in the cluster as members including the</td><td>There are ten proposed quarries including this proposal, within a 500-metre radius. The proponent will take the initiative to form a cluster management committee once</td><td>-</td></tr>
</table>

	existing as well as proposed quarry.	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. It 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.	
5	The committee shall deliberate on risk management plan pertaining to the cluster in a holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan.	Risk management plan for the individual quarry is given in this report. As far as cluster working condition is concerned, once the committee is formed, risk management as a cluster including inundation of clusters and the evacuation plan will be elaborated.	

6	The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the environmental policy devised shall be given in detail in the EIA report.	Environmental policy for the cluster will be framed by the cluster management committee and the policy will be in accordance with EPA Act, 1986 and its amendments, guidelines by MoEF&CC/SEIAA and other regulatory bodies. This policy will be displayed in the quarry.	
7	The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner.	Agreed. It will be complied as mentioned in the Point No.4	
8	The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public.	Agreed. It will be complied as mentioned in the Point No.4	
	Agriculture & Agro-biodiversity		
9	impacts on surrounding agricultural fields around the proposed mining Area.	There are no Agriculture, forest area and traditional practices within the project area. However, there are some agricultural land around the project site. It may be affected due to the quarry operation as such dust particles sedimentation in the agricultural land. It will be controlled at the source level by proper dust suppression as such wet drilling, controlled blasting and water sprinkling on the project roads	

		and project surrounding roads. As per Air Quality Modelling, the impact of the air quality limited to 400m radius. So, there is no impact for the Agriculture, Forestry & Traditional practices located within 10km radius.	
10	impacts on soil flora & vegetation around the project site.	The chemical and physical characteristics of the soil is given in Table 3.13 of Chapter 3. The anticipated impact and its mitigation measures for soil environment and biological environment are detailed in section 4.2.2 & 4.4.5 of Chapter 4 respectively.	137, 163 & 178
11	Details of type of vegetations including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetations all along the boundary of the proposed mining area shall committed mentioned in EMP.	There is no standing trees or vegetation within the mine lease area.	
12	The Environmental Impact Assessment should study the agro-biodiversity, agro-forestry, horticultural plantations, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem	The ecological details have been provided in Section 3.7.7 under Chapter 3 and measures have been provided in Section 4.4.5 under Chapter 4.	178
13	Action should specifically suggest for sustainable management of the area and	All the essential environmental protective measures will be followed by the proponent to manage the	

	restoration of ecosystem for flow of goods and services.	surrounding environment and restore the ecosystem, as discussed in Chapter 4.	
14	The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.	The impact of project on the land environment has been discussed in Section 4.2.1 under Chapter 4.	161
	Forests		
15	The project proponent shall detailed study on impact of mining on Reserve forests and free ranging wildlife	The following Reserve Forest are located within 10 km radius. Naranamangalam R.F – 3.60 km (NW), Nedungur R.F. – 3.56 km (S), Maniyankurichi R.F – 4.29 km (SW), Velur R.F – 5.49 km (NW), Siruvachur R.F – 6.11 km (NW) & Maramareddi palaiyam R.F. – 7.40 km (SW) There is no reserve Forest area within 1 km radius.	
16	The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna	The impacts of the project on biological environment is given in section 4.4.5 under Chapter 4.	178
17	The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.	There are no standing trees within lease area.	
18	The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National	There are no protected areas, National Parks, environmentally sensitive areas Corridors and Wildlife pathways near project site.	

	Parks, Corridors and Wildlife pathways, near project site.	Trichy Zoological Park – 7.88 km (SW) Karaivetti Bird Sanctuary – 25.00 km (SE)	
	Water Environment		
19	Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within I km (radius) 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.	A detailed hydrogeological report will be incorporated in the Final EIA Report.	
20	Erosion Control measures.	There is no waste generation (OB) in this quarry has been envisaged. However, there may be erosion due the rainy season and that is limited within quarry area. The control measures are explained in Chapter 4.	161
21	Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas	Complied. The study details are incorporated in Chapter 3. Anticipated impacts and its mitigation measures are detailed in Chapter 4.	107 & 160

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.	Section 2.4 provides the land-use pattern at present and at the end of the quarrying period. The post mining land use plan showing afforestation and water body is shown in Figure No- 2.10.	85 & 99
24	The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts	The Flora and Fauna study covering 10 km radius are detailed in section 3.7.7 of chapter 3. The impacts anticipated with respect to the environment of the project area is very negligible and it will be minimized within the project area. Greenbelt / Plantation will be carried out to enhance the vegetative growth and aesthetic in the safety zone area.	140
25	The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.	The impact of mining on soil environment has been discussed in Section 4.2.2 under Chapter 4.	163
26	The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.	The anticipated impact and its mitigation measures for Water Environment are detailed in section 4.2.3 of Chapter 4.	164
27	The EIA shall include the impact of mining activity on the following:	The proposed quarry operation is Opencast Mechanized operation with drilling, blasting, excavation, loading and transportation. So, the effect of	

	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	Hydrothermal/Geothermal is not envisaged. This is a simple mining operation, so bio-geochemical processes are not envisaged. There is no water bodies within 500 m radius of the project site.	
	Energy		
28	The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilize the Energy shall be furnished	The measures taken to control noise, air, water, and dust have been given under Chapter 4.	160
	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.	The carbon emission and the measures to mitigate carbon emission have been discussed in Section 4.4.5 under Chapter. Only the best equipment will be used, and it will be properly and regularly maintained. Regular vehicular emission tests will be conducted on the transport vehicles to ensure minimal carbon emissions. To further reduce carbon emissions, a good greenbelt plan has been planned.	183
30	The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock, soil health and physical, chemical & biological soil features..		

31	Impact of mining on pollution leading to GHGs emissions and the impact of the same on the local livelihood.		
	MINE CLOSURE PLAN		
32	Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued.	Detailed mine closure plan is given in Chapter 2.	98
	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.	212
34	The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan.	Total EMP Cost for 5 years is 16.92 lakhs i.e., Rs.6.92 Lakhs of Capital + Recurring cost Rs. 10.00 lakhs for five years, which is including the cost of Rs. 0.23 Lakhs (capital) and Rs. 0.05 (Recurring) for Greenbelt development.	218
	Risk Assessment		
35	To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.	The risk assessment and management plan for this project has been provided in Section 7.2 under Chapter 7.	192
	Disaster Management Plan		

36	To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid,/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities covering the entire mine lease period as per precise area communication order issued.	Disaster Management plan are detailed in section 7.3, Chapter 7.	195
	Others		
37	The project Proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc.	There are no historical places, schools, cemeteries, temples, bird sanctuaries, and wildlife sanctuaries within 300 meters of the proposed project area. In this regard, the project proponent has received an official letter from the Village Administrative Officer, The letter copy enclosed as Annexure –5.	
38	As per the MoEF& cc office memorandum F.No.z2-6512017-tA.III dated: 30.09.2020 and 20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management plan.	The concerns raised during the public consultation and all the activities proposed will be updated in the final EIA report.	

39	The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the environment. The ecological risks and impacts of plastic & microplastics on aquatic environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.	Complied. The PP has framed detail solid waste management system for the project are and the same will be executed by proper awareness and sign boards. The sign boards will be in two 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.	
SEIAA Specific Condition:			
4.1	The authority noted that the subject was placed in the 609th SEAC meeting held on 26.08.2025. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing for the quantity of 133200 m3 of Rough Stone up to the depth of 56m (31m AGL & 25m BGL) as per the approved mining plan, under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions & the SEIAA Standard conditions.	Noted and Agreed	

<table>
<tr><td colspan="3">Standard ToR</td><td></td></tr>
<tr><td>1</td><td>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</td><td>An unknown person had already mined the applied lease area. CCR not applicable
mentioned in the approved mining plan is given below.
<table>
<tr><th>Pit No</th><th>length (Max) in(m)</th><th>Width (Avg) in (m)</th><th>Depth (Max) in (m)</th></tr>
<tr><td>I</td><td>80</td><td>56</td><td>21m (above ground level)</td></tr>
<tr><td>II</td><td>80</td><td>10</td><td>6m (above ground level)</td></tr>
</table></td><td></td></tr>
<tr><td>2</td><td>A copy of the document in support of the fact that the proponent is the rightful lessee of the mine should be given.</td><td>This proposed project area is classified as Government land and the applicant has obtained tender from the Government Please refer Annexure 2.</td><td></td></tr>
<tr><td>3</td><td>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.</td><td>Noted & agreed. All documents including approved mine plan, EIA and Public Hearing are compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and is in the name of the lessee.</td><td></td></tr>
<tr><td>4</td><td>All comer coordinates of the mine lease area, superimposed on a High - Resolution Imagery/ topo</td><td>Project coordinates superimposed in satellite imagery and topo map given as Figure No – 3.4 and Figure 3.5.</td><td>114, 115 & 150</td></tr>
</table>

	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).	The geology and geomorphology map are provided in Figure No.3.18 & 3.19, Chapter 3. The 10km Radius Index plan showing buffer zone is given in Figure No.3.4 & Figure 3.5 in Chapter – 3.	
5	Information should be provided in Survey of India Topo sheet in l:50,000 scare indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.	The following map in 1:50,000 Scale: Geology map of the project area covering 10km radius – Figure No. 3.18. Geomorphology Map of the Study Area covering 10 km radius – Figure No. 3.19. Drainage map – 3.17	114 , 115 & 149, 150
6	Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.	Not Applicable. The proposed land is Government land, The copy of the tender document is attached as Annexure – 2.	
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	The proponent will frame a well-planned environmental policy. Its details are provided under Section 10.1, Chapter-10. Monitoring Mechanism is detailed under Section .10.3.	215

	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.	Various risks likely to arise due to mining activities are detailed under section 7.2, Chapter-7. This being an opencast mine, subsidence is not applicable. The impact due to ground vibrations due to blasting is given in para 4.4.4, Chapter-4.	192
9	The study area will comprise of l0 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.	Noted & Agreed The study area considered for this study is 10 km radius and all data contained in the EIA report such as waste generation etc., is for the Life of the Mine / lease period.	

10	Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary. national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.	The land use of the study area was studied to demarcate various LULC categories and its details are provided under section 3.7.6. 0f Chapter-3. The land use pattern at present and at the end of the quarrying period has been provided in Table 2.4, Chapter-2. The Conceptual plan of mine lease area is shown in Figure No- 2.10.	138
11	Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.	There is no waste generation anticipated in this quarry operation since the entire excavated material will be utilized. Hence, there is no external overburden dump involved.	
12	Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain	There is no Forest Land involved in the proposed project area. The proposed project area is a Government land. Approved Mining Plan is enclosed in Annexure – 3.	

	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.	Not Applicable. The proposed project area does not involve any Forest Land.	
14	Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act,2006 should be indicated.	Not Applicable. The project doesn't attract Recognition of Forest Rights Act, 2006.	
15	The vegetation in the RF / PF areas in the study area, with necessary details, should be given.	The following Reserve Forest are located within 10 km radius. Naranamangalam R.F – 3.60 km (NW), Nedungur R.F. – 3.56 km (S), Maniyankurichi R.F – 4.29 km (SW), Velur R.F – 5.49 km (NW), Siruvachur R.F – 6.11 km (NW) & Maramareddi palaiyam R.F. – 7.40 km (SW) There is no reserve Forest area within 1 km radius.	

16	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.	The mining lease area and the 10 km buffer zone from the periphery of the core zone is devoid of declared ecologically sensitive features like national parks, biospheres, sanctuaries, etc.	
17	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within l0 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.	Not Applicable. There are No National Parks, Biosphere Reserves, Wildlife Corridors, and Tiger/Elephant Reserves within 10 km Radius from the periphery of the project area. Trichy Zoological Park – 7.88 km (SW) Karaivetti Bird Sanctuary – 25.00 km (SE)	
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.	A detailed study of flora and fauna composition in the core and buffer zone of the project has been made. The details are furnished in section 3.7.7.	140

	Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present' In case of any scheduled fauna found in the study area. the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.		
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	Not Applicable	

	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).	Not Applicable	
21	R&R Plan/compensation details for the project Affected people (PAP) should be furnished. While preparing the R&R Plan, the relevant State/ National Rehabilitation & Resettlement policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the state Government. It may be	The mining activities will be carried out within the mine lease area only. The entire mine lease area of 1.20.00 Ha is a Government land. There is no population within the ML area. Hence, the question of R& R does not arise.	

	clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.		
22	one season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season); December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of2009, water quality, noise revel, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The	Baseline Data were collected for One Season (March 2025 to May 2025) as per CPCB Notification and MoEF & CC Guidelines and Detailed in Chapter -. 3.	107

	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.	Air Quality Modelling for prediction of incremental GLC's of pollutant was carried out using AERMOD view and Detailed in Section 4.2.4.3. Air Quality Modelling For Cluster are detailed in section 7.4.1 of Chapter 7.	171 203
24	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.	The total water requirement for the project is 5.0 KLD. The required water will be procured from outside agencies initially and later rainwater harvested in the mine pit shall be used other than drinking purpose. Water Balance diagram is presented in Figure No – 4.1.	165
25	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.	Not Applicable Water for dust suppression, greenbelt development and domestic use will be sourced from accumulated rainwater/seepage water in mine pits and purchased from local water	

		vendors through water tankers on daily requirement basis.	
26	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.	Rain water will be diverted into working area by constructing drains to store and use for dust suppression and greenbelt development. Details are presented in section 4.2.3.4 The total water requirement for the project will be 5.0 KLD comprising Drinking and domestic 1.5 KLD, Dust suppression 1.5 KLD, Greenbelt 2.0 KLD. The water will be sourced initially from outside agencies. Later the rainwater collected in the mine pit sump will be used for this purpose. The water balance diagram for the same is shown in Figure No 4.1.	166
27	Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.	Impact Studies and Mitigation Measures of Water Environment including Surface Water and Ground Water are discussed in Section 4.2.3.	164
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-ali4 shall include details of the aquifers present and impact of mining activities on	The quarrying activity will not intersect ground water table as quarrying is proposed upto a depth of 56m (31m AGL & 25m BGL) and water table is found at a depth of 67 m BGL.	

<table>
<tr><td></td><td>these aquifers. Necessary permission from Central Ground water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.</td><td></td><td></td></tr>
<tr><td>29</td><td>Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.</td><td>Not applicable</td><td></td></tr>
<tr><td>30</td><td>Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.</td><td><table><tr><td>Site Elevation above MSL</td><td>155 m from MSL</td></tr><tr><td>Ultimate Depth</td><td>56m (31m AGL & 25m BGL)</td></tr><tr><td>Ground water</td><td>67 m BGL.</td></tr></table></td><td></td></tr>
<tr><td>31</td><td>A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to</td><td>Greenbelt Development Plan & Recommended Species proposed for Greenbelt Development are detailed in Section 4.4.5.4.

0.22.80 hectares of land are allotted for greenbelt development.</td><td>184</td></tr>
</table>

	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.	The traffic density study was carried out and the same is given in section 2.11 of Chapter 2.	101
33	Details of the onsite shelter and facilities to be provided to	Temporary Infrastructure & other facilities will be provided to the Mine Workers after the grant of quarry lease	100

	the mine workers should be included in the EIA Report.	and the same has been discussed in Section 2.10.4 of Chapter 2.	
34	Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.	At the conceptual stage the quarried-out land will be fenced and lower benches will be allowed to collect rain water to act as a temporary reservoir and Greenbelt development will be carried out on the top bench, unutilized areas and haul roads. Mine closure plan is detailed in Section 2.9 of Chapter 2.	98
35	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.	Details of occupational health and safety aspects are given under the Section 4.4.7 & Section 10.4.	185
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 Public Health Implications anticipated due to this project. Details of CER are discussed under Chapter No. 8,	
37	Measures of socio-economic significance and influence to	This project provides employment to 30 people directly. Local people will be	

	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.	hired for unskilled labour. Through CER, nearby schools, hospitals will be benefitted. For CER, INR 5.0 Lakh is allocated. Based on the demand of the people during public hearing, further funds will be allocated, if necessary.	
38	Detailed Environmental Management Plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.	Environmental Management plan details are given in Chapter 10.	212
39	Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.	During public hearing process, the opinions and demands of the people will be noted. The replies and commitment made by the proponent along with time bound action plan wherever applicable will be provided in Final EIA/EMP report.	
40	Details of litigation pending against the project, if any, with direction /order paced by any Court of Law against the Project should be given.	There is no litigation pending against the project.	
41	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of	**Project Cost** is Rs. 290.42 Lakhs (including EMP & CER cost) **CER Cost** is Rs.5.0/- lakhs	218

	EMP should be clearly spelt out.	**EMP Cost –** Rs.16.92 Lakhs Capital Cost is Rs. 6.92 /- Lakhs Recurring Cost is Rs. 10.00 /- Lakhs for five years.	
42	A Disaster management Plan shall be prepared and included in the EIA/EMP Report.	Disaster management plan are provided under section 7.3 of Chapter-7.	195
43	Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.	Detailed in Chapter 8.	210
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	Complied	

	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. J11011/618/2010-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		

1.0 INTRODUCTION

1.0 PURPOSE OF THE REPORT

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

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

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

Thiru.R.Vinoth, proposes to operate Rough Stone Quarry at S.F.Nos. 10/1 (Block-8) over an extent of 1.20.00 Hectares at Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State. The proposed ML is a Government Poramboke land, it was previously operated by another lessee, the dimension of the existing pits as per approved mining plan is given below.

Pit No	length (Max) in(m)	Width (Avg) in (m)	Depth (Max) in (m)
I	80	56	21m (above ground level)
II	80	10	6m (above ground level)

Precise area has been communicated by the Assistant Director, Department of Geology and Mining, Perambalur, vide Rc.No.130/G&M/2025, Dated: 02.05.2025 and the same is granted for period of 5 years. Mining plan has been prepared and got approved from the Assistant Director, Department of Geology and Mining, Perambalur vide Rc.No.130/G&M/2025, Dated: 30.05.2025.

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

Table 1.1 Cluster Mines Details

S.No	Name of the Quarry Owner	S.F. Nos & Village	Lease Status	Area in Ha
a. Existing Quarry				
NIL				
b. Abandoned Quarry				
1.	B.Senthilkumar	Padalur (E) – 10/1 (Part)	12.04.2006 to 11.04.2016	1.00.00
2.	R.Sureshbabu	Padalur East – 10/1 – Block 17	23.05.2007 to 22.05.2017	1.00.0
3.	S.N. Vinoba	Padalur East – 10/1 – Block 5	26.04.2007 to 25.04.2012	1.00.0
4.	M.Raja	Padalur East -10/1 - Block 3	07.06.2007 to 06.06.2012	1.00.0
5.	D.Raja	Padalur East – 10/1 Block 6	11.05.2007 to 10.05.2012	1.00.0
6.	V.Panneerselvam	Padalur East – 10/1 – Block 22	31.05.2011 to 30.05.2021	1.00.0
7.	K.Mathiyalagan	Padalur East – 10/1 – Block 18	23.05.2007 to 22.05.2017	1.00.0
8.	M.Baskaran	Padalur East – 4(1)(P),4(2)(P),7(3)(P)	24.01.2018 to 23.01.2023	2.00.0
9.	V.Kamalasekar	Padalur East – 47/1A	22.03.2010 to 21.03.2015	0.81.0
c. Expired Quarries				
NIL				
d. Proposed Quarry				
1.	Thiru.Vinoth R	Padalur East - 10/1 (Block 8)	Presently proposed	1.20.0

2.	Thiru. R. Rajkumar	Padalur East – 10/1 (Block 1)	Proposed	1.50.0
3.	Thiru. Hariharan L	Padalur East – 10/1 (Block 2)	Proposed	1.40.6
4.	Thiru.P.Velmurugan	Padalur East – 10/1 (Block 3)	Proposed	1.40.0
5.	M/s. Rajamalai Metals	Padalur East - 10/1 (Block – 4)	Proposed	1.40.0
6.	M/s. SR Mines and Minerals	Padalur East – 10/1 (Block 6)	Proposed	2.20.0
7.	Thiru.M. Thangaraj	Padalur East – 10/1 (Block 5)	Proposed	2.10.0
8.	M/s. Mars Mines	Padalur East – 10/1 (Block 7)	Proposed	1.30.0
9.	M/s. Anjaneyaa Minerals	Padalur East – 10/1 (Block 9)	Proposed	1.20.0
10.	Thiru.P. Velmurugan	Padalur East – 10/1 (Block 13)	Proposed	1.00.0
Total Area of Cluster (d)		**14.70.60 Ha**		

As such Common EIA for the 10 proposed projects falling in the cluster with assessment of impacts and EMP separately is carried out. Cluster area calculated as per MoEF & CC Notification S.O. 2269(E) Dated 1st July 2016. Satellite image of Quarries in Cluster is shown in Fig 1.1.

As per MoEF&CC OM: F.No.L-11011/175/2018-IA-II(M), dated 12.12.2018, the common EIA/EMP report has to be prepared for the cluster area based on ToR recommended by SEIAA. Therefore, the applicant applied for ToR through Parivesh website vide online proposal no. SIA/TN/MIN/544153/2025, Dated: 11/07/2025. The ToR proposal was placed in 609th SEAC meeting, dt 26.08.2025 and 888th SEIAA meeting, dated 17.09.2025. Then ToR has been issued by the SEIAA vide ToR identification number TO25B0108TN5171977N, Dated 25.09.2025 to prepare the draft EIA report as per the recommended ToR for conducting Public hearing and obtaining Environmental Clearance from the SEIAA.



Figure1.1 Satellite Image showing cluster quarries

1.1 IDENTIFICATION OF PROJECT AND PROJECT PROPONENT

1.1.1 IDENTIFICATION OF PROJECT

Table -1.2 Project Identification

Name of the Project	Rough Stone Quarry of Thiru.R.Vinoth
S.F No.	10/1 (Block-8)
Location of the Project	Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Extent	1.20.00 Ha
Type of Land	The proposed land is a Government land the applicant has obtained tender from the Government.

1.1.2 IDENTIFICATION OF PROJECT PROPONENT

Table -1.3- Details of Project Proponent

Name of the Project Proponent	Thiru.R.Vinoth
Communication address	No.44/4, Subbramaniyar Kovil Street, Tittakudi, Cuddalore District - 606 106
	vinovinothmba@gmail.com
Mobile No.	73587 71411

1.2 BRIEF DESCRIPTION OF THE PROJECT

1.2.1 NATURE AND SIZE OF THE PROJECT

The quarrying operation is proposed to be carried out by Opencast Mechanized Mining Method by jack hammer drilling, slurry blasting by forming 5.0 m bench height and 5.0 m bench width. Excavator and tippers are proposed for Loading and transportation.

Table – 1.4 Brief Descriptions of the Project

Name of the Quarry	Rough Stone Quarry of Thiru.R.Vinoth
Toposheet No	58 I/16
Latitude between	11°06'43.18"N to 11°06'48.42"N
Longitude between	78°50'36.79"E to 78°50'40.18"E
The altitude of the area	155 m (MSL)
Proposed Depth of Mining	56m (31m above ground level and 25m below ground level)

	Rough Stone	
Geological Resources	4,37,910 m^3	
Mineable Reserves	1,33,200 m^3	
Proposed Production	1,33,200 m^3	
Ultimate pit Dimension	140 m (L) X 68 m (W) X 56m (31m above ground level and 25m below ground level) (D),	
Water Level in the area	64 - 67 m bgl	
Method of Mining	Opencast Mechanized Mining Method involving drilling and blasting	
Topography	The area applied for quarry lease is exhibits hilly terrain covered by covered by Topsoil formation. The massive Charnockite formation is noticed below 1 m (Avg) Topsoil and sloping towards southwest side of the area, the altitude of the area is above 155m (maximum) from MSL.	
Machinery Proposed	Jack Hammer	2 Nos
	Compressor	1 No
	Excavator with bucket and rock breaker	1 No
	Tipper (5/10 T)	3 Nos
Proposed Manpower Development	25 Nos	
Water Requirement	5 KLD	
Greenbelt Development	The safety zone of 0.22.80 ha will be developed with about 230 nos of plantation.	
Fuel Requirement	1,06,560 Litres of HSD (Entire Project Life)	
Project Cost	Rs. 290.42 Lakhs (including EMP & CER cost).	
EMP Cost	Total EMP Cost for 5 years is 16.92 lakhs i.e., Rs.6.92 Lakhs of Capital + Recurring cost Rs. 10.00 lakhs for Five years	
CER Cost	Rs.5.0 Lakhs will be spent as CER Cost.	

1.2.2 NATURE OF THE PROJECT

Sector	1(a) Non-Coal Mining
Type	Already mined by some other lessee
Category	B1 (Cluster Situation)
Mineral	Minor mineral of Rough Stone

1.2.3 LOCATION OF PROJECT

The proposed Quarry lease area is situated at S.F.Nos. 10/1 (Block-8) over an extent of 1.20.00 Hectares at Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State. The area lies in the north latitude of **11°06'43.18"N to 11°06'48.42"N** and eastern longitude of **78°50'36.79"E to 78°50'40.18"E.** Location of the proposed project is shown in Figure 2.1 and the satellite imagery of the project site is shown in Figure 2.2.

1.3 IMPORTANCE OF THE PROJECT TO THE REGION

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

1.4 REGULATORY COMPLIANCES

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

- Environment protection Act, 1986
- EIA Notification, 2006 & Subsequent amendments
- Water Pollution (Prevention & Control) Act, 1974
- Air Pollution (Prevention & Control) Act, 1981

- Noise Pollution (Regulation 7 Control) Rules, 2000
- Mines Act,1952
- Tamil Nadu Minor Mineral Concession Rules, 1959
- Mines and Minerals (development and regulation) Act,1957
- Minor Minerals Conservation and Development Amendment Rules 2018
- State Minor Mineral Concession Rules (GMMCR), 2017
- Explosive Act ,1884
- Explosive Rules,2008
- Hazardous and other Wastes (management and Transboundry Movement) Rules, 2016
- Batteries (Management and Handling) Rules 2010
- Solid Waste Management Rule 2016

1.4.1PRESENT LEGAL STATUS

Table 1.5 – Present Legal Status

Description	Issuing Authority	Status	Letter number	Date	Reference
Precise Area Communication	Assistant Director, Department of Geology and Mining, Perambalur	Received	Rc.No.130/G&M/2025	02.05.2025	Annexure - 2
Mine Plan Approval Letter	Assistant Director, Department of Geology and Mining, Perambalur	Approved	Rc.No.130/G&M/2025	30.05.2025	Annexure-3
District SurveyReport	Collector, Assistant Director, Geology & Mining Perambalur	Authenticated	As per S.O. 3611(E) dated25.07.2018	25.05.2019	-
500m radius Cluster Letter	Assistant Director, Department of Geology and Mining, Perambalur	Obtained	Rc.No.130/G & M/2025	30.05.2025	Annexure-4
VAO NOC for features within300m radius	VAO, Padalur (East) Village	obtained	-	17.06.2025	Annexure-5

1.4.2 SCREENING

As per the Environmental Impact Assessment (EIA) Notification dated 14th September 2006 and its subsequent amendments the proposed quarry mining project falls under 'Category B1(Cluster Situation)', which requires Environmental Clearance from the State Environmental Impact Assessment Authority (SEIAA). The project proponent has appointed M/s. Global Mining Solutions, Salem, who are accredited by the National Accreditation Board for Education and Training (NABET), Quality Council of India (QCI), New Delhi, under the registration number NABET / EIA / 23-26 / SA 0241. Their role is to carry out an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) study in compliance with the Ministry of Environment, Forest and Climate Change (MoEF & CC) requirements.

1.4.3 SCOPE OF THE STUDY

In line with the prescribed Terms of Reference (TOR), the area comprising 10 km radius around the proposed mine lease boundary is considered as the study area. The EIA/EMP report has been prepared following the generic structure specified in the EIA Notification 2006. The detailed studies have been conducted as per prescribed Standard TOR issued by SEIAA, TamilNadu vide ToR identification number TO25B0108TN5171977N, Dated 25.09.2025. The point wise compliance for the ToR has been incorporated in this EIA/EMP report.

The main scope of the EIA study is to quantify the cumulative impact in the study area due to cluster quarries and formulate the effective mitigation measures for this applied project area. A detailed account of the emission sources, emissions control equipment, background Air quality levels, Meteorological measurements, Dispersion model and all other aspects of pollution like effluent discharge, Dust generation etc., have been discussed in this report. The baseline monitoring study has been carried out during the Period of March 2025 to May 2025 for various environmental components so as to assess the anticipated impacts due the cluster quarry projects on the environment and suggest suitable mitigation measures for likely adverse impacts due to this proposed project.

The scope of study broadly covered as below,

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

1.5 NEED AND JUSTIFICATION OF THE PROJECT

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

1.6 STRUCTURE OF THE REPORT

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

1. Introduction

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

2. Project Description

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

3. Description of the Environment

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

4. Anticipated Environmental Impacts & Mitigation Measures

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

5. Analysis of Alternatives (Site And Technology)

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

6. Environmental Monitoring Program

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

7. Additional Studies

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

8. Project Benefits

This chapter presents the benefits from this project

9. Environmental Management Plan

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

10. Summary and Conclusion

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

11. Disclosure of Consultant

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

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2.0 PROJECT DESCRIPTION

2.1 TYPE OF THE PROJECT

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

This project proposed to produce 1,33,200 m^3 of Rough Stone for the period of first 5 years with ultimate depth up to 56m (31m AGL & 25m BGL).

2.2 NEED FOR THE PROJECT

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

2.3 LOCATION OF THE PROJECT

This is a Rough Stone Quarry located in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State. The area lies in the north latitude of **11°06'43.18"N to 11°06'48.42"N** and eastern longitude of **78°50'36.79"E to 78°50'40.18"E and toposheet number 58 I/16.** Location of the proposed project is shown in Figure 2.1 the satellite imagery of the project site is shown in Figure 2.2.

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

Table 2.1 Boundary Coordinates of the Project

Corners	Co- ordinates	
	Latitude	Longitude
1	11° 06' 48.42"N	78° 50' 37.58"E
2	11° 06' 48.00"N	78° 50' 40.18"E
3	11° 06' 43.18"N	78° 50' 39.39"E
4	11° 06' 43.60"N	78° 50' 36.79"E

Table 2.2 Mine Lease Area and its Ownership

Location	S.F. No	Area in Ha	Remarks
Padalur (East) Village, Alathur Taluk, Perambalur District	10/1 (Block-8)	1.20.00	It is Government land the applicant has obtained tender from the Government.

Table 2.3 Site Connectivity

Nearest Roadway	There is an existing road from the area leads to Alathur – Padalur road on west side of the area. The National Highway (NH-38) Viluppuram – Trichy is about 1.2km on northwest side of the area. The State Highway (SH-142) Perambalur – Thuraiyur is about 12.3Km on northwest side of the area.
Nearest Village	Padalur – 640 m – (S)
Nearest Railway	Sillakkudi RS – 21.00 km (E)
Nearest Airport	Tiruchirapalli Airport – 40.52 km (SW)

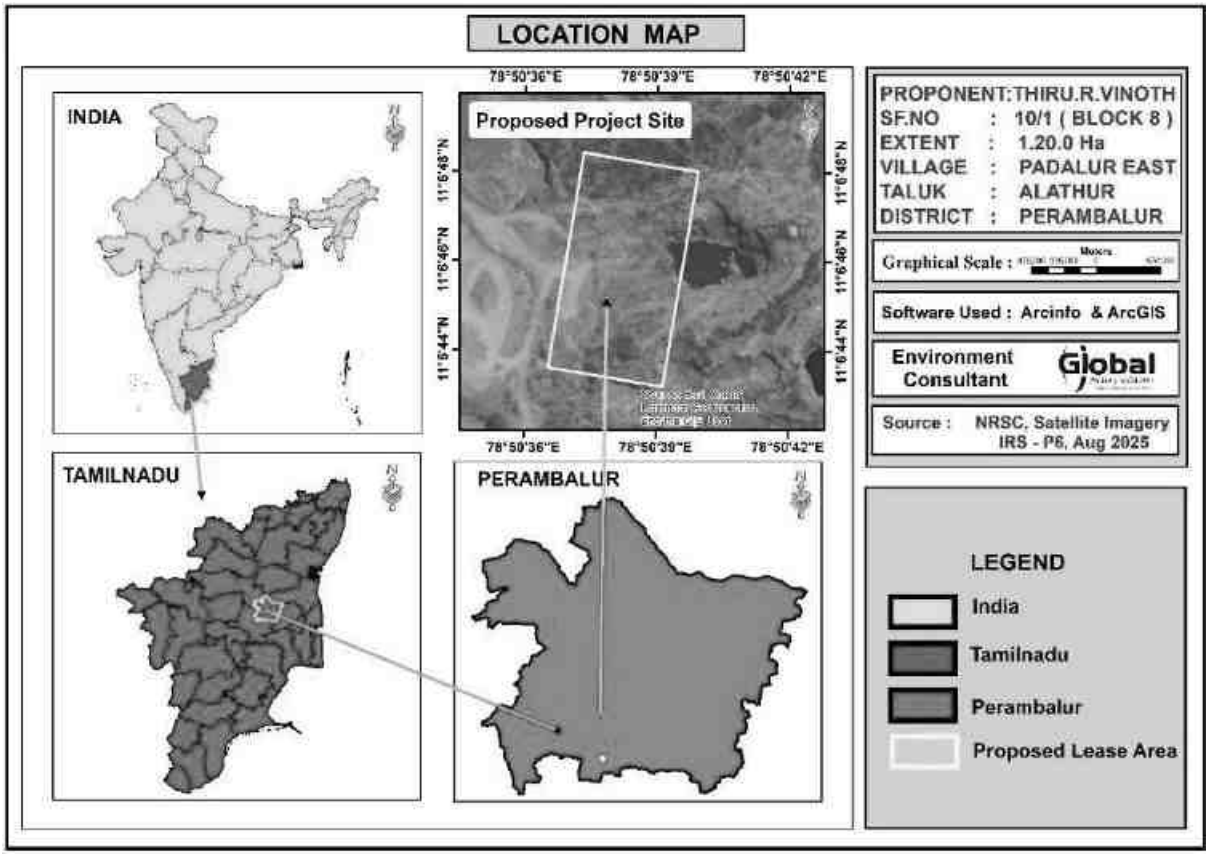


Figure 2.1 Location Map

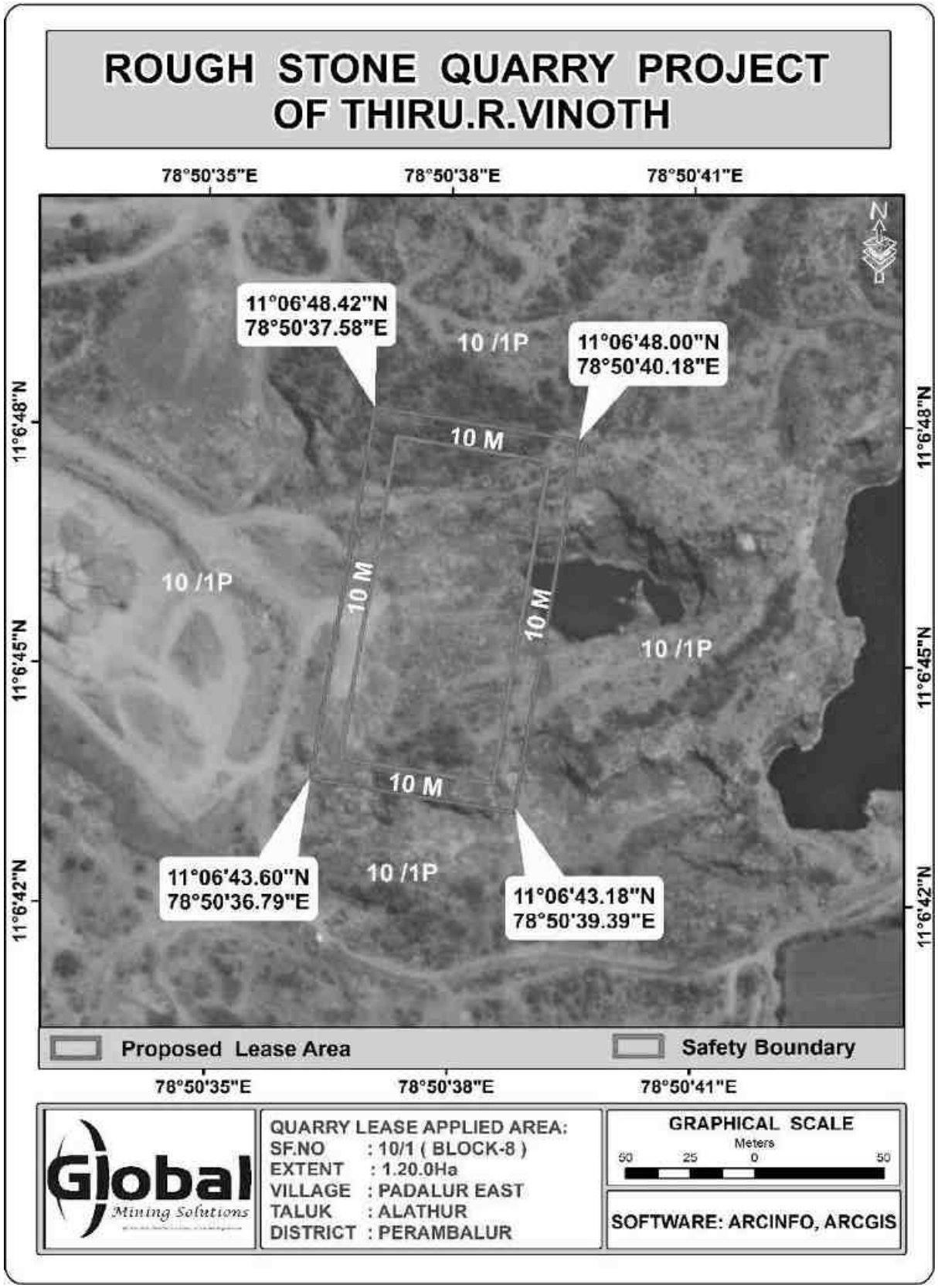


Figure 2.2 Google Image of the project site

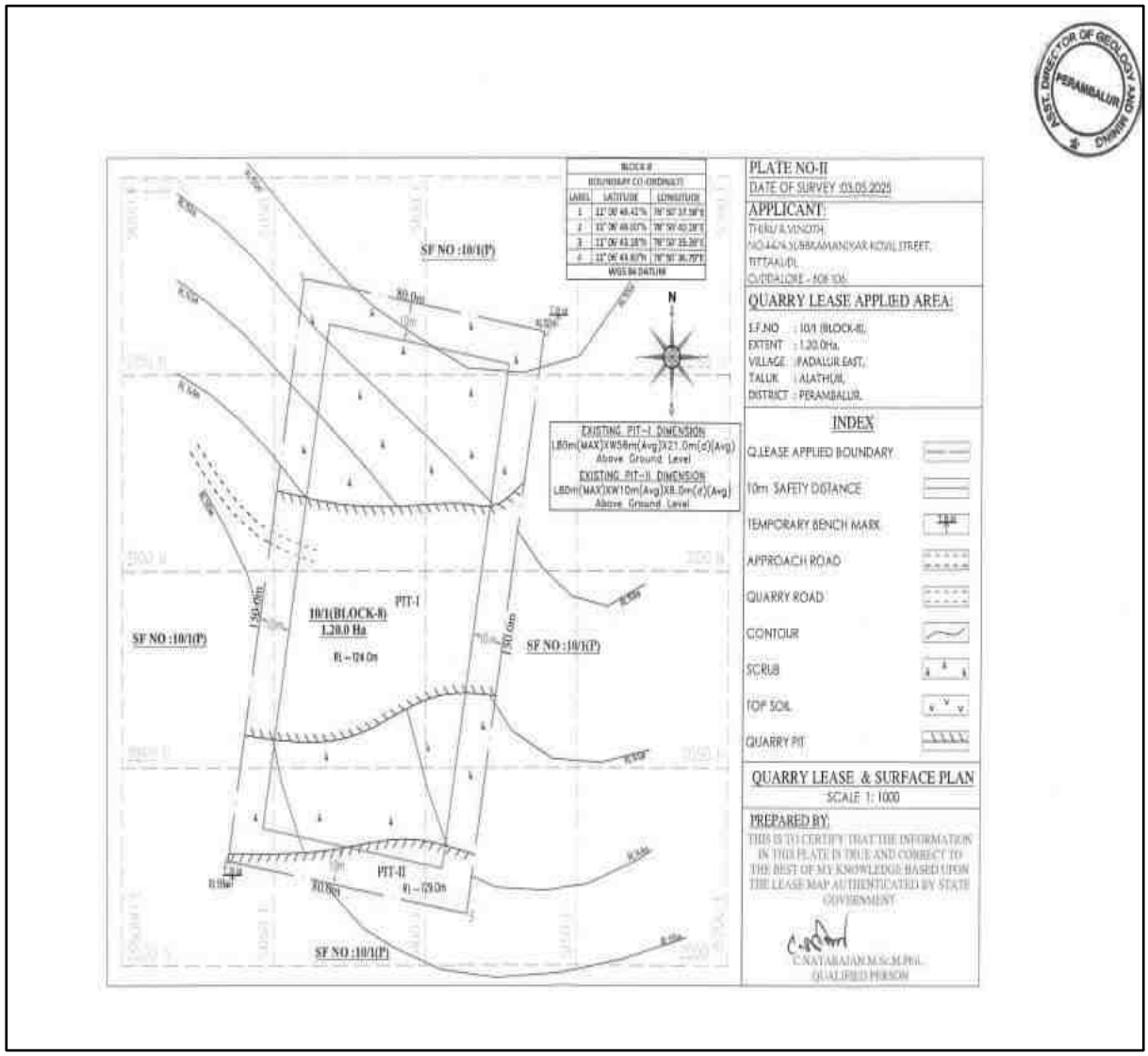


Figure 2.3 Lease Plan

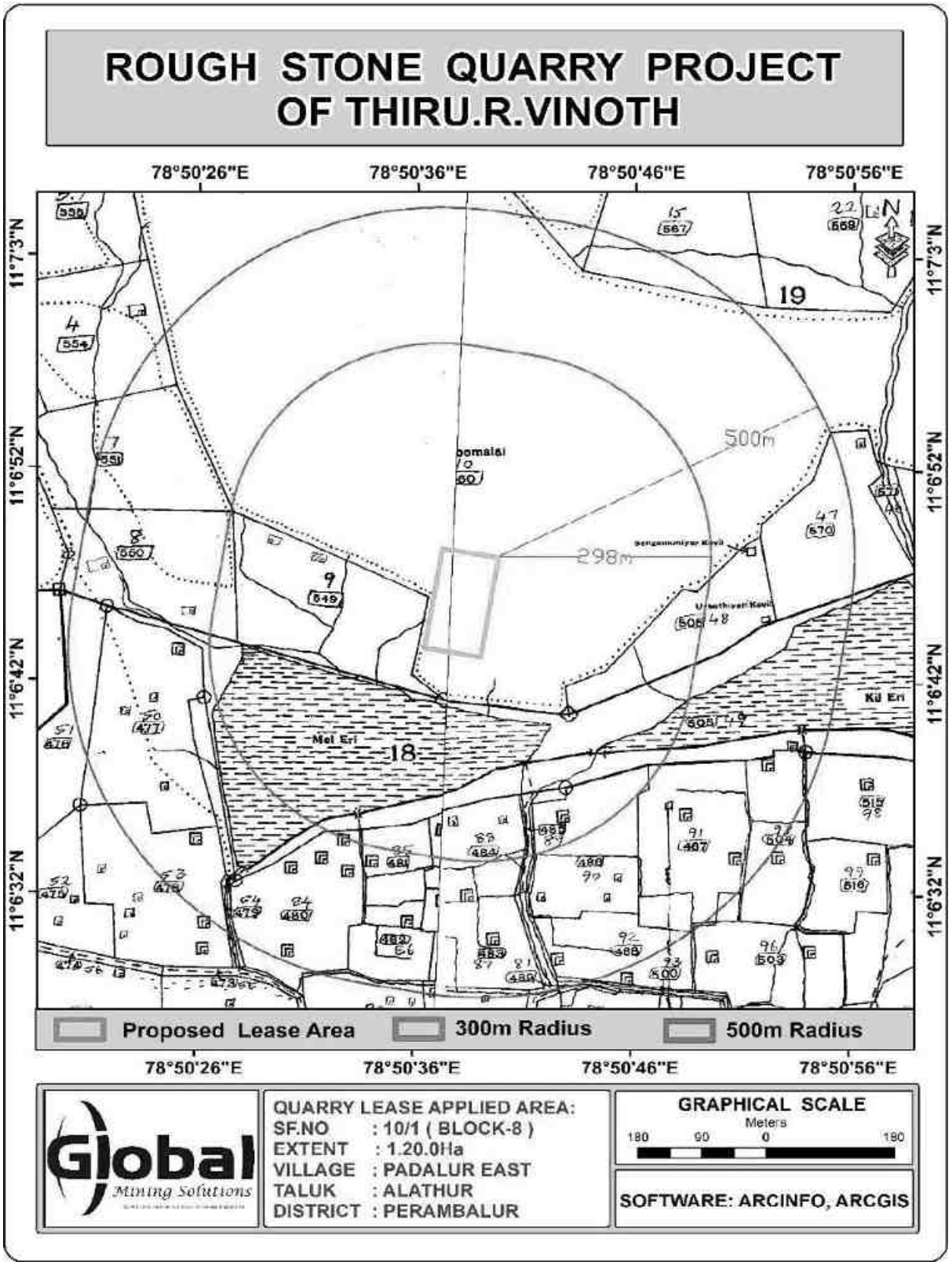


Figure 2.4 Village Map



Figure 2.5 Site Photographs

2.4 LAND USE PATTERN OF THE PROJECT AREA

The entire project site is Government land and applicant has obtained tender from the Government. The land use pattern of the mine lease area as of today and conceptual stage given in Table No. 2.4.

Table 2.4 Land use pattern of the Project area

Description	Present Area in Ha.	Area at the end of life of Quarry in Ha.
Quarrying pit	0.53.00	0.95.20
Infrastructure	Nil	0.01.0
Roads	Nil	0.01.0
Greenbelt	Nil	0.22.80
Unutilized	0.67.00	Nil
Total	**1.20.0**	**1.20.0**

2.5 SIZE AND MAGNITUDE OF THE OPERATION

The proposed activity is the extraction of Rough Stone by open cast mechanized mining method over an extent of 1.20.00 Ha and to produce 1,33,200 m3 of Rough Stone for the period of first 5 years with ultimate depth up to 56m (31m AGL & 25m BGL). The details of geological and mineable reserves in the lease area have been provided below in the subsequent sub section.

2.6 TOPOGRAPHY AND DRAINAGE

The area applied for quarry lease is exhibits hilly terrain covered by covered by Topsoil formation. The massive Charnockite formation is noticed below 1m (Avg) Topsoil and sloping towards southwest side of the area, the altitude of the area is above 155m (maximum) from MSL. There are two tanks situated on south and southeastern side of the area and is 51m and 170m away from the area.

GEOLOGY

2.6.1 REGIONAL GEOLOGY

The western part of the district is covered by Granitic gneiss, Hornblends gneiss, harnockite with intrusions of Dolerite – dykes and pegmatites. These rocks are highly metamorphosed and have been subjected to very severed folding, crushing and faulting.

Nearly 75% of the area in this district is covered by sedimentary formations like the ancient upper thin fringe of Gondwana (underlined by hard rock), cretaceous, Tertiary and Recent alluvial deposits. The Upper Gondwana occurs as a thin fringe composing of clay sandstone underlain by the hard rock.

2.6.2 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 $N30^0$ E – $S30^0$W with vertical dipping. The general geological succession of the area is given as under.

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

2.7 RESOURCES AND RESERVES

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

Table 2.5 Available Geological Resources

The quarrying is restricted up to a depth of 56m (31m above ground level and 25m below ground level) only. Availability of resources is given below.

Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Topsoil m^3	Rough stone in m^3	Bulk Density	Topsoil in Ts	Geological Resources of Rough stone in Ts
XY-AB	Above Ground Level	I	56	81	1	4536	-	2	9072	-
		II	22	51	5	-	5610	2.75	-	15427.50
		III	41	80	5	-	16400	2.75	-	45100.00
		IV	51	80	5	-	20400	2.75	-	56100.00
		V	51	80	5	-	20400	2.75	-	56100.00
		VI	51	80	5	-	20400	2.75	-	56100.00
		VII	51	80	5	-	20400	2.75	-	56100.00
	Below Ground Level	VIII	51	80	5	-	20400	2.75	-	56100.00
		IX	51	80	5	-	20400	2.75	-	56100.00
		X	51	80	5	-	20400	2.75	-	56100.00
		XI	51	80	5	-	20400	2.75	-	56100.00
		XII	51	80	5	-	20400	2.75	-	56100.00
Total						**4536**	**205610**	-	**9072**	**565427.50**
XY-CD	Below Ground Level	VI	56	80	5	-	22400	2.75	-	61600.00
		VII	56	80	5	-	22400	2.75	-	61600.00
		VIII	56	80	5	-	22400	2.75	-	61600.00
		IX	56	80	5	-	22400	2.75	-	61600.00
		X	56	80	5	-	22400	2.75	-	61600.00
Total						**-**	**112000**	-	**-**	**308000.00**

XY-EF	Above Ground Level	I	34	81	1	2754	-	2	5508	-
		II	15	52	5	-	3900	2.75	-	10725.00
		III	33	80	5	-	13200	2.75	-	36300.00
		IV	43	80	5	-	17200	2.75	-	47300.00
	Below Ground Level	V	43	80	5	-	17200	2.75	-	47300.00
		VI	43	80	5	-	17200	2.75	-	47300.00
		VII	43	80	5	-	17200	2.75	-	47300.00
		VIII	43	80	5	-	17200	2.75	-	47300.00
		IX	43	80	5	-	17200	2.75	-	47300.00
Total						**2754**	**120300**	-	**5508**	**330825.00**
Grand Total						**7290**	**437910**	-	**14580**	**1204252.50**

Topsoil Formation : 7290 Cu.m

The Geological Resources of Rough stone : 4,37,910 Cu.m

2.7.1 ALREADY EXCAVATED:

The applied area was previously quarried by another lessee, and the dimension of the existing pits as per approved mining plan are provided below.

Pit No	length (Max) in(m)	Width (Avg) in (m)	Depth (Max) in (m)
I	80	56	21m (above ground level)
II	80	10	6m (above ground level)

2.7.2 MINEABLE RESERVES

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

Table 2.6 – Available Mineable Reserves

Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Topsoil in m^3	Rough stone in m^3	Bulk Density	Topsoil in Ts	Mineable Reserves of Rough stone in Ts
XY-AB	Above Ground Level	I	45	61	1	2745	-	2	5490	-
		II	10	41	5	-	2050	2.75	-	5637.50
		III	24	60	5	-	7200	2.75	-	19800.00
		IV	29	60	5	-	8700	2.75	-	23925.00
		V	24	60	5	-	7200	2.75	-	19800.00
		VI	19	60	5	-	5700	2.75	-	15675.00
		VII	14	60	5	-	4200	2.75	-	11550.00
	Below Ground Level	VIII	9	60	5	-	2700	2.75	-	7425.00
Total						**2745**	**37750**	-	**5490**	**103812.50**
XY-CD	Below Ground Level	VIII	56	60	5	-	16800	2.75	-	46200.00
		IX	56	50	5	-	14000	2.75	-	38500.00
		X	51	40	5	-	10200	2.75	-	28050.00
		XI	46	30	5	-	6900	2.75	-	18975.00
		XII	41	20	5	-	4100	2.75	-	11275.00
Total						**-**	**52000**	-	-	**143000.00**

XY-EF	Above Ground Level	I	34	61	1	2074	-	2	4148	-
		II	15	42	5	-	3150	2.75	-	8662.50
		III	33	60	5	-	9900	2.75	-	27225.00
		IV	33	60	5	-	9900	2.75	-	27225.00
	Below Ground Level	V	28	60	5	-	8400	2.75	-	23100.00
		VI	23	50	5	-	5750	2.75	-	15812.50
		VII	18	40	5	-	3600	2.75	-	9900.00
		VIII	13	30	5	-	1950	2.75	-	5362.50
		IX	8	20	5	-	800	2.75	-	2200.00
Total						**2074**	**43450**	-	**4148**	**119487.50**
Grand total						**4819**	**133200**	-	**9638**	**366300.00**

The mineable reserve is computed as 1,33,200 m^3 of Rough stone and 4,819 m^3 of Top Soil formation upto a depth 56m (31m above ground level and 25m below ground level) only

2.8 PROCESS DESCRIPTION AND TECHNOLOGY

2.8.1 PROCESS DESCRIPTON

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

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

The process diagram is provided in Figure 2.6. The Geological and production plan and cross section for the 5 years period and conceptual plan and conceptual cross section is given in Figure No. 2.7 and Figure No. 2.10.

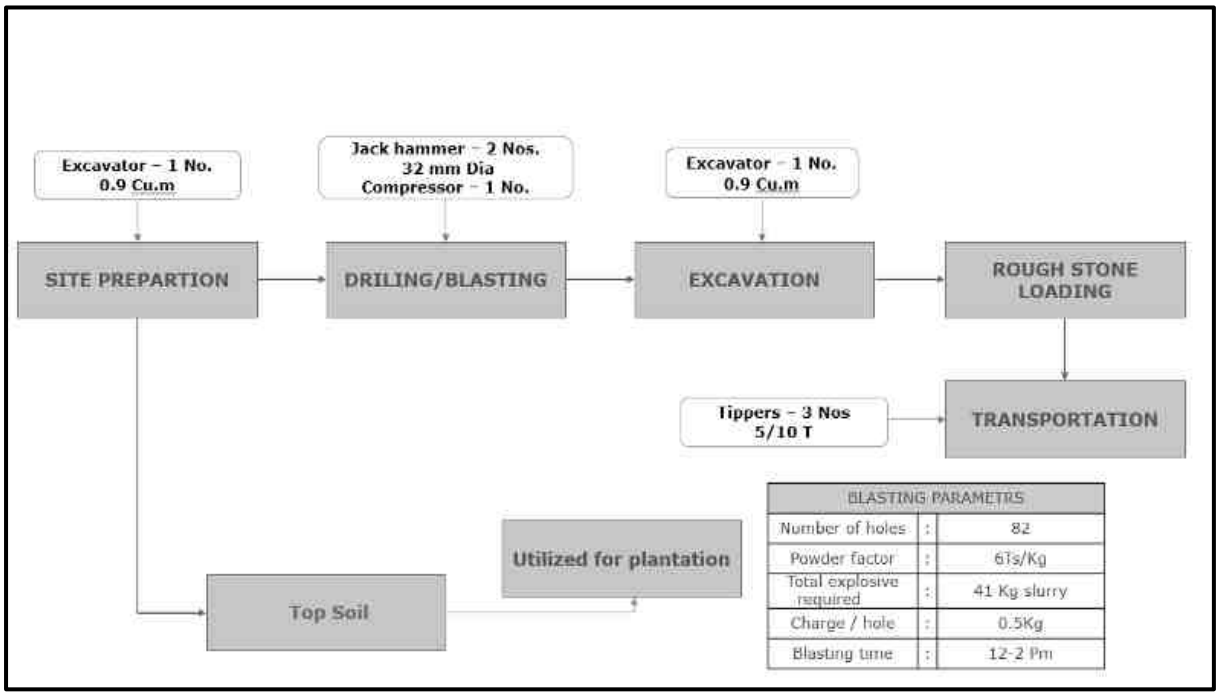


Figure 2.6 Process Flow Diagram

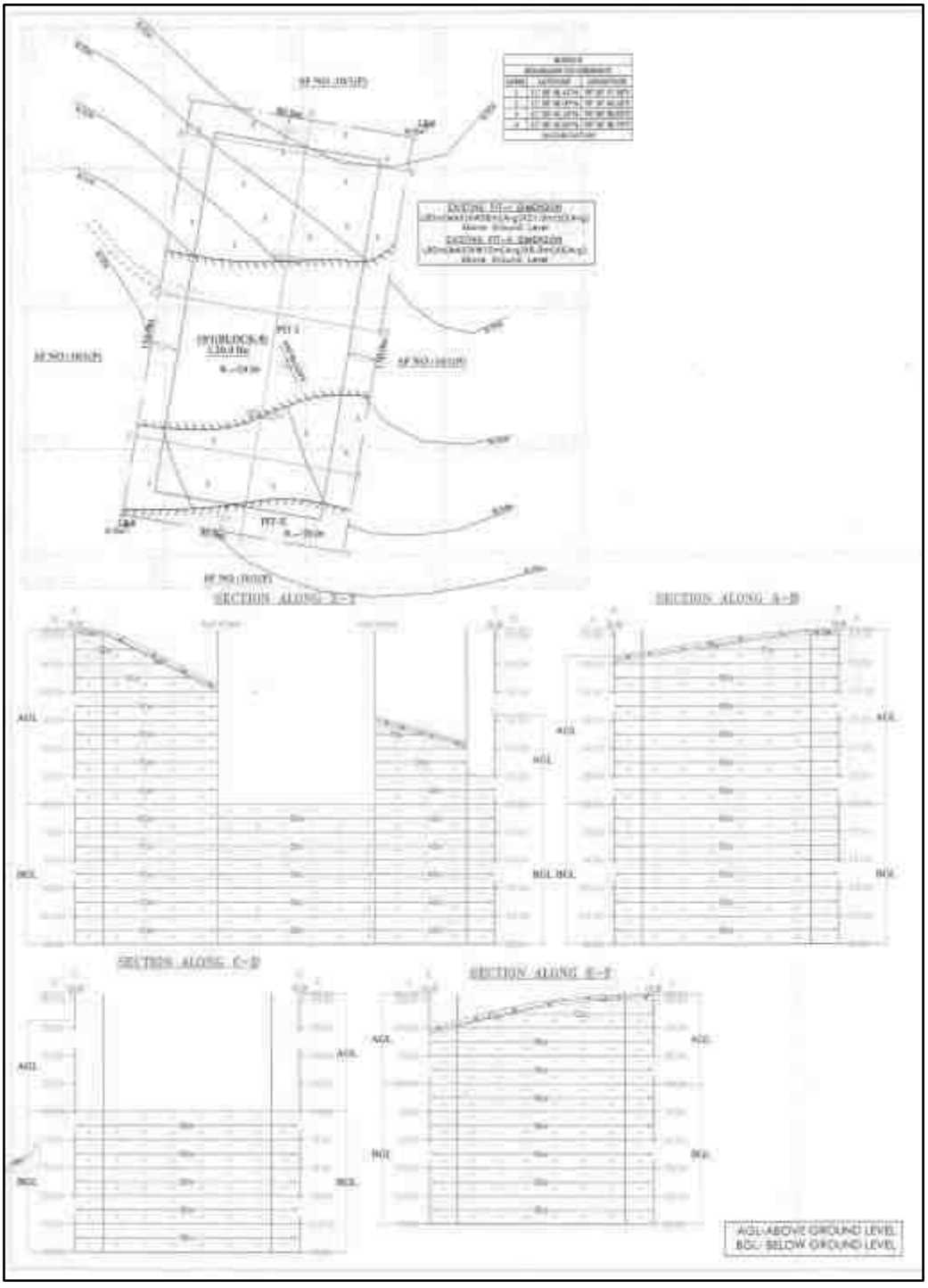


Figure 2.7 Topography, Geological plan and sections

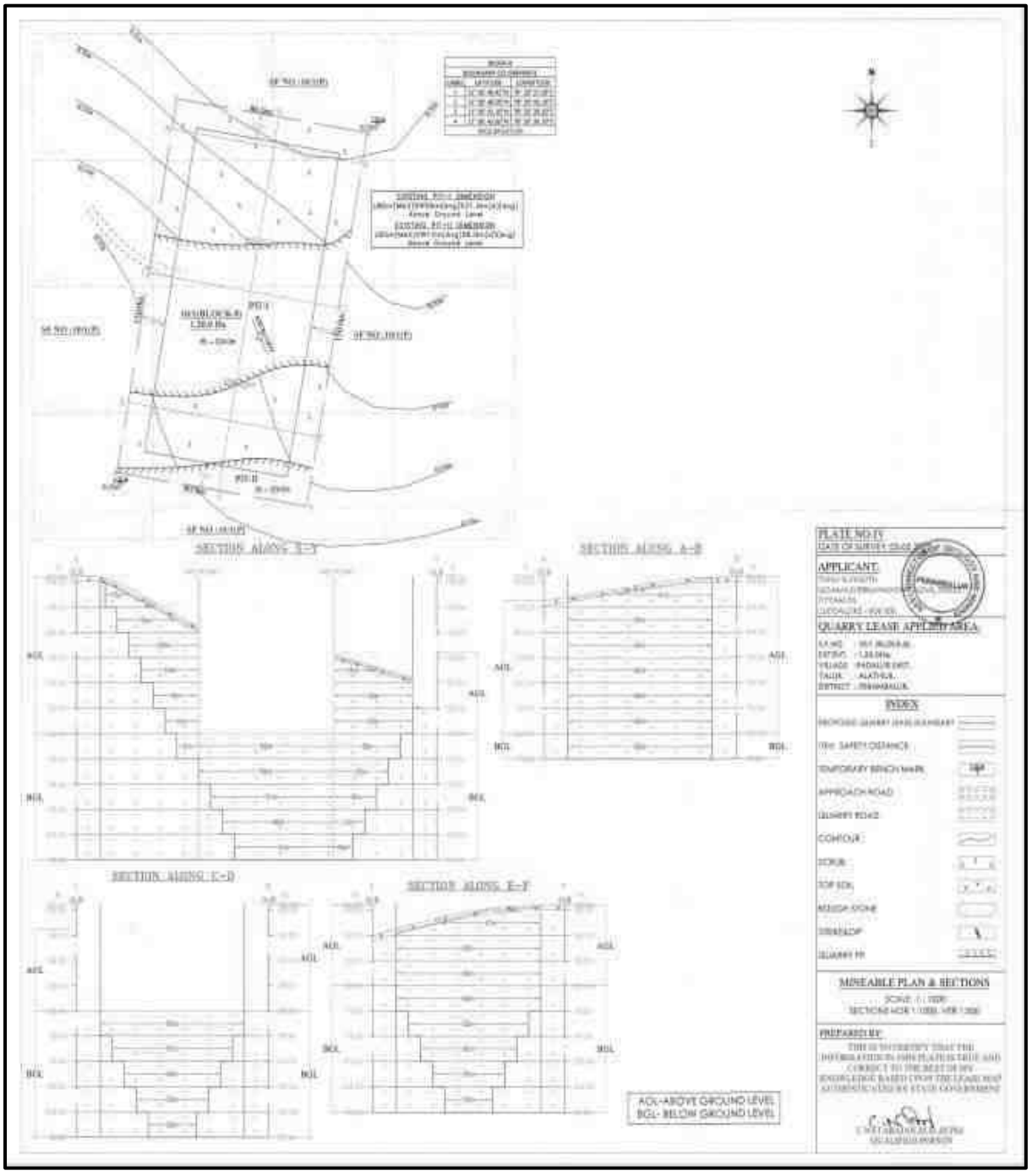


Figure 2.8 Mineable Plan & Sections

Table 2.7 – Machinery Details

S.NO	Name of the Equipment	Capacity	Requirement
1	Excavator with Rock breaker attachment	0.90 m3	1
2	compressor	400 psi	1
3	jack hammer	32 dia hole mm	2
4	Tipper	5/10 T	3

2.8.2 DRILLING AND BLASTING PARAMETERS

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

Diameter of the hole	32-36 mm
Spacing	0.6m
Depth	1 to 1.5 m
Burden of hole	0.6m
Pattern of hole	Zigzag
Inclination of hole	70^0 from horizontal
Number of holes	82
Powder factor	6Ts/Kg of Explosives
Total explosive required	41 Kg slurry Explosives
Charge / hole	0.5Kg
Blasting time	12-2 Pm

2.8.3 TYPE OF EXPLOSIVE

Slurry explosive is proposed for shattering and heaving effect for removal of rough stone. No deep hole drilling or primary blasting is proposed. The Project Proponent have agreement with A.R & Co to carry out the blasting operation for the proposed quarry.

2.8.4 STORAGE OF EXPLOSIVES

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

2.8.5 PRODUCTION SCHEDULE

The year wise production schedule upto lease period of 5 years is given below,

Table 2.8 Year wise Production Plan

Year	Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Topsoil in m^3	Rough stone in m^3	Bulk Density	Topsoil in Ts	Mineable Reserves of Rough stone in Ts
I	XY-AB	Above Ground Level	I	45	61	1	2745		2	5490	
			II	10	41	5		2050	2.75		5637.50
			III	6	60	5		1800	2.75		4950.00
	XY-EF		I	34	61	1	2074		2	4148	
			II	15	42	5		3150	2.75		8662.50
			III	33	60	5		9900	2.75		27225.00
			IV	33	60	5		9900	2.75		27225.00
Total							**4819**	**26800**		**9638**	**73700.00**
II	XY-AB	Above Ground Level	III	18	60	5		5400	2.75		14850.00
			IV	29	60	5		8700	2.75		23925.00
			V	24	60	5		7200	2.75		19800.00
			VI	19	60	5		5700	2.75		15675.00
Total								**27000**			**74250.00**
III	XY-AB	Above Ground Level	VII	14	60	5		4200	2.75		11550.00

		Below Ground Level	VIII	9	60	5		2700	2.75		7425.00
	XY-CD		VIII	56	60	5		16800	2.75		46200.00
	XY-EF		V	10	60	5		3000	2.75		8250.00
Total								**26700**			**73425.00**
IV	XY-EF	Below Ground Level	V	18	60	5		5400	2.75		14850.00
			VI	23	50	5		5750	2.75		15812.50
	XY-CD		IX	56	50	5		14000	2.75		38500.00
			X	6	40	5		1200	2.75		3300.00
Total								**26350**			**72462.50**
V	XY-CD	Below Ground Level	X	45	40	5		9000	2.75		24750.00
			XI	46	30	5		6900	2.75		18975.00
			XII	41	20	5		4100	2.75		11275.00
	XY-EF		VII	18	40	5		3600	2.75		9900.00
			VIII	13	30	5		1950	2.75		5362.50
			IX	8	20	5		800	2.75		2200.00
Total								**26350**			**72462.50**
Grand Total							**4819**	**133200**		**9638**	**366300.00**

Total Production for Five years – 1,33,200 Cu.m with ultimate depth of 56m (31m above ground level and 25m below ground level).

Peak Production – 27000 Cu.m (2nd year)

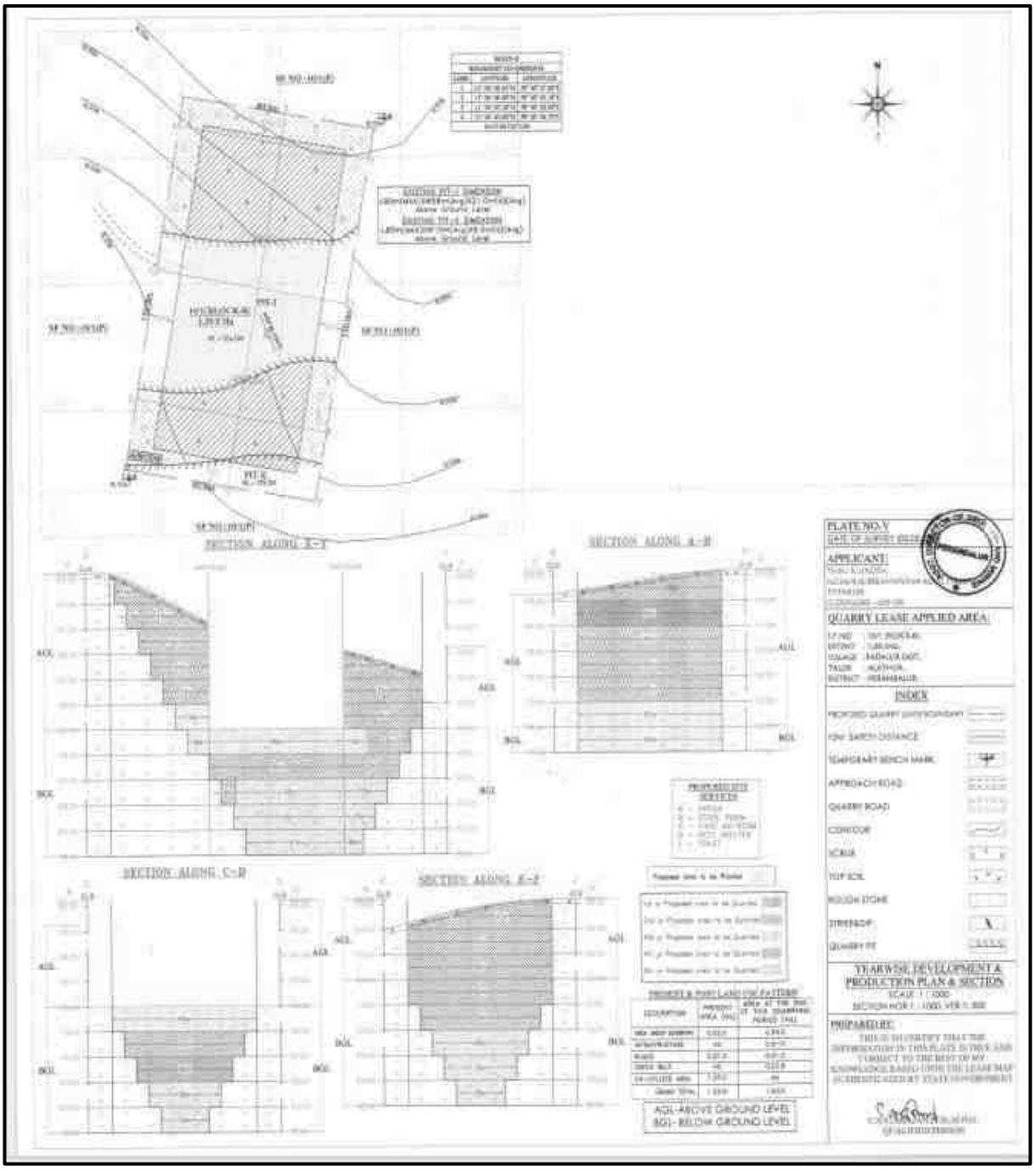


Figure 2.9 Year wise Production Plan & Sections

2.8.6 DISPOSAL OF WASTE

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

2.9 CONCEPTUAL MINING PLAN / FINAL MINE CLOSURE PLAN

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

The ultimate pit size is designed based on certain practical parameters such as economical depth of mining, safety zones, permissible area, etc. Conceptual cross section and mine closure plan is given in Figure 2.10.

Table 2.9 - Ultimate Pit Dimension

Pit	Length in m (Max)	Width in m (Max.)	Depth in m (Max.), bgl
I	140	68	56m (31m above ground level and 25m below ground level)

Land use pattern of the Project area

Description	Present Area in Ha.	Area at the end of life of Quarry in Ha.
Quarrying pit	0.53.0	0.95.2
Infrastructure	Nil	0.01.0
Roads	Nil	0.01.0
Greenbelt	Nil	0.22.80
Unutilized	0.67.00	Nil
Total	**1.50.0**	**1.20.0**

- At the end of life of mine, the excavated mine pit / void of 0.95.20 Ha. will act as artificial reservoir for collecting rain water and helps to meet out the demand or crises during drought season.
- After mine closure the greenbelt (0.22.80 Ha.) will be developed along the safety barrier and top benches and 0.02 ha are approach road and Infrastructure.

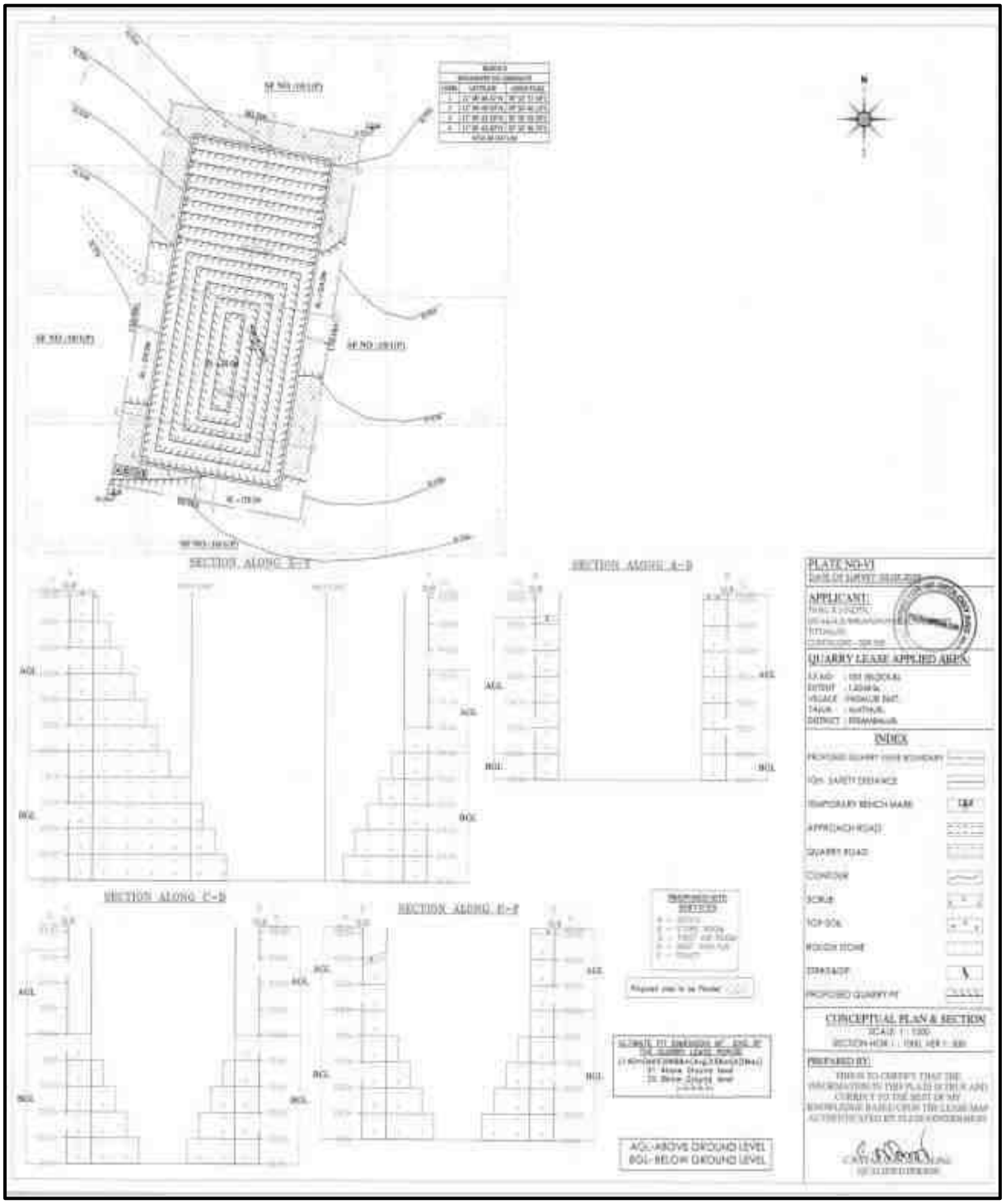


Figure 2.10 Conceptual Plan And Cross Section

2.10 PROJECT REQUIREMENT

2.10.1 WATER REQUIREMENT AND SOURCE

The total water requirement estimated for the quarry is 5.0 KLD. The required water will be procured from outside agencies initially and later rainwater harvested in the mine pit shall be used other than drinking purpose.

Table 2.10 Details of Water requirement

Activity	Water Requirement in KLD
Drinking & Domestic	1.5
Dust Suppression	1.5
Greenbelt Development	2.0
Total	5.0

2.10.2 POWER AND FUEL REQUIREMENT

All the equipment will be diesel operated. No electricity is needed for mining operation. The minimum power requirement for office, etc will be met from state grid. 1,06,560 Litres HSD for entire life of the mine.

2.10.3 EMPLOYMENT GENERATION

The project will provide employment opportunities totally to 10 persons directly and 15 indirectly.

Skilled	Operator	6 Nos
	Mechanic	1 No
	Mines Manager	1 No
	Fore Man / Mate	2 Nos
Semi-Skilled	Driver	3 Nos
Unskilled	Labours	12 Nos
Total		**25 Nos**

2.10.4 INFRASTRUCTURE REQUIREMENT

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

2.11 TRAFFIC STUDY:

The final product will be transported through Padalur Village Road located at 630 m on south side of the area.

.

Mineral Transportation

Table 2.11 Mineral Transportation			
Production Per day in tons			
Quarry	**Quarry Name**	**Total Mineral in tons per day**	**No. of Lorry Load per day**
P1 (Proposed)	Thiru.R.Vinoth	247	25
P2 (Proposed)	Thiru.R.Rajkumar	579	58
P3 (Proposed)	M/s.Mars Mines	385	39
P4(Proposed)	Thiru.Hariharan.L	329	33
P5(Proposed)	Thiru.P.Velmurugan	220	22
P6(Proposed)	M/s.SR Mines and Minerals	656	66
P7 (Proposed)	Thiru.M.Thangaraj	233	23
P8(Proposed)	Anjaneya Minerals	515	52
P9(Proposed)	P. Velmurugan	1818	182
Total		**4982**	**500**

The proposed projects will bring 500 trips per day.

METHODOLOGY

Vehicle Count

The vehicles passing through the road (in both ways) were counted separately for 24 hours at the one selected location from 0600 hrs to 0600 hrs next day continuously. Category wise vehicle counting has been done continuously and recorded in the traffic volume count on hourly basis under respective categories.

Categorization of Traffic

The engine driven vehicles were categorized into various heads viz. two wheelers, three wheelers, four wheelers and trucks/bus.

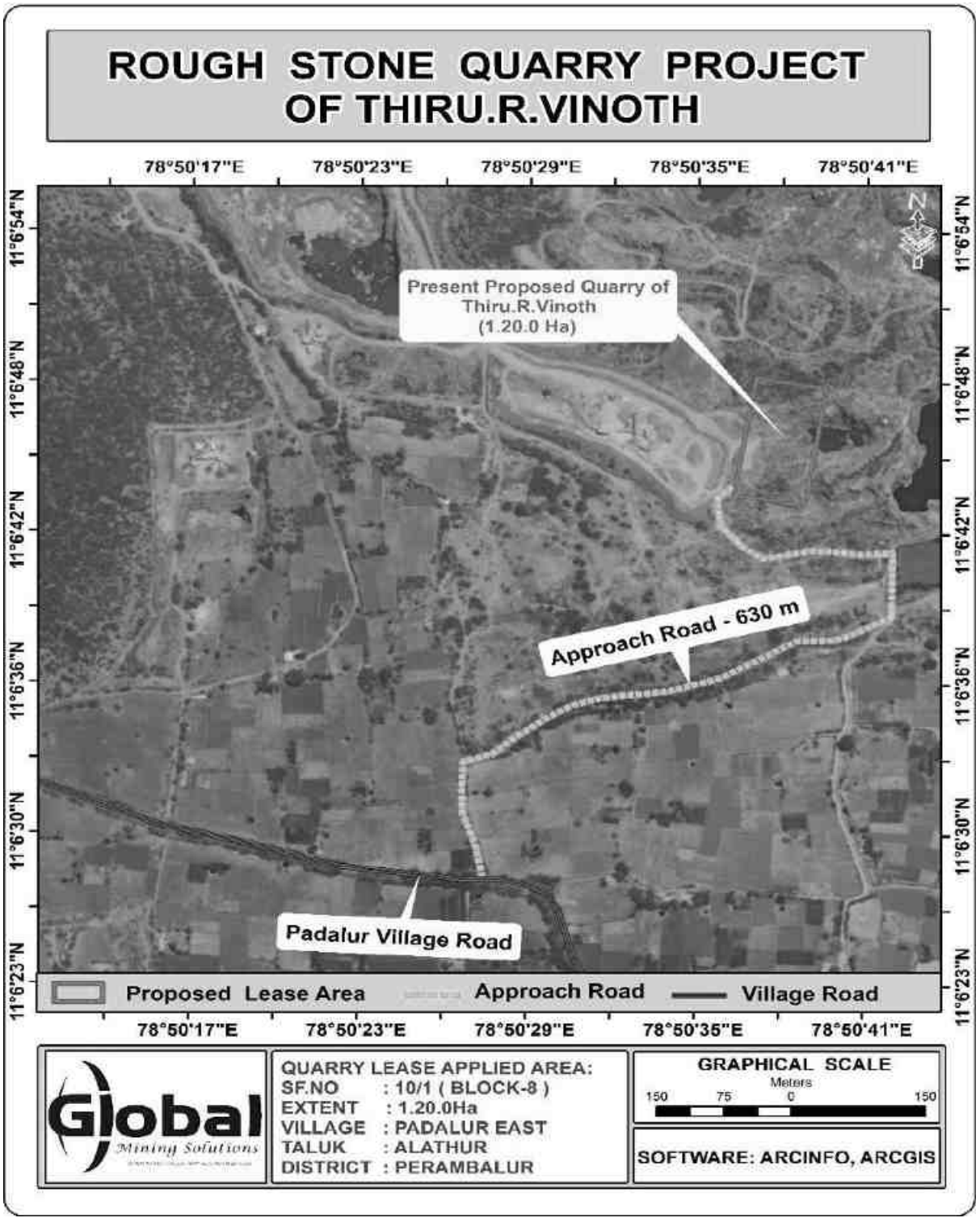


Figure 2.11 Mineral Transport Route

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

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

Table 2.12 Existing Traffic Flow

Station Code	HMV		LMV		2/3 Wheelers		Total PCU
	No	PCU	No	PCU	NO	PCU	
1	43	129	35	35	142	71	235

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

Table 2.13 – Mineral Hourly Transportation Requirement

Capacity of trucks	No Trips per day Cumulatively	Volume in PCU	PCU Per hour considering 8 HOURS
10 tonnes	500	1500	188

Table 2.14 - Summary of Traffic Volume

Route	Existing Traffic Survey in PCU	Incremental Traffic Survey due to project	Total Traffic Survey Volume	Hourly capacity in PCU as per IRC -1960 guidelines
Padalur Village Road	235	188	423	1500

- As per the IRC 1960 this existing village road can handle 1500 PCU in hour hence there will not be any conjunction due to this proposed transportation.

Table 2.15 - Modified Level of Service

Sampling Location	Existing Volume (PCU/hr)	Existing Volume/ Capacity ratio	Additional Volume (PCU/hr)	Modified Volume (PCU/hr)	Modified Volume/ Capacity ratio	Modified LOS
Padalur Village Road	235	0.15	188	0.12	0.27	A*

(* A – Free Flow)

2.11.1 PROJECT COST

The Project cost, including Operational, EMP & CER is **290.42 Lakhs**. The proponent is financially sound to meet this financial requirement. Besides, he also has the technical capability to work at quarry.

A. FIXED ASSERT COST		
Particulars	**Amount**	
Land cost	214.00 Lakhs	
First aid room	1.00 Lakhs	
Labour Shed	1.00 Lakhs	
Sanitary Facility	1.00 Lakhs	
Total	**217 Lakhs**	
B. OPERATIONAL COST		
Machineries	50.00 Lakhs	
Fencing cost	1.50 Lakhs	
Total	**51.50 Lakhs**	
C. EMP COST (FOR 5 YEARS) in Lakhs		
Mitigation Measures	**Capital cost**	**Recurring Cost /Annum**
Air Environment	5.52	0.90
Noise Environment	0.30	0.02
Waste Management	0.25	0.12
Mine Closure	0.23	0.05
Implementation of EC, Mining Plan & DGMS Condition	0.62	0.72
Total	**6.92**	**1.81**
The total EMP Cost of 16.92 Lakhs for a period of five years have been proposed. i.e., Capital cost of Rs. 6.92 Lakhs + Recurring cost of Rs. 10.00 lakhs (@ 5% Escalation).		
Total	**16.92 Lakhs**	
D. CER COST		
CER Cost	**5.00 Lakhs**	
Grand Total (A+B+C+D)	**290.42 Lakhs**	

A. **Fixed asset cost = 217.00 Lakhs**

B. **Operational cost = 51.50 Lakhs**

C. **EMP Cost = 16.92 Lakhs**

D.	**CER Cost**	=	**5.00 Lakhs**
Total Project cost (A+B+C+D)		=	**290.42 Lakhs**

Total project cost of this Rough stone Quarry is Rs. 290.42 Lakhs.

2.11.2 PROJECT IMPLEMENTATION SCHEDULE

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

***

3.0 DESCRIPTION OF THE ENVIRONMENT

3.1 INTRODUCTION

As a precursor for the prediction of various types of environmental impacts likely to arise due to implementation of the project, it is essential to establish the baseline environmental setting of the project. Details of the baseline environmental parameters are required for decision making for the project design, implementation and operation from the environmental point of views. The data is to be generated through primary data collection (direct monitoring) and secondary sources (published data).

This chapter describes the environmental baseline data of core zone and surrounding areas of the project. The environmental baseline data includes the physical environment (comprising climate & meteorology, air, water, Noise and land components), biological environment and socio-economic environment, which may get affected due to the this proposed project.

3.2 STUDY AREA

The study area has been divided into two zones, namely, core and buffer zones. Core zone is considered as the total lease area of mine lease, while buffer zone encompasses an area of 10 km radius distance from the periphery of core zone. This chapter incorporates the description of existing environmental status in an area encompassed within 10 km radius from the boundary of mine lease. The environmental data for the following Environmental components were collected in the study area:

- Micro-meteorological monitoring in one of the representative locations.
- Ambient air quality study comprising gaseous, particulate matter at 7 different locations.
- Water quality analysis in 10 different locations (7 Ground Water + 3 Surface Water)
- Noise levels monitoring in 7 different locations
- Soil quality analysis in 7 locations.
- Flora & Fauna status.

- Land use & Land Cover.
- Socio-economic survey.

3.3 STUDY PERIOD

The above-mentioned studies have been carried out systematically and meticulously as per relevant IS codes, CPCB, MoEF&CC guidelines during March to May 2025.

3.4 MONITORING LAB

The baseline information for air, water, noise, and soil was analysed by M/s. Shrient Analytical and Research Labs Pvt Ltd, # 416/15, Dharga Road, Perungalathur, West Tambaram, Chennai – 600 045. (Accreditated by NABL as ISO/IEC/17025:2017) between March to May 2025.

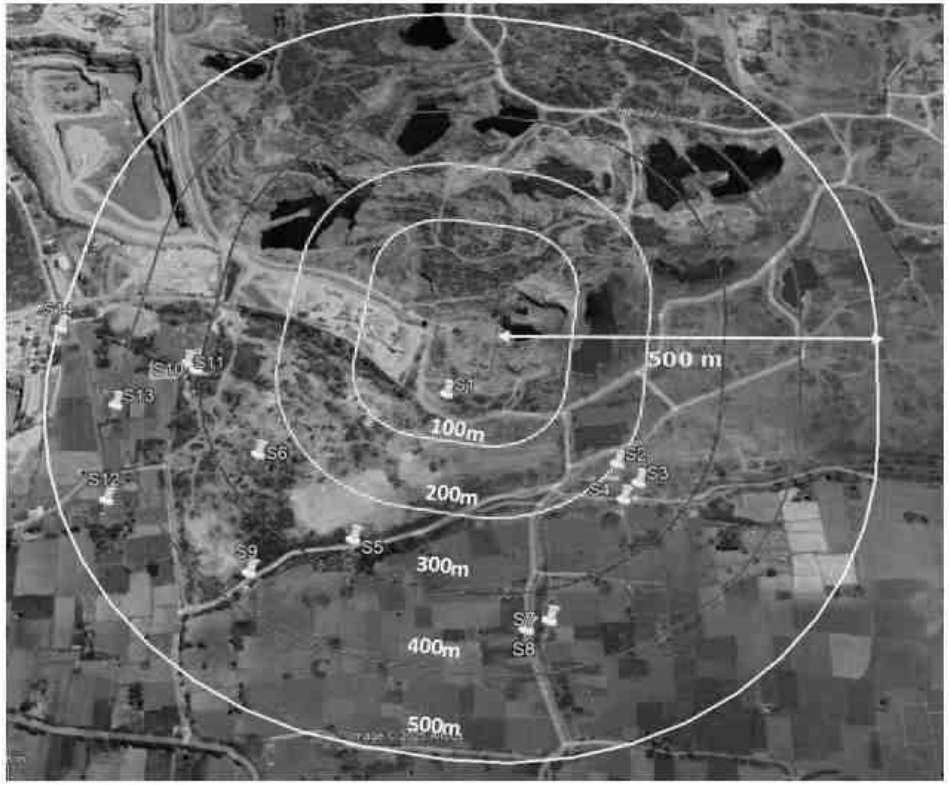
3.5 ENUMERATION OF THE STRUCTURES LOCATED WITHIN 500 M RADIUS FROM THE PROPOSED QUARRY SITE

A Site survey has been conducted to identify and list structures located within a 500 m radius from the proposed Quarry. Within a 500-meter radius, there are 14 structures, including 11 agricultural sheds, a motor room, a stream barrier, and a water tank. There are no habitation within 500 m radius and nearest habitation is Padalur – 640 m – (S). The details structures located within 300 m radius are given in Figure 3.1.

Environmental Features Located within 500 m Radius:

There are two tank situated on south and southeastern side of the are and is 51 m and 170 m away from the lease area.

ENUMERATION OF THE STRUCTURES LOCATED WITHIN 500m RADIUS FROM THE PROPOSED PROJECT SITE



Code	Radius	No. of Structure	Structure Details
S1	0 - 100	1	S1 – Water Tank – 60 m (S)
-S2	100 - 200	1	S2 – Stream Barrier – 210 m (SE)
S3 – S6	200 - 300	4	S3 – Agriculture Shed – 243 – (SE) S4 – Agriculture Shed - 245 m (SE) S5 –Agriculture Shed – 290 m (SW) S6 – Motor Room – 267 m (SW)
S7, S8, S10, S11	300 – 400	4	S7 – Agriculture Shed – 352 m (S) S8 – Agriculture Shed – 363 m (S) S10 – Agriculture Shed – 310 m (W) S11 – Agriculture Shed – 320 m (W)
S9, S12, S13, S14	400 – 500	4	S9 – Agriculture Shed – 405 m (SW) S12 – Agriculture Shed – 452 m (SW) S13 – Unsured broken shed – 413 m (W) S14 – Agriculture Shed – 490 m (W)

Figure 3.1 Google Image showing structures located within 500 m radius

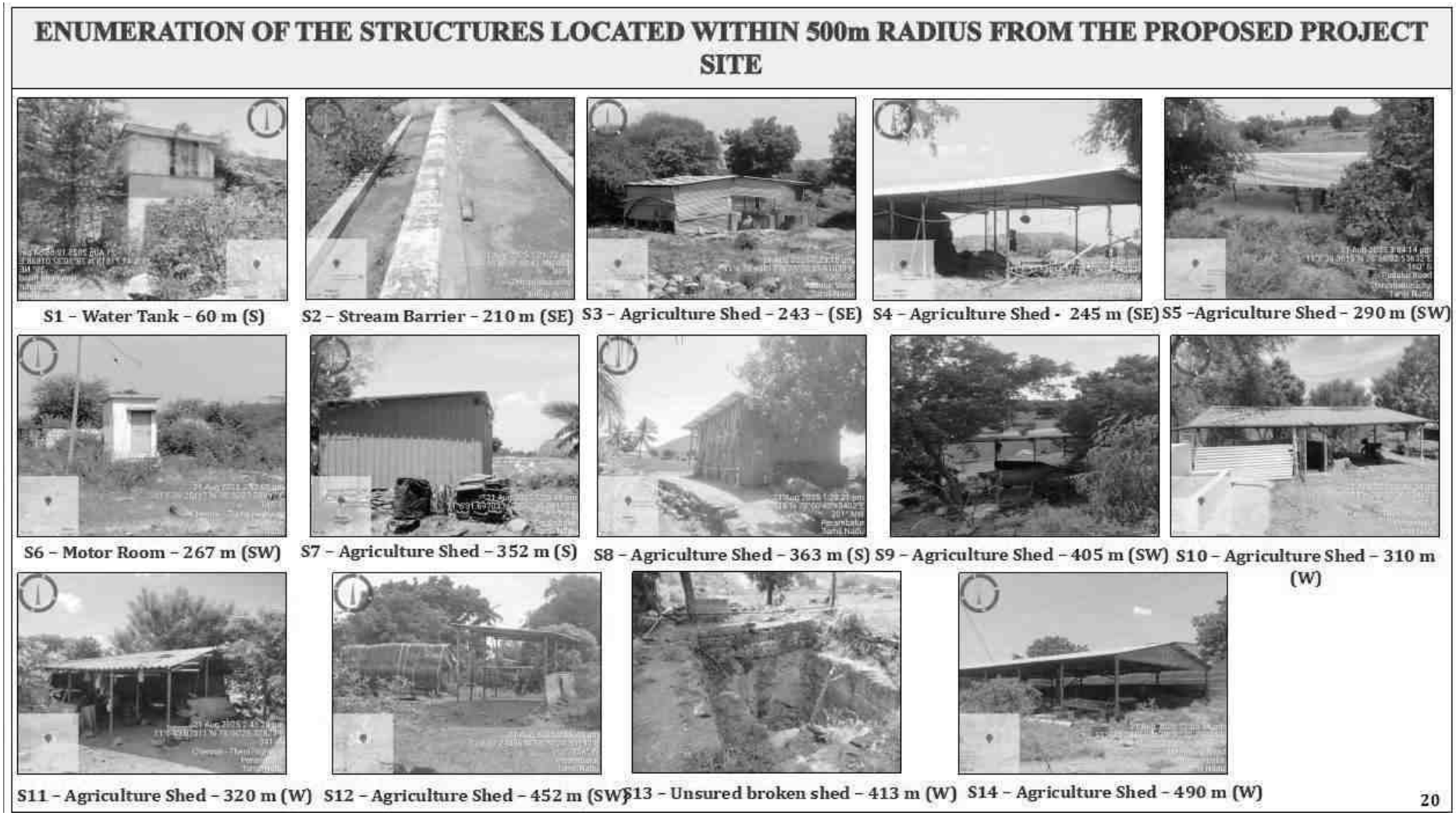


Figure 3.2 Photographs on structures located 500 m radius

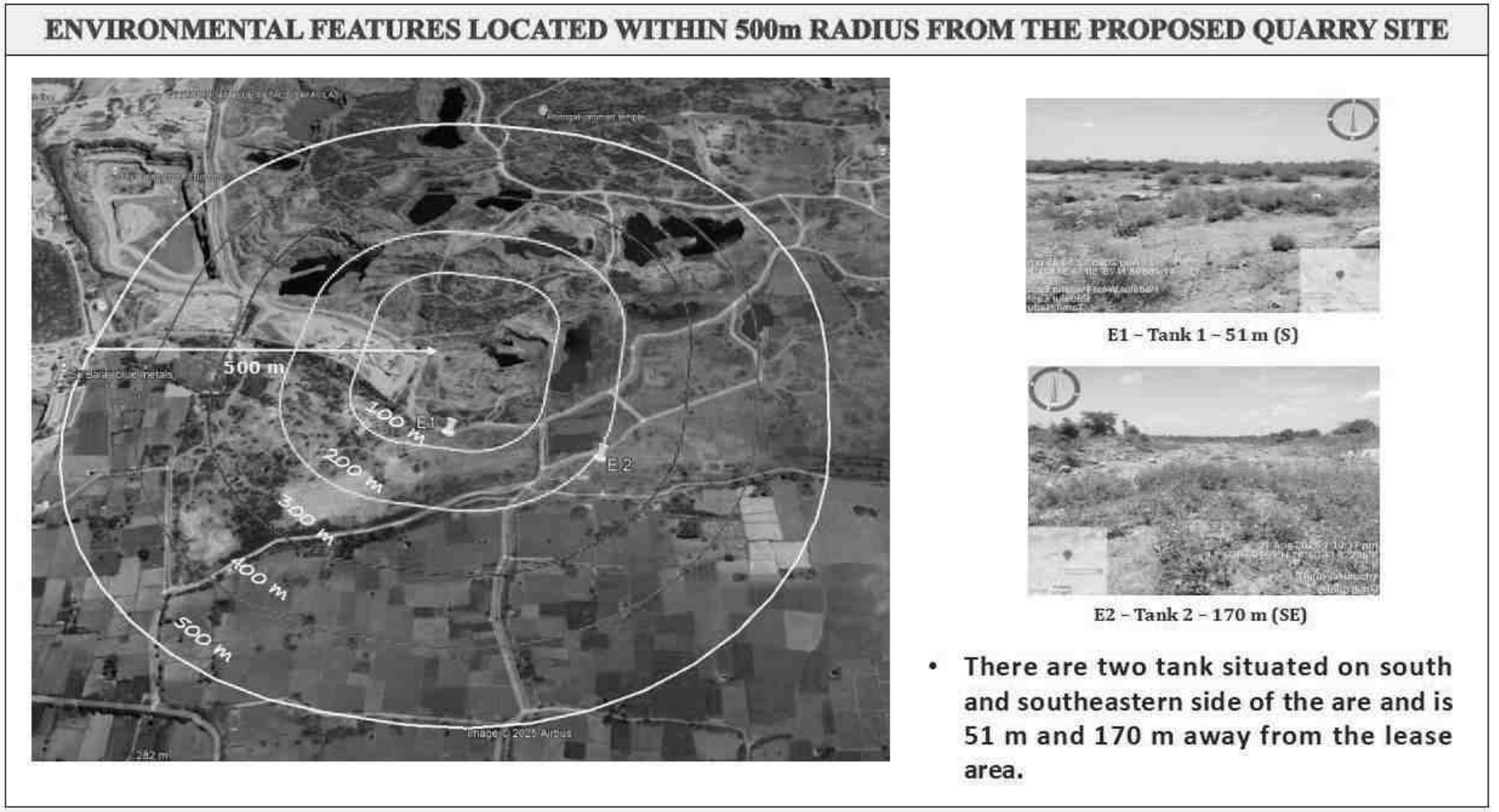


Figure 3.3 Existing Environmental Features Within 500m Radius

3.6 ENVIRONMENTAL SETTINGS OF THE PROJECT

The Environmental settings of the project covering 10km radius of study area is given in Table 3.1. The study area map is given in Figure- 3.3 and satellite image showing 10 km radius is given in Figure 3.4.

Table 3.1 Environmental Settings of the Study Area – 10 km radius

S.NO	Particulars	Description
1.	Latitude & Longitude	Latitude: 11°06'43.18"N to 11°06'48.42"N Longitude: 78°50'36.79"E to 78°50'40.18"E
2.	The altitude of the area	155m (MSL)
3.	Topography	hilly terrain
4.	Land use of M.L. area	It is Government land the applicant has obtained tender from the Government.
5.	Extent of the Lease area	1.20.00 Ha.
6.	Nearest Highway	The State Highway (SH-142) Perambalur – Thuraiyur – 12.3 Km – NW. The National Highway (NH-38) Viluppuram – Trichy - 1.2 km – NW.
7.	Nearest Railway Station	Sillakkudi RS – 21.00 km (E)
8.	Nearest airport	Tiruchirapalli Airport – 40.52 km (SW)
9.	Nearest Village	Padalur – 640 m – (S)
10.	Nearest Town	Padalur west – 3.0 km (SW) & Perambalur – 14.00 km (N).
11	Water Bodies	**Core Zone** – NIL **Buffer Zone** • Tank - 51 m (S), • Tank - 170 m (SE), • Nattaramangalam Eri - 1.53 km (W), • Therani Lake - 3.19 km (E), • Puthukkurichi Eri - 3.19 km (NE), • Nanthai River - 3.8 km (S), • Maniyankurichy Eri - 6.50 km (W), • Stream - 7.17 km (SW) & • Uppar R - 8.84 km (SW)

12	Historical Places/Places of Tourist/ Archeological site	NIL within 10 km radius
13.	Environmental sensitive areas, Protected areas as per Wildlife Protection Act, 1972 (Tiger reserve, Elephant reserve, Biospheres, National parks, Wildlife sanctuaries, community reserves and conservation reserves)	Trichy Zoological Park – 7.88 km (SW) Karaivetti Bird Sanctuary – 25.00 km (SE)
14	Reserved / Protected Forests	Naranamangalam R.F – 3.60 km (NW), Nedungur R.F. – 3.56 km (S), Maniyankurichi R.F – 4.29 km (SW), Velur R.F – 5.49 km (NW), Siruvachur R.F – 6.11 km (NW) & Maramareddi palaiyam R.F. – 7.40 km (SW)
15	Defence Installations	NIL within 10 km radius
16	Seismic Zone	Zone II
17	Interstate boundary	NIL

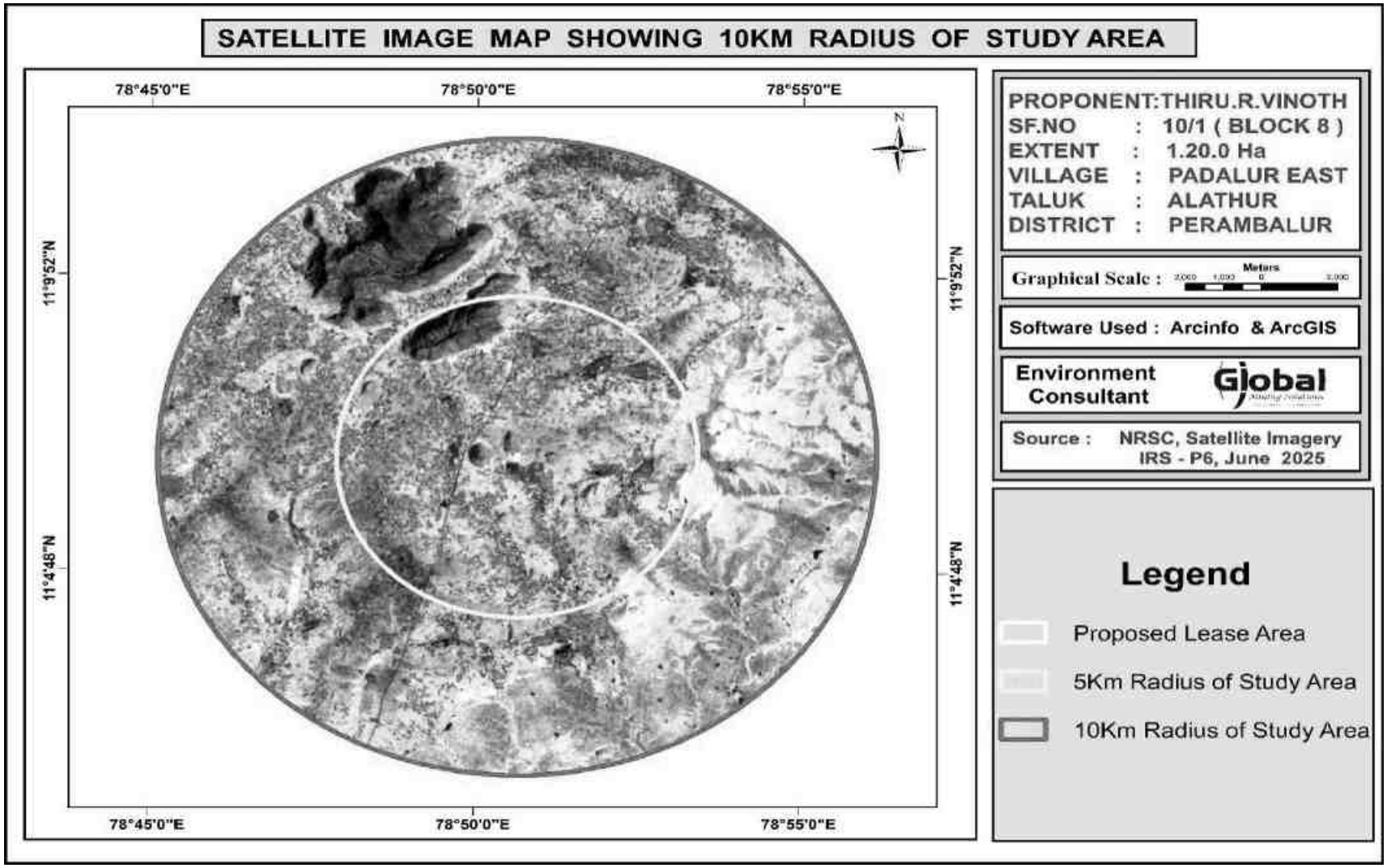


Figure 3.4 Satellite Image of the Study Area

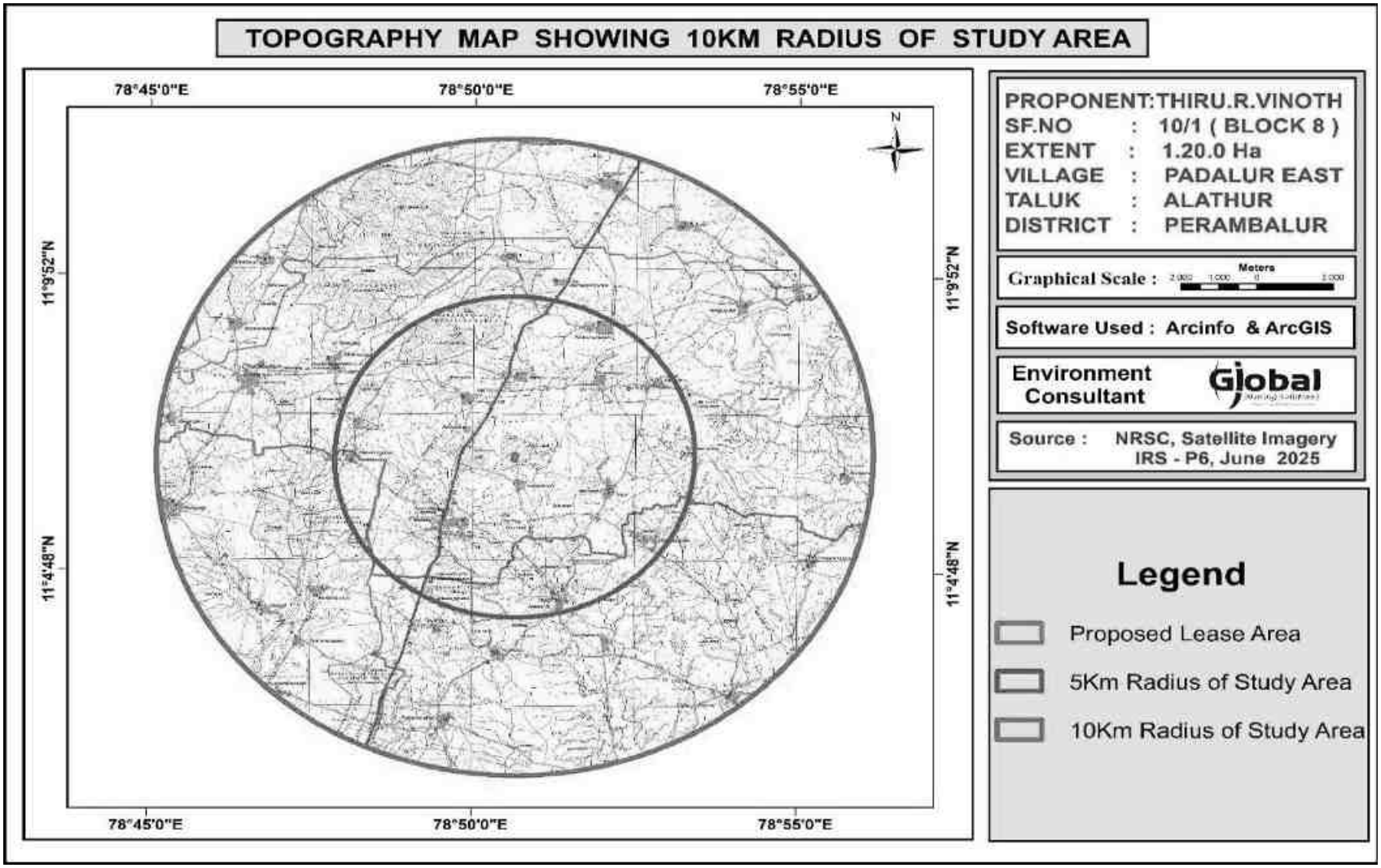


Figure 3.5 Topo map Showing Study Area

3.7 EXISTING ENVIRONMENTAL SCENARIO

3.7.1 MICRO- METEOROLOGY

Meteorology is the key to understand the Air quality. The essential relationship between meteorological condition and atmospheric dispersion involves the wind in the broadest sense. Wind fluctuations over a very wide range of time, accomplish dispersion and strongly influence other processes associated with them.

3.7.1.1 CLIMATE AND RAINFALL DATA

Perambalur district enjoys a typical semi-arid climate with hot summers and moderately cool winters. The hottest season is from March to May. During the period the maximum temperature often exceeds 40°C. The winter season is spread over two months viz. January and February and the nights are cool and pleasant. The district generally has a high humidity.

Table 3.2 Rainfall Data

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

Source: TWAD, Perambalur

Seismic Sensitivity

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

Table 3.3 Meteorological Data Recorded at Site

S.NO	Parameters		March to May 2025
1.	Temperature (^{0}C)	Min	13.5
		Max.	38.7
		Avg	26.0
2.	Relative Humidity (%)	Min	59
		Max	82
		Avg	71
3.	Wind Speed (m/s)	Min	0
		Max	4.6
		Avg	2.3
4.	Wind Direction	Blowing From – W	

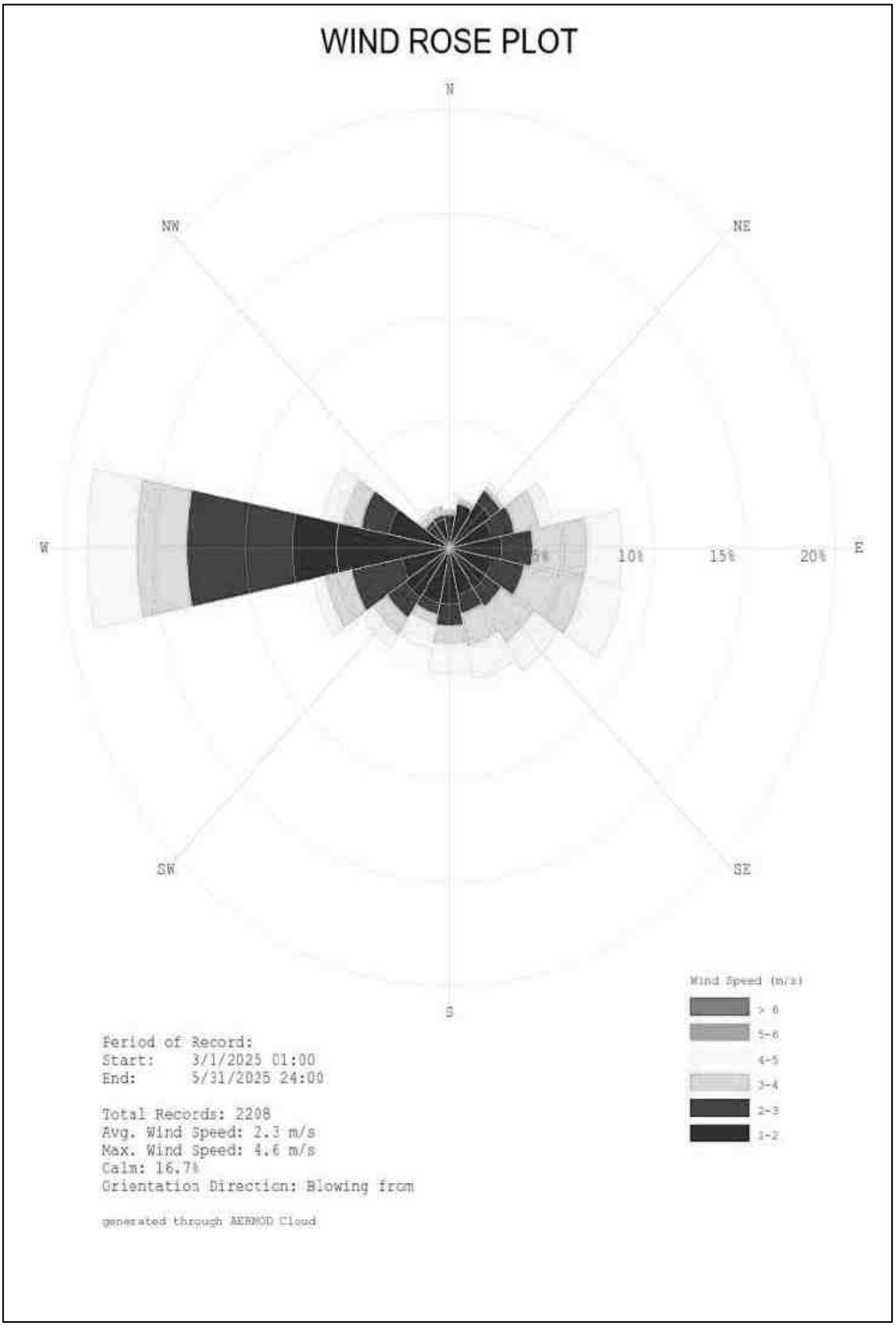


Figure 3.6 Wind Rose Diagram – Blowing From (March – May 2025)

3.7.2 AIR ENVIRONMENT

The prime objective of the ambient air quality study is to assess the existing air quality of study area and its conformity to NAAQS. The observed sources of air pollution in the study area are industrial, traffic and domestic activities. The baseline status of the ambient air quality has been established through a scientifically designed ambient air quality monitoring network considering the followings:

- Meteorological condition on synoptic scale
- Topography of the study area;
- Representatives of regional background air quality for obtaining baseline status;
- Location of residential areas representing different activities;
- Accessibility and power availability; etc.,

3.7.2.1 SAMPLING & ANALYTICAL TECHNIQUES

Table 3.4 Methodology for Air Quality Monitoring

Air Quality Monitoring		
1.	Monitoring Period	Summer (March to May 2025)
2.	Monitoring Location	The monitoring locations for ambient air study is given in Table – 3.5 and Figure 3.6.
Methodology		
3.	A. Sampling	(IS-5182:Part 1:2018)
	B. Analysis	
	Parameters	**Protocol**
4.	Particulate Matter (PM_{10})	Gravimetric (IS 5182: Part 23:2017)
	Particulate Matter (PM2.5)	Gravimetric (IS 5182: Part 24:2019)
	Sulphur Dioxide	Colorimetric (West & Gaeke Method) (IS 5182: Part 02: 2017)
	Nitrogen Dioxide	Colorimetric (Modified Jacob & Hocheiser Method) (IS 5182: Part 06:2017)
	Carbon Monoxide	CO Monitor
	Monitoring Frequency	2 days in a week, 4 weeks in a month for 3 months in a season.

3.7.2.2 FREQUENCY AND PARAMETERS FOR SAMPLING

Ambient air quality monitoring has been carried out with a frequency of two samples per week at Sevan (7) locations, adopting a continuous 24 hourly (3 shift of 8-hour) schedule for the period March to May 2025. The baseline data of ambient air has been generated for PM_{10}, $PM_{2.5}$, Sulphur Dioxide (SO_2), Nitrogen Dioxide (NO_2) and Carbon Monoxide Monitoring has been carried out as per the CPCB, MoEF & CC guidelines and notifications.

It was ensured that the equipment was placed preferably at a height of at least 1.8 to 2.2 m above the ground level at each monitoring station, for negating the effects of wind-blown ground dust. The equipment was placed at open space free from trees and vegetation which otherwise act as a sink of pollutants resulting in lower levels in monitoring results.

3.7.2.3 AMBIENT AIR QUALITY MONITORING STATIONS

Sevan (7) monitoring stations were set up in the study area as depicted in Figure 3.6 for assessment of the existing ambient air quality. Details of the sampling locations are as per given below.

Table 3.5 – Ambient Air Quality Monitoring Locations

S.NO	Location Code	Monitoring Locations	Latitude and longitude
1	A1	Within Mine Lease area	11° 6'45.97"N & 78°50'38.25"E
2	A2	Sridevi Mangalam	11° 6'45.19"N & 78°48'6.12"E
3	A3	Near Therani big lake	11° 6'47.20"N & 78°52'9.17"E
4	A4	Padalur West	11° 5'41.47"N & 78°49'45.65"E
5	A5	Alathur	11° 7'36.71"N & 78°50'15.75"E
6	A6	Pudhukkurichi	11° 8'5.47"N & 78°51'53.17"E
7	A7	Padalur	11° 6'17.30"N & 78°50'41.19"E

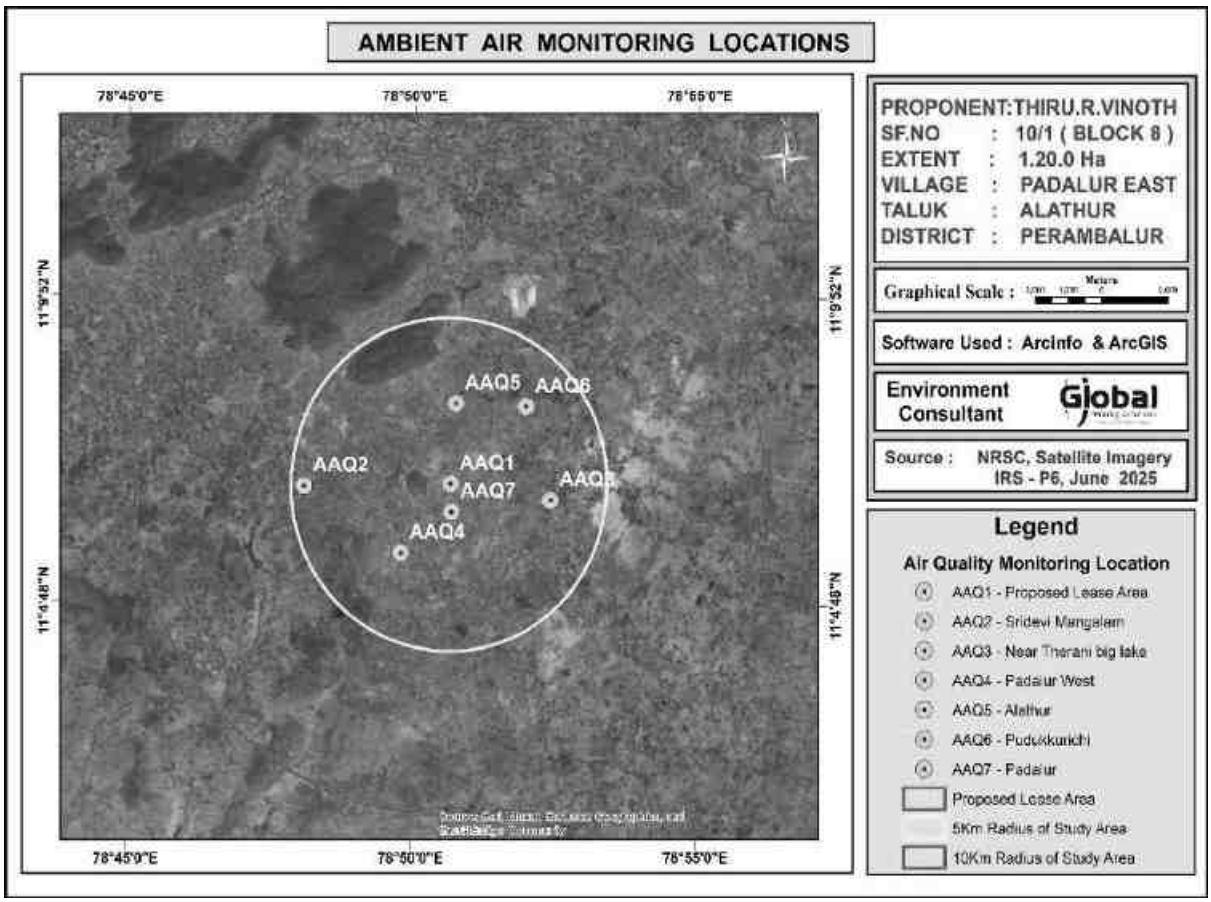
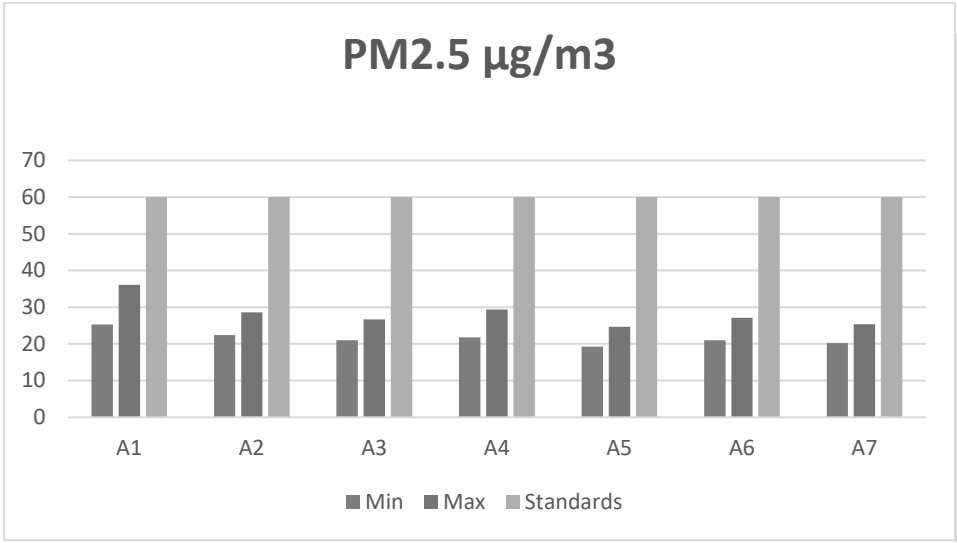
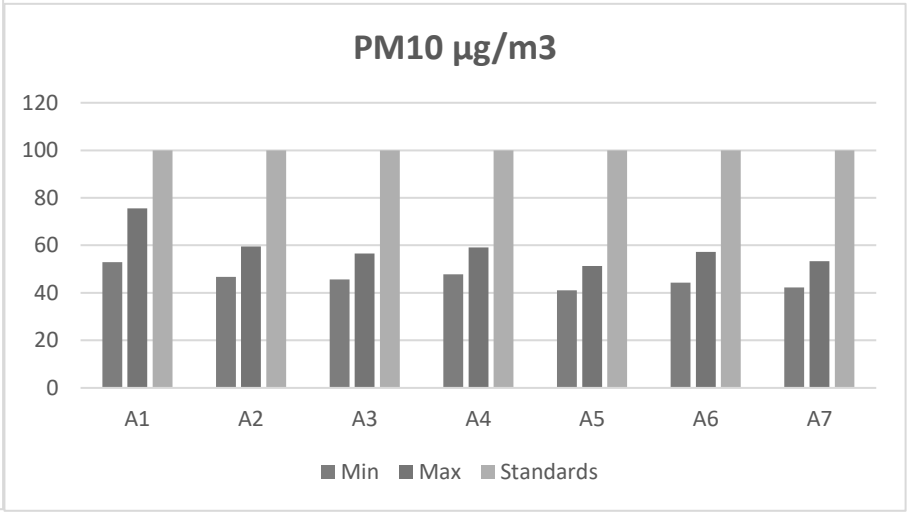


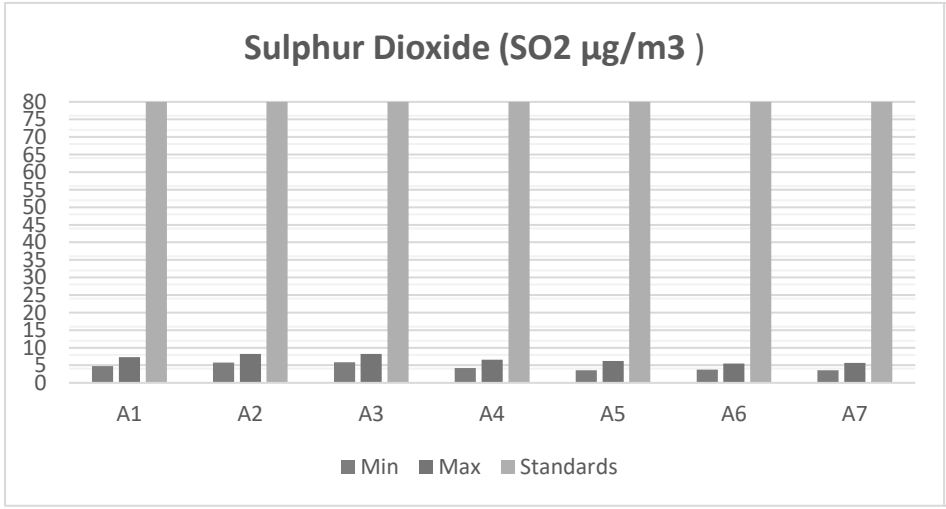
Figure 3.7 Ambient Air Quality Monitoring Locations

Table 3.6 Ambient Air Quality Data

		Ambient Air Quality									All Value in µg/m3		
	Parameters	PM10			PM2.5			SO2			NO2		
S.NO	Locations	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max
1	A1 - Within Mine Lease area	52.9	64.5	75.5	25.3	30.9	36.1	4.8	6.0	7.3	10.0	11.2	12.2
2	A2 - Sridevi Mangalam	46.7	53.4	59.5	22.4	25.6	28.6	5.8	7.0	8.2	8.9	10.0	11.0
3	A3 - Near Therani big lake	45.7	49.8	56.5	21.0	23.4	26.7	5.9	7.1	8.2	9.2	10.5	11.8
4	A4 - Padalur West	47.8	53.4	59.1	21.8	25.3	29.4	4.2	5.4	6.6	8.6	9.8	10.9
5	A5 - Alathur	41.0	45.7	51.3	19.3	22.0	24.7	3.6	4.9	6.2	7.8	9.0	10.1
6	A6 - Pudhukkurichi	44.3	50.0	57.2	21.0	23.7	27.1	3.8	4.8	5.5	6.2	7.3	8.5
7	A7 - Padalur	42.3	47.0	53.3	20.2	22.4	25.4	3.6	4.6	5.7	6.9	8.1	9.2
8	**CPCB NAAQS 2009**	**100**			**60**			**80**			**80**		







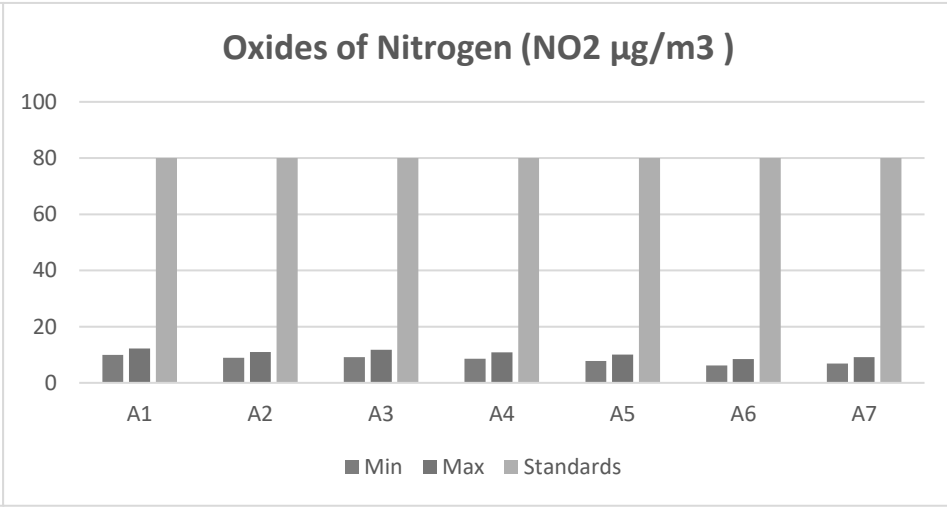


Figure –3.8 - Graphical Representation of Air Quality Data

3.7.2.4 DISCUSSION

From the table it is seen that, in the ambient air, the PM_{10} values were in the range of 41.0 – 75.5 µg/m3. $PM_{2.5}$ values were in the range of 19.3 – 36.1 µg/m3. SO_2 levels were ranging from 3.6 – 8.2 µg/m3. NO_2 levels were ranging from 6.2 – 12.2 µg/m3. While comparing with the NAAQ Norms laid by MoEF, all monitored values of PM10, PM2.5, SO2, NO2 & CO were found to be well within the prescribed standards. The CO values in the all locations found to be below detectable limit (DL – 1144 µg/m3).

3.7.3 WATER ENVIRONMENT

The water resources, both surface and groundwater play a significant role in the development of the area. The purpose of this study is to assess the water quality characteristics for critical parameters and evaluate the impacts on agricultural productivity, domestic community usage, recreational resources and aesthetics in the vicinity. The water samples were collected and transported as per the standard guidelines issued by CPCB for analysis.

3.7.3.1 METHODOLOGY

Reconnaissance survey was undertaken and monitoring locations were selected based on:

- Location of the major water bodies
- Location of project site, their water intake and effluent disposal locations
- Likely areas that can represent baseline conditions
- The water samples were collected and were analyzed for physical, chemical, and biological characteristics as per guidelines issued by IS code No.10500/2012.

3.7.3.2 SURFACE WATER

There are two tank situated on south and southeastern side of the area and is 51m and 170m away from the area.

The following water bodies are located in the buffer zone (10 km radius).

Tank - 51 m (S), Tank - 170 m (SE), Nattaramangalam Eri - 1.53 km (W), Therani Lake - 3.19 km (E), Puthukkurichi Eri - 3.19 km (NE), Nanthai River - 3.8 km (S), Maniyankurichy Eri - 6.50 km (W), Stream - 7.17 km (SW) & Uppar R - 8.84 km (SW).

The rainfall over the area is moderate, the rainwater storage in open wells, trenches is in practice over the area and the stored water acts as source of freshwater.

3.7.3.3 GROUND WATER

More or less 75% of Perambalur district is covered by Sedimentary formations like upper Gondwana, Cretaceous, Tertiary and Alluvial Deposits. The thickness of aquifer in this district various from 15.00 to 35.00m BGL. In gneissic formations, deep weathering has developed and moderate weathering in Charnockite formations.

In Perambalur District, during the pre-monsoon, the water level generally in declining trend ranges from G.L. to 15m. The depth of well below Ground Level 12.0m are become dry during hot season like May, June, July. In the post monsoon, the water level generally in upward trend due to rainfall and it may reach the Ground Level also.

3.7.3.4 SAMPLING LOCATIONS

Three (3) surface water samples and Seven (7) ground water samples were collected from the study area and were analysed for physio-chemical, heavy metals and bacteriological parameters in order to assess the effect of mining and other activities on ground water. The samples were analysed as per the procedures specified by CPCB, IS-10500:2012. The water sampling locations are given in Table 3.7 and shown as Figure 3.9 & 3.10.

Table 3.7 Water Sampling Locations

S.NO	Location Code	Monitoring Locations	Latitude and longitude
Surface Water			
1	SW1	Nattaramangalam Eri	11° 6'56.20"N & 78°49'42.63"E
2	SW2	Nanthai River (up Stream)	11° 5'2.72"N 78°49'37.01"E
3	SW3	Nanthai River (Down Stream)	11° 4'40.43"N & 78°50'36.17"E
Ground Water			
1	GW1	Within Mine Lease area	11° 6'45.97"N & 78°50'38.25"E
2	GW2	Sridevi Mangalam	11° 6'45.19"N & 78°48'6.12"E
3	GW3	Near therani big lake	11° 6'47.20"N & 78°52'9.17"E
4	GW4	Padalur West	11° 5'41.47"N & 78°49'45.65"E
5	GW5	Alathur	11° 7'36.71"N & 78°50'15.75"E
6	GW6	Pudhukkurichi	11° 8'5.47"N & 78°51'53.17"E
7	GW7	Padalur	11° 6'17.30"N & 78°50'41.19"E

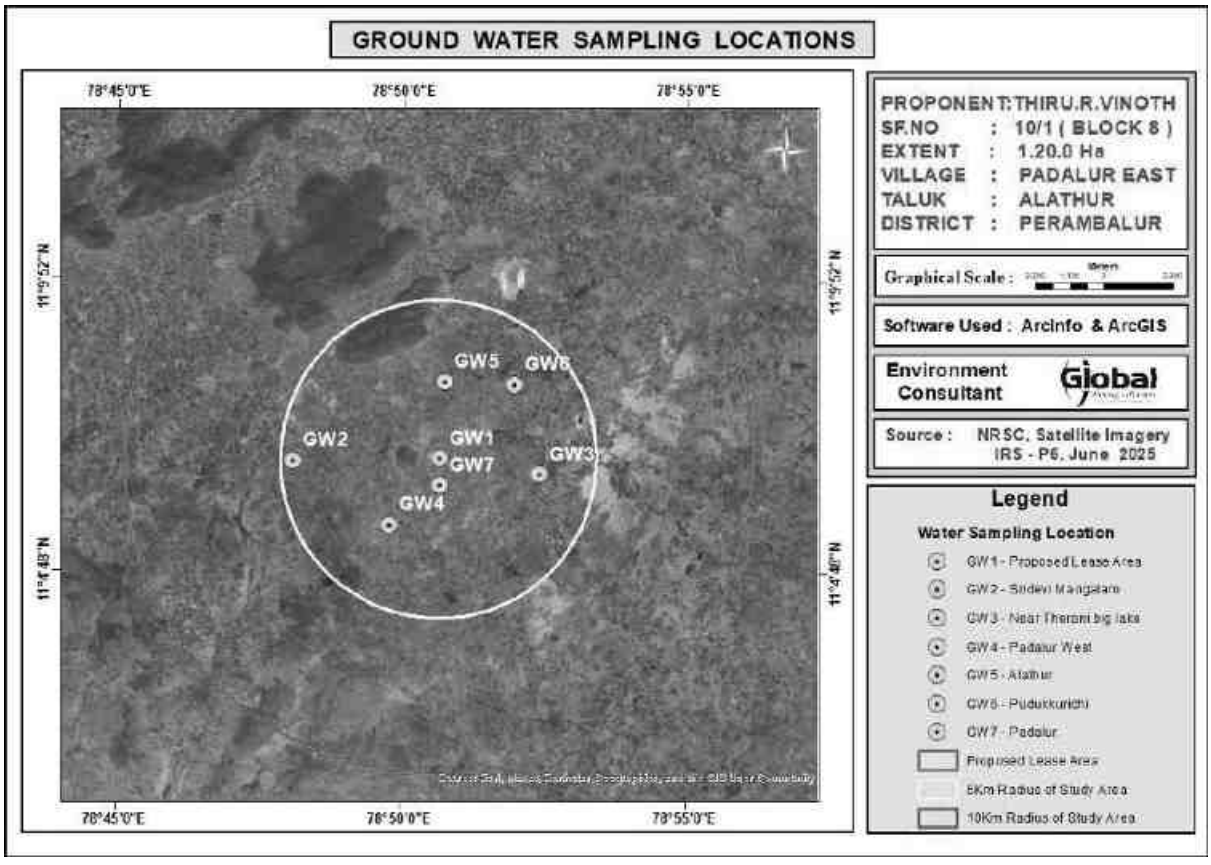


Figure 3.9 – Ground Water Monitoring Locations

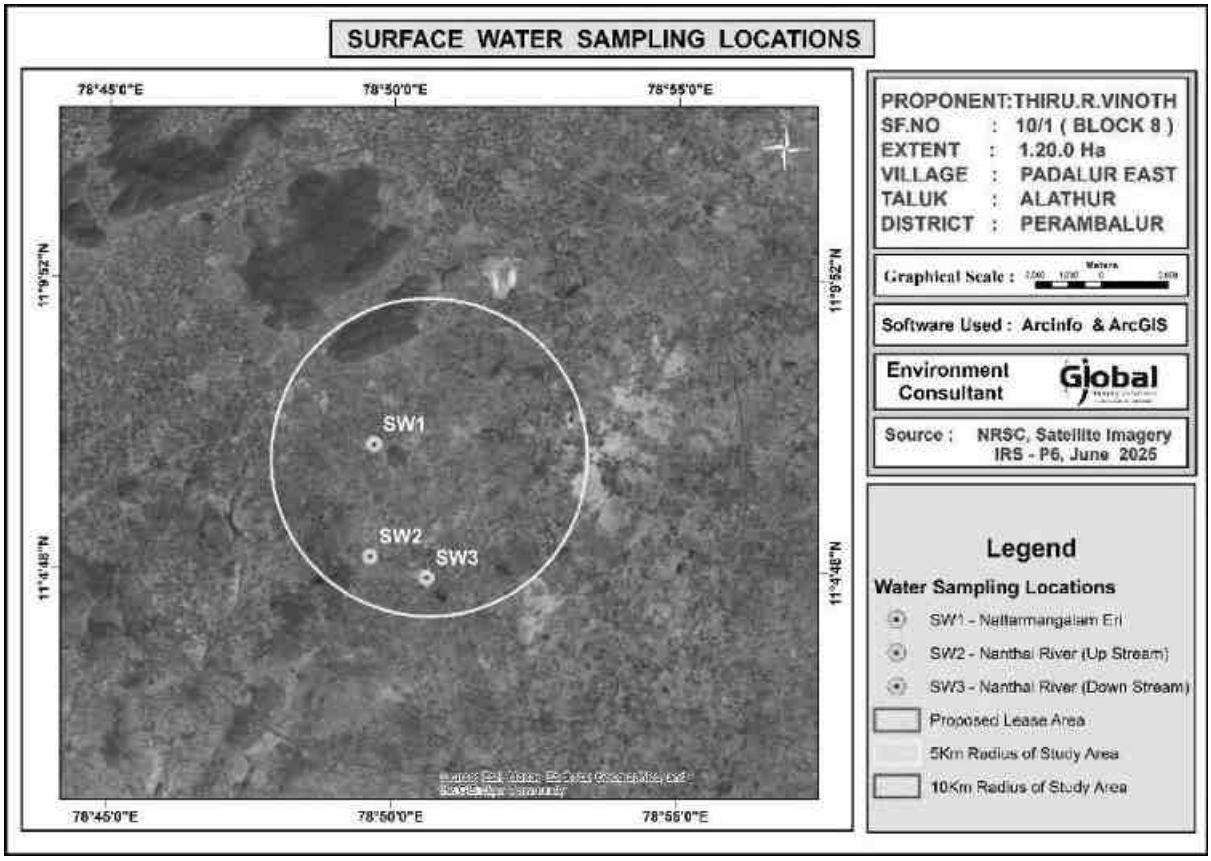


Figure 3.10 – Surface Water Monitoring Locations

Table 3.8 – Ground Water Analysis Results

Parameter	GW1	GW2	GW3	GW4	GW5	GW6	GW7	Standards as Per IS 10500: 2012	
								Acceptable Limits	Permissible Limits
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity, NTU	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1	5
pH at 25 ˚C	7.89	7.84	7.19	7.91	7.45	7.77	7.36	6.5- 8.5	No Relaxation
Electrical Conductivity, µS/cm	520.6	1665	1975.0	2068.0	1286.0	1989.0	2137.0	-	-
Total Dissolved Solids, mg/l	315	1002	1186	1240	772	1194	1282	500	2000
Total hardness as $CaCO_3$ mg/l	175	354	392	424	235	385	454	200	600
Calcium as Ca mg/l	44	64.4	84	96.8	57.6	83.2	102	75	200
Magnesium as Mg mg/l	15.6	46.3	43.7	43.7	21.8	42.5	47.5	30.0	100
Calcium as $CaCO_3$ mg/l	110	161	210	242	144	208	256	-	-
Magnesium as $CaCO_3$ mg/l	65.0	193	182	182	91.0	177	198	-	-
Total alkalinity as $CaCO_3$ mg/l	160	327	380	399	260	376	392	200	600
Chloride as Cl^- mg/l	75.6	342	365	380	241	363	510	250	1000
Free Residual chlorine as Cl^- mg/l	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)	0.2	1
Sulphates as SO_4^{2-} mg/l	48.9	270	342	355	206	338	212	200	400
Iron as Fe mg/l	0.07	0.12	0.11	0.12	0.04	BDL(D.L-0.01)	0.03	0.3	No Relaxation
Nitrate as NO_3 mg/l	BDL(D.L-1.0)	2.14	4.65	5.23	4.32	5.62	5.51	45	No Relaxation
Fluoride as F mg/l	0.15	0.48	0.55	0.62	0.42	0.63	0.58	1	1.5
Manganese as Mn mg/l	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL (D.L -0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	0.1	0.3

Table 3.9 Surface Water Analysis Results

Parameter	SW1	SW2	SW3	Surface water standard s (IS 2296 Class-A)
Odour	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity, NTU	<1.0	<1.0	<1.0	1
pH at 25 ˚C	7.52	7.94	7.85	6.5- 8.5
Electrical Conductivity, µS/cm	218.6	167.9	192.3	-
Total Dissolved Solids, mg/l	132	102	115	500
Total Suspended Solids, mg/l	22.0	12.0	10.0	-
Total hardness as $CaCO_3$ mg/l	47.2	35.2	42.5	300
Calcium as Ca, mg/l	10.56	10.36	9.8	80.10
Magnesium as Mg mg/l	4.99	2.23	4.3	24.28
Calcium as $CaCO_3$ mg/l	26.4	25.9	24.5	-
Magnesium as $CaCO_3$ mg/l	20.8	9.30	18.0	-
Total alkalinity as $CaCO_3$, mg/l	45.6	37.2	42.2	-
Chloride as Cl^- mg/l	42.8	40.8	39.8	250
Free Residual chlorine as Cl^- mg/l	BDL(DL-0.2)	BDL(DL-0.2)	BDL(DL-0.2)	0.2
Sulphates as SO_4^{2-}, mg/l	15.2	16.9	16.1	400
Iron as Fe, mg/l	0.15	0.12	0.1	0.3
Nitrate as NO_3, mg/l	BDL(D.L-1.0)	2.14	1.95	20
Fluoride as , mg/l	0.21	0.45	0.42	1.5
Manganese as Mn, mg/l	BDL(DL-0.05)	BDL(DL-0.05)	BDL(DL-0.05)	0.1
COD as O_2, mg/l	BDL(DL-4.0)	BDL(DL-4.0)	BDL(DL-4.0)	-
BOD, 3 days @ 27°C, mg/l	BDL(DL-2.0)	BDL(DL-2.0)	BDL(DL-2.0)	2
DO	5.8	6.1	6.3	-

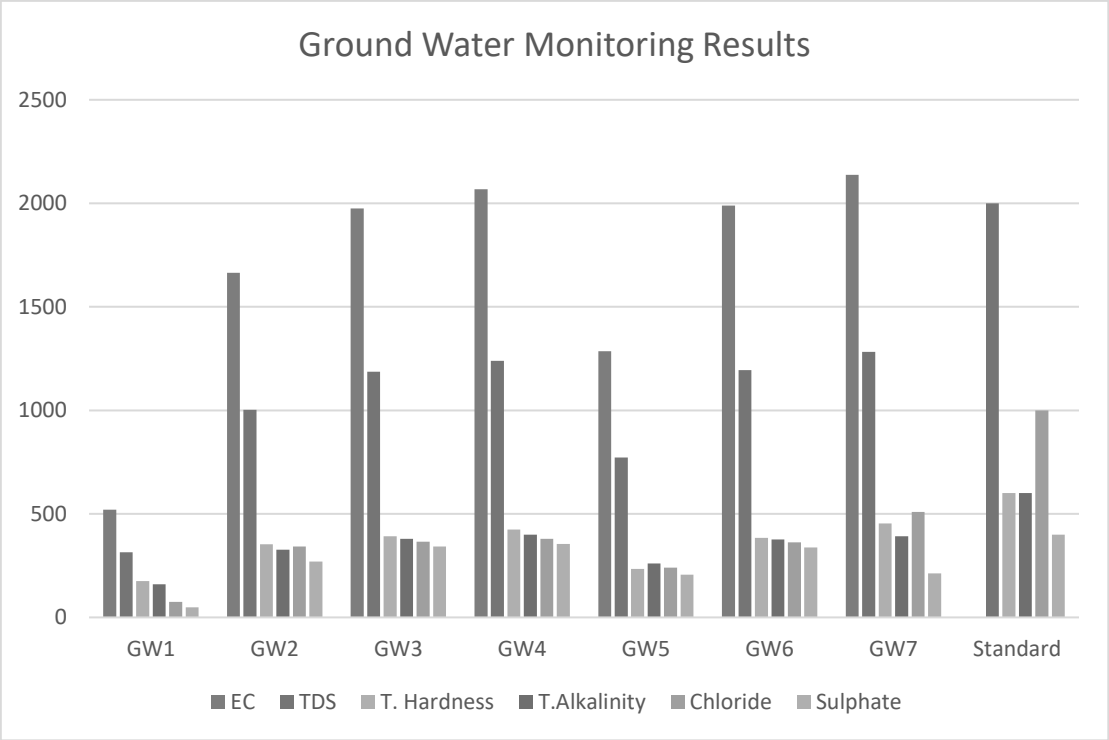


Figure 3. 11 Ground Water - Monitoring Results

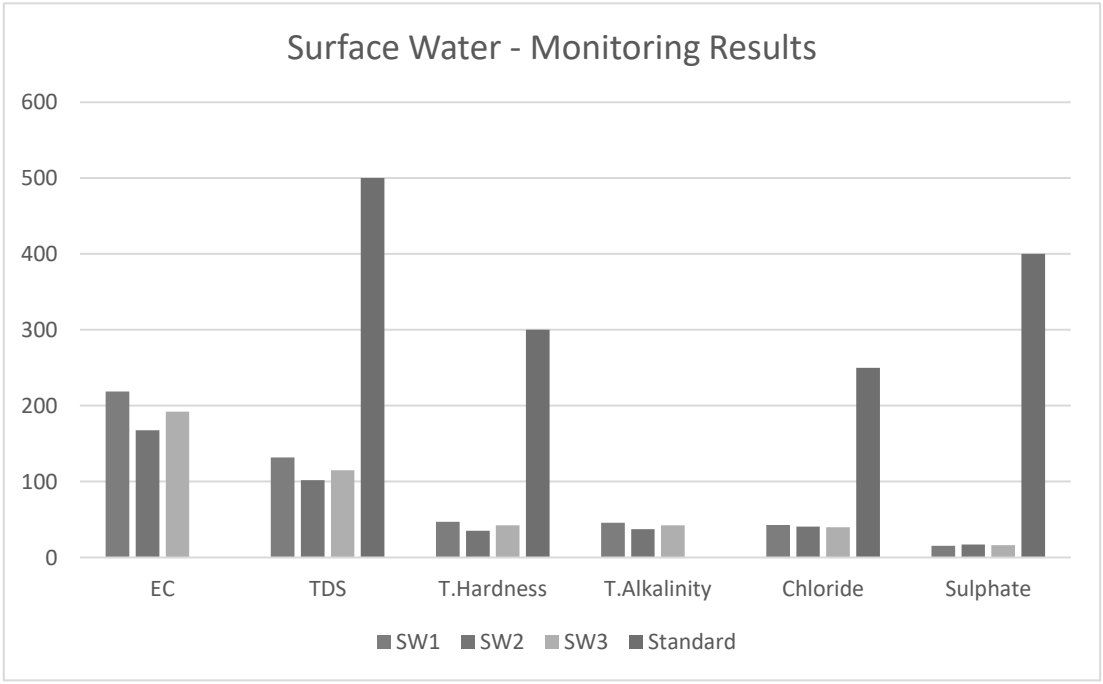


Figure 3. 12 Surface Water - Monitoring Results

3.7.3.5 DISCUSSION

Surface Water

The pH varied from 7.52 to 7.94 while turbidity found within the standards (Optimal pH range for sustainable aquatic life is 6.5 to 8.5 pH). Total Dissolved Solids varied from 102 to 132 mg/l. Chloride varied between 39.8 mg/l and 42.8 mg/l. Nitrates varied from 0 to 2.14 mg/l, while sulphates varied from 15.2 to 16.9 mg/l.

Ground Water

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

As Per the data it has been observed that the pH value varies from 7.19 to 7.91, Chlorides Ranges From 75.6 - 510 mg/l, Sulphates value found to be between 48.9 - 355 mg/l, Fluoride Ranges low in lease area i.e. 0.15 – 0.63, Hardness varies from 175 – 454 mg/l, and Total dissolved solid 315 – 1282 mg/l. The ground water has been analyzed as per IS10500: 2012 and found to be suitable for drinking purpose. So the results of chemical and bacteriological analysis of water samples are classified under good class for drinking purpose with respect to total dissolved solids. Total hardness of the samples ranged from soft to moderately hard waters and can be fairly used for drinking. Regular ground water monitoring is suggested as the quality of ground water may fluctuate with groundwater consumption and seasonal variations.

3.7.4 NOISE ENVIRONMENT

The vehicular movement on road and mining activities is the major sources of noise in study area, the environmental assessment of noise from the mining activity and vehicular traffic can be undertaken by taking into consideration

various factors like potential damage to hearing, physiological responses, and annoyance and general community responses.

3.7.4.1 SAMPLING LOCATIONS

In order to assess the ambient noise levels within the study area, noise monitoring was carried out at Seven (7) locations. The noise level of monitoring locations were carried out by covering 10 km radius of the project area. A noise monitoring methodology was chosen such that it best suited the purpose and objectives of the study. The noise monitoring locations are given in Figure 3.13 and in below table.

Table 3.10 Noise Monitoring Locations

S.NO	Location Code	Monitoring Locations	Latitude and longitude
1	N1	Within Mine Lease area	11° 6'45.97"N & 78°50'38.25"E
2	N2	Sridevi Mangalam	11° 6'45.19"N & 78°48'6.12"E
3	N3	Near Therani big lake	11° 6'47.20"N 78°52'9.17"E
4	N4	Padalur West	11° 5'41.47"N & 78°49'45.65"E
5	N5	Alathur	11° 7'36.71"N & 78°50'15.75"E
6	N6	Pudhukkurichi	11° 8'5.47"N & 78°51'53.17"E
7	N7	Padalur	11° 6'17.30"N & 78°50'41.19"E

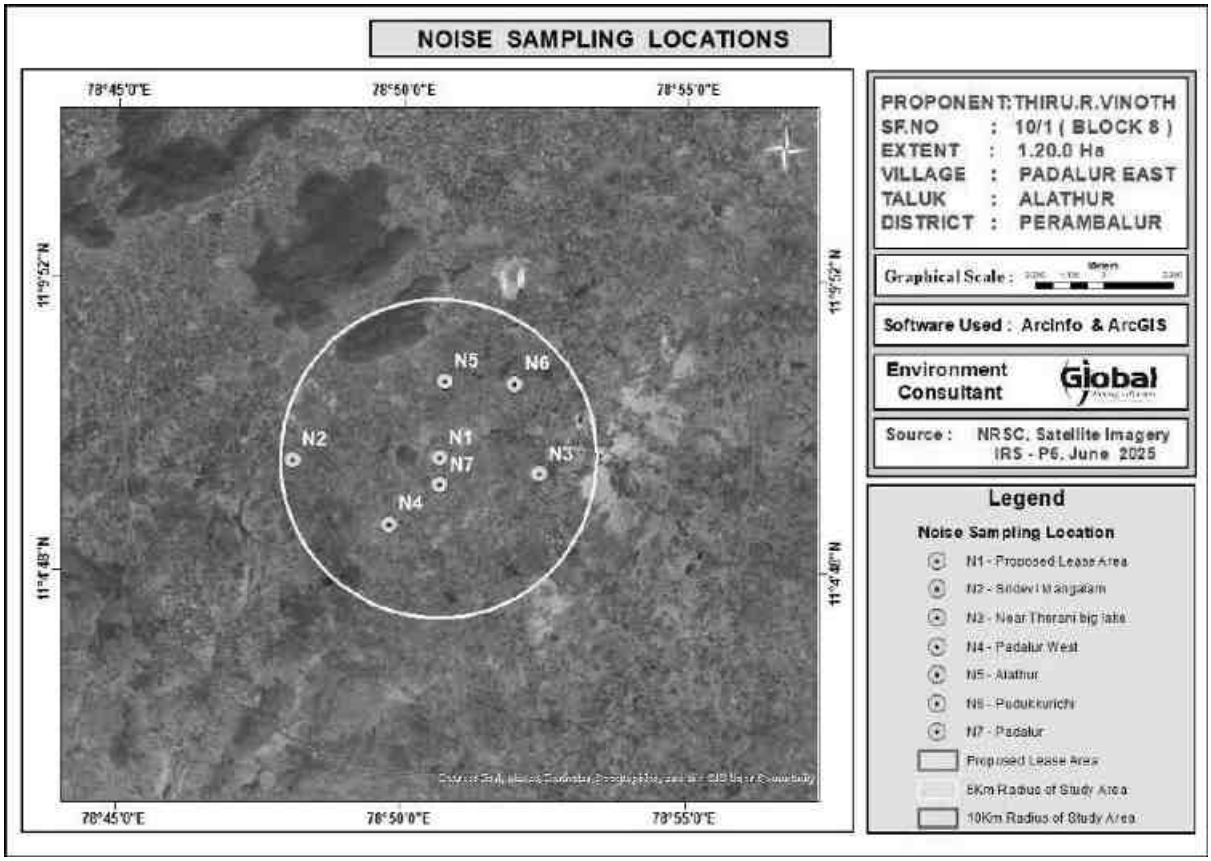


Figure 3.13 Noise Monitoring Location

3.7.4.2 METHOD OF MONITORING

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

3.7.4.3 NOISE MONITORING RESULT

An analysis of the different Leq data obtained during the study period has been made. Variation was noted during the day-time as well as night-time. The results are presented in below Table 3.11.

Table 3.11 Noise Monitoring Result

Monitoring Location	N1	N2	N3	N4	N5	N6	N7
DAY EQUIVALENT	51.2	50.0	49.1	47.9	45.1	49.4	50.8
NIGHT EQUIVALENT	38.7	38.3	41.9	41.1	37.5	43.3	39.2
DAY & NIGHT EQUIVALENT	49.6	48.4	47.8	46.5	43.7	48.2	49.2
Limits as per MoEF&CC							
For Residential Area - Day equivalent - 55 dB (A); Night equivalent - 45 dB (A); Work zone Exposure in 8 hr - 90 dB (A)							

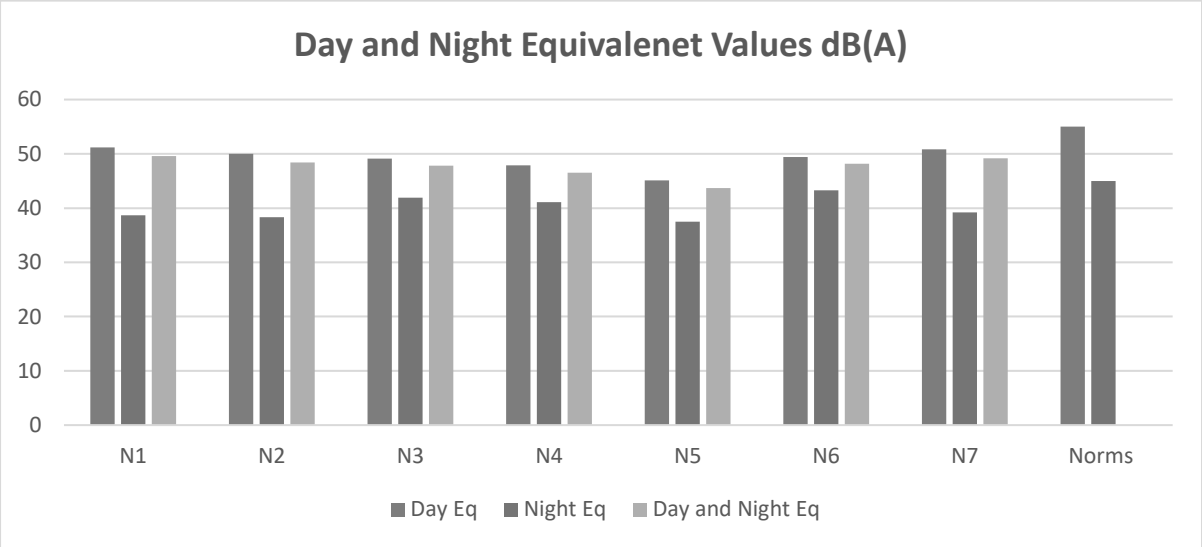


Figure 3.14 Nosie Monitoring Results

3.7.4.4 DISCUSSION

From the table it is observed that the day Equivalent Noise (Leq-d) level were ranging from 45.1 to 51.20 dB(A) and Night Equivalent Noise (Leq-n) level were ranging from 37.50 to 43.30 dB(A). Day and Night Equivalent Noise (Leq-n) level were ranging from 43.70 to 49.60 dB(A). While comparing with the MoEF Norm of 55 dB(A) for day time and 45 dB(A) for night time in Residential areas, the monitored ambient noise levels are within the limit values.

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

3.7.5 SOIL ENVIRONMENT

Soil quality of the study area is one of the important components of the land environment. The composite soil samples were collected from the study area and analyzed for different parameters. The locations of the monitoring sites are detailed in Table 3.12 and Figure 3.15.

3.7.5.1 MONITORING LOCATIONS

Soil samples were collected from 7 locations to assess the soil quality in and around the mines. Soil samples collected using sampling augers and field capacity apparatus.

Table 3.12 – Soil Sampling Locations

S.No	Location Code	Monitoring Locations	Latitude and longitude
1	S1	Within Mine Lease area	11° 6'45.97"N & 78°50'38.25"E
2	S2	Sridevi Mangalam	11° 6'45.19"N & 78°48'6.12"E
3	S3	Near Therani big lake	11° 6'47.20"N 78°52'9.17"E
4	S4	Padalur West	11° 5'41.47"N & 78°49'45.65"E
5	S5	Alathur	11° 7'36.71"N & 78°50'15.75"E
6	S6	Pudhukkurichi	11° 8'5.47"N & 78°51'53.17"E
7	S7	Padalur	11° 6'17.30"N & 78°50'41.19"E

3.7.5.2 METHODOLOGY

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

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

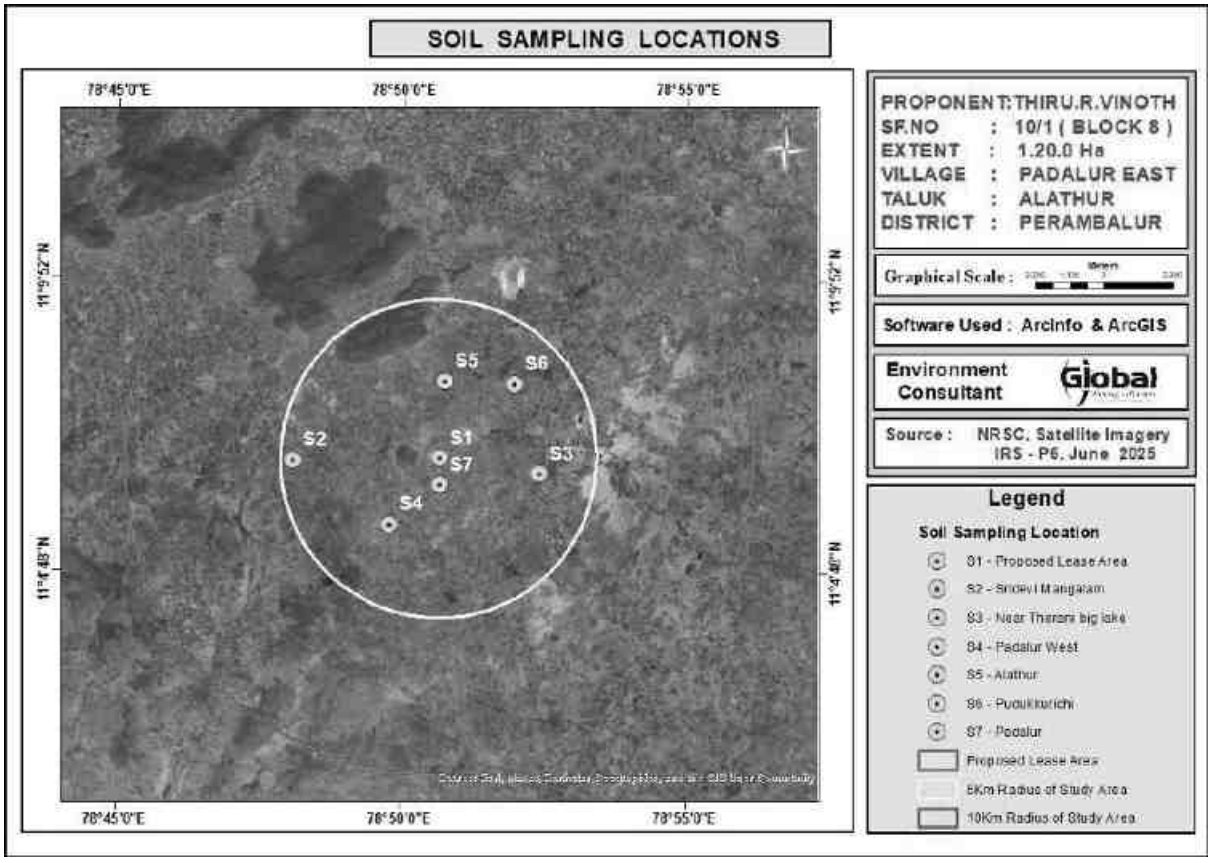


Figure 3.15 - Soil Sampling Stations

3.7.5.3 SOIL TESTING RESULT

Table 3.13 - Soil Testing Result

Parameter	Units	S1	S2	S3	S4	S5	S6	S7
PH		7.38	7.94	8.06	7.95	7.89	8.12	7.92
EC	µmhos/cm	190.4	290.8	220.4	273.5	190.2	295.6	265.7
DRY MATTER	%	97.22	96.52	97.21	86.54	97.25	93.67	92.58
WATER CONTENT	%	2.78	3.48	2.79	13.46	2.75	6.33	7.42
ORGANIC MATTER	%	0.78	0.95	0.82	1.32	0.77	0.95	1.03
SOIL TEXTURE		Silty Clay loam	Silty Clay	Silty Clay	Clay	Silty Clay	Silty Clay	Silty Clay
Grain Size Distribution								
SAND	%	15.65	10.42	8.55	17.05	13.22	10.79	7.89
SILT	%	45.34	44.33	42.75	38.97	42.76	45.66	41.32
CLAY	%	39.01	45.25	48.7	43.98	44.02	43.55	50.79
PHOSPHORUS	mg/kg	1.42	1.62	1.24	1.67	1.36	1.61	1.74
SODIUM	mg/kg	308	322	346	498	535	420	396
POTASSIUM	mg/kg	582	664	735	904	1030	634	652
NITROGEN & NITOGENOUS	mg/kg	272	405	146	205	254	312	175
SULPHUR	%	BDL(D.L - 0.02)	BDL(D.L - 0.02)	BDL(D.L - 0.02)	BDL(D.L - 0.02)	BDL(D.L - 0.02)	BDL(D.L - 0.02)	BDL(D.L - 0.02)
Water Holding Capacity	%	42	38	40	41	42	40	42
Porosity	%	19.6	19.4	17.9	17.1	18.9	18.2	17.3

Results of the soil samples show that the pH values were found to be 7.38 to 8.12 and Electrical Conductivity values were ranging between 190.2 – 295.6 µmhos/cm. Soils are generally Silty Clay. Organic matter values were ranging between 0.77 – 1.32 %. Total Nitrogen values were ranging between 146 – 405 mg/kg. Phosphorus values were ranging between 1.24 – 1.74 µg/g. Potassium values were ranging between 582 – 1030 mg/kg. Sodium values were ranging between 308 – 535 mg/kg. Total Sulphur values were observed to be BDL. The soil quality data for the 7samples collected and analyzed are provided in Table no – 3.13.

3.7.6 LAND ENVIRONMENT

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

3.7.6.1 LAND USE PATTERN OF THE PROJECT AREA

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

Table 3.14 Land use pattern of the project site

Description	Present Area in Ha.	Area at the end of life of Quarry in Ha.
Quarrying pit	0.53	0.95.20
Infrastructure	Nil	0.01.0
Roads	0.01	0.01.0
Greenbelt	Nil	0.22.80
Unutilized	0.67.00	Nil
Total	**1.20.0**	**1.20.0**

- At the end of life of mine, the excavated mine pit / void of 0.95.20 Ha. will act as artificial reservoir for collecting rain water and helps to meet out the demand or crises during drought season.
- After mine closure the greenbelt (0.22.80 Ha.) will be developed along the safety barrier and top benches and 0.02 ha are approach road and Infrastructure.

3.7.6.2 LAND USE PATTERN OF THE STUDY AREA

A visual interpretation technique has been adopted for land use classification based on the keys suggested in the chapter – V of the guidelines issued by NNRMS Bangalore & Level III classification with 1:50,000 scale for the preparation of land use mapping. Land use pattern of the area was studied through LISS III imagery of Bhuvan (ISRO). The 10 km radius map of study area was taken for analysis of Land use cover. The land use map of the study area is given in Figure 3.16.

Table 3.15 Land use pattern of the Study area of 10 km radius

Sl.No.	LAND USE / LAND COVER	Area in Sq.Km	Area in Percentage
1	Built-up land	6.43	2.025
2	Crop land	201.63	63.49
3	Existing Quarry	3.18	1.001
4	Fallow land	13.92	4.384
5	Hill & Forest	31	9.763
6	Land with scrub	18.11	5.703
7	Land without scrub	24.16	7.608
8	Plantations	4.1	1.291
9	Salt affected land	3.24	1.020
10	Water bodies	11.77	3.707
	Total Area	**317.54**	**100.00**

Source : Survey of India Toposheet and Landsat Satellite Imagery

From above table it is inferred that the majority of the land in the study area is Crop land (63.49 %).

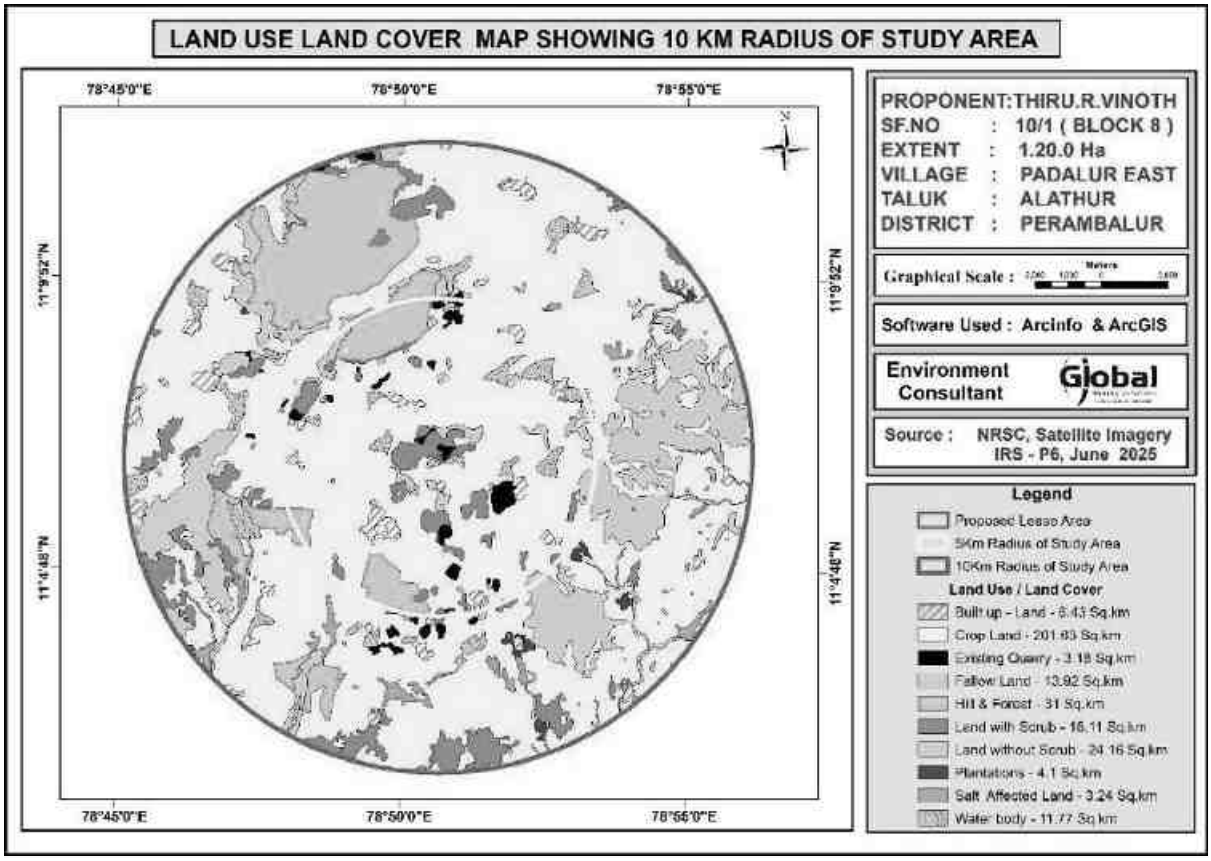


Figure 3.16 Land use map of the study area

3.7.7 BIOLOGICAL ENVIRONMENT

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

3.7.7.1 FLORA

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

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

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

3.7.7.2 FLORISTIC COMPOSITION IN CORE ZONE

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

3.7.7.3 FLORISTIC SCENARIO IN BUFFER ZONE AREA

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

Flora within 300 m radius buffer zone

S.NO	Scientific Name	Family	Local Name
Tree			
1	*Borassus flabellifer*	Arecaceae	Panai maram
2	*Vitex negundo*	Lamiaceae	Nochi
3	*Prosopis juliflora*	Fabaceae	Velikathan maram
4	*Azadirachtaindica*	Meliaceae	Vembu
5	*Cocos nucifera*	Arecaceae	Thennai maram
6	*Wrightia tinctoria*	Apocynaceae	Wetpalai maram
7	*Albizia amara*	Fabaceae	Unjai maram
8	*Tamarindus indica*	Fabaceae	Puliyamaram
9	*Tectona grandis*	Lamiaceae	Tek maram
10	*Samanea saman*	Mimosodeae	Thoongumoonjj maram
Shrubs			
1	*Senna auriculata*	Fabaceae	Avarai

2	*Calotropis gigantea*	Apocynaceae	Erukku
3	*Solanum torvum*	Solanaceae	Sundaika
4	*Jatropha gossypiifolia L*	Euphorbiaceae	Kattamanaku
5	*Lantana camara*	Verbenaceae	Unichedi
6	*Dodonaea viscosa*	Sapindaceae	Virali chadi
7	*Cereus pterogonus*	Cactus	Sappathikalli
8	*Vitex negundo*	Lamiaceae	Nochi
9	*Anisomeles malabarica*	Lamiaceae	Peyiveratti
10	*Jatropha gossypiifolia*	Euphorbiaceae	Kattamanakku
Herbs, Climbers & Grass			
1	*Cyperus rotundus*	Cyperaceae	Korai
2	*Solanum virginianum*	Solanaceae	Kantang kathrikai
3	*Leucas aspera*	Lamiaceae	Thumbai
4	*Aerva lanata*	Amaranthaceae	Poolai poondu
5	*Tribulus terrestris*	Zygophyllales	Nerunji
6	*Mimosa pudica*	Mimosaceae	Thottalchinungi
7	*Solanum violaceum Ortega*	Solanaceae	Anachundaikai
8	*Acanthospermum Hispidum*	Asteraceae	Kombumul
9	*Dactyloctenium Aegyptium*	Poaceae	Korai Pellu
10	*Croton bonplandianus*	Euphorbiaceae	Railpoondu
11	*Cardiospermum Halicacabum*	Sapindaceae	Mudakkathan
12	*Tridax Procumbens*	Asteraceae	Veattukayapoondu
13	*Evolvulus alsinoides*	Convolvulaceae	Vishnukrandai
14	*Mukia maderaspatana*	Cucurbitaceae	Musumusukkai
15	*Cuscuta*	Convolvulaceae	Ammayarkunthal
16	*Sida cordifolia L*	Malvaceae	Sithamutti
17	*Alternanthera pungens*	Amaranthaceae	Ponnangani
18	*Euphorbia hirta*	Acanthaceae	Amman Paccharisi
19	*Andrographis echioides*	Acanthaceae	Gopuram Tangi
20	*Cissus quadrangularis*	Vitaceae	Perandai

List of Flora:

Taxonomically a total of 86 species distributed among 56 families have been recorded from the buffer area. Based on habitat classification of the enumerated plants the majority of species were Trees 34 and herbs 32 followed by Shrubs (15), climbers 5. Details of flora with the scientific name were mentioned in Table No. 3.16.

Table 3.16 List of Flora

S.NO	Scientific Name	Family	Local Name
TREES			
1	*Alangium salvifolium*	Alangiaceae	Elangi
2	*Albizia amara*	Fabaceae	Arappumaram
3	*Albizia lebbeck*	Fabaceae	Vagai maram
4	*Albizia saman F*	Fabaceae	Thoongumoonji maram
5	*Cocos nucifera L*	Arecaceae	Thennai maram
6	*Eucalyptus long folia L*	Myrtaceae	Thaila Maram
7	*Delonix regia (Boj. exHook.) Raf*	Fabaceae	Neruppu Kondrai
8	*Ficus benghalensis L*	Moraceae	Aalamaram
9	*Eucalyptus long folia L*	Myrtaceae	Thaila Maram
10	*Ficus religiosa L*	Moraceae	Arasamaram
11	*Pithecellobium dulce (Roxb.) Benth.*	Fabaceae	Kodukkaapuli
12	*Phoenix loureiroi*	Arecaceae	Malaieecham
13	*Prosopis cineraria (L.) Druce*	Fabaceae	Vanni
14	*Polyalthia longifolia Sonn*	Annonaceae	Nettilingam
15	*Psidium guajava L.*	Myrtaceae	Koyya
16	*Prosopis cineraria (L.) Druce*	Fabaceae	Vanni
17	*Azadirachta indica A.Juss.*	Meliaceae	Vēppa maram
18	*Psidium guajava L.*	Myrtaceae	Koyya
19	*Borassus flabellifer L.*	Arecaceae	Panai Maram
20	*Holoptelea integrifolia Planch.*	Ulmaceae	Aavili
21	*Carica papaya L*	Caricaceae	Pappali
22	*Lannea coromandelica*	Anacardiaceae	Odhiya maram
23	*Cassia fistula L*	Fabaceae	Sarakondrai
24	*Mangifera indica L.*	Anacardiaceae	Māmaram
25	*Madhuca longifolia*	Sapotaceae	Iluppai
26	*Melia dubia Cav.*	Meliaceae	Malai Vembu
27	*Millingtonia hortensis L.f*	Bignoniaceae	Maramallingai
28	*Millettia pinnata (L.)*	Fabaceae	Pungai
29	*Tectona grandis L.f*	Lamiaceae	Thekku
30	*Tamarindus indica L*	Fabaceae	Puliya Maram
31	*Syzygium cumini (L.)*	Myrtaceae	Naval maram
32	*Terminalia catappa L*	Combretaceae	nattuvadumai
33	*Murraya koenigii (L.)*	Rutaceae	Karuveppilai
34	*Ziziphus mauritiana Lam.*	Rhamnaceae	Elanthai
HERBS			
1	*Achyranthes aspera L*	Amaranthaceae	Nayuruvi
2	*Abutilon indicum*	Malvaceae	Thuthi
3	*Boerhavia plumbaginea*	Nyctaginaceae	Mookirttai

4	*Abelmoschus esculentus (L.)*	Malvaceae	Vendakkai
5	*Acalypha indica*	Euphorbiaceae	Kuppaimeni
6	*Cardiospermum halicacabum*	Sapindaceae	Mudakathan
7	*Sida cordifolia L*	Malvaceae	Chittamutti
8	*Croton bonplandianus*	Euphorbiaceae	Raiyl poondu
9	*Dactyloctenium aegyptium*	Poaceae	Matthangaypul
10	*Evolvulus alsinoides*	Convolvulaceae	Vishnukaranthi
11	*Cuscuta*	Convolvulaceae	Kodiyār kūntal
12	*Cissus quadrangularis*	Vitaceae	Pirandai
13	*Mukia maderaspatana*	Cucurbitaceae	Musumusukkai
14	*Biophytum sensitivum (L.)*	Oxalidaceae	Tintanali
15	*Justicia procumbens*	Acanthaceae	Kōṭakacālai
16	*Passiflora foetida*	Passifloraceae	Siruppunaikkali
17	*Pavonia gallaensis*	Malvaceae	Peramutti
18	*Euphorbia hirta*	Euphorbiaceae	Amman Pacharisi
19	*Achyranthes aspera*	Amaranthaceae	Nayuruvi
20	*Acanthospermum hispidum*	Asteraceae	Kombumul
21	*Solanum violaceum Ortega*	Solanaceae	Anachundai
22	*Mimosa pudica*	Mimosaceae	Thottaṟ ciṇuṅki
23	*Alternanthera pungens*	Amaranthaceae	Mullukkanṇi
24	*Andrographis echioides*	Acanthaceae	Gopuram tangi
25	*Hyptis suaveolens (L.)*	Lamiaceae	Vilatti Thulasi
26	*Leucas aspera*	Lamiaceae	Thumbai
27	*Cynodon dactylon*	Poaceae	Arugampul
28	*Tribulus terrestris*	Zygophyllales	Nerunji
29	*Aerva lanata*	Amaranthaceae	Sirupeelai
30	*Cyperus rotundus L.*	Cyperaceae	Kōrai
31	*Hemidesmus indicus*	Apocynaceae	Nannari
32	*Cleome gynandra*	Cleomaceae	Nalvelai
SHRUBS			
1	*Canthium coromandelicum*	Rubiaceae	Mullukaarai
2	*Lantana camara L.*	Verbenaceae	Unnichedi
3	*Jatropha curcas L.*	Euphorbiaceae	Kattamanakku
4	*Senna alata (L.) Roxb.*	Fabaceae	Cimaiyagathi
5	*Anisomeles malabarica (L.)*	Lamiaceae	Peimiradi
6	*Senna auriculata (L.)*	Fabaceae	Avarampoo
7	*Ipomea carnea Jace*	Convolvulaceae	Neyveli kattamanakku
8	*Calotropis gigantea*	Apocynaceae	Erukku
9	*Euphorbia antiquorum L*	Euphorbiaceae	Chaturakalli
10	*Opuntia stricta*	Cactaceae	Sappathikalli
11	*Nerium oleander L.*	Apocynaceae	Arali
12	*Phyllanthus reticulatus Poir*	Phyllanthaceae	Karumpoola
13	*C. phlomidis L.f*	Lamiaceae	Tazhuthaazhai
14	*Crotalaria trichotoma Bojer*	Fabaceae	Sanarppai
15	*Corchorus capsularis L*	Malvaceae	Naru-valli

CLIMBERS			
1	*Cucurbita pepo*	Cucurbitaceae	Parangi
2	*Cissus quadrangularis*	Vitaceae	Perandai
3	*Pergularia daemia*	Asclepiadaceae	Uttamani
4	*Abrus precatorius*	Fabaceae	Coral bead
5	*Ipomea hederifolia*	Convolvulaceae	Kanavali kkodi

3.7.7.4 LIST OF FAUNA

A total of 52 species belonging were recorded in the buffer zone. Based on habitat classification the majority of species were 25 Aves, followed by 11 Reptiles, 8 Mammals, 5 Fishes and 3 Amphibians. The list of fauna within the study area is given in Table No – 3.17.

Table 3.17 List of Fauna

S.No	Common name	Scientific name	Family	IUCN / WPA schedule
MAMMALS				
1	Indian flying Fox	Pteropus giganteus	Pteropodidae	LC
2	Cow	*Bos taurus*	Bovidae	NL
3	Indian hare	*Lepus nigricollis*	Leporidae	LC
4	House mouse	*Mus musculus*	Muridae	LC
5	Goat	*Capra hircus*	Bovidae	NL
6	Indian grey mongoose	Urva edwardsii	Herpestidae	LC
7	striped palam squirrel	Funambulus palmarum	Sciuridae	LC
8	Rusty spotted Cat	Felis rubiginosa	Felidae	LC
REPTILES				
1	Common bronzeback tree snake	*Dendrelaphis tristis*	Colubridae	LC
2	Fan-Throated Lizard	*Sitanaponticeriana*	Agamidae	NL
3	Common skink	*Mabuya carinatus*	Scincidae	NL
4	Oriental garden lizard	*Calotes uersicolor*	Agamidae	NL
5	Fan-Throated Lizard	*Sitanaponticeriana*	Agamidae	NL
6	Buff striped keelback	*Amphiesma stolatum*	Colubridae	LC
7	Common krait	*Bungarus caeruleus*	Elapidae	LC
8	Brahminy blindsnake	*Indotyphlope braminus*	Typhlopidae	LC

9	Russells wolf snake	*Lycodon fasiolatus*	Colubridae	LC
10	Rock dragon	*Psammophilus dorsalis*	Agamidae	LC
11	Indian vine snake	*Ahaetulla oxyrhynca*	Colubridae	NL
AMPHIBIANS				
1	Common skittering Frog	*Euphlycits cyanophlyctis*	Dicroglossidae	LC
2	Chunam tree frog	*Polypedates maculatus*	Rhacophoridae	LC
3	Asian common toad	*Duttaphrynus Melanostictus*	Bufonidae	LC
FISH				
1	Common carp	Cyprirus earpio	Minnows and Carps	IV
2	Tilapia	Oreochromis mossambicus	Cichlid	IV
3	Carplet	Amblypharyngodon Sp	Cyprinidae	IV
4	Trout	Chela sp	-	IV
5	Punctatus	Ophiocephalus	Snakehead	IV
AVES				
1	Great cormorant	*Phalacrocorax carbo*	Phalacrocoracidae	LC
2	Baya weaver	*Ploceus philippinus*	Ploceidae	LC
3	White – browed Wagtail	*Motacilla maderaspatensis*	Motacillidae	LC
4	Indian paradise Flycatcher	*Terpsiphone paradisi*	Monarchidae	LC
5	Indian Roller	*Coracias benghalensis*	Coraciidae	LC
6	Indian robin	*Copsychus fulicatus*	Muscicapidae	LC
7	Red junglefowl	*Gallus gallus*	Phasianidae	LC
8	Common myna	*Acridotheres tristis*	Sturnidae	LC
9	Black rumped Flameback	*Dinopium benghalense*	Picidae	LC
10	Brahminy kite	*Haliastur indus*	Accipitridae	LC
11	Crested serpent eagle	*Spilornis cheela*	Accipitridae	LC
12	Black – winged stilt	*Himantopus Himantopus*	Recurvirostridae	LC
13	European bee-eater	*Merops apiaster*	Meropidae	LC
14	Spotted owlet	*Athene brama*	Strigidae	LC
15	Scaly – breasted munia	*Lonchura punctulata*	Estrildidae	LC
16	Indian peafowl	*Pavo cristatus*	Phasianidae	LC
17	Grey heron	*Ardea cinerea*	Ardeidae	LC
18	House sparrow	*Passer domesticus*	Passeridae	LC
19	Rose -ringed parakeet	*Psittacula krameria*	Psittaculidae	LC
20	House crow	*Corvus splendens*	Corvidae	LC
21	Asian koel	*Eudynamys scolopaceus*	Cuculidae	LC

22	Painted stork	*Mycteria leucocephala*	Ciconiidae	NT
23	Ashy – crowned sparrow lark	*Eremopterix griseus*	Alaudidae	LC
24	Small pratincole	*Glareola lactea*	Glareolidae	LC
25	Rock pigeon	*Columba livia*	Columbidae	LC

The core zone of the area is Government land, No forest land is involved in the project area. The proposed quarry area is covered by thorny bushes. There is no Wild Life Sanctuary or National Park within the study area of 10km. There is no schedule I species of animals observed within study area as per Wildlife Protection Act 1972 as well as no species is in vulnerable, endangered or threatened category as per IUCN. There is no endangered red list species found in the study area. Hence this small mining operation over short period of time will not have any significant impact on the surrounding flora and fauna.

3.7.8 HYDROGEOLOGY OF THE STUDY AREA

The following water bodies are located in the buffer zone:

Tank - 51 m (S), Tank - 170 m (SE), Nattaramangalam Eri - 1.53 km (W), Therani Lake - 3.19 km (E), Puthukkurichi Eri - 3.19 km (NE), Nanthai River - 3.8 km (S), Maniyankurichy Eri - 6.50 km (W), Stream - 7.17 km (SW) & Uppar R - 8.84 km (SW)

The major aquifer systems in the district are constituted by Basal crystalline rocks consisting mainly of Charnockites, Granites and Gneisses of Archean age and Sedimentary formations range in age from Cretaceous to Recent.

Pre-monsoon water level: The Depth to Water Level during pre-monsoon (May-2006) ranges from 1.10 to 8.55 m bgl. In major part of the district the depth to water level during pre-monsoon is in the range of >2 – 5 m bgl.

Post-monsoon water level: The Depth to Water Level during post-monsoon (Jan-2007) ranges from 1.10 to 6.78 m bgl. Almost in entire district, depth to water level during post-monsoon is in the range of >2 – 5 m bgl, except some isolated patches.

Long term Fluctuation (1998-2007) indicates rise in water levels is in the range of 0.0027 to 0.16 m/year. The fall in water level ranges between 0.05 and 0.07 m/year.

The quarrying activity will not intersect ground water table as quarrying is proposed upto a depth of 56m (31m AGL & 25m BGL) and water table is found at a depth of 64 - 67 m BGL. A detailed hydrogeological study will be incorporated in the Final EIA/EMP report.

TOPOGRAPHY

The area applied for quarry lease is hilly terrain covered by Topsoil formation. The massive Charnockite formation is noticed below 1m (Avg) Topsoil and sloping towards southwest side of the area, the altitude of the area is above 155m (maximum) from MSL.

3.7.9 DRAINAGE PATTERN OF THE AREA

There are two tank situated on south and southeastern side of the area and is 51m and 170m away from the area. The drainage map of the study area is given in Figure 3.17.

3.7.10 GEOMORPHOLOGY

Predominantly the buffer zone is dominated by Shallow weathered buried Pediplain, and the lease area falls under Residual Hill category. Geomorphology of the study area is detailed below. The geomorphology of the study area is given in Figure 3.19.

Sl.No.	GEOMORPHOLOGY	Area in Sq.Km	Area in Percentage
1	Moderately weathered buried pediplain	35.36	11.10
2	Pediment – Inselberg Complex	20.69	6.50
3	Pediplain Eroded	60.52	19.00
4	Residual Hills	1.68	0.53
5	Shallow weathered buried Pediplain	178.69	56.10
6	Structural Hills	21.6	6.78
	Total Area	**318.54**	**100.00**

3.7.11 GEOLOGY

The regional geology of the study area is shown below in Figure 3.18. Predominantly the buffer zone is dominated by Fissile hornblende gneiss, and the lease area falls under the same category. The geology of the study area is detailed below.

Sl.No.	GEOLOGY	Area in Sq.Km	Area in Percentage
1	Charnockite	34.14	10.72
2	Clay	5.04	1.58
3	Fissile hornblende gneiss	199.73	62.70
4	Gypeseous clays	62.13	19.50
5	Standstone & Pebbly Standstone	6.8	2.13
6	Sandstone	9.5	2.98
7	Shell limestone and calcareous SS	1.21	0.38
	Total Area	**309.66**	**100.00**

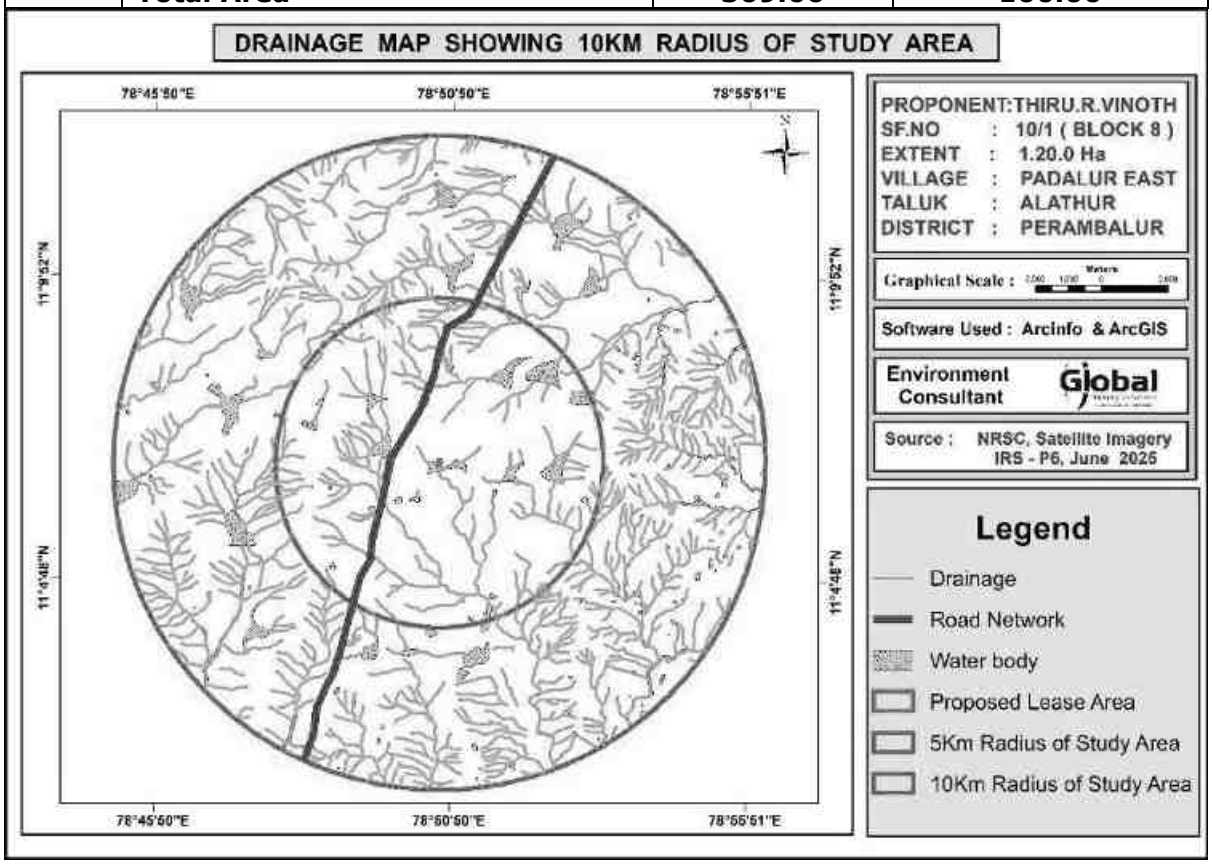


Figure 3.17 Drainage map of the study area

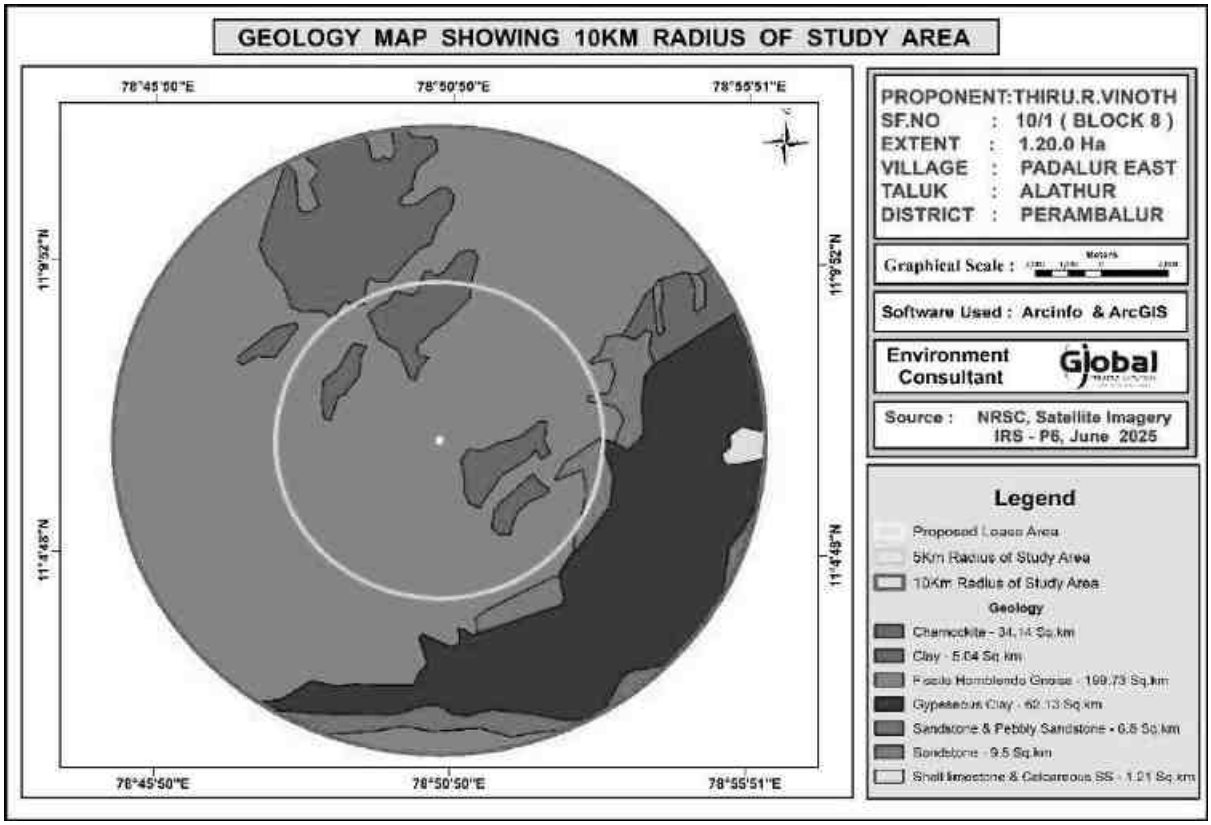


Figure 3.18 Geology map of the study area

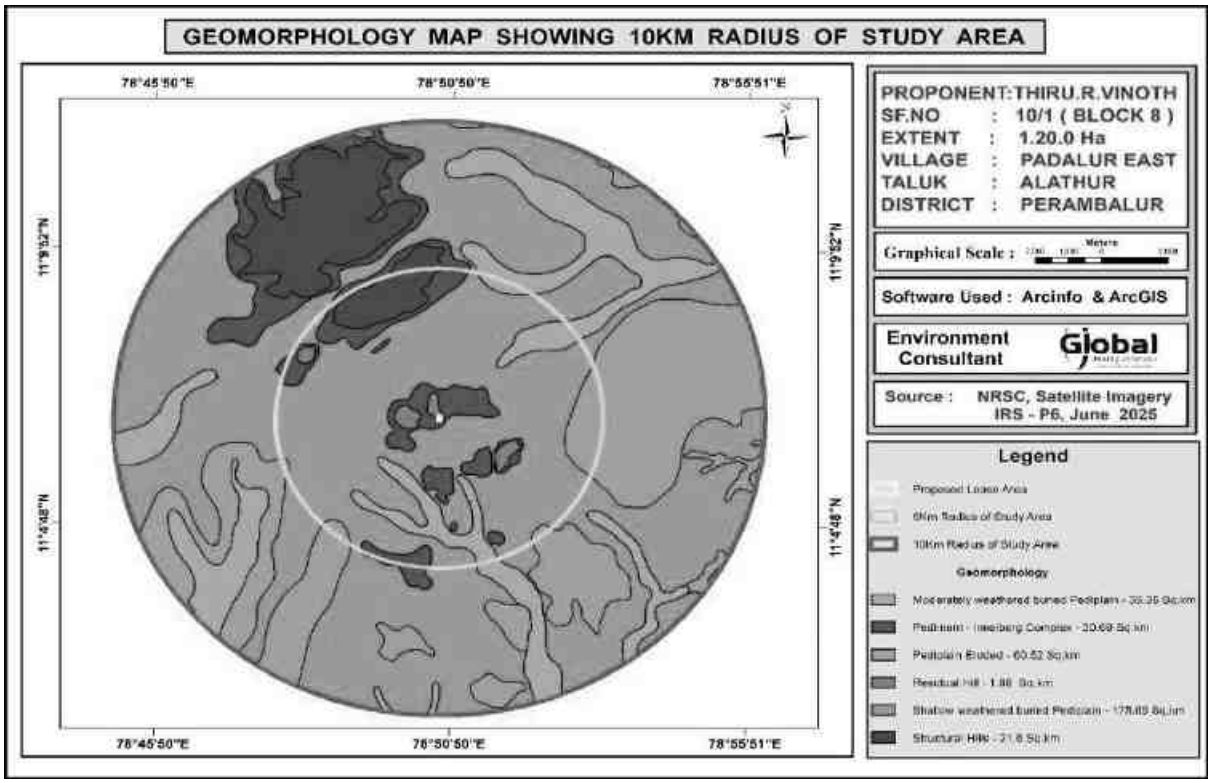


Figure 3.19 Geomorphology map of the study area

3.7.12 SOCIO-ECONOMIC ENVIRONMENT

Socio-economic study is an essential part of environmental study. It includes demographic structure of the area, provision of basic amenities viz., housing, education, health and medical services, occupation, water supply, sanitation, communication, transportation, prevailing diseases pattern as well as feature like temples, historical monuments etc., at the baseline level. This will help in visualizing and predicting the possible impact depending upon the nature and magnitude of the project.

It is expected that the Socio-Economic Status of the area will substantially improve because of this proposed project. As the proposed project will provide direct and indirect employment and improve the infrastructural facilities in that area and, thus, improve their standard of living.

3.7.12.1 OBJECTIVES OF THE STUDY

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

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

3.7.12.2 SCOPE OF WORK

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

SUMMARY OF VILLAGES IN BUFFER ZONE

There are 32 villages in the study area and its demographic details are given in table 3.18 and village map is given in Figure 3.20.

Table 3.18 Village details in study area

S.No.	Village/Town Name	Radius	Taluk Name	District Name
1	Tiruvilakkurichi	0-5 km	Alathur	Perambalur
2	Tirani			
3	Padalur			
4	Ammankovil Colony			
5	Uttatur			
6	Nedungur			
7	Ukkalur			
8	Pudukkurichi			
9	Karai			
10	Alattur			
11	Nattarmangalamlrur			
12	Kuttanur			
13	Sidevimangalam			
14	Siruvachur	5-10 km		
15	Ayilur			
16	Varaguppadi			
17	Kudikkadu			
18	Ayinapuram			
19	Garudamangalam			
20	Nambakkurichi			
21	Sirukalappur			
22	Periya Kurukkai			
23	Neykkulam			
24	Shanamangalam			
25	Valaiyur			
26	Perakambi			

27	Nedungur			
28	Mavalingai			
29	Chettikulam			
30	Boommanappadi			
31	Chattramanai			
32	Marudati			

The above table shows that the male and female population ratio

Table 3.19 - Population profile of the study area

Population profile of the study area		
Particulars	**No of Population**	**Percentage (%)**
A. Population break-up by Gender		
Male Population	282157	49.92
Female Population	283066	50.08
Total	565223	100
B. Population break-up by Caste		
Scheduled Caste	175289	31.01
Scheduled Tribes	2584	0.46
Others	387350	68.53
Total	565223	100
C. Literacy Level		
Total Literate Population	375823	66.50
Others	189400	33.50
Total	565223	100
D. Occupational structure		
Main workers	155097	27.44
Marginal workers	44629	7.89
Total Workers	199726	35.33
Total Non-workers	165771	29.34
Total	565223	**100**

Table 3.20 Population profile - Padalur Village		
Particulars	**No of Population**	**Percentage (%)**
A. Population break-up by Gender		
Male Population	871	52.28
Female Population	795	47.72
Total	1,666	100
B. Population break-up by Caste		
Scheduled Caste	193	11.58
Scheduled Tribes	0	0
Others	1,473	88.42
Total	1,666	100
C. Literacy Level		
Total Literate Population	1,057	63.44
Others	609	36.56
Total	1,666	100
D. Occupational structure		
Main workers	503	30.19
Marginal workers	54	3.24
Total Workers	830	49.82
Total Non-workers	279	16.75
Total	**1,666**	**100**

3.12.2 INFRASTRUCTURE FACILITIES IN THE STUDY AREA

Education

Table 3.21 Educational infrastructure -10 km radius from proposed mine lease		
S. No.	**Particulars**	**Available in village (Nos)**
1	Govt. Primary School	22
2	Govt. Middle School	12
3	Govt. Secondary School	20
4	Govt. Senior Secondary School	36

5	Govt. Arts and Science Degree College	42
6	Govt. Engineering College	0
7	Govt. Medicine College	0
8	Govt. Management Institute	0
9	Govt. Polytechnic	0
10	Govt. Vocational Training School/ITI	0

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

Healthcare

In the study area, the following facilities are available.

Table 3.22 Medical Infrastructure-10 km radius from proposed mine lease

S.No.	Particulars	Available in village (Nos)
1	Community Health Centre	9
2	Primary Health Centre	8
3	Primary Health Sub Centre	13
4	Maternity and Child Welfare Centre	8
5	TB Clinic	5
6	Hospital Allopathic	0

Other Infrastructure

The other infrastructure facilities available are given below.

Table 3.23 Other Infrastructure-10 km radius from proposed mine lease

S.No.	Particulars	Available in village
1	Tap Water-Treated	24
2	Covered Well	27
3	Hand Pump	27

4	Tube Wells/Borehole	23
5	Post office	39
6	Public bus services	22
7	Commercial Bank	38
8	Cooperative bank	36

Sample Survey

The expert visited 6 villages in the study area namely Padalur, Tiruvilakkurichi, Sidevimangalam, Karai, Nattarmangalamlru, and Uttattur Villages. Discussions were held with the people from nearby locality to study the social and economic conditions prevailing in the area. The expert also visited nearby hospitals, primary health centres. The following observations were made.

Primary schools are available in many villages. For hospital facilities, people in the locality have to go to hospital in Padalur which is about 0.9 km (SW) from the lease area. Major schools with higher secondary and senior secondary schools are located in Padalur. Facilities like petrol pump stations, ATM facility are available in Padalur.

Basic Amenities

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

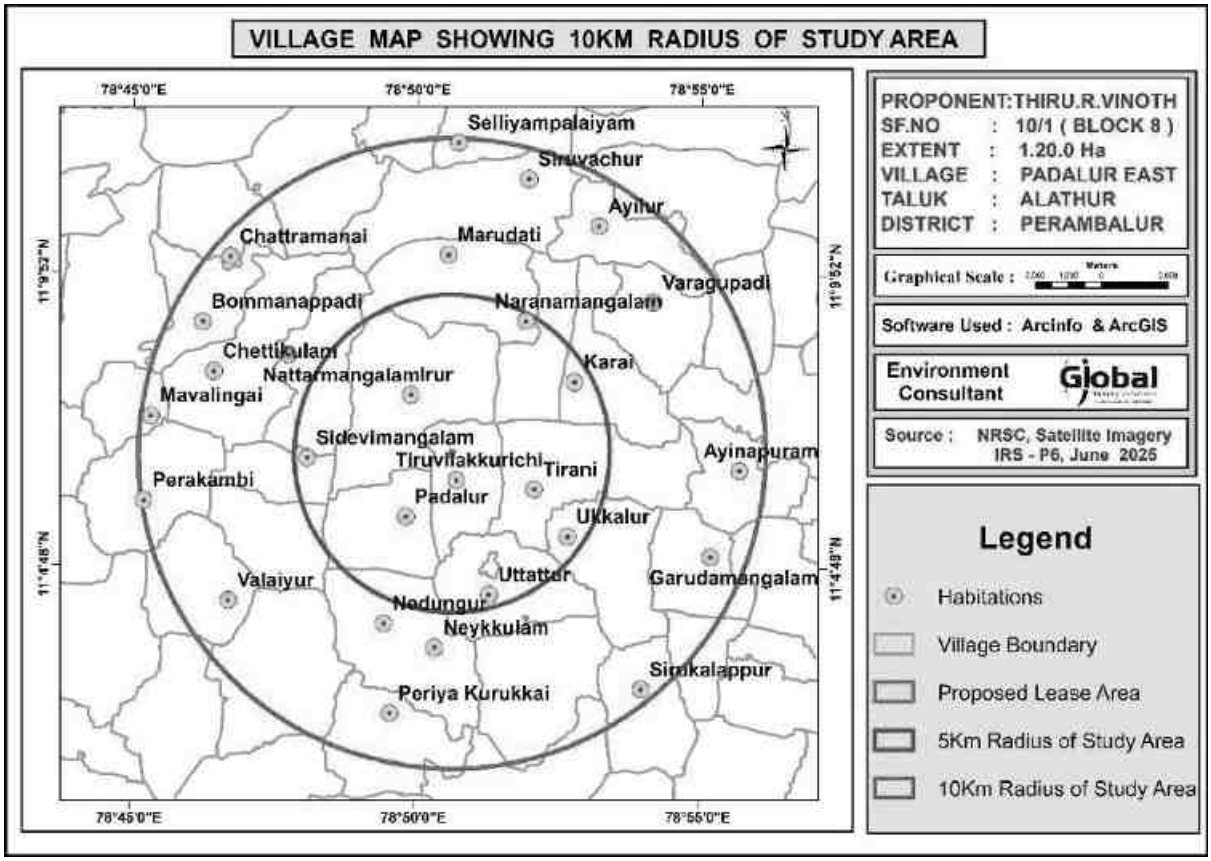


FIG 3.20 VILLAGE MAP

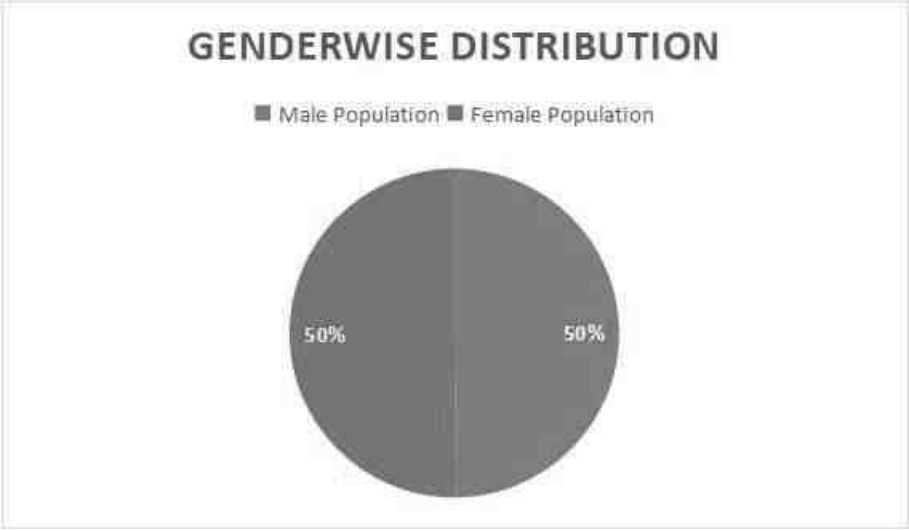


FIG 3.21 GENDER-WISE POPULATION DISTRIBUTION

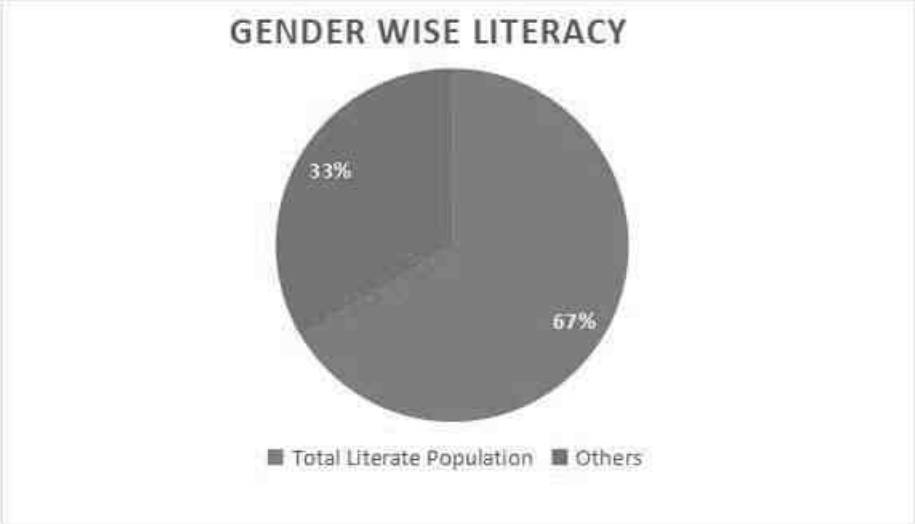


FIG 3.22 GENDER WISE LITERACY DISTRIBUTION



FIG 3.23 GENDER WISE CASTE DISTRIBUTION



FIG 3.24 OCCUPATIONAL STRUCTURE DISTRIBUTION

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4.0 ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

4.1 GENERAL

Environmental impacts both direct and indirect on various environmental attributes due to cluster quarries will be created in the surrounding environment, during the operational and post–operational phases. The occurrence of mineral deposits, being site specific, their exploitation, often, does not allow for any choice except adoption of eco-friendly operation. The methods are required to be selected in such a manner, so as to maintain environmental equilibrium ensuring sustainable development.

In order to maintain the environmental commensuration with the mining operation, it is essential to undertake studies on the existing environmental scenario and assess the impact on different environmental components. This would help in formulating suitable management plans sustainable resource extraction.

4.2 PROJECT SPECIFIC IMPACTS AND MITIGAION MEASURES

This is a proposed project and Mechanized Open Cast mining will be carried out to quarry out Rough Stone. The identified impacts during mining and associated activities have been studied in relation to various environmental components like Air, water, noise, vibration, land, transport etc., and the details of the same are elaborated in this chapter. The impact assessment is done for the peak production of the mine lease period and the entire area of quarry operation and can be construed as applicable for the entire lease period. Based on the baseline environmental status at the project site, the environmental factors that are likely to be affected (Impacts) are identified, quantified and assessed.

The following parameters are of significance in the Environmental Impact Assessment and are being discussed in detail in this chapter.

- Land environment
- Soil environment

- Water Environment
- Air Environment
- Noise Environment
- Socio economic environment
- Biological Environment

The proposed mining activity is small and not likely to have any serious impacts on the existing environment of the area. However, the potential impacts of the proposed mining and related activities on various environmental parameters are discussed.

4.2.1 LAND ENVIRONMENT

4.2.1.1 ANTICIPATED IMPACT

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 of 1.20.00 Ha. is Government land. The project area of 1.20.00 Ha is proposed to be altered by effective quarrying operation such as excavation (0.95.20 Ha), Infrastructure (0.01 Ha), Road (0.01 Ha) and greenbelt (0.22.80 Ha). The ultimate depth of quarrying is proposed by formation of 1 pit with maximum depth of 56m (31m above ground level and 25m below ground level) and will not intersect the ground water table. The mine closure plan is given in Figure 2.10. The present land use pattern and the post mining land use pattern is shown below.

Table 4.1 Land use pattern of the project site

Description	Present Area in Ha.	Area at the end of life of Quarry in Ha.
Quarrying pit	0.53.00	0.95.20
Infrastructure	Nil	0.01.0
Roads	0.01.0	0.01.0
Greenbelt	Nil	0.22.80
Unutilized	0.67.00	NIL
Total	**1.20.00**	**1.20.00**

- Change in topography of the mine lease area will change at the end of the life of the mine.
- At the end of life of mine, the excavated mine pit / void of 0.95.20 Ha. will act as artificial reservoir for collecting rain water and helps to meet out the demand or crises during drought season.
- After mine closure the greenbelt (0.22.80 Ha.) will be developed along the safety barrier and top benches and 0.02 ha are approach road and Infrastructure.
- Problems to agricultural land and human habitations due to dust, and noise caused by movement of heavy vehicles.
- Degradation of the aesthetic environment of the core zone due to quarrying.
- Soil erosion and sediment deposition in the nearby water bodies due to earthworks during the rainy season.
- Siltation of water course due to wash off from the exposed working area.

4.2.1.2 MITIGATION MEASURES

In the rough stone quarrying operation, land degradation is minimal. After completion of the quarrying operation, the land will be allowed to collect rainwater, this rough stone does not produce any toxic effluents in the form of solids, liquids, or gases.

It is a simple quarrying operation where 100% of stones will be removed systematically, according to the approved Mining Plan.

The periphery of the mining lease area will be converted to a greenbelt to prevent Noise and sound propagation to the nearby lands.

Entire mined out area will be properly fenced to prevent inadvertent entry of human and animals.

Since the entire material from the quarry face will be directly dispatched to the consumers, there will not be any stockpiles. There are no waste dumps in this quarry. As such there will not be any wash out due to stock pile or waste

dumps. To manage surface runoff, garland drain will be constructed around the quarry and connected to a settling pond with silt traps.

In terms of aesthetics, natural vegetation surrounding the quarry will be retained (such as in a buffer area i.e., A safety distance of 10 m has been provided along the boundary to the adjoining Government lands.) so as to help minimize dust emissions.

4.2.2 SOIL ENVIRONMENT

4.2.2.1 ANTICIPATED IMPACT

Mining activities often disrupt the existing environment as they involve disturbing the untouched earth materials. There is no overburden generation from this proposal. During rainy season surface run off may cause sedimentation in low lying areas.

4.2.2.2 MITIGATION MEASURES FOR SOIL EROSION AND SOIL CONSERVATION

- Runoff water will be collected in bottom of the quarry and used for plantation and dust suppression during dry season.no run off water will be discharged beyond lease area.
- Wet drilling and haul road water sprinkling will be carried out to minimise air born dust at source level, which may cause soil pollution due to sedimentation.
- Garland drains will be constructed around the project area with silt traps to control the soil erosion during rainy seasons.
- Greenbelt development (0.22.80 Ha.) all along the periphery of the project area (i.e., 10 m safety barrier) will ensure binding strength and minimizes soil erosion.
- Soil sampling will be carried out in the core zone for every season to ensure the soil quality is not affected due to the quarrying activities.
- Monitoring and maintenance – Weekly monitoring and daily maintenance of erosion control systems so that they perform as specified specially during rainy season.

4.2.3 WATER ENVIRONMENT

4.2.3.1 ANTICIPATED IMPACT ON SURFACE AND GROUND WATER

The impact due to quarrying on the water quality is expected to be insignificant because of no use of chemicals or hazardous substances during quarrying process. The quarrying activity will not intersect ground water table as quarrying is proposed upto a depth of 56m (31m above ground level and 25m below ground level) and water table is found at a depth of 64 - 67 m BGL.

The following water bodies are located in the buffer zone of the project site.

Tank - 51 m (S), Tank - 170 m (SE), Nattaramangalam Eri - 1.53 km (W), Therani Lake - 3.19 km (E), Puthukkurichi Eri - 3.19 km (NE), Nanthai River - 3.8 km (S), Maniyankurichy Eri - 6.50 km (W), Stream - 7.17 km (SW) & Uppar R - 8.84 km (SW)

There are two tank situated on south and southeastern side of the area and is 51m and 170m away from the area. The drainage map of the study area is given in Figure 3.17. There is no proposal for discharging of wastewater outside the project area. There is no proposal for a rough stone processing or workshop within the project area, so no effluent is anticipated in the mine.

During rainy season rain water will be collected in the quarry pit and later used for greenbelt development and for the water sprinkling in the haul roads.

4.2.3.2 ANTICIPATED IMPACT DUE TO WATER USE IN MINE'S

The total water requirement for the project will be 5.0 KLD comprising Drinking and domestic 1.5 KLD, Dust suppression 1.5 KLD and Greenbelt 2.0 KLD. The water will be sourced initially from outside agencies. Later the rainwater collected in the mine pit sump will be used for this purpose. The water balance diagram for the same is shown in Figure No 4.1.

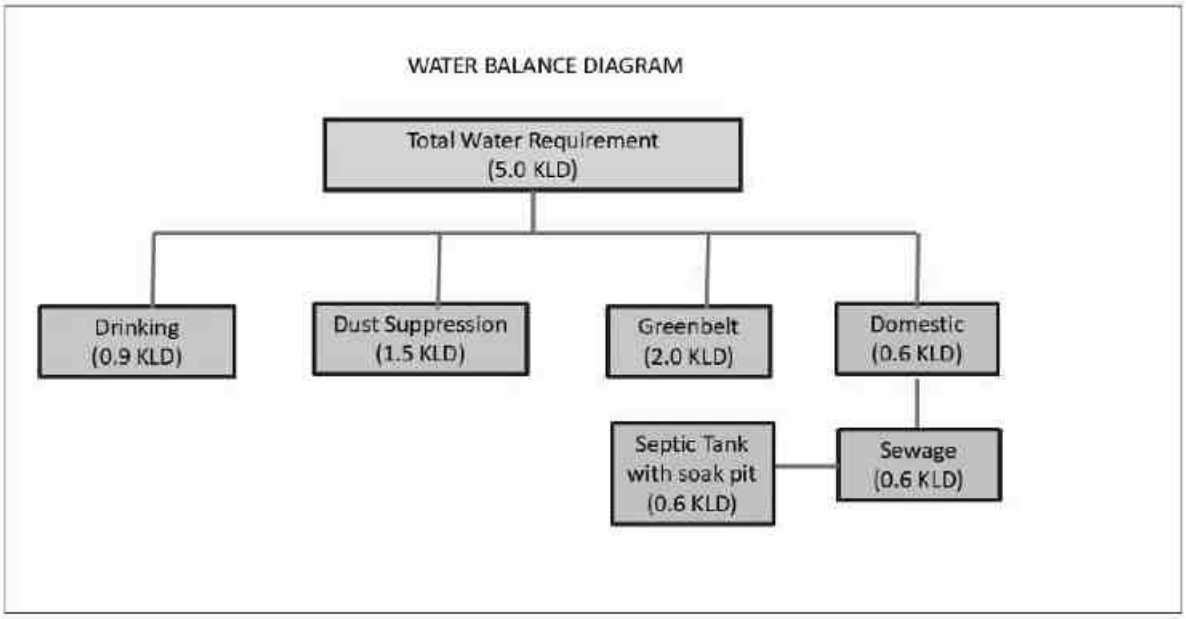


Figure 4.1 Water Balance Diagram

4.2.3.3 MITIGATION MEASURES

The following mitigation measures are suggested for water management

- Rainwater will be collected in lower part of the quarry pit by construction of garland drains to divert surface run-off and will be connected to setting tank to allow suspended solids to settle down if any. This collected water will act as a rain water harvesting system and will be used for dust suppression and greenbelt development.
- Regular water quality will be carried in nearby villages to ensure the water quality is not affected due to the quarrying activities.
- Domestic sewage from site office & urinals/latrines provided in project area will be discharged through septic tank followed by soak pit system.
- Only clear and settled water free from silt content will be used for dust suppression and greenbelt development.
- De-silting will be carried out before and immediately after the monsoon season and the settling tank and drains will be cleaned weekly, especially during monsoons.

4.2.3.4 RAINWATER HARVESTING PLAN

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

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

The average annual rainfall of the area is 908 mm. Taking into consideration of 0.35 as runoff co-efficient for mining area, the total quantity of rain water can be harvested per annum from the area has been tabulated as below.

Table 4.2 – Rainwater Harvesting Plan

S.NO	Rainwater Harvesting Area	Area in Sq.m	Average annual rainfall	Volume of harvestable quantity (Cum) of rain water per annum
1	Total Mine Lease Area	12000	0.90	3780
Total Harvested Rainfall				**3780**

Total surface water runoff is 3780 Cum per Annum. 10% of this amount will be evaporated and rest 3402 m^3 will be recharged in the rain water harvesting pit.

Two sumps will be proposed to harvest rain water and each sump capacity will be 2500 Cu.m. The rain water stored in the pond will be utilized for plantation, dust suppression activities. The capacity of Rain water harvesting pond will be sufficient to arrest the surface runoff from the lease area considering the highest amount of rain fall.

4.2.4 AIR ENVIRONMENT

The existing ambient air quality in the area has been described in Chapter-3. Opencast mechanized mining, using jackhammer drilling, blasting, and excavation

through an excavator, as well as mineral transport through tippers, will be carried out for the excavation of rough stone.

4.2.4.1 ANTICIPATED IMPACT

The proposed mining and allied operations may cause deterioration of air quality due to pollution arising from the project operation if prompt care is not taken. The principal sources of air pollution in general due to mining and allied activities will be:

The air-borne particulate matter generated by quarrying operations and transportation is mainly PM_{10} and PM2.5, and emissions of sulfur dioxide (SO_2) and oxides of nitrogen (NO_2) due to excavation/loading equipment and vehicles plying on haul roads are the cause of air pollution in the project area.

Furthermore, the loading, unloading, and transportation of rough stone, as well as wind erosion of the exposed area and movement of light vehicles, will cause pollution within a 500-meter radius of the project area due to quarrying activities. This has a cumulative impact on the ambient air environment around the project area.

4.2.4.2 MITIGATION MEASURES

The following measures will be adopted to control impact on the air quality due to mining operations in the lease area due to adoption of which, no major impact on air quality is envisaged due to this proposed opencast mining operation.

Table 4.3 Mitigative Measures for Air Environment

S.NO	Activity	Consequence	Mitigative Measures
1	Drilling	Dust Emission	Usage of wet drilling
			Covering of drill holes with wet cloth
			Usage of sharp drill bits for drilling of holes.
			Provision of dust mask to workers working at highly dust prone and affected areas.
2	Blasting	Prompt dust emission	Well-designed blasting parameter, effective stemming to achieve optimum breakage occurs without generating fines.
			Use of appropriate explosives for blasting and avoiding overcharging of blast holes.
			Avoiding blasting during high wind periods where the fine dust is carried out away easily affecting the ambient air quality.
			Use of controlled blasting techniques with milli second delay detonators to keep the dust generation, noise as well as vibration level within the prescribed limits.
3	Excavation and Loading	Dust emission, Gaseous Emission	Proper maintenance of HEMM will be carried out to minimize dust and gaseous emission at the source level.
			Water sprinkling will be carried out at excavation and loading area.
			Imparting sufficient training to operators on safety and environmental parameters.
			Avoiding overloading of dumpers.
4	Transportation	Dust emission, Gaseous Emission	Regular wetting of transport road using mobile water tanker.
			Proper maintenance of haul road and other roads
			Avoiding overloading of tippers
			Covering of loaded tippers with tarpaulins during transportation
			Vehicular emissions will be controlled through regular and proper preventive maintenance only PUC valid vehicles will be used for transportation.

5	Greenbelt	Dust emission, Gaseous Emission	Development of greenbelt / barriers around mine in the safety zone and carrying out plantation within the lease area.
6	Occupation Health	Dust emanation, Gaseous Emission	Dust mask will be provided to the workers and their use will be strictly monitored
			Annual medical checkups, trainings and campaigns will be arranged to ensure awareness about importance of wearing dust masks among all mine workers & tipper drivers
			Ambient Air Quality Monitoring will be conducted six months once to assess effectiveness of mitigation measures proposed.

4.2.4.3 AIR QUALITY IMPACT PREDICTION

The AERMOD atmospheric dispersion modeling (AERMOD Cloud remote version) is used for assessment of incremental Ground level concentration (GLC) for the proposed production. Area source model taken into consideration taking into consideration of wet drilling and loading. 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.

TABLE 4.4 Types of Source for Air Pollution in Mining

S. No.	Type of mining operation	Type of Source
1	Wet drilling	Point
2	Loading	Point
3	Transportation	Line

ARRIVING EMISSION FACTOR

Emission factor for PM_{10} for different activities are given below.

TABLE 4.5 Emission Factors for Mining Activities

S. No.	Activity	Emission factor	Unit
1	Wet drilling	0.00008	lb/s
2	Ore loading	0.0014	Kg/t/s
3	Transportation	0.26	Kg/VKT

Source

1. Jose I. Huertas & Dumar A, Camacho & Maria E. Huertas, Standardized emissions inventory methodology for openpit mining areas, Environmental Science Pollution Research, 2012.
2. AP-42. U.S Environmental Protection Agency, Office of Air Quality Planning and Standards

EMISSIONS FROM THE PROPOSED PROJECT

The emissions from each activity after the application of control and mitigation measures like water sprinkling, proper maintenance of transport vehicles, etc., are given below.

TABLE 4.6 Pm 10 And Pm 2.5 Emission From Mining Activities			
S. No.	**Activity**	**PM10**	**PM2.5**
1	Wet drilling	0.22	0.04
2	Ore loading	0.87	0.16
3	Transportation	0.23	0.05

MODEL INPUT DATA:

The air pollution modeling carried out represents the normal operating scenarios. As the project is a mining project the major source of pollution is particulate matter. The SOx and NOx emission will be very less only due to vehicular emission. So the pollutant taken for prediction of incremental concentration is particulate matter (PM_{10} & $PM_{2.5}$). The predicted incremental Ground Level Concentrations (GLCs) for particulate matter is likely to be contributed by the proposed project. The average predicted 24 hr average concentration has been tabulated as below.

EMISSION ESTIMATION

The emission estimations for the activities are detailed below.

Table 4.7 - Area Emissions – Total Material handling

Quantity, TPA	Rough Stone: 1,33,200 m^3 (Five Years)
Operational Hours Per Year	2400
Activity Rate, t/hr.	400.9212
Emission of dust, g/t.	0.20
Emission of dust, g /hr.	52.4423
Area of influence, m2	620

Uncontrolled emission rate g/s/m2	0.000061021
Controlled emission rate, PM10 g/s/m2	0.00006102
Controlled emission rate, PM2.5 g/s/m2	0.00004923

Table 4.8 - Line Source – Transport of Rough Stone from Pit to Boundary

Quantity, TPA	Rough Stone: 1,33,200 m^3 (Five Years)
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	2520
Lead length/trip, Km	0.23
Total VKT/Year	82121
Emission Kg/VKT	0.20
Total emission Kg/Year	29716
Uncontrolled emission rate g/s/m	3.9020
Controlled emission rate, PM10 g/s/m	0.3901
Controlled emission rate, PM2.5 g/s/m	0.29018

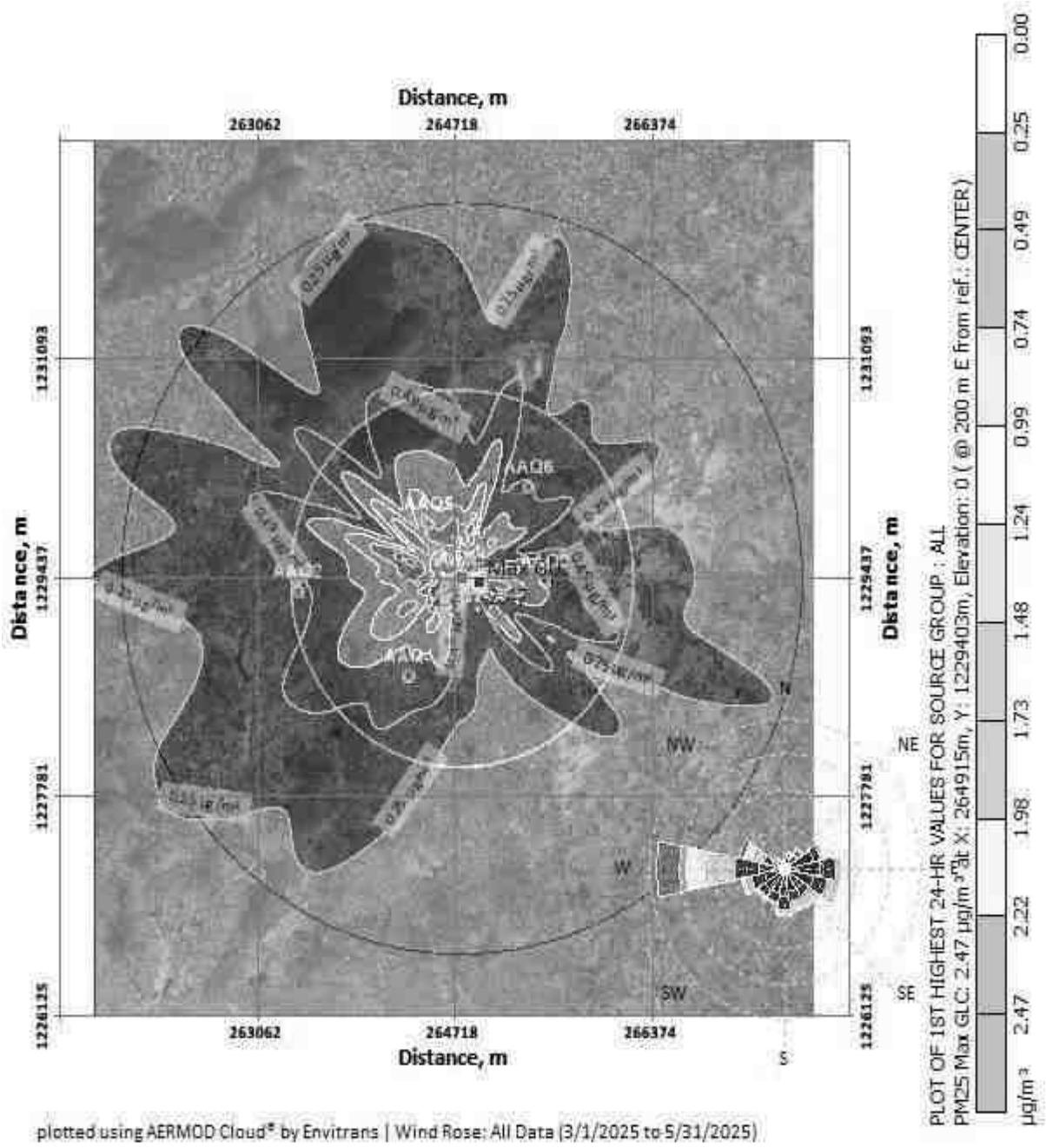


Figure 4.2 Isopleth of GLC Prediction for $PM_{2.5}$

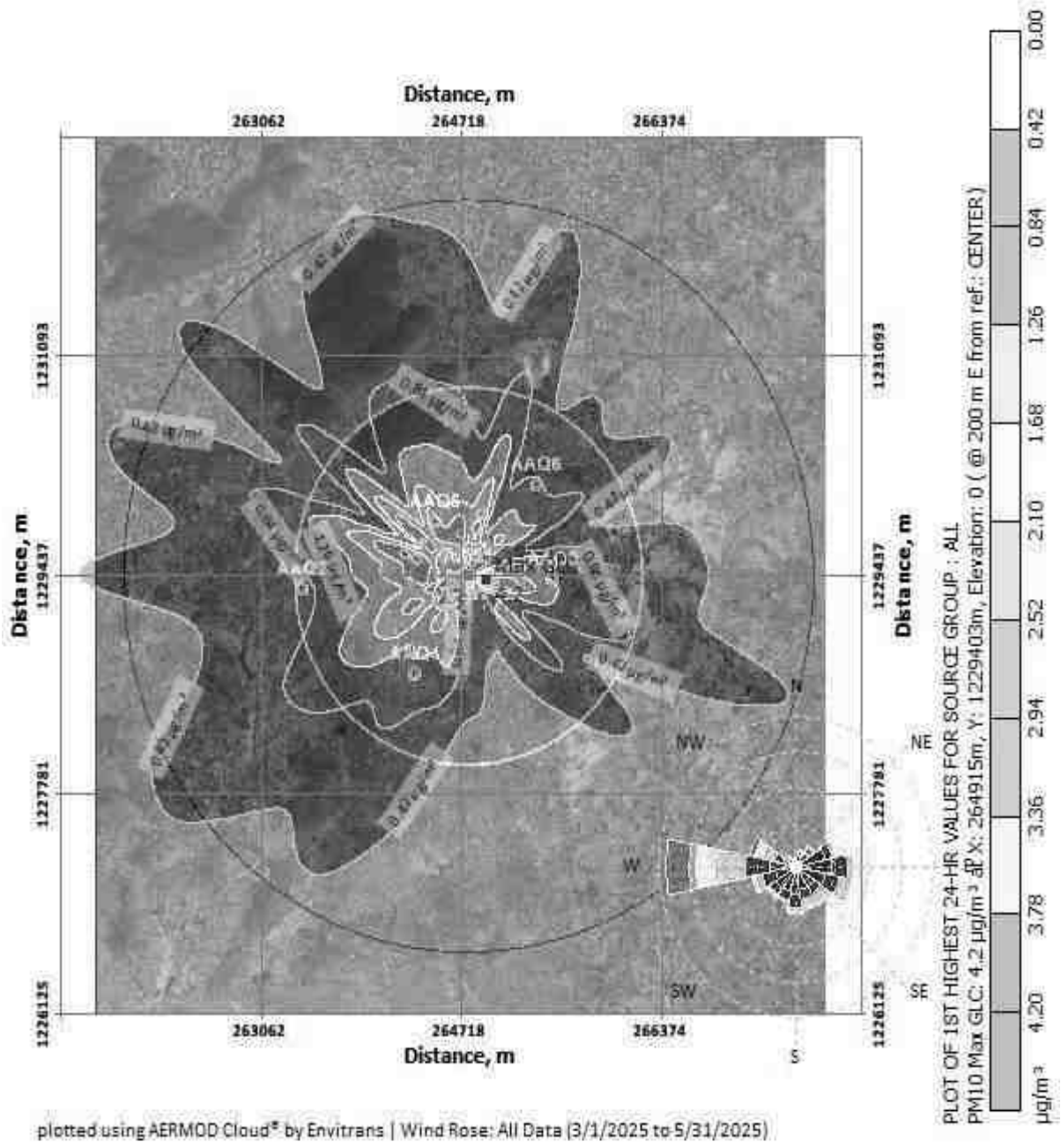


Figure 4.3 - Isopleth of GLC Prediction for PM10

PREDICTED AMBIENT AIR QUALITY:

The post project Concentrations of PM10, PM2.5, (GLC) (base line + incremental) after adopting necessary control measures is given in Table No - 4.9 to 4.10.

Table4.9: Concentrations of PM $_{2.5}$ after Project Implementation

SL.No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m^3
1	A1 - Within Mine Lease area	36.1	2.47	38.57	**60**
2	A2 - Sridevi Mangalam	28.6	2.22	30.82	
3	A3 - Near Therani big lake	26.7	1.98	28.68	
4	A4 - Padalur West	29.4	1.73	31.13	
5	A5 - Alathur	24.7	1.48	26.18	
6	A6 - Pudhukkurichi	27.1	1.24	28.34	
7	A7 - Padalur	25.4	<1.0	26.40	

Table4.10: Concentrations of PM 10 after Project Implementation

SL.No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m3
1	A1 - Within Mine Lease area	75.5	4.20	79.70	**100**
2	A2 - Sridevi Mangalam	59.5	3.78	63.28	
3	A3 - Near Therani big lake	56.5	3.36	59.86	
4	A4 - Padalur West	59.1	2.94	62.04	
5	A5 - Alathur	51.3	2.52	53.82	
6	A6 - Pudhukkurichi	57.2	2.10	59.30	
7	A7 - Padalur	53.3	1.68	54.98	

The above report seems that, even in the worst-case scenario, the resultant added concentrations with baseline figures show that the values of ambient air quality for PM_{10} are in the range of 53.82 µg/m^3 to 79.70 µg/m^3 and for $PM_{2.5}$ are in the range of 26.18 µg/m^3 to 38.57 µg/m^3 which are within the statutory limits in each

case. The mitigation measures undertaken in the mine for control of air pollution are given below.

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

4.4.4 NOISE ENVIRONMENT

The ambient noise levels in the study area have been discussed in Chapter - 3. The data shows that the existing noise levels are within statutory limits. The impact prediction and control measure for noise environment due to mining and allied activities is described below:

4.4.4.3 IMPACT DUE TO NOISE AND VIBRATION

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

Table 4.11 - The likely noise level in the lease area

SL.No	Source Name	Noise Level in dB (A)
1	Diesel generator	102
2	Excavator Operation	95
3	Trucks movement	95
4	Drilling	105
5	Blasting	120

4.4.4.4 MITIGATION MEASURES FOR NOISE CONTROL

The following noise mitigation measures are proposed for control of Noise

- Usage of sharp drill bits while drilling which will help in reducing noise;

- Secondary blasting will be totally avoided and hydraulic rock breaker are utilized for breaking boulders;
- Controlled blasting with proper spacing, burden, stemming and optimum charge/delay will reduce noise;
- The blasting will be carried out during favourable atmospheric condition and less human activity timings by using nonelectrical initiation system;
- Proper maintenance, oiling and greasing of machines will be done every week to reduce generation of noise;
- Provision of sound insulated chambers for the workers working on machines (HEMM) producing higher levels of noise;
- Green Belt will be developed around the project areas and along the haul roads. The plantation minimizes propagation of noise;
- Personal Protective Equipment (PPE) like ear muffs/ear plugs will be provided to the operators of HEMM and persons working near HEMM and their use will be ensured though training and awareness.
- Regular medical check–up and proper training to personnel to create awareness about adverse noise level effects

4.4.4.5 GROUND VIBRATION

The vibration due to blasting can cause damage to the nearby structures if appropriate technology and control measures are not adopted in the blasting operation. Fly rock is another possible damage causing outcome of blasting. There are many factors which influence fly rock during blasting. Most important of these factors are long explosive column with little stemming column, improper burden, loose material or pebbles near the holes and long water column in the hole.

Mitigative Measures

- Proper quantity of explosive, suitable stemming materials and appropriate delay system should be adopted to avoid overcharging and for safe blasting;
- Adequate safe distance from blasting should be maintained as per DGMS guidelines;
- Blasting shelter should be provided as per DGMS guidelines;
- Blasting operations shall be carried out only during day time;

- The charge per delay shall be minimized and preferably more number of delays will be used per blasts;
- During blasting, other activities in the immediate vicinity shall be temporarily stopped;
- Drilling parameters like depth, diameter and spacing will be properly designed to give proper blast;
- Blasting will be carried out under the supervision of statuary persons as approved by DGMS.
- A well-defined SOP will be framed under the leadership of top management and the same will be followed for each blasting.
- Regular PPV monitoring will be carried out to ensure PPV limits i.e., 0.5 mm/s.

4.4.5 BIOLOGICAL ENVIRONMENT

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

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

Table 4. 12 Ecological Impact Assessments and Its Mitigations -Part 1

S.NO	Issues	Assessment	Mitigations
1	Proximity to national park/ wildlife sanctuary / reserve forest / mangroves / coastline/estuary/sea	There is no reserve forest within 1 km radius. The R.F. in 10 km radius are given below, Naranamangalam R.F – 3.60 km (NW), Nedungur R.F. – 3.56 km (S), Maniyankurichi R.F – 4.29 km (SW), Velur R.F – 5.49 km (NW), Siruvachur R.F – 6.11 km (NW) & Maramareddi palaiyam R.F. – 7.40 km (SW). The proposed	The fugitive dust generated by the mining activity will be suppressed by frequent sprinkling of water based on evaporation rate in the site specific.

		project does not attract Forest Conservation Act, 1980. There is no wild life sanctuaries found around 10km radius and the area does not attract Wildlife Protection Act, 1972 and C.R.Z. Notification, 1991.	
2	Activities of the project affects the breeding/nesting sites of birds and animals	No breeding and nesting site was identified in mining lease site. The fauna sighted mostly migrated from buffer area. The fauna in the buffer zone may be affected by noise generated due to mining activity.	The noise due to the mining activity will be controlled by developing green belt all along the lease boundary, regular maintenance of tippers, excavators, transporting the tippers within speed limits.
3	Located near an area populated by rare or endangered species	No endangered, critically endangered, vulnerable species sighted in core mining lease area and also in buffer zone.	NIL
4	Proposed project restricts access to waterholes for wildlife	No waterholes are in core zone. No Wild life sanctuary within 10km radius.	NIL
5	Proposed mining project impact surface water quality that also provide water to wildlife	„NO" scheduled or threatened wildlife animal sighted regularly in core area. There is no proposal for discharge of wastewater to nearby water bodies.	NIL
6	Proposed mining project increase siltation that would affect nearby Biodiversity area.	Surface runoff management structures like garland drain, settling pond etc. as explained above will be constructed and as such there will not be any appreciable impact on surface water quality which in turn can affect the bio diversity of the area.	
7	Risk of fall/slip or cause death to wild animals due to project activities	In the post mining stage, wire fencing is proposed all around the mined-out void to prevent falling of animals in the mine pits.	
8	The project release effluents into a water body that also supplies water to a wildlife	As the proposed project is mining activity there will be no possibilities of release of effluents. Also, no Wild life sanctuary within 10km radius.	NIL
9	Mining project effect the forest-based livelihood/ any specific forest production which	No forest within 1 km radius. So, the proposed mining activity does not affect forest and forest products.	NIL

	local livelihood depended		
10	Project likely to affect migration routes	No migration route observed during monitoring period.	NIL
11	Project likely to affect flora of an area, which have medicinal value	No such significantly important medicinal value species within the ML area and its nearby region.	NIL
12	Forestland is to be diverted, has carbon high sequestration	„NO". There is no forest land within the lease area.	NIL
13	The project likely to affect wetlands, fish breeding grounds, marine ecology	'NO". No wetland, fish breeding grounds, marine ecology present in core mining area.	NIL

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

Table 4.13 Ecological Impact Assessments and Its Mitigations -Part 2

Identified Impacts	Ecological Significance of impact	Magnitude	Phase / duration	Reversibility	Mitigation
Project site Habitat due to Site Clearance.	There are no trees in the core zone. The Mining activity will be carried within the lease area. No clearance of vegetation in the buffer zone	Low impact	Planning stage	Irreversible	The quarried-out pit will be used as water storage pond which increases agricultural activity in the buffer zone.
Impact on Surrounding habitat due to fugitive emission	The fugitive emission due to the mining activities such as drilling, blasting, loading and transportation on the haul road will be deposited on the flora and crop field in the buffer zone which affects growth and its productivity.	Temporary Impact	Operational stage	Reversible	The sprinkling of water over the haul road will be done. Then completely wet drilling will be take place. The transportation vehicles will be maintained and serviced Properly.
road construction	No Road construction is required to assess the project site. The existing internal Road connects the project site to the existing SH and NH	No Impact	-	-	-
Ecological Impact on Surrounding/ Eco sensitive habitat due to waste water generated from the project activity.	Since the proposed project is a mining activity no waste water generation is expected. Sewage will be generated due to the workers	No impact	-	-	-
Ecological Impact on Surrounding / Eco sensitive habitat due to Noise generated	During drilling or blasting, transportation of rough stone, noise will be generated and it may slightly affect the movement of fauna around the lease area.	Temporary impact	Only during drilling, blasting operation and	NO	Avenue trees will be planted along the lease area to minimize the noise level. Milli second detonators shall be used preferably 25–50ms per delay to control vibrations. Regular maintenance of

from the project activity.			transportation period. (5 years)		vehicles and driving the tipper within specified limits also control the noise generations.
Ecological Impact on Surrounding/ Eco sensitive habitat due to Transportation	There is no eco sensitive habitat found around the lease area. The fugitive emission from drilling, blasting, vehicle movement will form layer in leaves thus reducing the gaseous exchange process. This ultimately affects the growth of plants. The animals like dog, cattle may get accident due to truck movement.	Temporary impact	During Operation Phase	NO	The truck driver will be advised to drive the vehicle within 20km/hr inside the lease area and 40km/hr outside the lease area. The sprinkling of water over the haul road will be done. Then completely wet drilling will be take place.

4.4.5.3 MITIGATION MEASURES

- Necessary mitigative measures like dust suppression, proper maintenance of equipment's, roads will be carried out to prevent dust generation.
- There is no proposal to discharge any effluent into nearby water bodies.
- Surface runoff management structures like garland drain, settling pond, protective bund etc. as explained above will be constructed and as such there will not be any appreciable impact on surface water quality which in turn can affect the bio diversity of the area.
- Construction of barbed wire fencing all around the boundary to prevent falling of animals in the mine pits.

Carbon Emission:

Carbon released from quarrying machineries and tippers during quarrying would be 190 kg per day, 69,350 kg per year and 3,46,750 kg over five years, as provided in below Table.

Description	Per Day	Per year	For Five Years
Total fuel consumption in liters	71	21,312	1,06,560
Co_2 emission in kg	190	69,350	3,46,750

Carbon Sequestration:

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

4.4.5.4 GREENBELT DEVELOPMENT PLAN

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

Table – 4.14 GREENBELT DEVELOPMENT PLAN

Year	No. of trees proposed to be planted	Survival %	Name of the Species	No. of trees expected to be grown
I	230	85%	Neem, Casuarina, Pongamia pinnata, etc.,	195
II				
III				
IV				
V				

Nearly 0.22.80 Ha. of area is proposed for Greenbelt development by planting 230 Nos of trees and expected growth is around 195 Nos @ survival rate of 85%.

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

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

4.4.6 SOCIO – ECONOMIC

From the primary Socio-economic survey & through secondary data available from established literature and census data 2011, it is found that there would be positive impact on Socio-economic condition of the nearby area. There is no habitation within 300 m of the proposed mining lease area. Therefore, no major impact is anticipated on the nearby habitation during the entire life of the mine.

The entire lease area is in the proponent's possession. Hence, there are no habitations or hutments in the core zone area and no rehabilitation or resettlement problems will arise here.

The mining operations in the proposed mine will employ about 25 persons directly and indirect basis through allied opportunities in logistics, trading, repairing works etc. good employment potential will arise, which will provide raising income levels and standards of living in the area through various service related activities connected with the project operations as shown under.

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

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

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

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

4.4.7 OCCUPATIONAL HEALTH AND SAFETY

Primary data collection through field survey conducted in the study area reveals that there is no reported incident of any occupational diseases in the area. Hazardous jobs like blasting, loading, etc. are planned to be executed safely and with all precautionary measures as prescribed in Metalliferrous Mines Regulations of 1961, so as to minimize hazards and incidences of health problems.

Occupational health and safety hazards occur during the operational phase of mining and primarily include the following:

- Respiratory hazards
- Noise
- Explosive storage and handling

Respiratory Hazards

Long-term exposure to silica dust may cause silicosis the following measures are proposed:

- Cabins of excavators and tippers will be enclosed with AC and sound proof
- Use of personal dust masks will be made compulsory

Noise

Workers are likely to get exposed to excessive noise levels during mining activities.

The following measures are proposed for implementation

- No employee will be exposed to a noise level greater than 85 dB(A) for a duration of more than 8 hours per day without hearing protection
- The use of hearing protection will be enforced actively when the equivalent sound level over 8 hours reaches 85 dB(A), the peak sound levels reach 140 dB(C), or the average maximum sound level reaches 110 dB(A)
- Ear muffs provided will be capable of reducing sound levels at the ear to at least 85 dB(A)
- Periodic medical hearing checks will be performed on workers exposed to high noise levels

Occupational Health Survey

All the persons will undergo pre-employment and periodic medical examination as per DGMS and 12th National Mines Safety Council recommendation.

The PP will maintain occupational health history card for their Employees.

The PP will establish first aid station within project site.

Good Drinking Water specialty will be provided at the site level.

4.4.8 WASTE MANAGEMENT

4.4.8.3 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.

4.4.8.4 LIQUID WASTE

There is no process effluent generation from this mine. Hence no liquid waste is generated. Domestic wastewater i.e 0.96 KLD will be discharged in soak pit via septic tank.

4.4.8.5 HAZARDOUS WASTE MANAGEMENT

In this project the following management practices will be followed:

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

4.4.8.6 PLASTIC WASTE

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

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5.0 ANALYSIS OF ALTERNATIVES (TECHNOLOGY AND SITE)

5.1 ALTERNATE TECHNOLOGY

The mining technology is mechanized open cast in single-shift operation without any change in technology. The operation will be carried out as per DGMS norms. No alternate technology will be used. Details of the technology used are given in Chapter 2.

5.2 ALTERNATE SITE

The project is a mining project and will be operated within the lease grant area. So no alternate sites have been assessed. Since the resource (Rough stone) is site-specific, the chosen location is the only site to carry out Rough Stone quarry.

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6 ENVIRONMENTAL MONITORING PROGRAMME

6.1 GENERAL

The monitoring and evaluation of environmental parameters indicates potential changes occurring in the environment, which paves way for implementation of rectifying measures wherever required to maintain the status of the natural environment. Evaluation is also a very effective tool to judge the effectiveness or deficiency of the measures adopted and provides insight for future corrections.

The main objective of environmental monitoring is to ensure that the obtained results in respect of environmental attributes and prevailing conditions during operation stage are in conformity with the prediction during the planning stage. In case of substantial deviation from the earlier prediction of results, this forms as base data to identify the cause and suggest remedial measures. Environmental monitoring is mandatory to meet compliance of statutory provisions under the Environment (Protection) Act, 1986, relevant conditions regarding monitoring covered under EC orders issued by the SEIAA as well as the conditions set forth under the order issued by Tamil Nadu Pollution Control Board while granting CTE/CTO.

6.2 MONITORING MECHANISM

The PP will undertake effective monitoring and implementation of various environmental control measures promptly and effectively and to oversee various environmental management schemes for air quality control, water quality status, noise level control, plantation programme, social development schemes, etc in the mine.

6.3 ENVIRONMENTAL MONITORING SCHEDULE AND FREQUENCY

The monitoring schedules are planned for systematic study of various pollution levels with respect to air and water qualities, noise levels, etc. to ensure that they conform to the standards laid down by Environmental Protection Act and various statutory Limits. However, based on the need and priority it may be suitably

modified / improved in consultation with local authorities. Monitoring may include socio-economic interaction, through local liaison activities or even assessment of complaints. The monitoring schedules to be adopted in this quarry are given below.

Table 6.1 Environmental Monitoring Schedule

S.NO	Environmental Attribute	Parameters to be monitored	Monitoring Locations	Frequency
1	Air Quality	Particulate Matter (PM2.5 and PM10), Sulphur dioxide (SO2), Oxides of Nitrogen (NO2), Respirable.	4 locations in the buffer zone and 2 work zone locations.	Once in season
2	Water Quality	General, Physical, and chemical parameters	Ground Water samples (around the project area) and Mine Pit water samples	Once in season
3	Hydrogeology	Water Levels	Nearby wells and Borewells	On yearly basis pre and post monsoon level
4	Noise	Leq. Lmax Lmin, Leq Day & Leq Night dB(A	Work zone locations and buffer zone villages	Once in Season
5	Vibration	Peak Particle Velocity	Mine periphery	Regular Interval
6	Soil	Physical and Chemical Characteristics	2 Locations (1 Core & 1 Buffer)	Once in Season.
7	Greenbelt	Maintenance	Within the lease area	Regular interval

6.4 BUDGET FOR IMPLEMENTAION

The cost in respect of monitoring of environmental attributes, parameter to be monitored, sampling/monitoring locations with frequency and Monitoring work will be outsourced to external laboratory approved by NABL / MoEF. The capital and recurring cost required for the project are detailed in below table.

EMP COST (FOR 5 YEARS) in Lakhs		
Mitigation Measures	**Capital cost**	**Recurring Cost /Annum**
Air Environment	5.52	0.90
Noise Environment	0.30	0.02
Waste Management	0.25	0.12
Mine Closure	0.23	0.05
Implementation of EC, Mining Plan & DGMS Condition	0.62	0.72
Total	**6.92**	**1.81**
The total EMP Cost of 16.92 Lakhs for a period of five years have been proposed. i.e., Capital cost of Rs. 6.92 Lakhs + Recurring cost of Rs. 10.00 lakhs (@ 5% Escalation).		

The breakdown of EMP costs is detailed in Table 10.2 of Chapter 10, and this EMP cost includes environmental monitoring.

6.5 SUBMISSION OF PERIODICAL REPORTS

The monitored data on air quality, water quality, noise levels and other environmental attributes will be periodically examined by the Mine Management Coordinator and Respective Head of Organization for taking necessary corrective measures. The monitoring data will be submitted to Tamil Nadu State Pollution Control Board in the Compliance to CTO Conditions & environmental audit statements every year to MoEF & CC and Half-Yearly Compliance Monitoring Reports to MoEF & CC Regional Office and SEIAA.

Periodical reports to be submitted to: -

- MoEF & CC – Six month EC compliance report
- TNPCB - Half yearly CTO Compliance report
- MOEF & CC & TNPCB – annual Environmental Statement Report. (Form – V)
- Annual Hazardous Waste Return (Form – IV)
- Department of Geology and Mining: quarterly, half yearly annual reports.

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7 ADDITIONAL STUDIES

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

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

7.1 PUBLIC CONSULTATION

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

7.2 RISK ASSESSMENT

The DGMS risk assessment process is intended to identify existing and probable hazards in the work environment and all operations and assess the risk levels of those hazards in order to prioritize those that need immediate attention. Further, mechanisms responsible for these hazards are identified and their control measures, set to timetable are recorded along with pinpointed responsibilities.

The whole quarry operation will be carried out under the direction of a Qualified Competent person holding certificate of competency to manage a metalliferous mine granted by the DGMS. Factors of risks involved due to human induced activities in connection with this proposed mining & allied activity with detailed analysis of causes and control measures for the mine is given in below Table 7.1.

Table 7.1 Risk Assessment and Control Measures

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

3	Blasting	Fly rock, ground vibration, Noise and dust. Improper charging, stemming & Blasting/ fining of blast holes. Vibration due to movement of vehicles.	Restrict maximum charge per delay as per approved mining plan. Proper blasting design with optimum spacing & burden, Charge per delay and stemming. SOP for Charging, Stemming & Blasting/Firing of Blast Holes will be followed by blasting crew during initial stage of operation. Shots are fired during day time only. Charging and firing shall be carried out in the same day. Siren will be done for each blasting. Blasting evacuation plan prepared and executed. The danger zone will be distinctly demarcated (by means of red flags).
5	Transportation	Potential hazards and unsafe workings contributing to accident and injuries. Overloading of material. While reversal & overtaking of vehicle. Operator of truck leaving his cabin when it is loaded.	Before commencing work, drivers personally check the dumper/truck/tipper for oil(s), fuel and water levels, tyre inflation, general cleanliness and inspect the brakes, steering system, warning devices including automatically operated audio-visual reversing alarm, rear view mirrors, side indicator lights etc., are in good condition. Unauthorized person will not be allowed to operate or ride on the vehicle. Loading according to the vehicle capacity. Periodical maintenance of vehicles as per operator manual.
6	Natural calamities	Unexpected happenings	An emergency management plan will be prepared considering all possible national calamity and the same will be executed if any such situation occurs. Escape Routes will be provided to prevent inundation of storm water. Fire Extinguishers & Sand Buckets in the designated areas.
7	Failure of Mine Benches and Pit Slope	Slope geometry, Geological structure	Ultimate or over all pit slope shall be below 60° and each bench height shall be 5m height.

7.3 DISASTER MANAGEMENT PLAN

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

7.3.1 MODEL DISASTER MANAGEMENT PLAN

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

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

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

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

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

7.3.2 OBJECTIVE OF DISASTER MANAGEMENT PLAN

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

Communication System

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

Facilities

The office shed will have provision of first aid centre to provide first aid in the event of an emergency. The office shed will also function as emergency control room. It will be provided with telephone and mobile phones, and a vehicle for emergency transport.

Personnel

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

Operating Procedures

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

7.4 CUMULATIVE IMPACT STUDY

There are 10 proposed quarries including this proposal are located within a radius of 500 m from this proposed project area. The proposed quarries situated within 500 m radius are presented in below Table 7.2 and the letter received from Dept. of Geology and Mining, Perambalur stating the quarries detail within 500m radius is enclosed in Annexure – 4.

Table 7.2 Details of Quarries within 500m radius

S.No	Name of the Quarry Owner	S.F. Nos & Village	Lease Status	Area in Ha
a. Existing Quarry				
NIL				
b. Abandoned Quarry				
1.	B.Senthilkumar	Padalur (E) – 10/1 (Part)	12.04.2006 to 11.04.2016	1.00.00
2.	R.Sureshbabu	Padalur East – 10/1 – Block 17	23.05.2007 to 22.05.2017	1.00.0
3.	S.N. Vinoba	Padalur East – 10/1 – Block 5	26.04.2007 to 25.04.2012	1.00.0
4.	M.Raja	Padalur East -10/1 - Block 3	07.06.2007 to 06.06.2012	1.00.0
5.	D.Raja	Padalur East – 10/1 Block 6	11.05.2007 to 10.05.2012	1.00.0
6.	V.Panneerselvam	Padalur East – 10/1 – Block 22	31.05.2011 to 30.05.2021	1.00.0
7.	K.Mathiyalagan	Padalur East – 10/1 – Block 18	23.05.2007 to 22.05.2017	1.00.0
8.	M.Baskaran	Padalur East – 4(1)(P),4(2)(P),7(3)(P)	24.01.2018 to 23.01.2023	2.00.0
9.	V.Kamalasekar	Padalur East – 47/1A	22.03.2010 to 21.03.2015	0.81.0
c. **Expired Quarries**				
NIL				
d. Proposed Quarry				
1.	Thiru.Vinoth R	Padalur East -10/1 (Block 8)	Presently proposed	1.20.0
2.	Thiru. R. Rajkumar	Padalur East – 10/1 (Block 1)	Proposed	1.50.0

3.	Thiru. Hariharan L	Padalur East – 10/1 (Block 2)	Proposed	1.40.6
4.	Thiru.P.Velmurugan	Padalur East – 10/1 (Block 3)	Proposed	1.40.0
5.	M/s. Rajamalai Metals	Padalur East -10/1 (Block – 4)	Proposed	1.40.0
6.	M/s. SR Mines and Minerals	Padalur East – 10/1 (Block 6)	Proposed	2.20.0
7.	Thiru.M. Thangaraj	Padalur East – 10/1 (Block 5)	Proposed	2.10.0
8.	M/s. Mars Mines	Padalur East – 10/1 (Block 7)	Proposed	1.30.0
9.	M/s. Anjaneyaa Minerals	Padalur East – 10/1 (Block 9)	Proposed	1.20.0
10.	Thiru.P. Velmurugan	Padalur East – 10/1 (Block 13)	Proposed	1.00.0
Total Area of Cluster (d)		**14.70.60 Ha**		

As seen above, although the individual lease area of this project is less than 5 hectares, the ten proposed quarries within a 500-meter radius, add up to more than 5 hectares i.e. 14.70.60 Ha. A map showing the existing and proposed quarry located within 500m radius is given in Figure 1.1.

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

Table 7. 3 Salient Features of Existing & Proposed Quarries

Description		P1	P2	P3	P4	P5	P6	P7	P8	P9
Name of the Quarry	Name of the Quarry	Thiru.R.Rajkumar	M/s.Mars Mines	Thiru.Hariharan.L	Thiru.P.Velmurugan	M/s.SR Mines and Minerals	Thiru.M.Thangaraj	Thiru.R.Vinoth	Anjaneya Minerals	P. Velmurugan
Geological Resources in Ts	Roughstone	17,24,813.75Ts	15,35,572.50Ts	68,32,197 Ts	9,76,195Ts	27,00,156.25Ts	18,45,772.5 Ts	12,04,252.50Ts	9,55,175	26,81,525 Ts
Mineable Reserves in Ts	Roughstone	8,59,663.75 Ts	5,68,150Ts	9,79,115.50 Ts	3,11,245Ts	16,30,681.25Ts	3,48,576.25 Ts	3,66,300Ts	4,21,225	10,19,837.5
Production quantity for the period of 5years	Roughstone	8,59,663.75 Ts	5,68,150Ts	9,79,115.50 Ts	3,11,245Ts	16,30,681.25Ts	3,48,576.25 Ts	3,66,300Ts	4,21,225	10,19,837.5
Annual Peak Production in Ts		173649	115473	98697.50 Ts	66082.5	196763	70001.3	74250	-	-
Production per day in Ts		579	385	329	220	656	233	247	515.875	1818

Lorry Loads per day in Nos	-	58	39	33	22	66	23	25	52	182
Employment in Nos		30	29	33	23	29	25	25	31	32
Proposed Depth in meters		56	51	56	41	56	81	56	56m (31m AGL+ 25m BGL)	81m (61m AGL & 20m BGL)
Status of the quarry		Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed

7.4.1 AIR ENVIRONMENT

Based on the above production quantities the emissions due to various activities in 9 proposed mines includes various activities like ground preparation, excavation, handling and transport.

The data on the cumulative production resulting from the 10 projects have been given in Tables 7.4.

Table 7.4 Cumulative Production Load

Mineral Transportation			
Production Per day in tons			
Quarry	**Quarry Name**	**Total Mineral in tons per day**	**No. of Lorry Load per day**
P1 (Proposed)	Thiru.R.Vinoth	247	25
P2 (Proposed)	Thiru.R.Rajkumar	579	58
P3 (Proposed)	M/s.Mars Mines	385	39
P4(Proposed)	Thiru.Hariharan.L	329	33
P5(Proposed)	Thiru.P.Velmurugan	220	22
P6(Proposed)	M/s.SR Mines and Minerals	656	66
P7 (Proposed)	Thiru.M.Thangaraj	233	23
P8(Proposed)	Anjaneya Minerals	515	52
P9(Proposed)	P. Velmurugan	1818	182
Total		**4982**	**500**

The cumulative study shows that the overall production of minerals from the 10 quarries is 4982 tons per day with a capacity of 500 trips per day.

The proposed projects (10 Nos) will bring 500 trips per day. The existing road can absorb this additional traffic due to this project. Various measures like proper

maintenance of road, covering of the loaded truck with tarpaulin, water sprinkling will be carried out to ensure no adverse impact on the logistical front. Traffic density study is detailed in section 2.11 of Chapter 2.

Ground Level Emission Calculation for Cluster

Area and Line source emission for cluster quarries is details below.

Table 7.5 Area Emissions – Total Material handling – Cluster

Quantity, m3	Proposed Quarries: Rough stone • Thiru.R.Vinoth : 1,33,200 m^3 • M/s.SR Mines and Minerals: 5,92,975 m3 • M/s.Mars Mines: 2,06,600 m3 • R.Rajkumar: 3,12,605 m^3 • Thiru.Hariharan.L: 3,56,042 m3 Thiru.P.Velmurugan (Block -13): 1,13,180 m3 • Thiru.P.Velmurugan:(Block3):3,70,850 m3 • Thiru.M.Thangaraj: 1,26,755 m3 • M/s. Anjaneya Minerals : 1,53,172 m3
Operational Hours Per Year	2400
Activity Rate, t/hr.	369.45
Emission of dust, g/t.	0.29
Emission of dust, g /hr.	75.4525
Area of influence, m2	625
Uncontrolled emission rate g/s/m2	0.0007724
Controlled emission rate, PM10 g/s/m2	0.00077241
Controlled emission rate, PM2.5 g/s/m2	0.0005149

Table 7.6 Line Source – Transport of Material from Pit to Boundary

Quantity, m3	Proposed Quarries: Rough stone • Thiru.R.Vinoth : 1,33,200 m^3 • M/s.SR Mines and Minerals: 5,92,975 m3 • M/s.Mars Mines: 2,06,600 m3 • R.Rajkumar: 3,12,605 m^3 • Thiru.Hariharan.L: 3,56,042 m3 Thiru.P.Velmurugan (Block -13): 1,13,180 m3 • Thiru.P.Velmurugan:(Block3):3,70,850 m3 • Thiru.M.Thangaraj: 1,26,755 m3 • M/s. Anjaneya Minerals : 1,53,172 m3
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	35496
Lead length/trip, Km	0.19
Total VKT/Year	724156
Emission Kg/VKT	0.23
Total emission Kg/Year	19567
Uncontrolled emission rate g/s/m	6.25645
Controlled emission rate, PM10 g/s/m	0.625645
Controlled emission rate, PM2.5 g/s/m	0.43845

Table 7. 7 Incremental & Resultant GLC within cluster for $PM2_{.5}$

SL.No	Locaftion	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	A1 - Within Mine Lease area	36.1	4.32	40.42	60
2	A2 - Sridevi Mangalam	28.6	3.88	32.48	
3	A3 - Near Therani big lake	26.7	3.45	30.15	
4	A4 - Padalur West	29.4	3.02	32.42	
5	A5 - Alathur	24.7	2.59	27.29	
6	A6 - Pudhukkurichi	27.1	2.16	29.26	
7	A7 - Padalur	25.4	1.73	27.13	

Table 7. 8 Incremental & Resultant GLC within cluster for PM_{10}

SL.No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	A1 - Within Mine Lease area	75.5	5.94	81.44	100
2	A2 - Sridevi Mangalam	59.5	5.35	64.85	
3	A3 - Near Therani big lake	56.5	4.76	61.26	
4	A4 - Padalur West	59.1	4.16	63.26	
5	A5 - Alathur	51.3	3.57	54.87	
6	A6 - Pudhukkurichi	57.2	2.97	60.17	
7	A7 - Padalur	53.3	2.38	55.68	

The air quality modeling report for cluster 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 54.87 µg/m³ to 81.44 µg/m³

and for $PM_{2.5}$ are in the range of 27.13 µg/m³ to 40.42 µg/m³ which are within the statutory limits in each case.

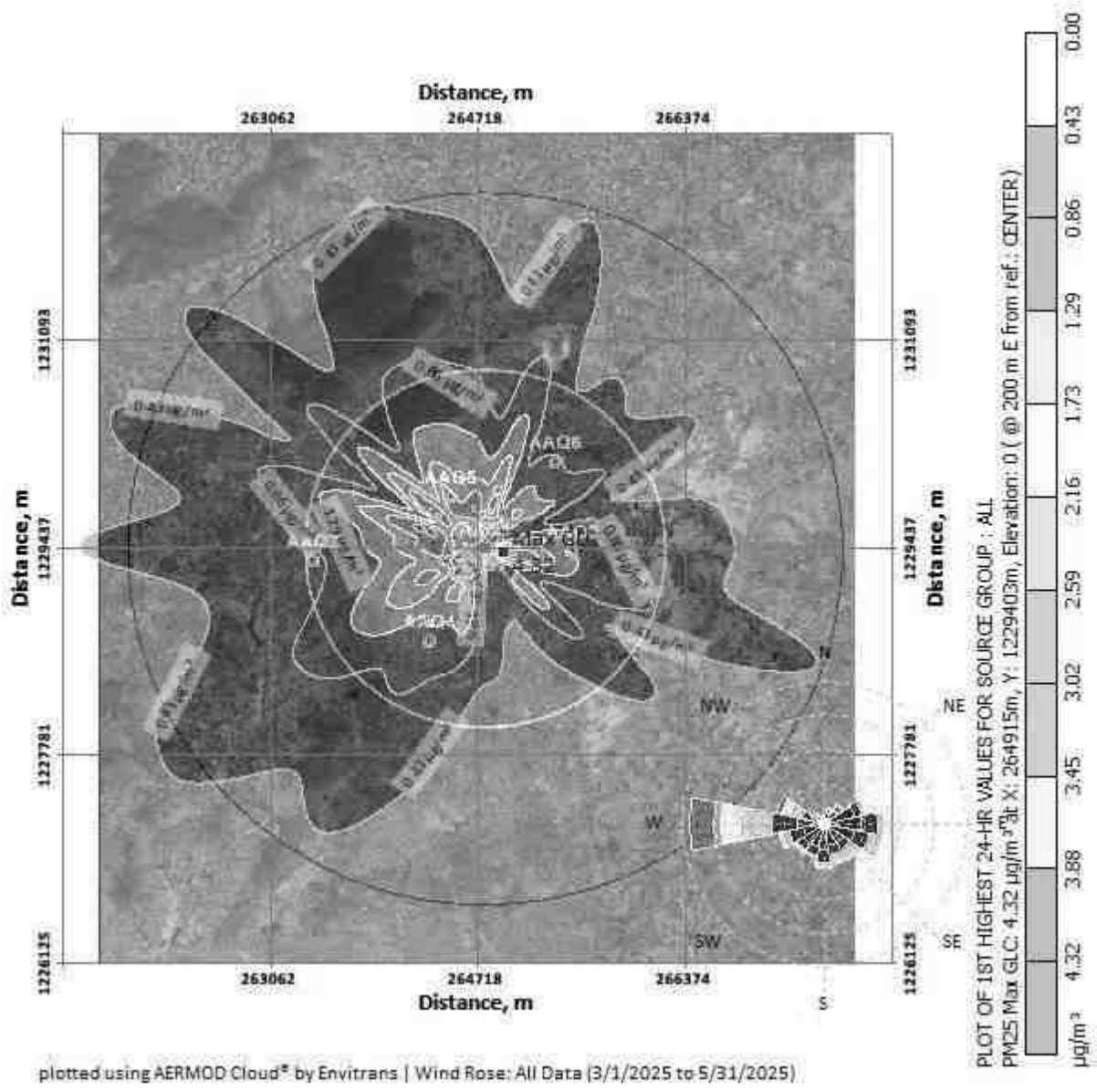


Figure 7.1 Cluster Isopleth of GLC Prediction for $PM_{2.5}$

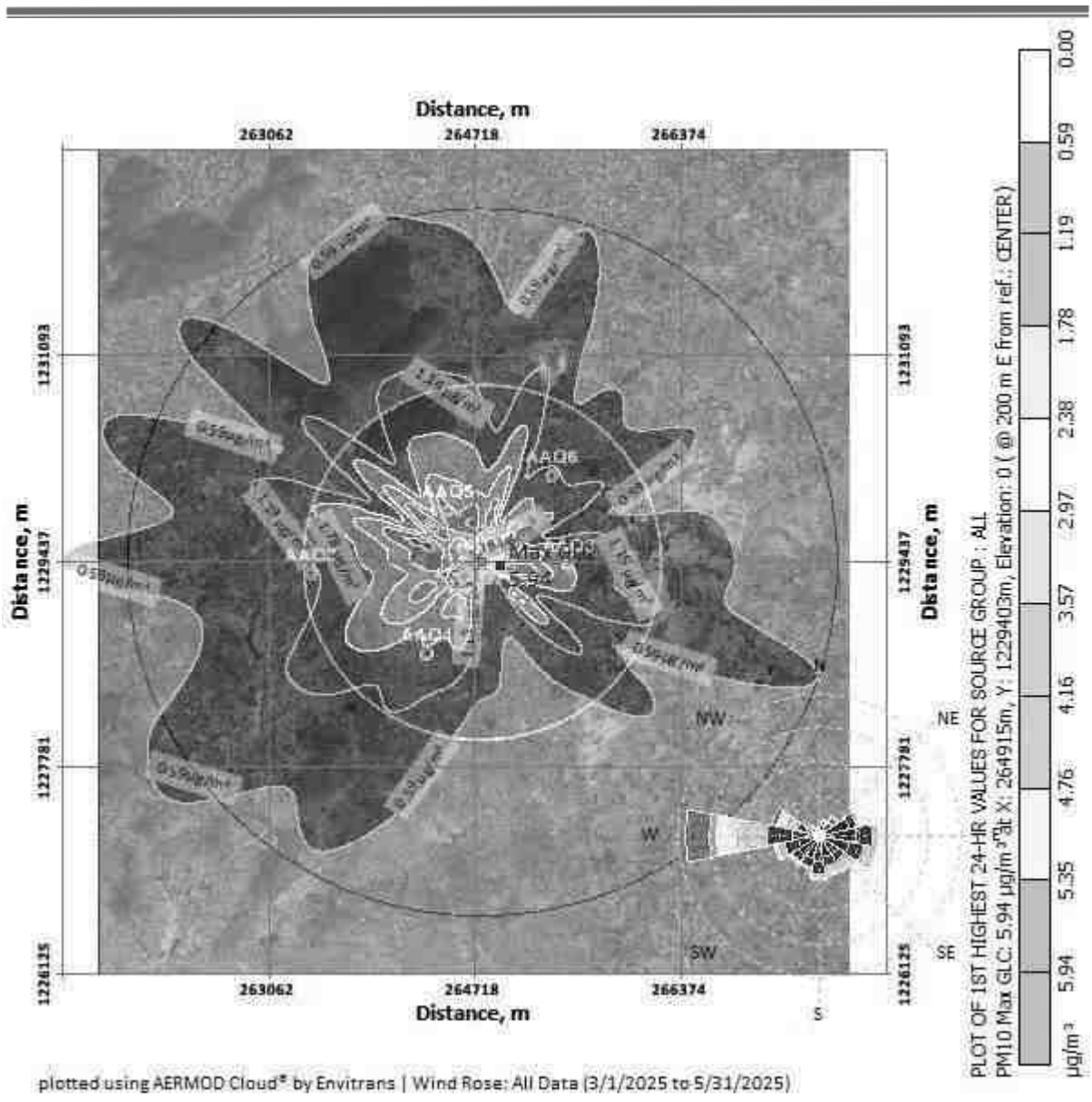


Figure 7.2 - Cluster Isopleth of GLC Prediction for PM_{10}

7.4.2 CUMULATIVE IMPACT ON SOCIO-ECONOMIC ENVIRONMENT

The mining operations in the 9 mines will provide direct employment opportunity and indirect employment opportunity for scores of people through allied opportunities in logistics, contract workers, trading, repairing works etc. Various mitigative measures suggested in this report will be properly implemented to ensure that no adverse impact is felt on the socio economic and ecological front in the area.

Table 7.9 SOCIO ECONOMIC BENEFITS FROM 9 MINES

	Quarry Name	Employment	Project Cost including EMP cost & CER cost	CER
P1	R.Vinoth	25	Rs. 290.42 Lakhs	Rs.5.0 Lakhs
P2	M/s.SR Mines & Minerals	29	Rs.1127.99 Lakhs	Rs.5.0 Lakhs
P3	R.Rajkumar	30	Rs.538.47 Lakhs	Rs.5.0 Lakhs
P4	M/s. Mars Mines	29	Rs.513.04 Lakhs	Rs.3.0 Lakhs
P5	M. Thangaraj	25	Rs.254.62 Lakhs	Rs.5.0 Lakhs
P6	P. Velmurugan	23	Rs.348.27 Lakhs	Rs.3.0 Lakhs
P7	P. Velmurugan	32	Rs.618.87 Lakhs	Rs.3.0 Lakhs
P8	L.Hariharan	33	Rs. 952.23 Lakhs	Rs.3.0 Lakhs
Total		**226**	**Rs.4643.91 Lakhs**	**Rs.32.0 Lakhs**

7.5 CLUSTER MINE CLOSURE PLAN

In the mine closure stage all necessary measures will be taken as per Act & Rules, there is no proposal for back filling, reclamation and rehabilitation in any of the proposals. The quarried pits after the end of life of mine will be properly fenced all around to prevent inherent entry of public and cattle and all the statutory requirements will be fulfilled. As already explained, in the post mining stage the rainwater harvested in the mined- out void shall be utilized for irrigation and domestic needs locally. The mine closure plan is provided in Figure 2.10.

7.6 SLOPE STABILITY PLAN

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

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

Site Specific Analysis

- The quarry lease area is hilly terrain which is covered by top soil formation. The rock type noticed in the lease area is Charnockite which contains mostly Quartz and Feldspar with some ferromagnesian.
- Since the formation is of homogeneous rock type probability of slope failure is low and can be avoided if proper measures are adopted.
- There will be a 10 m safety zone which will form a ridge which can also take care of the top section and as such no risk is envisaged on this front.

Mitigation Measures

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

8 PROJECT BENEFITS

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

The mining activity at proposed Rough Stone Quarry of Thiru.R.Vinoth will create direct employment opportunity for 25 local people. The PP has proposed CER amount of Rs. 5.0 Lakhs for surrounding schools development.

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9 ENVIRONMENTAL COST BENEFIT ANALYSIS

Environmental Cost Benefit Analysis is recommended during the scoping stage, if needed. In the TOR granted by SEIAA, Tamil Nadu, it is not recommended. Hence not applicable.

10 ENVIRONMENTAL MANAGEMENT PLAN

The Environmental Management plan is a site-specific plan. It is developed to ensure that the project is implemented in an environmentally sustainable manner, where all contractors and subcontractors, including consultants if any, 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 project's life cycle.

10.1 ENVIRONMENTAL POLICY

Thiru.R.Vinoth, shall carry out all the quarrying operations and activities in an environmentally responsible manner and to continually improve environmental performance.

The Proponent will:

- Abide by all laws, ordinances, rules, and regulations that are pertinent to its operations and activities.
- Allocate the resources required to guarantee that the environmental policy is carried out.
- Implement a programme to educate employees about environmental issues in general and their personal environmental responsibilities at work.
- Set up monitoring systems to alert as soon as there is a problem or a performance that is unexpected in relation to environmental protections.

10.2 ENVIRONMENTAL MANAGEMENT PLAN

The impacts due to this mining project are detailed in chapter 4. Mitigation measures at the source level and an overall Management Plan at the site level are elaborated

in this chapter. Details of EMP measures for implementation in the mine are given in the table 10.1.

Table 10.1 - ENVIRONMENTAL MANAGEMENT PLAN

Environmental Parameter	Mitigation Measures
Air	Wet drilling to suppress the dust emission from drill machine
	Regular water sprinkling on haulage road through fixed water sprinkler.
	1.5 m^3/day of water will be used for dust suppression.
	Avoiding blasting during high wind period, night times and temperature inversion periods.
	Regular grading of haul road to clear accumulation of loose material.
	It will be ensured that vehicles are properly maintained to comply with exhaust emission requirements
	Maintenance as per operator manual of the equipment and machinery in the mines to minimizing air pollution
	Ambient Air Quality Monitoring carried out in the project area and in surrounding villages to access the impact due to the mining activities and the efficacy of the adopted air pollution control measures.
	Afforestation for control of dust.
Water	
Surface water	There are two tank situated on south and southeastern side of the area and is 51m and 170m away from the area. The drainage map of the study area is given in Figure 3.17. There is no effluent discharge from this proposed Quarry. So no impact is anticipated. 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 for 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 56m (31m AGL & 25m BGL), the water table in the area is 64 m & 67 m below ground level, hence the project will not intersect the Gund water table during entire quarry period.
Water Consumption and Wastewater generation	The required water of 5.0 KLD will be procured from outside agencies initially and later rainwater harvested in the mine pit shall be used other than drinking purpose.
	Domestic wastewater generation of 0.6 KLD will be discharged in soak pit via septic tank.
	Conduct ground water and surface water monitoring for parameters specified by CPCB
Noise	The workers employed are provided with personal protective equipment (PPE) as such, 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 Buffer Zone (10 Meters) 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.
	Regular ambient noise level monitoring will be carried out in the project area and in surrounding villages to access the impact due to the mining activities and the efficacy of the adopted noise control measures.
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.
	ensure blast holes are adequately stemmed for the depth of the hole and stemmed with suitable angular material.

	Undertake noise or vibration monitoring.
Land Environment	There is no change will be in the land use pattern as mentioned in the approved mining plan a such mine pit, safety zone etc., At conceptual stage, the mining pits will be converted into Rain Water Harvesting. Remaining area will be converted into greenbelt area.
	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 waste anticipated in this rough stone Quarry. The entire quarried minerals will be utilized.
Biological Environment	During mining, three layer thick plantation will be carried out around the project periphery, on safety barrier zone, on top benches of quarried out area etc.,
	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 Greenbelt development programme.
	Year wise greenbelt development plan mentioned in Chapter 4

10.3 ADMINISTRATION AND TECHNICAL SETUP

The Environment Monitoring Cell discussed under Chapter 6 will ensure effective implementation of environment management plan and to ensure compliance of environmental statutory guidelines through Mine Management Level. The organizational chart for the same has been given below.

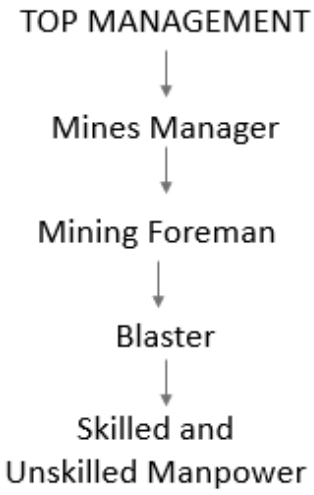


Figure 10.1 Organization Chart

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
- 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.

10.4 OCCUPATIONAL SAFETY & HEALTH MANAGEMENT

Occupational safety and health are very closely related to productivity and good employer-employee relationship. The main factors of occupational health impact in quarries are fugitive dust and noise. Safety of employees during quarrying operation and maintenance of mining equipment will be taken care as per Mines Act 1952 and Rule 29 of 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 shall be regularly monitored under an occupational surveillance program. Under this program, all the employees are subjected to a detail medical examination at the time of employment.

10.5 BUDGETARY PROVISION FOR ENVIRONMENTAL MANAGEMENT

Adequate budgetary provision has been made by the Company for execution of Environmental Management Plan. The below Table gives overall investment on the environmental safeguards and recurring expenditure for successful monitoring and implementation of control measures.

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	0.06	0.06
	Fixed Water Sprinkling Arrangements + Water sprinkling by own water tankers	5.00	0.25
	Muffle blasting – To control fly rocks during blasting	0.00	0.05
	Wet drilling procedure / latest eco-friendly drill machine with separate dust extractor unit	0.20	0.04
	No overloading of trucks/tippers/tractors	0.00	0.05
	Stone carrying trucks will be covered by tarpaulin	0.00	0.10
	Enforcing speed limits of 20 km/hr within ML area	0.06	0.01
	Regular monitoring of exhaust fumes as per RTO norms	0.00	0.05
	Regular sweeping and maintenance of approach roads for at least about 200 m from ML Area	0.00	0.24
	Installing wheel wash system near gate of quarry	0.20	0.05
Sub-Total (A)		**5.52**	**0.90**

Noise Environment	Provision for Portable blaster shed	0.30	0.02
Sub-Total (B)		**0.30**	**0.02**
Activities	**Mitigation Measure**	**Capital cost**	**Recurring Cost per Annum**
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 (230 Nos.)	0.23	0.05
Sub-Total (D)		**0.23**	**0.05**
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	0.25	0.03
	Health check up for workers will be provisioned	0.00	0.13
	First Aid facility Provision	0.00	0.01
	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	0.12	0.01
	Installation of CCTV cameras in the mines and mine entrance	0.15	0.02
Sub-Total (E)		**0.62**	**0.72**
Grand Total		**6.92**	**1.81**
Total EMP Cost for 5 years is 16.92 lakhs **i.e.,6.92 Lakhs of Capital Cost + 10.00 Lakhs of Recurring cost (For 5 Years)**			

10.6 CONCLUSION

Various aspects of mining activities were considered and related impacts were evaluated. Considering all the possible ways to mitigate the environmental concerns, Environmental Management Plan was prepared and fund has been allocated for the same. 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. Senior Management responsible for the project will conduct a review of EMP and its implementation to ensure that the EMP remains effective and appropriate. Thus, the proper steps will be taken to accomplish all the goals mentioned in the EMP and the project will bring the positive impact in the study area.

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11. SUMMARY AND CONCLUSION

11.1 INTRODUCTION

This EIA Report is prepared for Thiru.R.Vinoth Rough Stone Quarry over an extent of 1.20.00 Ha of Government land in S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State in compliance with ToR obtained vide ToR identification number TO25B0108TN5171977N, Dated 25.09.2025.

Although the individual lease area of this project is less than 5 hectares, the ten proposed quarries within a 500-meter radius, add up to more than 5 hectares i.e. 14.70.60 Ha. A map showing the existing and proposed quarry located within 500m radius is given in Figure 1.1.

This project proposed to produce 1,33,200 m^3 of Rough Stone for the period of first 5 years with ultimate depth up to 56m (31m AGL & 25m BGL).

PROJECT DESCRIPTION

Table 11.1 Salient Features of the Project

Description	Salient Feature
Name of the Project	Rough Stone Quarry of Thiru.R.Vinoth
Location of the Project	S.F. No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Latitude & Longitude	Latitude: 11°06'43.18"N to 11°06'48.42"N Longitude: 78°50'36.79"E to 78°50'40.18"E
Toposheet No.	58 I/16
ML Area	1.20.0Ha
Type of Land	It is Government land the applicant has obtained tender from the Government.

Geological Resource	Rough Stone – 4,37,910 m^3
Mineable Reserves	Rough Stone – 1,33,200 m^3
Proposed Production for Five years	Rough Stone -1,33,200 m^3
Life of the mine	5 years
Proposed depth of mining	56m (31m AGL & 25m BGL)
Method of Mining	Opencast mechanized mining involving drilling and blasting
Proposed bench height and width	Bench Height & Width – 5m.
Total Waste	There is no waste generation from this quarry.
Top Soil / Overburden	There is no waste / over burden generation from this quarry, entire mined out mineral will be directly transported to the needy customer.
Water Requirement & source	Total – 5.0 KLD. The required water will be procured from outside agencies initially. Later, water collected in the mine pit will be used to meet the needs.
Proposed Manpower Deployment	25 Nos
Total Project Cost	Rs. 290.42 Lakhs (including EMP & CER cost.)
Nearest Highway	The State Highway (SH-142) Perambalur – Thuraiyur – 12.3 Km – NW The National Highway (NH-38) Viluppuram – Trichy - 1.2 km - NW
Nearest Railway Station	Sillakkudi RS – 21.00 km (E)
Nearest Airport	Tiruchirapalli Airport – 40.52 km (SW)
Nearest Major Water bodies	**Core Zone** – NIL **Buffer Zone** • Tank - 51 m (S), • Tank - 170 m (SE), • Nattaramangalam Eri - 1.53 km (W), • Therani Lake - 3.19 km (E), • Puthukkurichi Eri - 3.19 km (NE), • Nanthai River - 3.8 km (S), • Maniyankurichy Eri - 6.50 km (W),

	• Stream - 7.17 km (SW) & • Uppar R - 8.84 km (SW)
Environmental sensitive areas, Protected areas as per Wildlife Protection Act, 1972 (Tiger reserve, Elephant reserve, Biospheres, National parks, Wildlife sanctuaries, community reserves and conservation reserves)	Trichy Zoological Park – 7.88 km (SW) Karaivetti Bird Sanctuary – 25.00 km (SE)
Reserved / Protected Forests	Naranamangalam R.F – 3.60 km (NW), Nedungur R.F. – 3.56 km (S), Maniyankurichi R.F – 4.29 km (SW), Velur R.F – 5.49 km (NW), Siruvachur R.F – 6.11 km (NW) & Maramareddi palaiyam R.F. – 7.40 km (SW)
Nearest Village	Padalur – 640 m – (S)
Seismic Zone	Zone II

11.2 DESCRIPTION OF THE ENVIRONMENT

The baseline monitoring study was carried out during March to May 2025 to assess the existing environmental scenario in the area. For the purpose of EIA studies, project area was considered as the core zone and area outside the project area up to 10km radius from the periphery of the project site was considered as buffer zone. Baseline Environmental data has been collected for: -

a) Land
b) Water
c) Air
d) Noise
e) Biological
f) Socio-economic status

11.2.1 LAND ENVIRONMENT

The existing land use pattern of the study area is tabulated below in table 11.2.

Table - 11.2 Land use Pattern of the study area

Sl.No.	LAND USE / LAND COVER	Area in Sq.Km	Area in Percentage
1	Built-up land	6.43	2.025
2	Crop land	201.63	63.49
3	Existing Quarry	3.18	1.001
4	Fallow land	13.92	4.384
5	Hill & Forest	31	9.763
6	Land with scrub	18.11	5.703
7	Land without scrub	24.16	7.608
8	Plantations	4.1	1.291
9	Salt affected land	3.24	1.020
10	Water bodies	11.77	3.707
	Total Area	**317.54**	**100.00**

Source: Survey of India Toposheet and Landsat Satellite Imagery

11.2.2 SOIL CHARACTERISTICS

Results of the soil samples show that the pH values were found to be 7.38 to 8.12 and Electrical Conductivity values were ranging between 190.2 – 295.6 µmhos/cm. Soils are generally Silty Clay. Organic matter values were ranging between 0.77 – 1.32 %. Total Nitrogen values were ranging between 146 – 405 mg/kg. Phosphorus values were ranging between 1.24 – 1.74 µg/g. Potassium values were ranging between 582 – 1030 mg/kg. Sodium values were ranging between 308 – 535 mg/kg. Total Sulphur values were observed to be BDL. The soil quality data for the 7samples collected and analyzed are provided in Table no – 3.13.

11.2.3 AMBIENT AIR QUALITY

The results of ambient air quality monitoring for the period (March to May 2025) are presented in Chapter 3. The ambient air quality data for PM10, PM2.5, SO2, NO2, CO

studied at6 locations as per prescribed guidelines/ methods. As per the monitoring data, the PM10 values were in the range of 41.0 – 75.5 µg/m3. $PM_{2.5}$ values were in the range of 19.3 – 36.1 µg/m3. SO_2 levels were ranging from 3.6 – 8.2 µg/m3. NO_2 levels were ranging from 6.2 – 12.2 µg/m3. While comparing with the NAAQ Norms laid by MoEF, all monitored values of PM10, PM2.5, SO2, NO2 & CO were found to be well within the prescribed standards. The CO values in the all locations found to be below detectable limit (DL – 1144 µg/m3).

11.2.4 WATER ENVIRONMENT

Surface Water

The pH varied from 7.52 to 7.94 while turbidity found within the standards (Optimal pH range for sustainable aquatic life is 6.5 to 8.5 pH). Total Dissolved Solids varied from 102 to 132 mg/l. Chloride varied between 39.8 mg/l and 42.8 mg/l. Nitrates varied from 0 to 2.14 mg/l, while sulphates varied from 15.2 to 16.9 mg/l.

Ground Water

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

As Per the data it has been observed that the pH value varies from 7.19 to 7.91, Chlorides Ranges From 75.6 - 510 mg/l, Sulphates value found to be between 48.9 - 355 mg/l, Fluoride Ranges low in lease area i.e. 0.15 – 0.63, Hardness varies from 175 – 454 mg/l, and Total dissolved solid 315 – 1282 mg/l. The ground water has been analyzed as per IS10500: 2012 and found to be suitable for drinking purpose. So the results of chemical and bacteriological analysis of water samples are classified under good class for drinking purpose with respect to total dissolved solids. Total

hardness of the samples ranged from soft to moderately hard waters and can be fairly used for drinking. Regular ground water monitoring is suggested as the quality of ground water may fluctuate with groundwater consumption and seasonal variations.

11.2.5 NOISE ENVIRONMENT

From the table it is observed that the day Equivalent Noise (Leq-d) level were ranging from 45.1 to 51.20 dB(A) and Night Equivalent Noise (Leq-n) level were ranging from 37.50 to 43.30 dB(A). Day and Night Equivalent Noise (Leq-n) level were ranging from 43.70 to 49.60 dB(A). While comparing with the MoEF Norm of 55 dB(A) for day time and 45 dB(A) for night time in Residential areas, the monitored ambient noise levels are within the limit values.

11.2.6 BIOLOGICAL ENVIRONMENT

There is no schedule I species of animals observed within study area as per Wildlife Protection Act 1972 as well as no species is in vulnerable, endangered or threatened category as per IUCN. There is no endangered red list species found in the study area. Hence this small operation over short period of time will not have any significant impact on the surrounding flora and fauna.

11.2.7 SOCIO-ECONOMIC ENVIRONMENT

An attempt has been made to assess the impact of the proposed mining project at Padalur (East) Village on Socioeconomic aspect of the study area. The various attributes that have been taken into account are population composition, employment generation, occupational shift, household income and consumption pattern. Implementation of the Proposed Mine Project will generate both direct and indirect employment. Besides, Mining operation will be legally valid and it will bring income to the state exchequer.

11.3 ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

The main scope of the EIA study is to quantify the cumulative impact in the study area due to cluster quarries and formulate the effective mitigation measures for each individual leases. A detailed account of the emission sources, emissions control equipment, background Air quality levels, Meteorological measurements, Dispersion model and all other aspects of pollution like effluent discharge, Dust generation etc., have been discussed in Chapter 4 of this report.

The project proponent will adopt all the necessary mitigation measures and management plan mentioned in this report and also comply the conditions stipulated in Environmental clearance and CTO of this project.

Anticipated Impacts & Mitigation Measures

Impact	Mitigation Measures
Land Environment	
❖ Destruction of natural landscapes ❖ Changes in soil characteristics ❖ Soil erosion and slope instability ❖ Problems to agricultural land and human habitations due to dust, and noise caused by movement of heavy vehicles.	❖ Rough stone does not produce any toxic effluents in the form of solids, liquids, or gases. ❖ At the end of life of mine, the excavated mine pit / void of 0.95.20 Ha. will act as artificial reservoir for collecting rain water and helps to meet out the demand or crises during drought season. ❖ After mine closure the greenbelt (0.22.80 Ha.) will be developed along the safety barrier and top benches and 0.02 ha are approach road and Infrastructure. ❖ The periphery of the mining lease area will be converted to a greenbelt to prevent Noise and sound propagation to the nearby lands. ❖ Entire mined out area will be properly fenced to prevent inadvertent entry of human and animals. ❖ Construction of garland drains all around the quarry pit and construction of settling traps at strategic location in lower elevations to prevent soil erosion due to surface runoff during rainfall and also to collect the storm water for various uses within the proposed area.
Water Environment	
❖ Impact due to Usage of Water in mines ❖ Generation of waste water from vehicle washing ❖ Domestic sewage	❖ There are two tank situated on south and southeastern side of the area and is 51m and 170m away from the area. ❖ The drainage map of the study area is given in Figure 3.16.

❖ Washouts from surface exposure or working areas ❖ Impact on Surface Water Resources ❖ Impact on Ground water ❖ Impact on Water Quality ❖	❖ There is no proposal for discharging of wastewater outside the project area. ❖ There is no proposal for a rough stone processing or workshop within the project area, so no effluent is anticipated in the mine. ❖ The required water (5.0 KLD) will be sourced initially from outside agencies. Later the rainwater collected in the mine pit sump will be used for this purpose. ❖ Regular water quality will be carried in nearby villages to ensure the water quality is not affected due to the quarrying activities. ❖ Domestic sewage from site office & urinals/latrines provided in project area will be discharged through septic tank followed by soak pit system. ❖ Only clear and settled water free from silt content will be used for dust suppression and greenbelt development. ❖ De-silting will be carried out before and immediately after the monsoon season and the settling tank and drains will be cleaned weekly, especially during monsoons. ❖ Two sumps with each capacity 2500 Cu.m will be proposed for harvesting rain water. The rain water stored in the pond will be utilized for plantation, dust suppression activities.
Air Environment	
❖ Generation of Fugitive Dust ❖ Dust will be generated mainly during excavation, loading &unloading activities.	❖ Using Wet drilling methods, Allowing drilling only with PPE, Carrying out blasting only during specified times, Avoiding blasting during

❖ Reduction in visibility due to dust plumes. ❖ Coating of vegetation leading to reduced photosynthesis. ❖ Inhibited growth, destroying of foliage, degradation of crops; ❖ Increase in health hazards due to inhalation of dust.	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. ❖ Speed restrictions will be imposed to avoid spillage of loaded materials upon the road and to reduce wear and tear of the road. ❖ Weekly inspections of the condition of the access road by competent person employed, and immediate action will be taken to address any potholes or damage to the road surface. ❖ Development of greenbelt is proposed in the safety zone of 10m barriers in the lease area. ❖ Personal Protective Equipment's will be provided to all workers
Noise & Vibration	
❖ The main noise generating source during mining operation and related activities are drilling, excavation, loading, unloading and transportation.	❖ Usage of sharp drill bits while drilling which will help in reducing noise; ❖ Secondary blasting will be totally avoided and hydraulic rock breaker are utilized for breaking boulders; ❖ Controlled blasting with proper spacing, burden, stemming and optimum charge/delay will reduce noise; ❖ The blasting will be carried out during favourable atmospheric condition and less human activity timings by using nonelectrical initiation system; ❖ Proper maintenance, oiling and greasing of machines will be done every week to reduce generation of noise;

	❖ Provision of sound insulated chambers for the workers working on machines (HEMM) producing higher levels of noise; ❖ Green Belt will be developed around the project areas and along the haul roads. The plantation minimizes propagation of noise; ❖ Personal Protective Equipment (PPE) like ear muffs/ear plugs will be provided to the operators of HEMM and persons working near HEMM and their use will be ensured though training and awareness. ❖ Regular medical check–up and proper training to personnel to create awareness about adverse noise level effects
Ground Vibration	
❖ The vibration due to blasting can cause damage to the nearby structures if appropriate technology and control measures are not adopted in the blasting operation. ❖ Fly rock is another possible damage causing outcome of blasting.	❖ Proper quantity of explosive, suitable stemming materials and appropriate delay system should be adopted to avoid overcharging and for safe blasting; ❖ Adequate safe distance from blasting should be maintained as per DGMS guidelines; ❖ Blasting shelter should be provided as per DGMS guidelines; ❖ Blasting operations shall be carried out only during day time; ❖ The charge per delay shall be minimized and preferably more number of delays will be used per blasts; ❖ During blasting, other activities in the immediate vicinity shall be temporarily stopped;

	❖ Drilling parameters like depth, diameter and spacing will be properly designed to give proper blast; ❖ Blasting will be carried out under the supervision of statuary persons as approved by DGMS. ❖ A well-defined SOP will be framed under the leadership of top management and the same will be followed for each blasting. ❖ Regular PPV monitoring will be carried out to ensure PPV limits i.e., 0.5 mm/s.
Biological Environment	
❖ Direct impacts include land clearance and excavation causing destruction of flora and fauna and loss of habitats. ❖ Indirect impacts include habitat degradation due to noise, dust, and human activity.	❖ Only some common herbs, shrubs and grass will be cleared. So, there will be no impact on the biodiversity. ❖ Green belt development with suitable species will enhance the biodiversity of the project area. ❖ The core zone or buffer zone does not encompass any threatened flora or fauna species.
Socio-Economic Environment	
❖ Health and safety of workers and the general public. ❖ Increase in traffic volumes and sizes of road vehicles. ❖ Economic issues, including the increase in employment opportunities.	❖ Around 25 local workers will get employment opportunities along with periodical training to generate local skills. ❖ Mine management will contribute for the upliftment of these villages by conducting regular medical camps, assistance in developing necessary infrastructure facilities like maintenance of schools, village roads, drinking water supply, etc.

Occupational Health & Safety	
❖ Exposure to Dust ❖ Noise and Vibration Exposure ❖ Physical Hazards ❖ Respiratory hazards due to Dust exposure	❖ Provision of rest shelters for mine workers with amenities like drinking water etc. ❖ All safety measures like use of safety appliances, such as dust masks, helmets, shoes, safety awareness programs, awards, posters, slogans related to safety etc. ❖ Training of employees for use of safety appliances and first aid in vocational training centre. ❖ Weekly maintenance and testing of all equipment as per manufacturers' guidelines. ❖ Pre placement and Yearly Medical Examination of all workers by a medical Officer. ❖ First Aid facility will be provided at the mine site. ❖ Close surveillance of the factors in working environment and work practices which may affect environment and worker's health by the mine's manager employed. ❖ Working of mine as per approved mining plan and environmental plans.

11.4 ANALYSIS OF ALTERNATIVES

There are no alternatives suggested as the proposed mining area has the following advantages:

- ❖ The mineral deposit occurs in a non-forest area.
- ❖ There is no habitation within the applied lease area; hence, no R & R issues exist.
- ❖ There is no river, stream, nallas and water bodies in the or passing through the applied mine lease areas.

- Mine connectivity through road and rail is good.
- The proposed mining operations do not intersect the ground water level. Hence, no impact on ground water environment.

11.5 ENVIRONMENTAL MONITORING PROGRAM

Environmental Monitoring program will be conducted for various environmental components as per conditions stipulated in Environmental Clearance Letter issued by SEIAA & Consent to Operate issued by TNPCB. Post project monitoring program is detailed in Chapter 6.

PP will supervise the overall environmental management plan of the project during operation. The capital cost of Rs. 6.92 Lakhs and the recurring cost of Rs. 10.00 Lakhs (5 years) have been allocated under the EMP budget which includes Environmental Monitoring Cost.

11.6 ADDITIONAL STUDIES

Risk Analysis & Disaster Management Plan

The methodology for the risk assessment has been based on the specific risk assessment guidance issued by the Directorate General of Mine Safety (DGMS). The DGMS risk assessment process is intended to identify existing and probable hazards in the work environment and all operations and assess the risk levels of those hazards in order to prioritize those that need immediate attention.

Further, mechanisms responsible for these hazards are identified and their control measures set to time table are recorded along with pinpointed responsibilities. In the unlikely event that a consequence has occurred, disaster management kicks in. This includes instituting procedures pertaining to a number of issues such as communication, rescue, and rehabilitation. These are addressed in the disaster management plan. Both, the RA and DMP, are living documents and need to be

updated whenever there are changes in operations, equipment, or procedures Assessment is all about preventing accidents and taking necessary steps to prevent it from happening.

The Disaster Management Plan (DMP) is a guide, giving general considerations, directions, and procedures for handling emergencies likely to arise from planned operations. The DMP has been prepared on the basis of the Risk Assessment and related findings covered in the report.

Terms of Reference with Public Hearing (ToR) for the project was issued vide ToR identification number TO25B0108TN5171977N, Dated 25.09.2025. Now, this Draft EIA / EMP Report is prepared for conducting Public Hearing as the projects falls under B1 Category.

Although the individual lease area of this project is less than 5 Ha, the ten proposed quarries including this proposal within the 500m radius works out to >5 Ha. A Cumulative impact study is conducted to determine the impact of the existing and proposed quarries located within 500m radius on the environment and are detailed in Section 7.4.

Cumulative Impact Study

The baseline monitoring conducted for this project reflects the cumulative impact of the existing and proposed quarries and impact of this proposed project on air environment do not exceed the permissible limits set by CPCB for air pollution.

The proposed project will bring 500 trips per day. The existing road can absorb this additional traffic due to this project.

These ten proposed projects will provide employment opportunities for 226 people.

11.7 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 25 people directly. Local people will be hired for unskilled labour.
- Through CSR, nearby schools, hospitals will be benefitted.

11.8 CONCLUSION

EIA study was performed as per the approved ToR. Various environmental attributes were studied relating with aspects of mining activities. The related impacts were identified and evaluated. Considering all the possible ways to mitigate the environmental concerns, Environmental Management Plan was prepared and accordingly fund was allocated. The EMP has been dynamic, flexible and subject to periodic review.

The project will increase the revenue of the State Govt. as well as it will help in the social upliftment of the local community. The green belt development programme will help in increasing the green cover in the area. Thus, the proposed project is not likely to affect the environment or adjacent ecosystem adversely.

The Mine Management will be responsible for the project review of EMP and its implementation to ensure that the EMP remains effective and appropriate. 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.

***

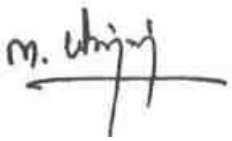
12 DISCLOSURE OF CONSULTANTS

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 Quarry over an extent of 1.20.00 Ha, while total cluster area of 14.70.60 Ha at Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.

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

EIA Coordinator Name: Manikandan Manickam



Signature & Date

Period of involvement: March to May 2025.

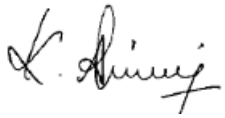
Contact information:

M/s Global Mining Solutions

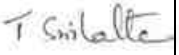
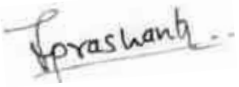
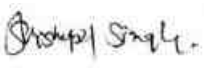
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Kottamettupatty, Omalur,

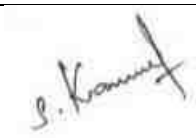
Salem, Tamil Nadu – 636 455

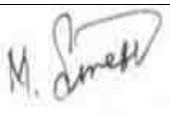
S. No.	Functional areas	Name of the expert/s	Involvement (period and task**)	Signature and Date
1	*AP*	*Dhanalakshmi Ramanathan*	*Assessment of existing air quality, Impact of the project on ambient air and suggested mitigation measures for air pollution.* *Period: March to May 2025*	
2	*WP*	*Abirami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

5	*EB*	*Saravanan S*	*Baseline data collection of related to ecology of the area.* *<u>Period: March to May 2025.</u>*	
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 to May 2025.</u>*	
7	*AQ*	*Srilatha Thiruveedhula*	*Air quality modeling utilizing the area source model. Predication of the ground level concentration of the dust. Suggesting suitable mitigation measures.* *<u>Period: March 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 to May 2025.</u>*	

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

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

TM-FAE:						
S. No	**Name of TM (FAE)**	**Functional Area**	**Approved FAE (to work under)**	**Period of involvement**	**Type of work**	**Signature**
1	Kamaraj S	LU	Srilatha Thiruveedhula	Period: March to May 2025	Associated with Experts in preparing Land use map based on satellite imagery, Land use classification and analysis, Impact prediction on surrounding land environment.	
		HG	Ashok Kumar Rajagopal	*Period: March to May 2025.*	Associated with Experts in studying hydrogeological pattern of study area, Studying ground water and the impact of the project on ground water	
2	B.J.Sampatkkumar	SE	Saraswathy K	*Period: March to May 2025.*	Assisted by the Expert in preparation of socio-economic report.	

		SC	Shishupal Singh	*Period: March to May 2025.*	Assisted by the Expert in interpretation of soil sampling and their quality involved in the project.	
3	Mownica Balaji	NV	Dhanalakshmi Ramanathan	*Period: March to May 2025.*	Associated with the expert team in suggesting control measures for noise and Ground Vibration.	
		AP	Dhanalakshmi Ramanathan		Associated with expert team in assessing existing air quality, impact of the project on ambient air and suggesting mitigation measures for air pollution	
4	Balasubramani G	NV	Dhanalakshmi Ramanathan	*Period: March to May 2025.*	Associated with the expert in selection of base line monitoring stations, Review of Noise quality results, Review of emission sources – drilling, blasting, excavation and transportation, Identification of impacts on environment, identification of remedial measures and input to EIA preparation	
		Geo	Valliappan Meyyappan		Associated with the expert in preparing Geological map.	
5	Suresh Mani	LU	Srilatha Thiruveedhula	*Period: March to May 2025.*	Associated with Experts in preparing Land use map based on satellite imagery, Land use classification and analysis, Impact	

					prediction on surrounding land environment.	
		HG	Ashok Kumar Rajagopal		Associated with Experts in studying hydro-geology pattern of study area, studying water and the impact of the project on ground water.	
6	Asan Ali S	NV	Srilatha Thiruveedhula	*Period: March to May 2025.*	Associated with the expert in monitoring and analysis of blast induced ground vibration in order to develop the site-specific equation for its prediction, monitoring of fly rocks & air blast (noise), preparation of SOP's for the safety blasting practice in the mines.	S. Asan ali
		Geo	Valliappan Meyyappan		Associated with the Qualified Person & Experts in preparing Geological map, assessing stability of quarry slope faces and dump, management plan for mine stability and after use of mining quarry and geological features of the area during mine plan preparation.	
7	Prabu M	Geo	Valliappan Meyyappan	*Period: March to May 2025.*	Associated with Experts and involved in Field Investigations, Mapping /Geo-referencing	M. Prabu
8	Abirami Kaliyaperumal	RH	S V Prashant	*Period: March to May 2025.*	Associated with experts and involved in the identification risk and hazard, suggesting safeguard measures.	K. Abirami

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

ANNEXURE-1

File No: 12468

Government of India

Ministry of Environment, Forest and Climate Change

(Issued by the State Environment Impact Assessment Authority(SEIAA), TAMIL NADU)

***

Dated **25/09/2025**

To,

Thiru. R. VINOTH
No.44/4, Subbramaniyar Kovil Street, Tittakudi, Cuddalore District - 606 106. TAMIL NADU.
vinovinothmba@gmail.com

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

Sir/Madam,

Sub: SEIAA-TN Proposed Rough Stone quarry lease over an extent of 1.20.00 Ha at S.F.No. 10/1 (BLOCK-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu by **Thiru. R. Vinoth -** under project category **–** "B1" and Schedule S.No.1(a) "Mining of Minerals Projects" of EIA Notification, 2006, as amended **– ToR issued along with Public Hearing -** preparation of EIA report – Regarding.

Ref: 1. Online proposal No. SIA/TN/MIN/544153/2025, Dated: 11/07/2025.
2. Your application submitted for Terms of Reference dated: 18.07.2025.
3. Minutes of the 609th SEAC meeting held on 26.08.2025
4. Minutes of the 888th SEIAA meeting held on 17.09.2025.

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO25B0108TN5171977N
(ii) File No.	12468
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vii) Name of Project	Rough Stone Quarry of Thiru.R.Vinoth
(viii) Name of Company/Organization	R VINOTH
(ix) Location of Project (District, State)	PERAMBALUR, TAMIL NADU
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions	no
(xii) Applicability of Specific Conditions	no

1.In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were

submitted to the SEIAA for an appraisal by the SEAC under the provision of EIA notification 2006 and its subsequent amendments.

2.The above-mentioned proposal has been considered by SEIAA in the meeting held on 17.09.2025. The minutes of the meeting and all the Application and documents submitted [viz. Form-1 Part A, Part B] are available on PARIVESH portal which can be accessed by scanning the QR Code above.

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

4.The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the SEAC hereby decided to issue the following Terms of Reference with public hearing for instant proposal of **Thiru. R. Vinoth** under the provisions of EIA Notification, 2006 and as amended thereof.

5.The Ministry/SEIAA-TN reserves the right to stipulate additional conditions, if found necessary.

6.The Terms of Reference with public hearing to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.

7.This issues with the approval of the Competent Authority.

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

Copy To

1. The Additional Chief Secretary to Government, Environment & Forests Department, Govt. of Tamil Nadu, Fort St. George, Chennai - 9
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
3. The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600 032.
4. Monitoring Cell, IA Division, Ministry of Environment, Forests &CC, Paryavaran Bhavan, CGO Complex, New Delhi 110003
5. The District Collector, Perambalur District.
6. Stock File.

Annexure 1

Specific Terms of Reference for (Mining Of Minerals)

1. Seac Conditions - Site Specific

S. No	Terms of Reference
1.1	**Major Condition:** **1. The PP shall furnish modified MP incorporating benches on all the sides along with EIA Report.** **Specific Condition:** 1. **A Cluster Management Committee (CMC) shall be constituted including all the mines in the cluster as Committee Members for the effective management of the mining operation in the cluster through systematic & scientific approach with appointment of statutory personnel, appropriate environmental monitoring, good maintenance of haul roads and village/panchayat roads, authorized blasting operation etc. The PP shall submit the following details in the form of an Affidavit during the EIA appraisal:** **(i) Copy of the agreement forming CMC.**

S. No	Terms of Reference
	(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 PP should submit an affidavit to follow the scientific formation of benches for 5m *5m properly during mining as per the approved mining plan. 3. The PP shall install the CCTV camera for the continuous surveillance of mining activity & furnish the photographic/videographic evidence along with the EIA report.

2. Seac Standard Conditions

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

S. No	Terms of Reference
	mine foreman, II/I Class mines manager appointed by the proponent. 10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site. 11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences. 12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines, 13. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines? 14. Quantity of minerals mined out. · Highest production achieved in any one year · Detail of approved depth of mining. · Actual depth of the mining achieved earlier. · Name of the person already mined in that leases area. · If EC and CTO already obtained, the copy of the same shall be submitted. · Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches. 15. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone). 16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc., 17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan. 18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same. 19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment. 20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds, etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. 21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study. 22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind. 23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.

S. No	Terms of Reference
	24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given. 25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided. 26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered. 27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided. 28. Impact on local transport infrastructure due to the Project should be indicated. 29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity. 30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific. 31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible. 32. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner. 33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner 34. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period. 35. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period. 36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed. 37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations. 38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation. 39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

S. No	Terms of Reference
	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 Standard Conditions :

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

S. No	Terms of Reference
	Forests 15. The project proponent shall detailed study on impact of mining on Reserve forests and free ranging wildlife. 16. The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna. 17. The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection. 18. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site. **Water Environment** 19. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the entire mine lease period. 20. Erosion Control measures. 21. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas. 22. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir. 23. The project proponent shall study and furnish the details on potential fragmentation impact on natural Environment, by the activities. 24. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts. 25. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components. 26. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites. 27. The EIA shall include the impact of mining activity on the following: a) Hydrothermal/Geothermal effect due to destruction in the Environment. b) Bio-geochemical processes and its foot prints including Environmental stress. c) Sediment geochemistry in the surface streams. **Energy** 28. The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilise the Energy shall be furnished. **Climate Change** 29. The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities. 30. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock, soil health and physical, chemical & biological soil features. 31. Impact of mining on pollution leading to GHGs emissions and the impact of the same on the local livelihood. **Mine Closure Plan** 32. Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued. **EMP** 33. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued and the scope

S. No	Terms of Reference
	for achieving SDGs. 34. The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan. **Risk Assessment** 35. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining. **Disaster Management Plan** 36. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities covering the entire mine lease period as per precise area communication order issued. **Others** 37. The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc. 38. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan. 39. The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the Environment. The ecological risks and impacts of plastic & microplastics on aquatic Environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.

4. Seiaa Specific Conditions :

S. No	Terms of Reference
4.1	The authority noted that the subject was placed in the **609th** SEAC meeting held on **26.08.2025**. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant **Terms of Reference (ToR) along with Public Hearing for the quantity of 133200 m^3 of Rough Stone up to the depth of 56m (31m AGL & 25m BGL)** as per the approved mining plan, under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions & the SEIAA Standard conditions.

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

S. No	Terms of Reference
1.3	All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee
1.4	All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the areashould be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone)
1.5	Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics
1.6	Details about the land proposed for mining activities should be givenwith information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority
1.7	It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large,may also be detailed in the EIA Report
1.8	Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided
1.9	The study rea will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period
1.10	Land use of the study rea delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given
1.11	Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given
1.12	A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the State Expert Appraisal Committees

S. No	Terms of Reference
1.13	Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished
1.14	Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated
1.15	The vegetation in the RF / PF areas in the study area, with necessary details, should be given
1.16	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted
1.17	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlifeand copy furnished
1.18	A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost
1.19	Proximity to Areas declared as Critically Polluted or the Project areas likely to come under the Aravali Range, (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered
1.20	Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority)
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

S. No	Terms of Reference
1.22	One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given
1.23	Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map
1.24	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated
1.25	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided
1.26	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided
1.27	Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided
1.28	Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from 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

S. No	Terms of Reference
	and native species and the species which are tolerant to pollution
1.32	Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines
1.33	Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report
1.34	Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report
1.35	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed
1.36	Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations
1.37	Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation
1.38	Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project
1.39	Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project
1.40	Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given
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

S. No	Terms of Reference
	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

PARIVESH
CPC GREEN
e-Compliance
e-Payments
e-Processing

STANDARD TERMS OF REFERENCE

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

proposed safeguard measures in each case should also be provided.

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

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

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

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

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

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

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

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

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

the Standing Committee of National Board of Wildlife and copy furnished.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

34) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.

35) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

36) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.

37) Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.

38) Detailed Environmental Management Plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the

proposed Project.

39) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.

40) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

41) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.

42) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.

43) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.

44) Besides the above, the below mentioned general points are also to be followed: -

a) Executive Summary of the EIA/EMP Report

b) All documents to be properly referenced with index and continuous page numbering.

c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.

d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.

e) Where the documents provided are in a language other than English, an English translation should be provided.

f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.

g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.

h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the ToR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.

i) As per the circular no. J-11011/618/2010-IA. II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the Environment Clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.

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

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

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

1. Project name and location (Village, District, State, Industrial Estate (if applicable).
2. Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
3. Measures for mitigating the impact on the environment and mode of discharge or disposal.
4. Capital cost of the project, estimated time of completion.
5. The proponent shall furnish the contour map of the water table detailing the number of wells located around the site and impacts on the wells due to mining activity.
6. A detailed study of the lithology of the mining lease area shall be furnished.
7. Details of village map, "A" register and FMB sketch shall be furnished.
8. Detailed mining closure plan for the proposed project approved by the Geology of Mining department shall be shall be submitted along with EIA report.
9. Obtain a letter /certificate from the Assistant Director of Geology and Mining standing that there is no other Minerals/resources like sand in the quarrying area within the approved depth of mining and below depth of mining and the same shall be furnished in the EIA report.
10. EIA report should strictly follow the Environmental Impact Assessment Guidance Manual for Mining of Minerals published February 2010.
11. Detail plan on rehabilitation and reclamation carried out for the stabilization and restoration of the mined areas.
12. The EIA study report shall include the surrounding mining activity, if any.
13. Modeling study for Air, Water and noise shall be carried out in this field and incremental

increase in the above study shall be substantiated with mitigation measures.

14. A study on the geological resources available shall be carried out and reported.
15. A specific study on agriculture & livelihood shall be carried out and reported.
16. Impact of soil erosion, soil physical chemical and biological property changes may be assumed.
17. Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./ private land, status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10km other industries, forest, eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)
18. Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population
19. Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
20. Likely impact of the project on air, water, land, flora-fauna and nearby population
21. Emergency preparedness plan in case of natural or in plant emergencies
22. Issues raised during public hearing (if applicable) and response given
23. CER plan with proposed expenditure.
24. Occupational Health Measures
25. Post project monitoring plan
26. The project proponent shall carry out detailed hydro geological study through intuitions/NABET Accredited agencies.
27. A detailed report on the green belt development already undertaken is to be furnished and also submit the proposal for green belt activities.
28. The proponent shall propose the suitable control measure to control the fugitive emissions during the operations of the mines.
29. A specific study should include impact on flora & fauna, disturbance to migratory pattern of animals.
30. Reserve funds should be earmarked for proper closure plan.
31. A detailed plan on plastic waste management shall be furnished. Further, the proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throw away plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986. In this connection, the project proponent has to furnish the action plan.

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

a. A note confirming compliance of the TOR, with cross referencing of the relevant sections / pages of the EIA report should be provided.

b. All documents may be properly referenced with index, page numbers and continuous page numbering.

c. Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.

d. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF& CC vide O.M. No. J-11013/41/2006-IA.II (I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.

e. The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India (QCI)/National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. In this regard circular no F. No.J -11013/77/2004-IA-II(I) dated 2nd December, 2009, 18th March 2010, 28th May 2010, 28th June 2010, 31st December 2010 & 30th September 2011 posted on the Ministry's website http://www.moef.nic.in/ may be referred.

- After preparing the EIA (as per the generic structure prescribed in Appendix-III of the EIA Notification, 2006) covering the above mentioned points, the proponent 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.

Signed by
Rahul Nadh Anikkadu Reghunadhan
Date: 25-09-2025 18:57:56
Reason: Verified and signed

ANNEXURE-2

ANNEXURE

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

Rc.No.130/G&M/2025, Dated:02.05.2025

Department of Geology & Mining,
Collectorate,
Perambalur – 621212.

PRECISE AREA COMMUNICATION LETTER

Sub : Mines and Minerals - Perambalur District - Rough Stone e-Tender cum auction conducted on 27.03.2025 under Tender ID:2025_CGAM_525779_1 – Thiru.Vinoth R(BID ID: 1274914) quoted highest Bid amount (H1) For the quarry listed in Serial Number 30 – Declared as H1 bidder - H1 Bid Amount remitted – Solvency Certificate submitted – Precise Area Communicated – Reg.

Ref:

1. G.O.(Ms). No.21, Natural Resources (MMC.1) Department. Dated 31.07.2024
2. Perambalur District Gazette (Extraordinary) Notification No.1, dated : 18.02.2025.
3. E-Tender published under Tender ID:2025_CGAM_525779_1 in Tamil Nadu Government e-tender portal.
4. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.130/G&M/2025, dated : 28.03.2025 (to remit 10% of highest bid amount)
5. Remittance challan No.20250329001458, dated.29.03.2025 submitted by Thiru.Vinoth R(BID ID: 1274914)
6. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.127/G&M/2025, dated 01.04.2025 (to remit remaining 90% of the bid amount)
7. Remittance challan No. 20250430011159, dated.30.04.2025 submitted by Thiru.Vinoth R(BID ID: 1274914)

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I invite your attention to the references cited above

Notice Inviting Tender (NIT) was published vide Perambalur District Gazette Extraordinary Notification No.1, dated.18.02.2025, inviting applications for grant of rough stone quarry leases in Government poramboke lands in Perambalur District through e-Tender cum Auction. Online tender was published in Tamil Nadu Government e-tender portal (https://tntenders.gov.in/) under Tender ID: 2025_CGAM_525779_1 and e-Auction was conducted 27.03.2025 for bidders whos' bids were qualified technically and financially.

After Financial Evaluation, Thiru.Vinoth R(BID ID: 1274914) was declared as H1 bidder for the quarry listed in Serial Number 30 of the Gazette as he quoted highest bid amountof Rs. 2,14,00,000/- for the said quarry. The H1 bidder was directed to remit 10% of the Highest bid amount vide notice in the reference 4th cited and accordingly, the H1 bidder has remitted 10% of the bid amount to a sum of Rs.21,40,000/- and submitted remittance challan No. 20250329001458, dated 29.03.2025 to this office.

R.vinoth

Subsequently, Thiru.Vinoth R(BID ID: 1274914) was directed to remit the remaining 90% of Highest bid amount after adjusting the Bid Security already paid by him within one month to Government head of account and to submit original remittance challan to this office. Accordingly, Thiru.Vinoth R(BID ID: 1274914) has remitted Rs.1,86,61,399/- after deducting Rs.5,98,601/-(the Bid Security amount already paid by the bidder) in Government account within one month and submitted remittance challans to this office.

The details of H1 Bidder for the quarry listed in Serial No.30 of the District Gazette, H1 Bid Amount offered and remittance of Bid amount by bidder are as follows.

1.	**Quarry Detail**	
	Serial No. in District Gazette No.01, dated 18.02.2025.	30
	Taluk	Alathur
	Village	Padalur (East)
	S.F.No.	10/1 (Block 8)
	Extent	1.20.0 Hectares
	Lease Period	5 Years
2.	**H1 Bidder, Bid Amount Remittance**	
	H1 Bidder	Thiru.Vinoth R (BID ID: 1274914) 44/4 Subbramaniyar kovil street, Tittakudi Cuddalore District-606 106.
	H1 Bid Amount	Rs.2,14,00,000/-
	10% of H1 bid amount remitted	Rs.21,40,000/- (Challan No. 20250329001458, dated 29.03.2025)
	Bid Security (EMD) already remitted	Rs.5,98,601/-
	90% of bid amount paid after adjusting Bid Security already paid	Rs.1,86,61,399/- (Challan No. 20250430011159, dated.30.04.2025)

The H1 Bidder, Thiru.Vinoth R(BID ID: 1274914) has remitted entire H1 Bid Amount of Rs.2,14,00,000/- in Government account within one month as per sub- rule 16 of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959

Therefore, in exercise of the powers conferred under sub rule 17(a) of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959, an extent of 1.20.0 hectares of Government land in S.F.No.10/1 Block 8 of Padalur (East) Village, Alathur Taluk, Perambalur District as notified in Serial Number.30 of the Perambalur District Gazette (Extraordinary) Notification No.1, dated: 18.02.2025 is hereby fixed as Precise Area for grant of permission to quarry Rough stone for a period of 5 years to Thiru.Vinoth R(BID ID: 1274914), subject to the following conditions:

R.Vinoth

1. 10 meters safety distance should be left out for the adjacent government lands.
2. The applicant shall not make any hindrance to the adjacent lands and public.
3. The applicant should submit approved Mining Plan, Environment Clearance and Consent to Establish (CTE) & Consent to Operate (CTO) issued by competent authorities for grant of quarrying lease in the subject area.

The applicant Thiru.Vinoth R(BID ID: 1274914) is directed to submit draft Mining Plan for the above area within 90 days for the approval of the Assistant Director, Geology and Mining, Perambalur and to submit Environment Clearance obtained from SEIAA, Tamil Nadu and CTE & CTO issued by the Tamil Nadu Pollution Control Board subsequently for further process.

Encl : Map Showing the Proposed lease area

02/05/25

Assistant Director,
Geology and Mining,
Perambalur.

To
Thiru.Vinoth R
(BID ID: 1274914)
44/4 Subbramaniyar Kovil street,
Tittakudi
Cuddalore District-606 106.

Copy to:

21/5/25

1. The Chairman,
   SEIAA Level Environment Impact Assessment Authority,
   PanagalMaligai, Saidapet,
   Chennai.
2. The Commissioner of Geology and Mining, Chennai-32.

R.vinoth

ANNEXURE-3

From

Thiru D.Bernard, M.Sc.,
Assistant Director,
Geology and Mining,
Perambalur.

To

Thiru.Vinoth R
44/4 Subbramaniyar Kovil street,
Tittakudi
Cuddalore District-606 106.

Rc.No.130/G&M/2025, Dated: 30 .05.2025

Sir,

Sub: Mines and Minerals - Perambalur District – Rough Stone - e-Tender cum auction conducted for Roughstone quarries in Government lands - Thiru. R .Vinoth quoted highest Bid amount (H1) For the quarry in S.F.No.10/1 (Block 8), OAE of 1.20.0 hectares in Padalur(East) Village, Alathur Taluk – Declared as H1 bidder – H1 Bid Amount remitted – Precise Area Communicated – Draft Mining Plan submitted for approval – Approved - Reg.

Ref:
1. G.O.(Ms). No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024
2. Perambalur District Gazette(Extraordinary) Notification No.1, dated:18.02.2025.
3. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.130/G&M/2025, dated: 28.03.2025
4. The Assistant Director, Geology and Mining, Perambalur Precise Area Communication letter Rc.No.130/G&M/2025, dated 02.05.2025.
5. Thiru. R .Vinoth, letter dated.05.05.2025.

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Tender cum Auction for grant of Roughstone quarries in Government lands notified in Perambalur District Gazette Extraordinary Notification No.1, dated.18.02.2025 was conducted through online as per Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959.

Thiru. R .Vinoth was declared as Highest Bidder for the quarry in S.F.No. 10/1 (Block 8) to an extent of 1.20.0 hectares in Padalur(East) Village, Alathur Taluk, Perambalur District and the lease period proposed for the subject quarry is 5 years. The Highest Bidder, Thiru. R.Vinoth remitted entire highest bid amount and other statutory documents in time in accordance with rules and in the reference, 4th cited, precise area was communicated to him with a request to submit Mining Plan for the approval of the Assistant Director, Geology and Mining, Perambalur District and Environmental Clearance obtained from SEIAA for further process.

R.vinoth

Accordingly, in the reference 5th cited, the successful bidder has submitted 3 copies of Draft Mining Plan prepared by Qualified Person for the above area. The draft Mining Plan submitted by Thiru.R.Vinoth, has been scrutinized as per extant rules and guide lines / instructions issued by the Commissioner of Geology and Mining, Chennai in the letter Rc.No.3868/LC/2012 dated. 19.11.2012. The following observations were made in scrutiny.

a. 10-meter safety distance is earmarked for the adjoining Government lands.

b. The Geological reserve of Roughstone in the subject area has been assessed as 1204252 metric tonnes.

c. The mineable reserve has been computed as 3,66,300 metric tonnes of Roughstone up to a depth of 56m (31m AGL + 25m BGL)

d. The lease period of the subject Roughstone quarry is 5 years and it has been proposed for the production of 3,66,300 metric tonnes of Roughstone up to a depth of 56m (31m AGL + 25m BGL) in the mining plan in five years.

e. The depth of water table in the subject area is reported as 67m BGL and workable depth has been proposed to 56m (31m AGL + 25m BGL) in the mining plan. Hence, the quarrying operation will not affect the water table in the area.

f. Drilling and blasting using jack hammers and shot hole blasting are proposed. Small dia, 25mm slurry explosives are proposed to be used for shattering and heaving effect for removal and winning of Roughstone. No deep hole drilling or primary blasting is proposed.

g. It has been proposed to adopt controlled blasting measures for minimizing ground vibration and fly rocks.

h. Machineries like Tractor mounted compressor attached with Jack hammers, excavators with rock breaker attachment are proposed for quarrying operation. Tippers of 5/10 Tons capacity are proposed for transportation.

4) The Mining Plan is prepared in accordance with the guidelines / instructions issued and tallies with the field conditions. The special conditions imposed in the precise area communication letter have been incorporated in the Mining Plan. Therefore, the draft mining plan is hereby approved subject to the following conditions.

i. That the Mining Plan is approved without prejudice to any other laws applicable to the quarry area from time to ti0me whether made by the Central Government, State Government or any other authority.

ii. That the approval of the Mining Plan does not in any way imply the approval of the Government in terms of any other provisions of the Mines and

R.Vinoth

Minerals (Regulations and Development) Amendment Act 2015 or Mineral (other than Atomic and Hydrocarbon Energy Minerals) concession Rules 2016, or Tamil Nadu Minor Mineral Concession Rules, 1959 or any other laws including Forest (Conservation) Act 1980, Forest Conservation Rule, 1981, Environment Protection Act, 1980 and the rules made there under.

iii. That the Mining plan is approved without prejudice to any other order or directions from any court of competent jurisdiction.

iv. That the approval of Mining Plan does not confer any rights for the renewal of quarry lease.

v. The approval is valid up to the subsistence of the lease period only.

Encl: 2copies of approved Mining Plan.

Assistant Director,
Geology and Mining,
Perambalur.

Copy to:

1. The Chairman,
   SEIAA Level Environment Impact Assessment Authority,
   Panagal Maligai,
   Saidapet,
   Chennai.

2. The Commissioner of Geology and Mining, Chennai-32.

APPROVAL MINING PLAN

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

MINING PLAN FOR PADALUR (EAST) ROUGH STONE QUARRY

(Prepared Under Rule 8, 41 & 42 of Tamil Nadu Minor Mineral Concession Rules, 1959)

LOCATION OF THE QUARRY LEASE APPLIED AREA

STATE	:	TAMIL NADU
DISTRICT	:	PERAMBALUR
TALUK	:	ALATHUR
VILLAGE	:	PADALUR (EAST)
S.F.NO	:	10/1 (BLOCK-8)
EXTENT	:	1.20.0Ha

FOR

APPLICANT

Thiru.R.Vinoth,
No.44/4, Subbramaniyar Kovil Street,
Tittakudi,
Cuddalore District - 606 106.

ECO-FRIENDLY



SUSTAINABILITY



SAFETY



PREPARED BY

C.Natarajan, M.Sc.,M.Phil.,
Qualified Person
M/s. GLOBAL MINING SOLUTIONS
(NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT)
PLOT NO. 6, SF NO. 13/2, A2, VS CITY, RC CHETTYPATTY,
KOTTAMETTUPATTY,
OMALUR, SALEM, TAMIL NADU – 636 455
NABET ACCREDITATION NO – NABET/EIA/2326/IA 0110
CONTACT: 97502 23535, 94446 54520
Email: infoglobalmining@gmail.com, globalminingsolutionssalem@gmail.com



(PPE)

R.Vinoth,
No.44/4, Subbramaniyar Kovil Street,
Tittakudi,
Cuddalore District - 606 106.

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

CONSENT LETTER FROM THE APPLICANT

The Mining Plan in respect of **Rough Stone** quarry over an extent of 1.20.0Hectares of Government land in S.F.No.10/1(Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State has been prepared by

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

I request to the Assistant Director, Department of Geology and Mining, Perambalur 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

R.Vinoth

Place: Cuddalore
Date: 03.05.2025

R.Vinoth

R.Vinoth,
No.44/4, Subbramaniyar Kovil Street,
Tittakudi,
Cuddalore District - 606 106.

DECLARATION

The Mining Plan in respect of **Rough Stone** quarry over an extent of 1.20.0Hectares of Government land in S.F.No.10/1(Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur 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

R.Vinoth

R.Vinoth

Place: Cuddalore
Date: 03.05.2025

R.Vinoth

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

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

CERTIFICATE

This is to certify that, the provisions of Minor Minerals Conservation and Development Rules, 2010 (MMCDR) have been observed in the Mining Plan for the grant of **Rough Stone** quarry lease over an extent of 1.20.0 Hectares of Government land in S.F.No.10/1(Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State applied by Thiru.R.Vinoth, 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: 05.05.2025

R.vinoth

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

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

CERTIFICATE

Certified that, in preparation of Mining Plan for **Rough Stone** quarry over an extent of 1.20.0Hectares of Government land in S.F.No.10/1(Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State for Thiru.R.Vinoth, 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: 05.05.2025

R.vinoth

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

CERTIFICATE

Certified that I, C.Natarajan, M/s. GLOBAL MINING SOLUTIONS (NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT) Plot No. 6, SF No. 13/2, A2, Vs City, RC Chettypatty, Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455 NABET ACCREDITATION NO – NABET/EIA/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 quarry lease applied for an extent of 1.20.0Ha of (Government land) in S.F.No.10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, by Thiru.R.Vinoth, 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: 05.05.2025

R.vinoth

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ANNEXURE

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LIST OF PLATES

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4.0	Topo sketch of Quarry lease applied area for 10Km Radius	I-C
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7.0	Topography, Geological plan and sections	III
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9.0	Year wise Development and Production Plan & Sections	V
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MINING PLAN FOR MINOR MINERALS

ROUGH STONE

Over an extent of 1.20.0hectares of Government land in S.F.No.10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.

(PREPARED UNDER RULE 8, 41 and 42 OF TNMMCR 1959)

1.0 Introduction and Executive Summary;

1. The present Mining Plan is prepared for Thiru.R.Vinoth, No.44/4, Subbramaniyar Kovil Street, Tittakudi, Cuddalore District - 606 106.
2. The application was processed by the Assistant Director, Department of Geology and Mining, Perambalur, and passed an order vide Rc.No.130/G&M/2025, dated 02.05.2025. 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 over an extent of 1.20.0hectares of Government lands in S.F.No.10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District of Tamil Nadu State for a period of five years.
3. Accordingly, Mining Plan is prepared under the provisions of rule 8, 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) 10 meter safety distance should be left out for the adjacent government lands.
   b) The applicant shall not make any hindrance to the adjacent lands and public.
   c) The applicant should submit approved mining plan, environment clearance and consent to establish (CTE) & consent to operate (CTO) issued by competent authorities for grant of quarrying lease in the subject area.
4. Geological Resources is estimated at 12,04,252.50Ts of Rough stone and 14,580Ts of Topsoil and Mineable Reserves is estimatcd at 3,66,300Ts of Rough Stone and 9,638Ts of Topsoil and after leaving necessary safety distance from the lease boundary as indicated in the precise area letter and relevant mining laws in force.

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5. The production Schedule is proposed production of 3,66,300Ts of Rough Stone and 9,638Ts of Topsoil 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 engage 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 3.1Km radius.
   - ii) There is no interstate boundary around 10kms radius.
   - iii) There is no wild life animal sanctuary within 10Kms radius from the project site area under the Wildlife (Protection) Act, 1972.

   Therefore the project seeks clearance only from State Level Environmental Impact Assessment Authority (SEIAA).
9. Environmental measures to be adopted shall be,
   - i) Dust Control at source while drilling and blasting,
   - ii) Dust suppression at loading point and transport haul roads,
   - iii) Noise Control in blasting, control of fly rock missiles and vibration by doing peak particle velocity with in standard as prescribed by the DGMS and MOEF.
   - iv) Unnecessary land degradation should be avoided or damaged land should be reclaimed or rehabilitated.
   - v) Avoid uneven rat hole mining and follow scientific and systematic mining by 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.

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EXECUTIVE SUMMARY:

a.	Name of the Village Panchayat	:	Padalur (East)
b.	Name of the Panchayat Union	:	Alathur
c.	The proposed total Minable Reserves	:	3,66,300Ts of Rough Stone 9,638Ts of Topsoil
d.	The proposed quantity of reserves (level of production) for Five years to be mined is (Recoverable reserves)	:	3,66,300Ts of Rough Stone 9,638Ts of Topsoil
e.	Total extent of the area	:	1.20.0Ha
f.	Proposed Period of mining	:	Five Years
g.	Existing depth	:	21m (above ground level).
h.	Proposed Depth of mining	:	56m (31m above ground level and 25m 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 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.2,17,00,000/- Rs. 51,50,000/- Rs. 5,00,000/- Total Project cost(A+B+C)=**Rs. 2,73,50,000/**

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

Corners	Co- ordinates		Distance between the corners		
	Latitude	Longitude			
1	11° 06' 48.42"N	78° 50' 37.58"E	1-2	=	80.0m
2	11° 06' 48.00"N	78° 50' 40.18"E	2-3	=	150.0m
3	11° 06' 43.18"N	78° 50' 39.39"E	3-4	=	80.0m
4	11° 06' 43.60"N	78° 50' 36.79"E	4-1	=	150.0m

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2.0 General Information:

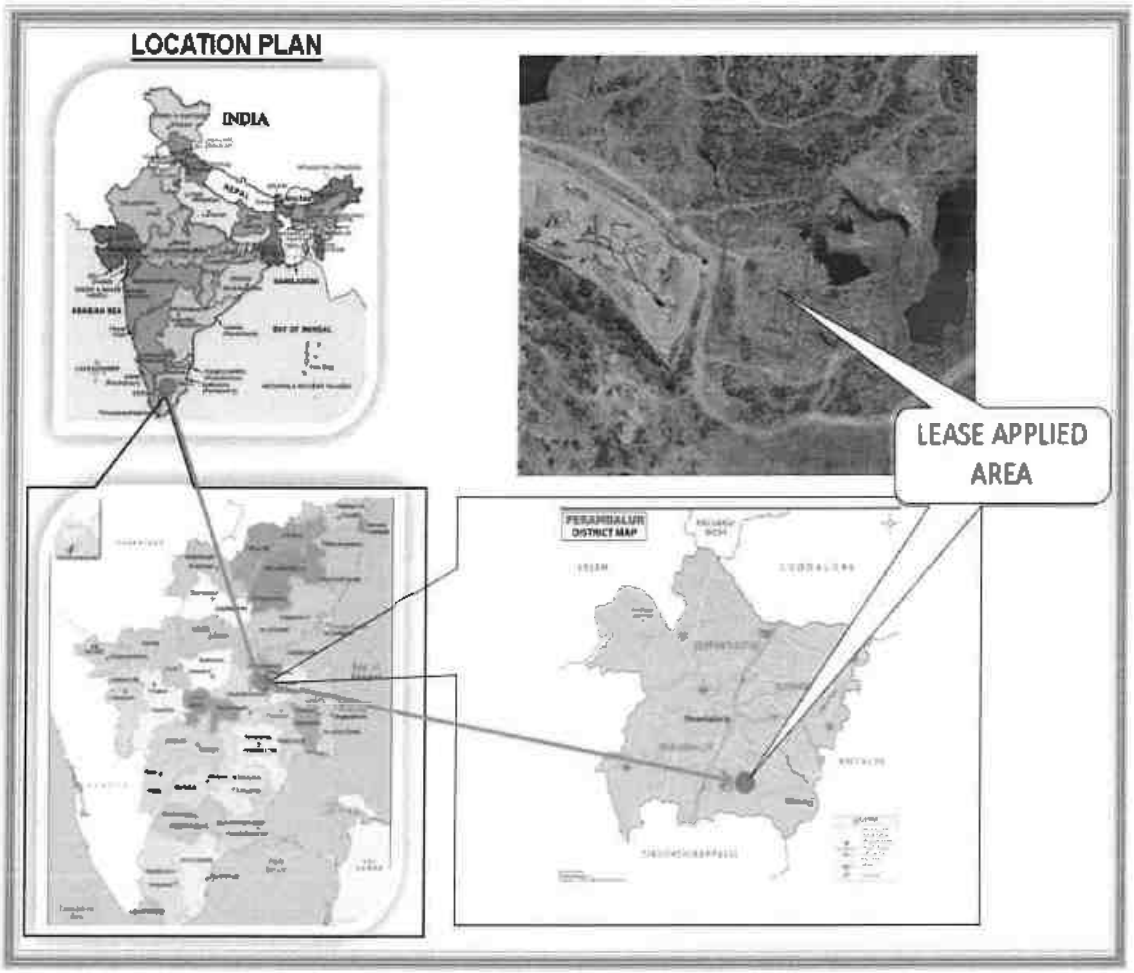
	a.	Name of the Applicant	:	Thiru.R.Vinoth,
	b.	Address of the Applicant with phone No and e-mail id if any	:	No.44/4, Subbramaniyar Kovil Street, Tittakudi, Cuddalore District - 606 106. Cell No.: 73587 71411
	c.	Status of the Applicant	:	Individual
2.2	a.	Mineral Which the applicant intends to mine	:	Rough Stone.
	b.	Precise area communication letter No.	:	Precise area communication letter received from the Assistant Director, department of Geology and Mining, Perambalur vide Rc.No.130/G&M/2025, dated 02.05.2025.
	c.	Period of permission / lease granted	:	The Assistant Director, Department of Geology and Mining, Perambalur, 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, 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°06'43.18"N to 11°06'48.42"N Longitude: 78°50'36.79"E to 78°50'40.18"E
2	Toposheet Number	58 I/16
3	The altitude of the area	155m (MSL)
4	Extent	1.20.0Ha
5	Survey No	10/1 (Block-8)
6	Village	Padalur (East)
7	Taluk	Alathur
8	District	Perambalur
9	State	Tamil Nadu



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a.	Classification of the Area (Ryotwari / poramboke / others)	:	Government poramboke land
b.	Ownership / Occupancy of the Applied area (Surface rights)	:	It is Government land the applicant has obtained tender from the Government Please refer annexure no –I and IA.
c.	Toposheet No. with Latitude and Longitude	: : :	Topo Sheet No: 58 I/16 Latitude : 11°06'43.18"N to 11°06'48.42"N Longitude: 78°50'36.79"E to 78°50'40.18"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 Alathur – Padalur road on west side of the area. The Nearest Railway line is Trichy – Ariyalur line which is about 19.5Km on southeastern side of the area.



SATELLITE IMAGERY OF THE LEASE APPLIED AREA



TOPOGRAPHICAL VIEW OF 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 hilly terrain covered by covered by Topsoil formation. The massive Charnockite formation is noticed below 1m (Avg) Topsoil and sloping towards southwest side of the area, the altitude of the area is above 155m (maximum) from MSL. ➢ No major river is found nearby the lease applied area. ➢ Water table is found at a depth of 67m in summer and 64m 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.

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				The strike of the Charnockite formation is N30°W-S30°E with vertical dipping. The general geological succession of the area is given as under. **AGE** — **ROCK TYPE** Recent - Topsoil 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 four sections have been drawn, one section drawn length wise as (X-Y) and another three sections drawn width wise as (A-B), (C-D), (E-F), to cover maximum area considered for lease. The Plans and Sections have been drawn with a scale of 1:1000 and 1:500 respectively. Please refer plate No.III.

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a. Geological Resources

The quarrying is restricted up to a depth of 56m (31m above ground level and 25m below ground level) only. Availability of resources is given below.

Table No-1

Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Topsoil m^3	Rough stone in m^3	Bulk Density	Topsoil in Ts	Geological Resources of Rough stone in Ts
XY-AB	Above Ground Level	I	56	81	1	4536	-	2	9072	-
		II	22	51	5	-	5610	2.75	-	15427.50
		III	41	80	5	-	16400	2.75	-	45100.00
		IV	51	80	5	-	20400	2.75	-	56100.00
		V	51	80	5	-	20400	2.75	-	56100.00
		VI	51	80	5	-	20400	2.75	-	56100.00
		VII	51	80	5	-	20400	2.75	-	56100.00
	Below Ground Level	VIII	51	80	5	-	20400	2.75	-	56100.00
		IX	51	80	5	-	20400	2.75	-	56100.00
		X	51	80	5	-	20400	2.75	-	56100.00
		XI	51	80	5	-	20400	2.75	-	56100.00
		XII	51	80	5	-	20400	2.75	-	56100.00
Total						**4536**	**205610**	-	**9072**	**565427.50**
XY-CD	Below Ground Level	VI	56	80	5	-	22400	2.75	-	61600.00
		VII	56	80	5	-	22400	2.75	-	61600.00
		VIII	56	80	5	-	22400	2.75	-	61600.00
		IX	56	80	5	-	22400	2.75	-	61600.00
		X	56	80	5	-	22400	2.75	-	61600.00
Total						**-**	**112000**	-	**-**	**308000.00**
XY-EF	Above Ground Level	I	34	81	1	2754	-	2	5508	-
		II	15	52	5	-	3900	2.75	-	10725.00
		III	33	80	5	-	13200	2.75	-	36300.00

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		IV	43	80	5	-	17200	2.75	-	47300.00
	Below Ground Level	V	43	80	5	-	17200	2.75	-	47300.00
		VI	43	80	5	-	17200	2.75	-	47300.00
		VII	43	80	5	-	17200	2.75	-	47300.00
		VIII	43	80	5	-	17200	2.75	-	47300.00
		IX	43	80	5	-	17200	2.75	-	47300.00
Total						**2754**	**120300**	-	**5508**	**330825.00**
Grand Total						**7290**	**437910**	-	**14580**	**1204252.50**

Topsoil Formation : 14,580Ts

The Geological Resources of Rough stone : 12,04,252.50Ts

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 (Avg) in (m)	Depth (Max) in (m)
I	80	56	21m (above ground level)
II	80	10	6m (above ground level)

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c. Available Mineable Reserve

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

Table No-3

Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Topsoil in m^3	Rough stone in m^3	Bulk Density	Topsoil in Ts	Mineable Reserves of Rough stone in Ts
XY-AB	Above Ground Level	I	45	61	1	2745	-	2	5490	-
		II	10	41	5	-	2050	2.75	-	5637.50
		III	24	60	5	-	7200	2.75	-	19800.00
		IV	29	60	5	-	8700	2.75	-	23925.00
		V	24	60	5	-	7200	2.75	-	19800.00
		VI	19	60	5	-	5700	2.75	-	15675.00
		VII	14	60	5	-	4200	2.75	-	11550.00
	Below Ground Level	VIII	9	60	5	-	2700	2.75	-	7425.00
Total						**2745**	**37750**	-	**5490**	**103812.50**
XY-CD	Below Ground Level	VIII	56	60	5	-	16800	2.75	-	46200.00
		IX	56	50	5	-	14000	2.75	-	38500.00
		X	51	40	5	-	10200	2.75	-	28050.00
		XI	46	30	5	-	6900	2.75	-	18975.00
		XII	41	20	5	-	4100	2.75	-	11275.00
Total						**-**	**52000**	-	-	**143000.00**
XY-EF	Above Ground Level	I	34	61	1	2074	-	2	4148	-
		II	15	42	5	-	3150	2.75	-	8662.50
		III	33	60	5	-	9900	2.75	-	27225.00
		IV	33	60	5	-	9900	2.75	-	27225.00
	Below Ground Level	V	28	60	5	-	8400	2.75	-	23100.00
		VI	23	50	5	-	5750	2.75	-	15812.50
		VII	18	40	5	-	3600	2.75	-	9900.00
		VIII	13	30	5	-	1950	2.75	-	5362.50
		IX	8	20	5	-	800	2.75	-	2200.00
Total						**2074**	**43450**	-	**4148**	**119487.50**
Grand total						**4819**	**133200**	-	**9638**	**366300.00**

The available mineable reserve is computed as 3,66,300Ts of Rough stone and 9,638Ts of Topsoil upto a depth of 56m (31m above ground level and 25m 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 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 crusher/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 crusher/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.	:	There is overburden in the form of topsoil, after excavation of topsoil will be utilized for afforestation purpose. The excavated rough stone will be directly loaded into tipper to the needy crusher/other buyers.

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The Yearwise Production and Development Table

Table No –4

Year	Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Topsoil in m^3	Rough stone in m^3	Bulk Density	Topsoil in Ts	Mineable Reserves of Rough stone in Ts
I	XY-AB	Above Ground Level	I	45	61	1	2745		2	5490	
			II	10	41	5		2050	2.75		5637.50
			III	6	60	5		1800	2.75		4950.00
	XY-EF		I	34	61	1	2074		2	4148	
			II	15	42	5		3150	2.75		8662.50
			III	33	60	5		9900	2.75		27225.00
			IV	33	60	5		9900	2.75		27225.00
Total							**4819**	**26800**		**9638**	**73700.00**
II	XY-AB	Above Ground Level	III	18	60	5		5400	2.75		14850.00
			IV	29	60	5		8700	2.75		23925.00
			V	24	60	5		7200	2.75		19800.00
			VI	19	60	5		5700	2.75		15675.00
Total								**27000**			**74250.00**
III	XY-AB	Above Ground Level	VII	14	60	5		4200	2.75		11550.00
		Below Ground Level	VIII	9	60	5		2700	2.75		7425.00
	XY-CD		VIII	56	60	5		16800	2.75		46200.00
	XY-EF		V	10	60	5		3000	2.75		8250.00
Total								**26700**			**73425.00**
IV	XY-EF	Below Ground Level	V	18	60	5		5400	2.75		14850.00
			VI	23	50	5		5750	2.75		15812.50
	XY-CD		IX	56	50	5		14000	2.75		38500.00
			X	6	40	5		1200	2.75		3300.00
Total								**26350**			**72462.50**

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V	XY-CD	Below Ground Level	X	45	40	5		9000	2.75		24750.00
			XI	46	30	5		6900	2.75		18975.00
	XY-EF		XII	41	20	5		4100	2.75		11275.00
			VII	18	40	5		3600	2.75		9900.00
			VIII	13	30	5		1950	2.75		5362.50
			IX	8	20	5		800	2.75		2200.00
Total								**26350**			**72462.50**
Grand Total							**4819**	**133200**		**9638**	**366300.00**

The applicant has proposed to carry out 3,66,300Ts of Rough stone and 9,638Ts of Topsoil formation upto a depth of 56m (31m above ground level and 25m below ground level) for the period of five years.

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<table>
<tr><td>5.5</td><td></td><td>Machineries to be used</td><td></td><td></td></tr>
<tr><td></td><td>a.</td><td>Drilling</td><td>:</td><td>It is proposed to use following machineries for quarrying rough stone
<table>
<tr><th>S.No</th><th>Type</th><th>Nos</th><th>Dia Hole mm</th><th>Size Capacity</th><th>Make</th><th>Motive power</th></tr>
<tr><td>1</td><td>Jack hammer</td><td>2</td><td>32</td><td>1.2m to 6m</td><td>Atlas Copco</td><td>Compressed air</td></tr>
<tr><td>2</td><td>Compressor</td><td>1</td><td>-</td><td>-</td><td>Atlas Copco</td><td>Diesel Drive</td></tr>
</table></td></tr>
<tr><td></td><td>b.</td><td>Loading</td><td>:</td><td>Excavator of 0.90m³ bucket capacity (with Rock breaker attachment) (1No).</td></tr>
<tr><td></td><td>c.</td><td>Transportation</td><td>:</td><td>Tipper 3Nos (10/20Ts) capacity.</td></tr>
<tr><td>5.6</td><td></td><td>Disposal of Overburden</td><td>:</td><td>The overburden in the form of topsoil, after excavation topsoil will be preserved along the boundary barrier utilized for afforestation purpose.</td></tr>
<tr><td>5.7</td><td></td><td>Brief Note on Conceptual Mining Plan for the entire lease period</td><td>:</td><td>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>
<tr><th colspan="4">Ultimate Pit dimension (M) end of Mining plan Period</th></tr>
<tr><th>Pit No</th><th>Length (max) in (m)</th><th>Width (Avg) in (m)</th><th>Depth(max) in(m)</th></tr>
<tr><td>I</td><td>140</td><td>68</td><td>56m (31m above ground level and 25m below ground level)</td></tr>
</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.</td></tr>
</table>

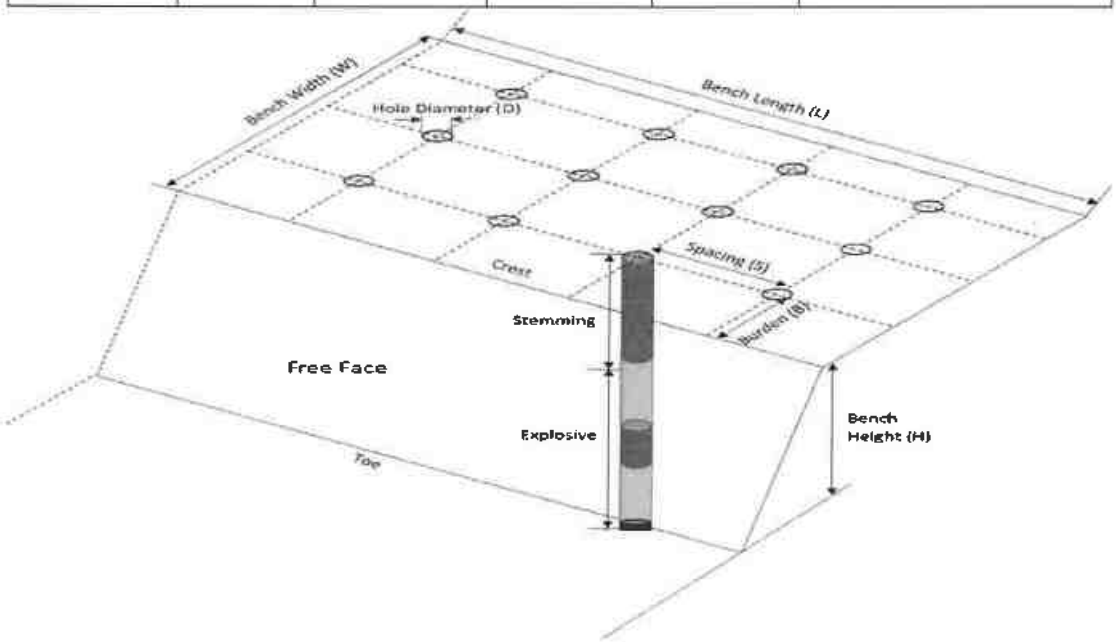
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6.0 Blasting:

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	70^0 from the horizontal



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

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

Number of holes	:	82
Powder factor	:	6Ts/Kg of explosives
Total explosive required	:	41Kg slurry explosives
Charge / hole	:	0.5Kg
Blasting time	:	12-2 Pm

6.4	Storage of Explosives and safety measures to be taken while blasting.	:	➢ The applicant will engage an authorized explosive agency to carry out the small amount of blasting and it will be supervised by competent and statutory foreman/ mines manager. ➢ ***The applicant ensure that will appoint the Mate (Should have Valid Blaster Certificate) during Blasting Operation.***

7.0 Mine Drainage:

7.1	Depth of Water table	:	The ground water table is reported as 67m below ground level. In the proposed mining plan only 56m (31m above ground level and 25m below ground level) for the proposed mining plan period 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 are no habitations within a radius of 300m.
8.2	Power lines (HT/LT)	:	There is no Power lines (HT/LT) within a radius of 50m.
8.3	Water bodies (River, Pond, Lake, Odai, Channel etc)	:	There are two tank situated on south and southeastern side of the area and is 51m and 170m away from the area.
8.4	Archeological / Historical Monuments	:	There are no Archeological / Historical Monuments within a radius of 300m.
8.5	Road (NH, SH, Village Road etc)	:	The National Highway (NH-38) Viluppuram – Trichy is about 1.2km on northwest side of the area. The State Highway (SH-142) Perambalur – Thuraiyur is about 12.3Km on northwest 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 are no Reserved forest / Wild Life Sanctuary within a radius of 1Km.
8.8	Any Interstate Border, Protected areas under the Wild Life (Protection) Act, 1972, Critically Polluted Areas as Identified by Central Pollution Control Board and Notified Eco sensitive areas	:	There are No inter State border within a radius of 10kms.
8.9	Any Other Structures	:	Nil

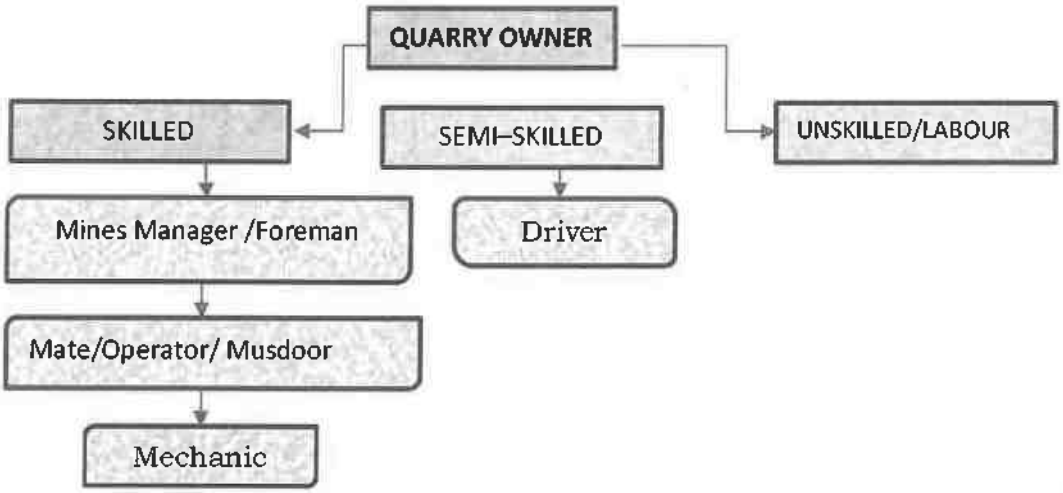
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9.0 Employment Potential & Welfare Measures:

9.1 Employment Potential (Management & Supervisory personal)

The proposed organization chart



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

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

The above man power is adequate to meet out the production schedule and the machinery strength envisaged in the mining plan and to comply the statutory provisions of Mines Safety Regulations.

- **It is been ensured that, child labours under 18 years of age will not be engaged for quarrying operation.**
- **Necessary life insurance policies will be taken by the applicant to all the employees up to the end of the lease period.**

9.2 Welfare Measures

	a.	Drinking Water	:	Packaged drinking water is available from the nearby approved water vendors in Alathur Village which is about 1.6km 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.

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	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 12.8Km (North) in Perambalur 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.		





DIST. DIRECTOR OF GEOLOGY AND MINING
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PART – B

10.0 Environmental Management Plan:

10.1	Existing Land Use Pattern	:	1. The area is exhibits hilly terrain covered by topsoil formation. 2. Quarrying operation is proposed up to a depth of 56m (31m above ground level and 25m below ground level) for the proposed mining plan period. 3. Fluctuation of Water table in this area is in between 67m and 64m 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	0.53.0	0.95.2
2.	Infrastructure	Nil	0.01.0
3.	Roads	0.01.0	0.01.0
4.	Green Belt	Nil	0.22.8
5.	Unutilized	1.20.0	Nil
	Total =	**1.20.0**	**1.20.0**

10.2	Water Regime	:	Water table in this area is noticed at a depth of 67m and presently, in the proposed mining plan only 56m (31m above ground level and 25m below ground level) for the proposed mining plan period 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.
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.

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<table>
<tr><td>10.5</td><td>Human Settlement</td><td>:</td><td>The nearest habitations with the population is given as under.
Table No-6
<table>
<tr><th>S. No</th><th>Name of the Village</th><th>Approximate distance & Direction from lease applied area</th><th>Approximate population</th></tr>
<tr><td>1.</td><td>Pudhukurichi</td><td>3.0km - NE</td><td>500</td></tr>
<tr><td>2.</td><td>Alathur</td><td>1.6km – NW</td><td>1500</td></tr>
<tr><td>3.</td><td>Therani</td><td>2.6Km-SE</td><td>600</td></tr>
<tr><td>4.</td><td>Padalur West</td><td>2.5km-SW</td><td>2000</td></tr>
</table></td></tr>
<tr><td>10.6</td><td>Plan for Air, Dust Suppression</td><td>:</td><td>Air or dust expected to be generated from drilling process, hauling roads, places of excavation etc., will be suppressed by periodical wetting of land by water spraying. Wet drilling and dust extractor arrangements will be provided to drilling units so as to control raise of dust from the site of drilling. Operators, those exposed directly to such conditions will be provide such protective equipment like mask, ear plug, helmet, gloze etc., as per the Mines Act.</td></tr>
<tr><td>10.7</td><td>Plan for Noise Control</td><td>:</td><td>Quarrying of Rough Stone will be carried out by drilling and blasting by using low power explosives, and hence, noise will be very minimum. However, periodical noise level monitoring will be carried out to check the noise level in and around the quarry site. Nowhere the noise level should exceed the permissible limit of 80db during the quarry working hours.</td></tr>
<tr><td>10.8</td><td>Environmental Impact Assessment Statement Describing Impact on mining on the next Five years</td><td>:</td><td>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.</td></tr>
<tr><td>10.9</td><td>Proposal for Waste Management</td><td>:</td><td>There is no waste anticipated in this rough stone quarry operation.</td></tr>
</table>

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PERAMBALUR

10.10	Proposal of Reclamation of Land affected during mining activities and at the end of mining.	:	In the proposed mining plan 56m (31m above ground level and 25m below ground level) for the proposed mining plan period and 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 56m depth, fencing will be constructed around the quarried pits to prevent inherent entry of the public and cattle.
10.11	Program for Afforestation	:	The 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 2280Sqm area is proposed to use under afforestation by planting 274nos 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 (Tender amount) 2. First aid room and accessories 3. Labour Shed 4. Sanitary Facility **Total=**		 Rs. 2,14,00,000 Rs. 1,00,000 Rs. 1,00,000 Rs. 1,00,000 **Rs. 2,17,00,000/-**
	B. Operational Cost: 1. Machineries 2. Fencing cost **Total**	 : : :	 Rs.50,00,000- Rs. 1,50,000 **Rs.51,50,000/-**

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	C.EMP Cost:	:	Budget Provision for the entire quarrying period: Air Quality Sampling = Rs. 40,000/- Water Quality Sampling = Rs. 40,000/- Noise Monitoring = Rs. 20,000/- Ground vibration test = Rs. 20,000/-
	Expenditure 1. Drinking water facility 2. Sanitary Arrangements 3. Safety kids 4. Water sprinkling 5. Afforestation **Total=**	: : : : : :	Rs.1,00,000/- Rs. 50,000/- Rs. 50,000/- Rs. 1,00,000/- Rs. 80,000/- **Rs. 5,00,000/-**
	Total Project Cost (A+B+C)	:	**Rs. 2,73,50,000/-**
	CSR Cost(2% of Total Project Cost)	:	**Rs. 5,47,000/-**

11.0 Mine Closure Plan:

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

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12.0 Any Other Details Intend to Furnish by the Applicant:

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

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

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

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

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

Prepared by

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

Place : Salem
Date : 05.05.2025

This Mining Plan is Approved Subject to the Conditions Stipulation & Indicated to the Mining Plan Approval Letter No...130/G.Sand/25 dt:30.5.2025 Office of the A.D.Geology & Mining Perambalur

This mining plan is approved without prejudice to any other legal stipulations and as per the G.O.(Ms) No.79, Industries (MMC1) Department Dt. 06.04.2015 and subject to further fulfilment of the condition laid down under TNMMCR 1959.

30/05/25

Assistant Director
Dept. of Geology and Mining
Perambalur District.

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ANNEXURE

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

Rc.No.130/G&M/2025, Dated:02.05.2025

Department of Geology & Mining,
Collectorate,
Perambalur – 621212.

PRECISE AREA COMMUNICATION LETTER

Sub : Mines and Minerals - Perambalur District - Rough Stone e-Tender cum auction conducted on 27.03.2025 under Tender ID:2025_CGAM_525779_1 – Thiru.Vinoth R(BID ID: 1274914) quoted highest Bid amount (H1) For the quarry listed in Serial Number 30 – Declared as H1 bidder - H1 Bid Amount remitted – Solvency Certificate submitted – Precise Area Communicated – Reg.

Ref:

1. G.O.(Ms). No.21, Natural Resources (MMC.1) Department. Dated 31.07.2024
2. Perambalur District Gazette (Extraordinary) Notification No.1, dated : 18.02.2025.
3. E-Tender published under Tender ID:2025_CGAM_525779_1 in Tamil Nadu Government e-tender portal.
4. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.130/G&M/2025, dated : 28.03.2025 (to remit 10% of highest bid amount)
5. Remittance challan No.20250329001458, dated.29.03.2025 submitted by Thiru.Vinoth R(BID ID: 1274914)
6. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.127/G&M/2025, dated 01.04.2025 (to remit remaining 90% of the bid amount)
7. Remittance challan No. 20250430011159, dated.30.04.2025 submitted by Thiru.Vinoth R(BID ID: 1274914)

******

I invite your attention to the references cited above

Notice Inviting Tender (NIT) was published vide Perambalur District Gazette Extraordinary Notification No.1, dated.18.02.2025, inviting applications for grant of rough stone quarry leases in Government poramboke lands in Perambalur District through e-Tender cum Auction. Online tender was published in Tamil Nadu Government e-tender portal (https://tntenders.gov.in/) under Tender ID: 2025_CGAM_525779_1 and e-Auction was conducted 27.03.2025 for bidders whos' bids were qualified technically and financially.

After Financial Evaluation, Thiru.Vinoth R(BID ID: 1274914) was declared as H1 bidder for the quarry listed in Serial Number 30 of the Gazette as he quoted highest bid amountof Rs. 2,14,00,000/- for the said quarry. The H1 bidder was directed to remit 10% of the Highest bid amount vide notice in the reference 4th cited and accordingly, the H1 bidder has remitted 10% of the bid amount to a sum of Rs.21,40,000/- and submitted remittance challan No. 20250329001458, dated 29.03.2025 to this office.

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Subsequently, Thiru.Vinoth R(BID ID: 1274914) was directed to remit the remaining 90% of Highest bid amount after adjusting the Bid Security already paid by him within one month to Government head of account and to submit original remittance challan to this office. Accordingly, Thiru.Vinoth R(BID ID: 1274914) has remitted Rs.1,86,61,399/- after deducting Rs.5,98,601/-(the Bid Security amount already paid by the bidder) in Government account within one month and submitted remittance challans to this office.

The details of H1 Bidder for the quarry listed in Serial No.30 of the District Gazette, H1 Bid Amount offered and remittance of Bid amount by bidder are as follows.

1.	**Quarry Detail**	
	Serial No. in District Gazette No.01, dated 18.02.2025.	30
	Taluk	Alathur
	Village	Padalur (East)
	S.F.No.	10/1 (Block 8)
	Extent	1.20.0 Hectares
	Lease Period	5 Years
2.	**H1 Bidder, Bid Amount Remittance**	
	H1 Bidder	Thiru.Vinoth R (BID ID: 1274914) 44/4 Subbramaniyar kovil street, Tittakudi Cuddalore District-606 106.
	H1 Bid Amount	Rs.2,14,00,000/-
	10% of H1 bid amount remitted	Rs.21,40,000/- (Challan No. 20250329001458, dated 29.03.2025)
	Bid Security (EMD) already remitted	Rs.5,98,601/-
	90% of bid amount paid after adjusting Bid Security already paid	Rs.1,86,61,399/- (Challan No. 20250430011159, dated.30.04.2025)

The H1 Bidder, Thiru.Vinoth R(BID ID: 1274914) has remitted entire H1 Bid Amount of Rs.2,14,00,000/- in Government account within one month as per sub- rule 16 of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959

Therefore, in exercise of the powers conferred under sub rule 17(a) of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959, an extent of 1.20.0 hectares of Government land in S.F.No.10/1 Block 8 of Padalur (East) Village, Alathur Taluk, Perambalur District as notified in Serial Number.30 of the Perambalur District Gazette (Extraordinary) Notification No.1, dated: 18.02.2025 is hereby fixed as Precise Area for grant of permission to quarry Rough stone for a period of 5 years to Thiru.Vinoth R(BID ID: 1274914), subject to the following conditions:

R.vinoth

1. 10 meters safety distance should be left out for the adjacent government lands.
2. The applicant shall not make any hindrance to the adjacent lands and public.
3. The applicant should submit approved Mining Plan, Environment Clearance and Consent to Establish (CTE) & Consent to Operate (CTO) issued by competent authorities for grant of quarrying lease in the subject area.

The applicant Thiru.Vinoth R(BID ID: 1274914) is directed to submit draft Mining Plan for the above area within 90 days for the approval of the Assistant Director, Geology and Mining, Perambalur and to submit Environment Clearance obtained from SEIAA, Tamil Nadu and CTE & CTO issued by the Tamil Nadu Pollution Control Board subsequently for further process.

Encl : Map Showing the Proposed lease area

02/05/25

Assistant Director,
Geology and Mining,
Perambalur.

To
Thiru.Vinoth R
(BID ID: 1274914)
44/4 Subbramaniyar Kovil street,
Tittakudi
Cuddalore District-606 106.

Copy to:

21/5/25

1. The Chairman,
   SEIAA Level Environment Impact Assessment Authority,
   PanagalMaligai, Saidapet,
   Chennai.
2. The Commissioner of Geology and Mining, Chennai-32.

R.vinoth

ANNEXURE
ASST. DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

© GOVERNMENT OF TAMIL NADU 2025

Registered No.
TN / SRGM – 10

PERAMBALUR DISTRICT GAZETTE

EXTRAORDINARY PUBLISHED BY AUTHORITY

PERAMBALUR, FEBRUARY 18, 2025

No. 1]

[Maasi 06, Kurothi, Thiruvalluvar Aandu - 2056]

NOTIFICATION BY THE COLLECTOR

(Rc. No.35 / G&M / 2022, Dated : 17–02–2025)

E-mail: (minespmb@gmail.com)

Notice Inviting Tender(NIT)

"Inviting Application for Grant of Roughstone Quarry Leases in Government Lands"

In exercise of the power conferred by Section 15 of Mines and Mineral (Development & Regulation) Act, 1957 and in accordance with the Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959 read with G.O. Ms. No.21, Natural Resources (MMC.1), 31st July 2024 as amended from time to time notified thereunder, the District Administration of Perambalur District, Tamil Nadu has identified 44 (Forty four) areas for Roughstone Quarries in Perambalur District as indicated in the Annexure-I.

The E-tender with forward bidding will be conducted through online electronic platform with url address https://tntenders.gov.in and hereby invites applications for the said purpose.

Aspiring applicants can register themselves as bidders using their Digital Signature certificate on the portal https://tntenders.gov.in On Successful registration, bidders will obtain login ID and password necessary for submitting the application and for participation in the e-auction process. **Bidders Manual Kit** in the portal https://tntenders.gov.in provides with all requisite illustrations guiding through various stages of the e-auction process.

The terms and conditions of the e-auction process, details of application fee and bid security amount, detailed information regarding the notified areas, model affidavits to be uploaded in the technical bid are available in the detailed tender document, that can be downloaded free of cost in the portal https://tntenders.gov.in

Intending bidders are advised to visit the mentioned site regularly till closing date of E-auction for any corrigendum / addendum / amendment.

R.vinoth

142C–Perambalur–Ex.or.1,

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

Application Fee – Rs.5,000 (Non – Refundable) for each quarry

Bid submission start date	:	19–02–2025 from 10.00 hrs
Bid Submission end date	:	22–03–2025 upto 16.00 hrs
Financial bid opening andlive e-auction date	:	Will be intimated later on through Tamil Nadu e-Tender portal

ANNEXURE – I

Tender File No.Rc.No.35/G&M/2022, Dated : 17–02–2025

List of Areas Identified in Government lands in Perambalur District of Tamil Nadu for Grant of Rough Stone Quarry Leases through e-Auction.

Sl. No.	Taluk	Name of the Village	SF.No	Extent in Ha	Land Classification	Period of Lease
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Perambalur	Kalpadi(N)	328/2 Block 31	1.10.0	Unassessed waste land - Malai	5
2	Perambalur	Kalpadi(N)	328/2 Block 34	1.00.0	Unassessed waste land - Malai	10
3	Perambalur	Kalpadi(N)	328/2 Block 35	1.50.0	Unassessed waste land - Malai	5
4	Perambalur	Kalpadi(N)	328/2 Block 36	1.00.0	Unassessed waste land - Malai	5
5	Perambalur	Kalpadi(N)	328/2 Block 37	1.00.0	Unassessed waste land - Malai	5
6	Perambalur	Kalpadi(N)	328/2 Block 38	1.00.0	Unassessed waste land - Malai	10
7	Perambalur	Chatramanai	23 Part-1	1.10.0	Unassessed waste land – Eli Kundru	5
8	Perambalur	Thurai mangalam	280/13A1 Block-8	1.00.0	Unassessed waste land - Kundru	10
9	Perambalur	Elambalur	27/1A (Block-1)	1.20.0	Unassessed waste land - Malai	5
10	Perambalur	Elambalur	27/1A, (Block-2)	1.80.0	Unassessed waste land - Malai	10
11	Perambalur	Elambalur	27/1A, (Block-3)	2.50.0	Unassessed waste land - Malai	10
12	Perambalur	Aranaral(N)	120/2A1A (Part-1)	1.50.0	Unassessed waste land - Kundru	10
13	Perambalur	Aranaral(N)	120/2A1A (Part-2)	1.50.0	Unassessed waste land - Kundru	10
14	Perambalur	Aranaral(N)	120/2A1A (Part-3)	1.80.0	Unassessed waste land - Kundru	5
15	Perambalur	Sengunam	52/1(Part-1)	1.80.0	Unassessed waste land - Malai	10
16	Perambalur	Sengunam	52/1(Part-2)	1.40.0	Unassessed waste land - Malai	10

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DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

Sl. No.	Taluk	Name of the Village	SF.No	Extent in Ha	Land Classification	Period of Lease
(1)	(2)	(3)	(4)	(5)	(6)	(7)
17	Perambalur	Sengunam	52/1(Part-3)	1.50.0	Unassessed waste land - Malai	10
18	Alathur	Narana mangalam	300/1 Part	2.02.0	Unassessed waste land - Malai	5
19	Alathur	Narana mangalam	324/1 Block-1	2.00.0	Unassessed waste land - Kallankuthu	5
20	Alathur	Nattar mangalam	195 Part	1.50.0	Unassessed waste land - Kallankuthu	5
21	Alathur	Nattar mangalam	258 Block-1	1.00.0	Unassessed waste land - Malai	5
22	Alathur	Nattar mangalam	258 Block-2	2.00.0	Unassessed waste land - Malai	5
23	Alathur	Padalur(E)	10/1 Block 1	1.50.0	Unassessed waste land - Kallankuthu	5
24	Alathur	Padalur(E)	10/1 Block 2	1.40.60	Unassessed waste land - Kallankuthu	10
25	Alathur	Padalur(E)	10/1 Block 3	1.40.0	Unassessed waste land - Kallankuthu	5
26	Alathur	Padalur(E)	10/1 Block 4	1.40.0	Unassessed waste land - Kallankuthu	5
27	Alathur	Padalur(E)	10/1 Block 5	2.10.0	Unassessed waste land - Kallankuthu	5
28	Alathur	Padalur(E)	10/1 Block 6	2.20.0	Unassessed waste land - Kallankuthu	10
29	Alathur	Padalur(E)	10/1 Block 7	1.30.0	Unassessed waste land - Kallankuthu	5
30	Alathur	Padalur(E)	10/1 Block 8	1.20.0	Unassessed waste land - Kallankuthu	5
31	Alathur	Padalur(E)	10/1 Block 9	1.20.0	Unassessed waste land - Kallankuthu	5
32	Alathur	Padalur(E)	10/1, Block-13	1.00.0	Unassessed waste land - Kallankuthu	5
33	Alathur	Padalur(E)	123 Block 1	1.50.0	Unassessed waste land - Kallankuthu	5
34	Alathur	Padalur(E)	123 Block 2	1.50.0	Unassessed waste land - Kallankuthu	5
35	Alathur	Padalur(E)	123 Block 3	1.50.0	Unassessed waste land - Kallankuthu	5
36	Alathur	Padalur(E)	123 Block 4	2.00.0	Unassessed waste land - Kallankuthu	5
37	Alathur	Padalur(E)	172 Block 1	1.50.0	Unassessed waste land - Kallankuthu	5

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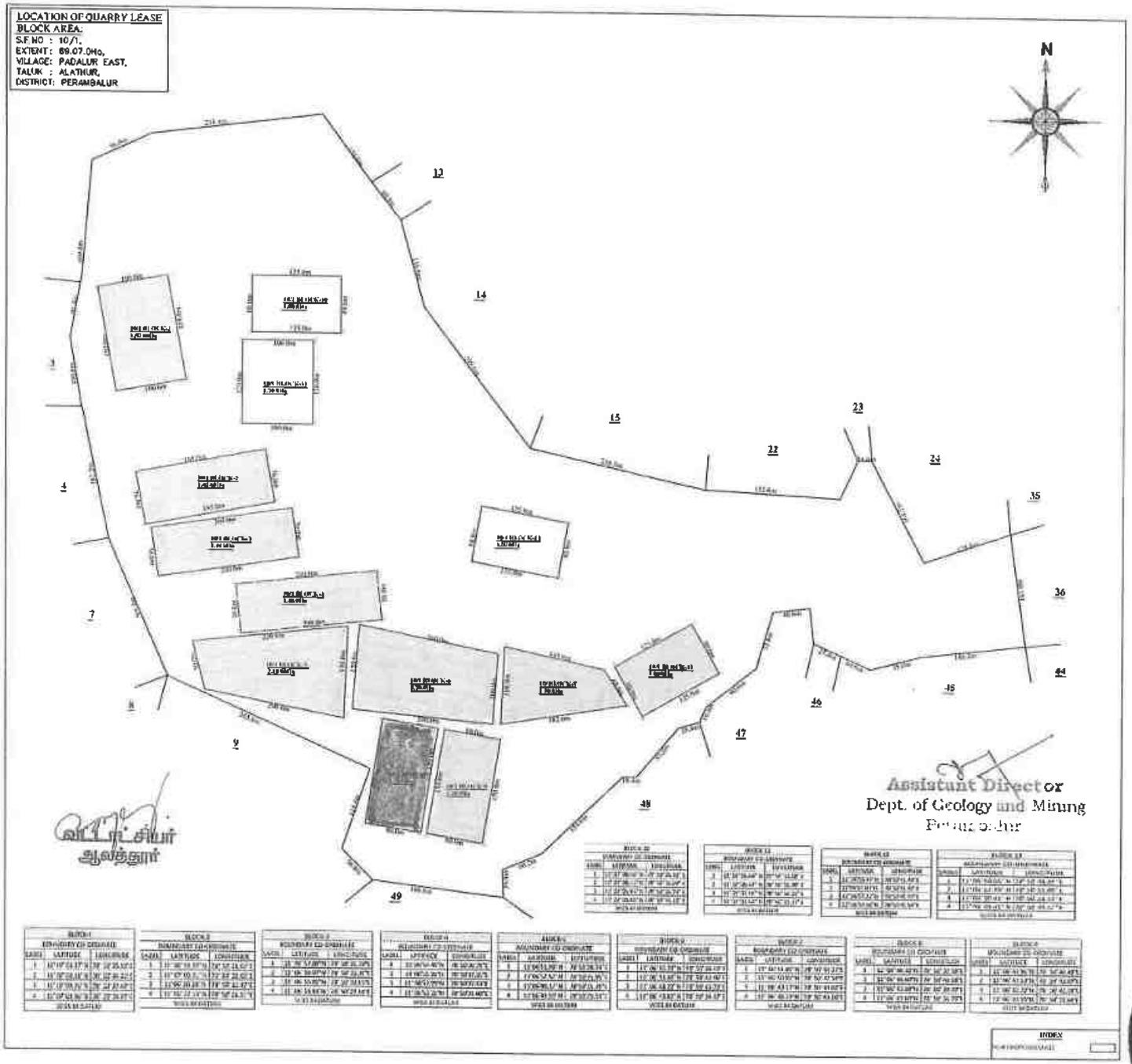
Sl. No.	Taluk	Name of the Village	SF.No	Extent in Ha	Land Classification	Period of Lease
(1)	(2)	(3)	(4)	(5)	(6)	(7)
38	Alathur	Padalur(E)	172 Block 2	1.50.0	Unassessed waste land - Kallankuthu	5
39	Alathur	Padalur(E)	172 Block 3	1.50.0	Unassessed waste land - Kallankuthu	5
40	Veppanthattai	Vengalam(E)	200/1B Part, Block-13	1.50.0	Unassessed waste land - Malai	10
41	Veppanthattai	Vengalam(E)	200/1C, Part, Block-1	1.40.0	Unassessed waste land - Malai	10
42	Veppanthattai	Vengalam(E)	200/1C, Part, Block-14	1.40.0	Unassessed waste land - Malai	10
43	Veppanthattai	Vengalam(E)	200/1C Part, Block-15	1.50.0	Unassessed waste land - Malai	10
44	Veppanthattai	Vengalam(E)	200/1C Part, Block-16	1.50.0	Unassessed waste land - Malai	10

Perambalur,
17th February 2025.

GRACE PACHUAU,
District Collector.

Printed by the Commissioner of Stationery and Printing at the Government Branch Press, Tiruchirappalli
and published by the Collector of the District.

LOCATION OF QUARRY LEASE
BLOCK AREA:
S.F.NO : 10/1,
EXTENT : 89.07.0Hs,
VILLAGE: PADALUR EAST,
TALUK : ALATHUR,
DISTRICT: PERAMBALUR



LEASE APPLIED AREA

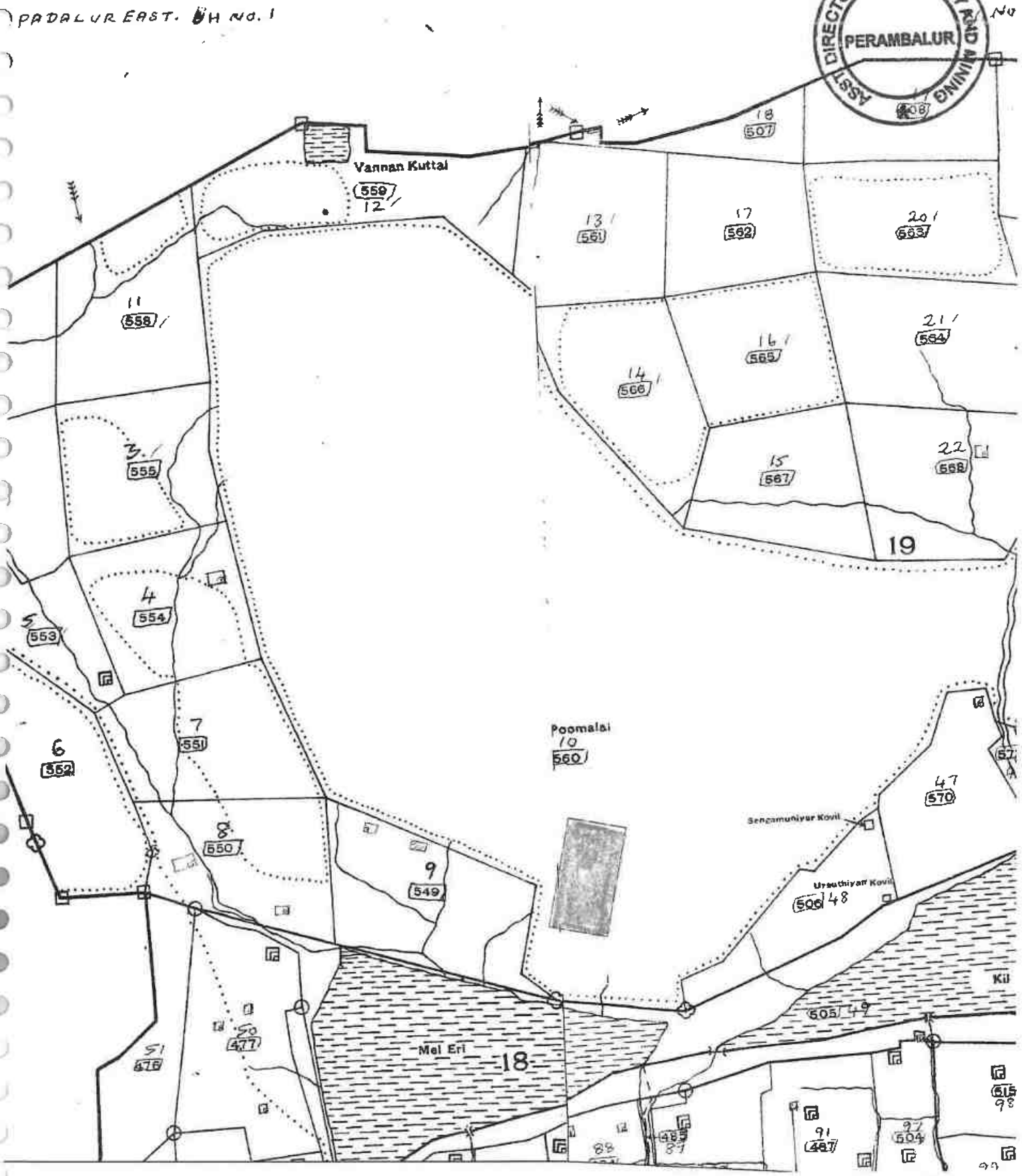
ANNEXURE

ASST. DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

ANNEXURE IV

PADALUR EAST. BH NO. 1

DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR



LEASE APPLIED AREA

1434 ஆம் பசலியில் ... மாவட்டம் ... கிராமக் கணக்கு வட்டம் 73. ...

நில வரித் திட்டத்தின்படி புலன்களின் விபரம்.						சாகுபடியாளின் பெயர்.	முதல் போகம்.				
நில அளவை எண். (1)	உட்பிரிவு எண். (2)	பரப்பு. (3)	தீர்வை. (4)	ஒரு போகம் அல்லது இரு போகம். (5)	கைப்பற்று தாரருடைய பெயரும் எண்ணும் அல்லது அனுபோக தாரருடைய பெயர். (6)	நிலத்தின் எந்த பகுதி யாவது சாகுபடியாளரால் பயிரிடப்பட்டுள்ளதா. (7)	எந்த பாகத்தில் பயிர் செய்யப்பட்டது எந்த பாகத்தில் அறுவடை செய்யப்பட்டது. (8)	பயிரின் பெயர். (9)	பயிரான / அறுவடையான பரப்பு. (10)	உண்மையான பாய்ச்சல் ஆதாரம். (11)	விளைச்சல் அளவு விழுக்காடு. (12)
10	1	1.39.16	1		—		—	—			

12 [illegible]

27-5

[illegible]

கிராம நிர்வாக அலுவலர்
73 – பாடாலூர் (கிழக்கு).
[illegible]
பெரம்பலூர் மாவட்டம்.

197

இரண்டாம் போகம்.										
எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது. (13)	பயிரின் பெயர். (14)	பயிரான / அறுவடையான பரப்பு. (15)	உண்மையான பாய்ச்சல் ஆதாரம். (16)	விளைச்சல் அளவு விழுக்காடு. (17)	கிராம அலுவலரின் குறிப்புரை :- (1) புலன்களின் பகுதிகளில் மட்டும் பயிரிடப்பட்ட நிலங்களில் விருக்கள் அளவில் இல்லாத நிலங்கள். (2) கைப்பற்றில் இல்லாத நிலங்கள் தன்மையும் பாய்ச்சல் களின் சாகுபடியின் பாய்ச்சல் (3) முந்தைய பட்டத்தில் பயிரிடப்பட்டவை உதவியின்றி பயிரிடப்பட்டவை என்று பதிவாகியுள்ள நிலங்களுக்கு பிந்தைய பாதங்களில் நீர் பாய்ச்சப்பட்ட விவரங்கள். (17)	கீழ்க்கண்டவகையில் பயிரிடப்படாத உள்ள நிலத்தின் தன்மை மற்றும் பரப்பின் விவரங்கள் ஒவ்வொரு நில அளவை எண் அல்லது அதன் பகுதியில். (அ) வளம். (ஆ) பயனற்ற பயிர் செய்ய இயலாத நிலம். (இ) விவசாயம் மற்றும் இதர காரியங்களுக்கு பயன் படுத்தப் படும் நிலம். (ஈ) பயிரிடத்தக்க தரிசு (உ) நிலையான புல் தரைகளும் மற்றும் இதர மேய்ச்சல் நிலங்களும். (ஊ) விதைக்கப்பட்ட நிகர பரப்பில் சேர்க்கப்படாத மரவகைப் பயிர்களும் தோப்புகளும். (எ) நடப்புத் தரிசுகள் (ஏ) இதர தரிசு நிலங்கள். (18அ)	பயிர் பார்வையிடும் அலுவலர் குறிப்புரைகள். (19)
					[illegible]					

ANNEXURE

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

280/21–R.F. III-A-10–20,00,000 Cps.-GBP.-Mdu.-7–2022.

ANNEXURE 5

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

1	2	3	4	5	6	7	8	9	10	11	12
							ஆ.வை	வேலை நேரம்	ஓ.வை		
8	3A	8-3A	ஏ	ப	...	8-4	16	1 09	0 26·0	0 28	653 தெ.ராணி(1). சு.முத்து சாமி(2).
	3B	-3B	ஆ	ப	...	8-4	16	1 09	1 26·5	1 37	..... தரிசு.
	4	-4	ஏ	ப	...	8-4	16	1 09	0 20.0	0 22	653 தெ.ராணி(1), சு.முத்தம் மாள்(2). சதுரக் கிணறு
	5	-5	ஏ	ப	...	8-4	16	1 09	1 22·5	1 33	5 ரா.அமிர்தம் மாள். சதுரக் கிணறு
									3 79·0	3 78	
9	1A	9-1A	ஆ	ப	...	8-4	16	1 09	0 21·0	0 23	... தரிசு.
	1B	-1B	ஏ	ப	...	8-4	16	1 09	1 02.5	1 11	604 வீ.ரெங்கம் மாள். சதுரக் கிணறும் கூரைவீடும்.
	1C	-1C	ஏ	ப	...	8-4	16	1 09	1 43·5	1 56	632 தெ.வீரன் செட்டி.
	2	-2	ஆ	புற	...	...	...	...	1 73·0	...	..... நீர்ப்பிடிப்பு
									4 40.0	2 90	
10	1	10-1	ஆ	இ.எ.த	...	...	...	...	66 61.5	...	..... கல்லாங் குத்து.
	2	-2	ஆ	ப	...	8-4	16	1 09	2 08·5	2 98	..... தரிசு.
									68 70·0	2 98	
11	1	11·1	ஏ	ப	...	8-4	16	1 09	0 38.0	0 42	65 செ.ராமராஜ்.
	2	-2	ஆ	புற	...	...	...	...	0 13·5	...	..... வாரி.
	3A	-3A	ஆ	ப	...	8-4	16	1 09	1 18.0	1 28	..... தரிசு.
	3B1	-3Bபா	ஏ	ப	...	8-4	16	1 09	0 06.0	0 07	128 வீ.நாராயண்.
	3B2	-3Bபா	ஏ	ப	...	8-4	16	1 09	0 06.5	0 08	6 வீ.அங்கணாதி.
	3B3	-3Bபா	ஏ	ப	...	8-4	16	1 09	0 03·0	0 06	175 பொ.சாமிக் கண்ணு.
	3B4	-3Bபா	ஏ	ப	...	8-4	16	1 09	0 03·0	0 06	307 பொ.தங் கையா.

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ANNEXURE 44

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

Government of India



விநோத
Vinoth
பிறந்த நாள்/DOB: 01/01/1991
ஆண்/ MALE

Issue Date: 21/06/2015

2828 4292 8920
VID : 9128 2395 2112 6869

எனது ஆதார், எனது அடையாளம்

Unique Identification

முகவரி:
தந்தை / தாய் பெயர்: ராஜு, 44/4,
[illegible] கோவில் தெரு, [illegible],
கடலூர்,
தமிழ் நாடு - 606106

Address:
S/O: Raju, 44/4, SUBRAMANIYAR KOVIL STREET, Tittakudi, Cuddalore,
Tamil Nadu - 606106



2828 4292 8920
VID : 9128 2395 2112 6869

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

R.vinoth

ANNEXURE

CHETTINAD CEMENT CORPORATION LTD.,

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

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

All Correspondences to
Kumararaja Muthiah Road,
PULIYUR CEMENT FACTORY POST 639114
(Karur Taluk) Trichy Dt.)

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

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

22nd September,1987.

CERTIFICATE.

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

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

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

for CHETTINAD CEMENT CORPORATION LTD.,

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

R.vinoth

3209.

ASST. DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

ANNAMALAI UNIVERSITY

Faculty of Science

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

Given under the seal of the University.

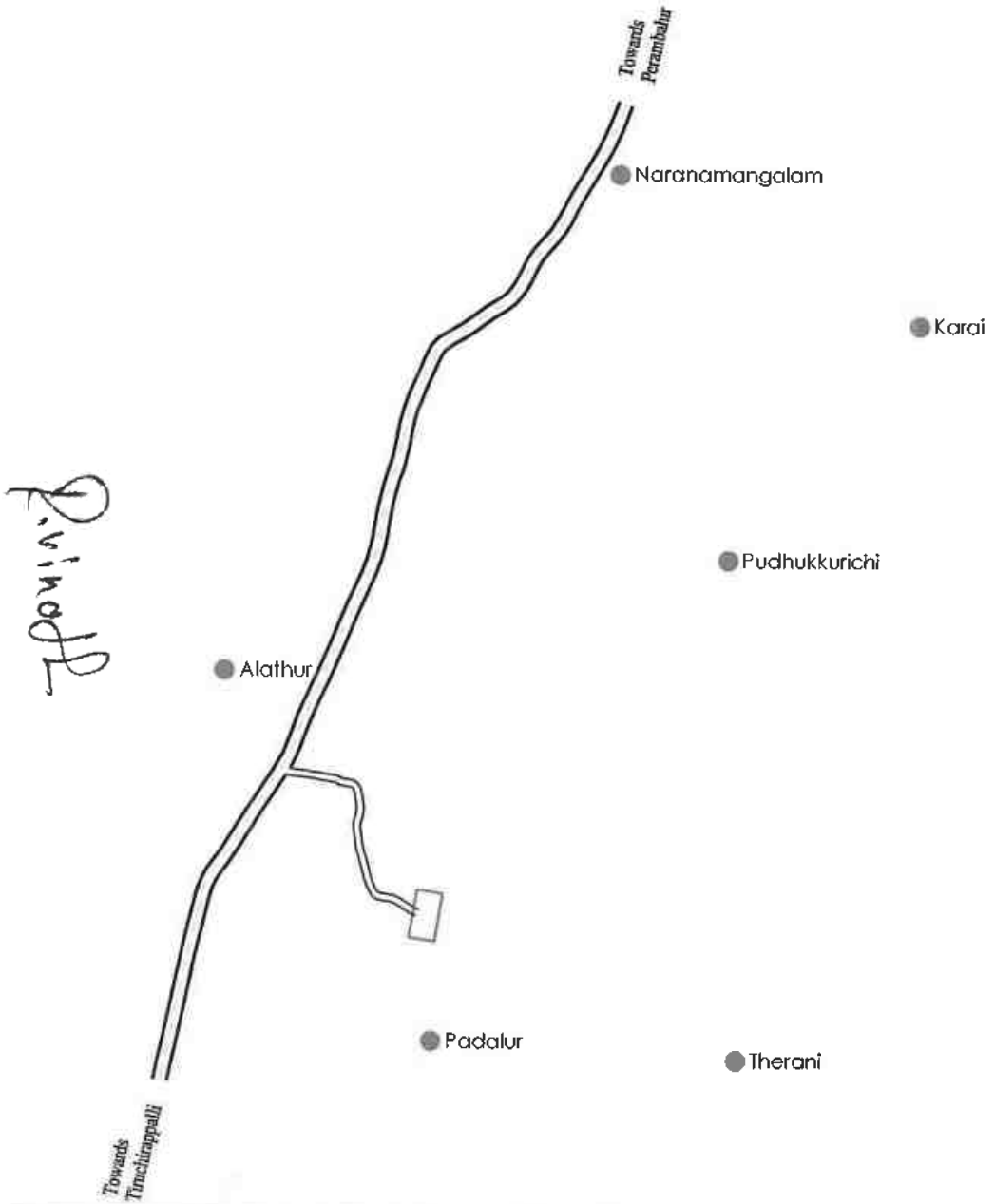
R. Vinod

Annamalainagar
8th December 1976.

A. Chandrasekhar
Vice-Chancellor.


11°06'48.42"N
11°06'43.18"N
78°50'36.79"E
78°50'40.18"E
TAMIL NADU
KERALA
ERODE
NAMAKKAL
KARUR
TIRUCHCHIRAPPALLI
PERAMBALUR
COIMBATORE
DINDIGUL
MADURAI
PUDUKKOTTAI
TENI
SIVAGANGA
VIRUDUNAGAR
TUTICORIN
TIRUNELVELI
THANJAVUR
PALAKKAD
KOTTAYAM
PATHANAMTHITTA
KOLLAM
Bhavani Sagar
Amaravathi
Periyar
Vaigai
Palani
Pollachi
Udumalaippettai
Dharapuram
Aravakkurichchi
Togamalai
Manapparai
Viralimalai
Kiranur
Ayyalur
Sittannavasal
Tovarankurichchi
Vedasandur
Oddanchatram
Kodaikkanal
Chinnalapatti
Sanarpatti
Nilakkottai
Nattam
Kottampatti
Tirumayam
Periyakulam
Vadipattí
Tiruppattur
Karaikkudi
Devakottai
Andippatti
Usilampatti
Alagarkovil
Melur
Tirumangalam
Tiruparangundram
Uthamapalayam
Peraiyur
Kambam
Gudalur
Manamadurai
Ilaiyankudi
Kariyapatti
Tiruchuli
Paramakkudi
Devipattinam
Srivilliputtur
Aruppukkottai
Kamudi
Mudukulathur
Rajapalaiyam
Sivakasi
Sattur
Sivagiri
Kilakkarai
Mandapam
Sankarankovil
Ettaiyapuram
Sayalkudi
Ervadi
Vallinokkam
Katugumalai
Kovilpatti
Vilattikulam
Vembar
Sengottai
Tenkasi
Kayattar
Panchalamkurichi
Ottappidaram
Maniyachchi
Kuttalam
Alangulam
Pon Mudi
Kottarakara
Munnar
Devikulam
Bodinayakkanur
Vaikam
Idukki
Pirmed
Thekkadi
Sabarimala
Periyar Lake
Vaigai
Kaveri
Amaravathi
Surull
Tambraparni
Vaippar
Kallar
Kumbakonam
Thiruvaiyaru
Orlyur
Tiruvadanai
Tondi
Arantangi
Avadaiyarkoil
Gandarvakottai
Kollidam
Coonoor
Avalanche
Mettupalayam
Karamadai
Ayanashi
Chennimalai
Perundurai
Nambiyur
Bhavani
Kumaramangalam
Tiruchengodu
Uppiliyapuram
Turaiyur
Paramatti
Veppanthattai
Sendurai
Tittagudi
Musiri
Srirangam
Samayapuram
Kulittalai
Marudamalai
Nilambur
Tiruppur
Kangayam
Chettipalayam
Udiyur
Malampuzha
Anaimalai
Top Slip
Valparai
Kaladi
Anai Mudi
Nilambur Rd.
Doda Betta
Gopichettipalayam
GAMANDALAM
Kotagiri
Ariyalur
Kumbakonam
Thiruvaiyaru
Nidamangalam
Papanasam
Orlyur
Tiruvadanai
Tondi
Devipattinam
Ramanathapuram
Mandapam
Vallinokkam
Ervadi
Sayalkudi
Kilakkarai
Mudukulathur
Kamudi
Ilaiyankudi
Manamadurai
Paramakkudi
Partibanur
Tiruchuli
Kariyapatti
Peraiyur
Uthamapalayam
Tirumangalam
Usilampatti
Andippatti
Melur
Alagarkovil
Vadipattí
Periyakulam
Nilakkottai
Kodaikkanal
Chinnalapatti
Sanarpatti
Tovarankurichchi
Togamalai
Aravakkurichchi
Dharapuram
Pollachi
Udumalaippettai
Vedasandur
Oddanchatram
Palani
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Malampuzha
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Tirumangalam
Usilampatti
Andippatti
Melur
Alagarkovil
Vadipattí
Periyakulam
Nilakkottai
Kodaikkanal
Chinnalapatti
Sanarpatti

KEY PLAN



173

PLATE NO:I-D

DATE OF SURVEY:03.05.2025

APPLICANT:

THIRU R.VINOTH,
NO:44/4,SUBBRAMANIYAR KOVIL STREET,
TITTAKUDI,
CUDDALORE - 606 106.

QUARRY LEASE APPLIED AREA:

S.F.NOs : 10/1 (BLOCK-8),
EXTENT : 1.20.0Ha,
VILLAGE :PADALUR EAST,
TALUK : ALATHUR,
DISTRICT : PERAMBALUR.

INDEX

Q.L.APPLIED AREA
NATIONAL HIGHWAY
APPROACH ROAD
HABITATIONS

KEY PLAN

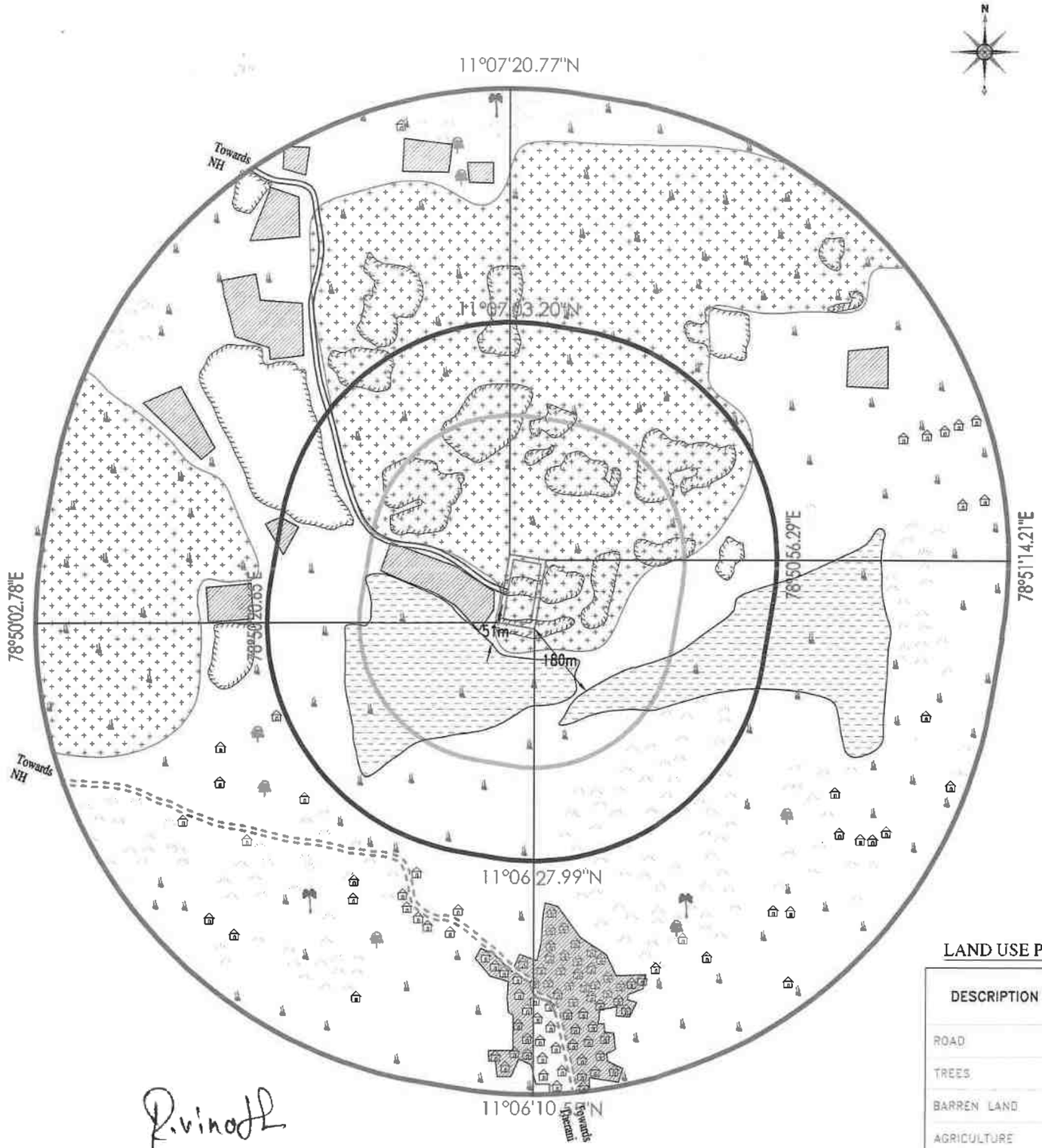
Not To Scale

PREPARED BY :

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

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

DIRECTOR OF GEOLOGY AND MINING



R.vinoth

PLATE NO-IA

DATE OF SURVEY :03.05.2025

APPLICANT:

THIRU R.VINOTH,
NO:44/4,SUBBRAMANIYAR KOVIL STREET,
TITTAKUDI,
CUDDALORE - 606 106.

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

QUARRY LEASE APPLIED AREA:

S.F.NOs : 10/1 (BLOCK-8),
EXTENT : 1.20.0Ha,
VILLAGE :PADALUR EAST,
TALUK : ALATHUR,
DISTRICT : PERAMBALUR.

INDEX

TOPO SHEET NO : 58 I /16

LATITUDE :11°06'43.18"N to 11°06'48.42"N

LONGITUDE:78°50'36.79"E to 78°50'40.18"E

Q.L.APPLIED AREA	
10m SAFETY	
300M RADIUS	
500M RADIUS	
1KM RADIUS	
APPROACH ROAD	
PANCHAYAT ROAD	
BARREN LAND	
AGRICULTURAL LAND	
TREES	
QUARRY PIT	
HABITATION	
HILLOCK	
TANK	
CRUSHER PLANT	

LAND USE PATTERN

DESCRIPTION	AREA IN (%)
ROAD	08
TREES	05
BARREN LAND	19
AGRICULTURE	15
HABITATIONS	03
WATER BODIES	15
HILLOCK	35

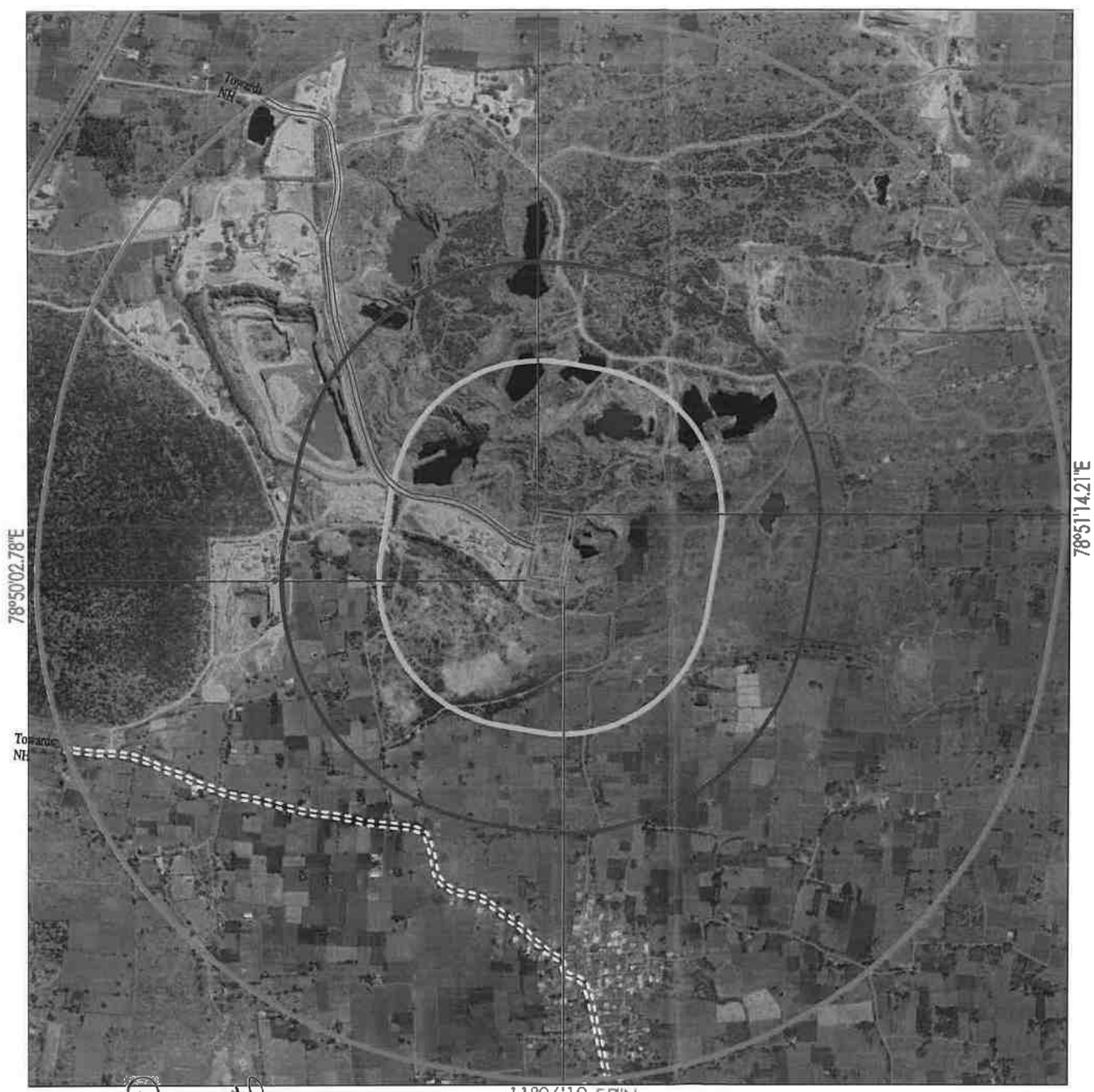
ENVIRONMENTAL PLAN

SCALE 1 : 10,000

PREPARED BY :

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



ASST. DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

PLATE NO-IB
DATE OF SURVEY : 03.05.2025

APPLICANT:
THIRU R.VINOTH,
NO:44/4,SUBBRAMANIYAR KOVIL STREET,
TITTAKUDI,
CUDDALORE - 606 106.

QUARRY LEASE APPLIED AREA:
S.F.NOs : 10/1 (BLOCK-8),
EXTENT : 1.20.0Ha,
VILLAGE : PADALUR EAST,
TALUK : ALATHUR,
DISTRICT : PERAMBALUR.

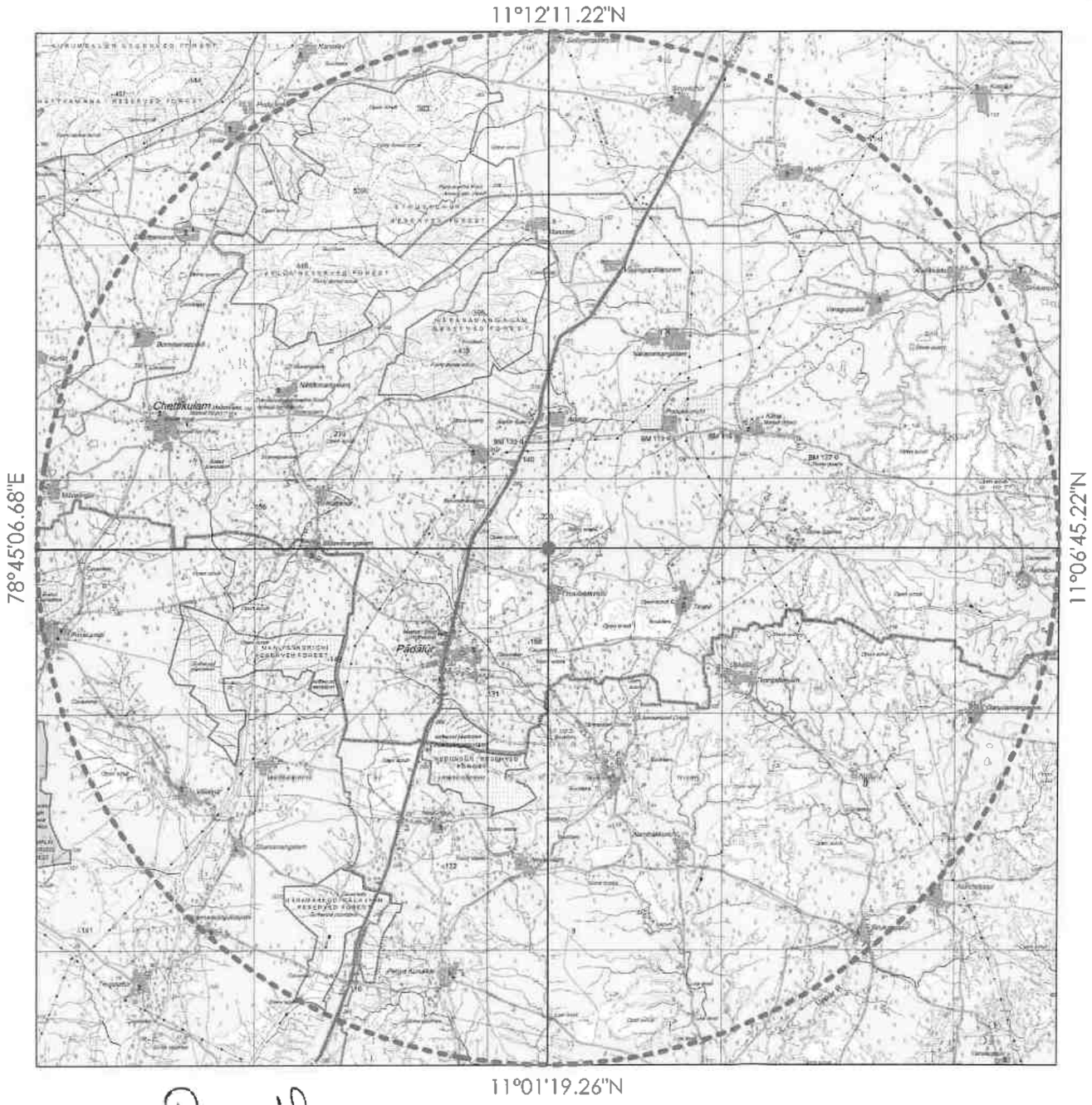
INDEX
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LATITUDE :11°06'43.18"N to 11°06'48.42"N
LONGITUDE:78°50'36.79"E to 78°50'40.18"E

Q.L.APPLIED AREA
10m SAFETY
300M RADIUS
500M RADIUS
1KM RADIUS
APPROACH ROAD
PANCHAYAT ROAD

SATELLITE IMAGERY MAP
SCALE 1 : 10,000

PREPARED BY :
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C.NATARAJAN M.Sc.,M.Phil.,
QUALIFIED PERSON



R.vinoth

PLATE NO-I C

DATE OF SURVEY :03.05.2025

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

APPLICANT:

THIRU R.VINOTH,
NO:44/4,SUBBRAMANIYAR KOVIL STREET,
TITTAKUDI,
CUDDALORE - 606 106.

QUARRY LEASE APPLIED AREA:

S.F.NOs : 10/1 (BLOCK-8),
EXTENT : 1.20.0Ha,
VILLAGE :PADALUR EAST,
TALUK : ALATHUR,
DISTRICT : PERAMBALUR.

INDEX

TOPO SHEET NO : 58 I /16

LATITUDE :11°06'43.18"N to 11°06'48.42"N

LONGITUDE:78°50'36.79"E to 78°50'40.18"E

Q.L.APPLIED AREA

10KM RADIUS



TOPO SKETCH OF QUARRY

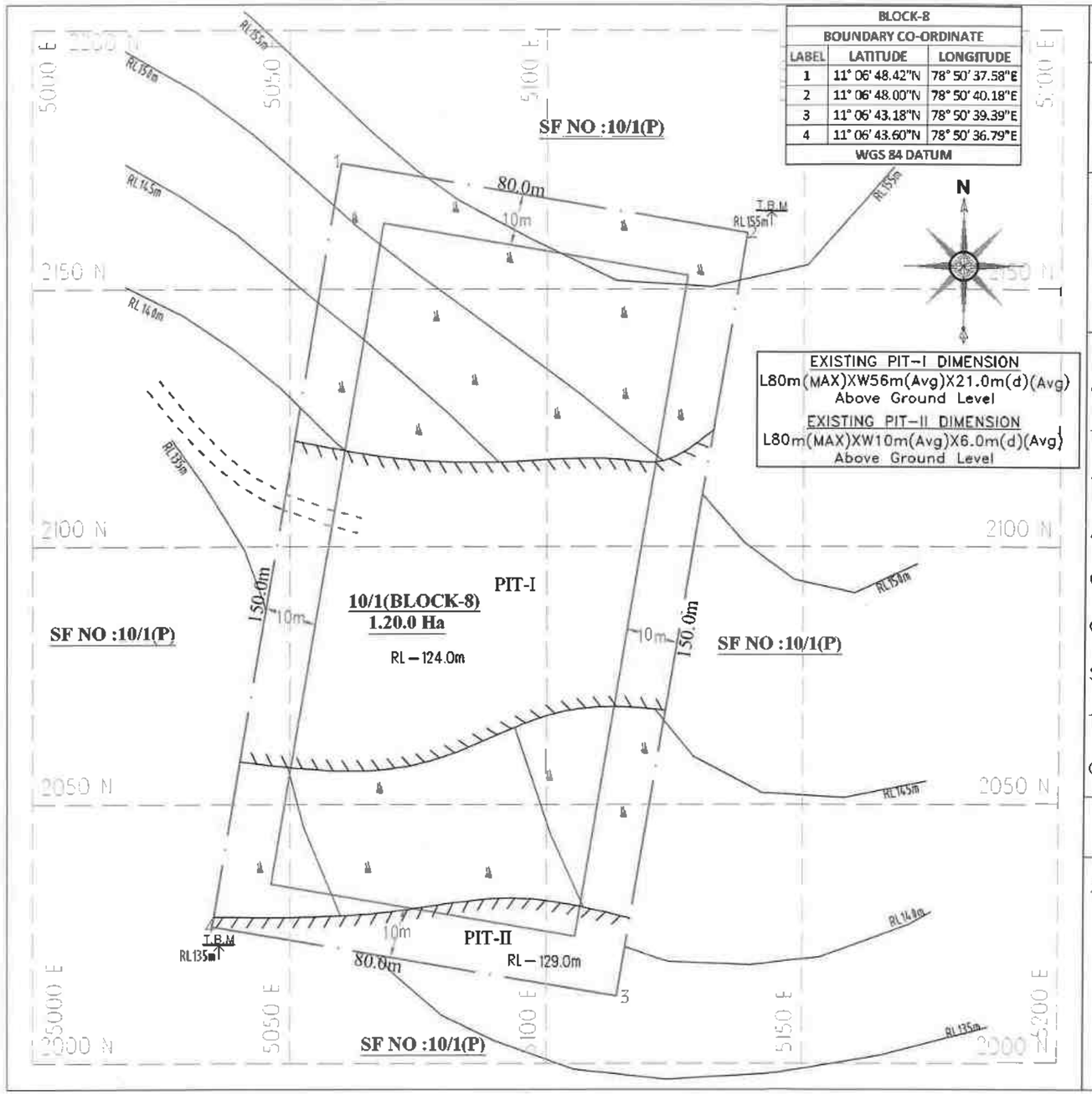
LEASE APPLIED AREA FOR 10Km RADIUS

SCALE– 1:100000

PREPARED BY:

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



BLOCK-8		
BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
1	11° 06' 48.42"N	78° 50' 37.58"E
2	11° 06' 48.00"N	78° 50' 40.18"E
3	11° 06' 43.18"N	78° 50' 39.39"E
4	11° 06' 43.60"N	78° 50' 36.79"E
WGS 84 DATUM		

EXISTING PIT–I DIMENSION
L80m(MAX)XW56m(Avg)X21.0m(d)(Avg)
Above Ground Level

EXISTING PIT–II DIMENSION
L80m(MAX)XW10m(Avg)X6.0m(d)(Avg)
Above Ground Level

PLATE NO-II

DATE OF SURVEY :03.05.2025

APPLICANT:

THIRU R.VINOTH,
NO:44/4,SUBBRAMANIYAR KOVIL STREET,
TITTAKUDI,
CUDDALORE - 606 106.

QUARRY LEASE APPLIED AREA:

S.F.NO : 10/1 (BLOCK-8),
EXTENT : 1.20.0Ha,
VILLAGE :PADALUR EAST,
TALUK : ALATHUR,
DISTRICT : PERAMBALUR.

INDEX

- Q.LEASE APPLIED BOUNDARY
- 10m SAFETY DISTANCE
- TEMPORARY BENCH MARK
- APPROACH ROAD
- QUARRY ROAD
- CONTOUR
- SCRUB
- TOP SOIL
- QUARRY PIT

QUARRY LEASE & SURFACE PLAN

SCALE 1: 1000

PREPARED BY:

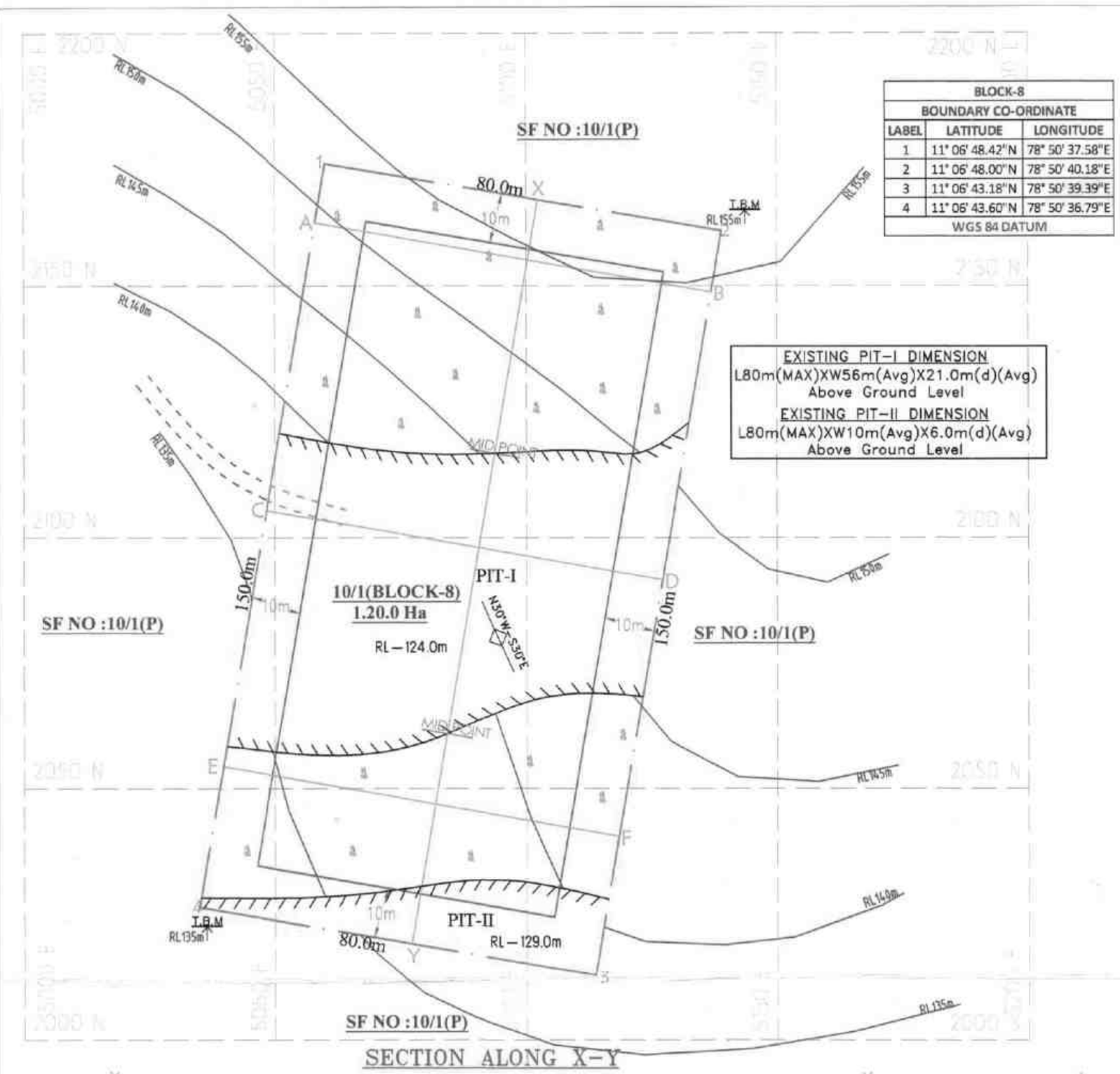
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C.NATARAJAN.M.Sc,M.Phil.,
QUALIFIED PERSON

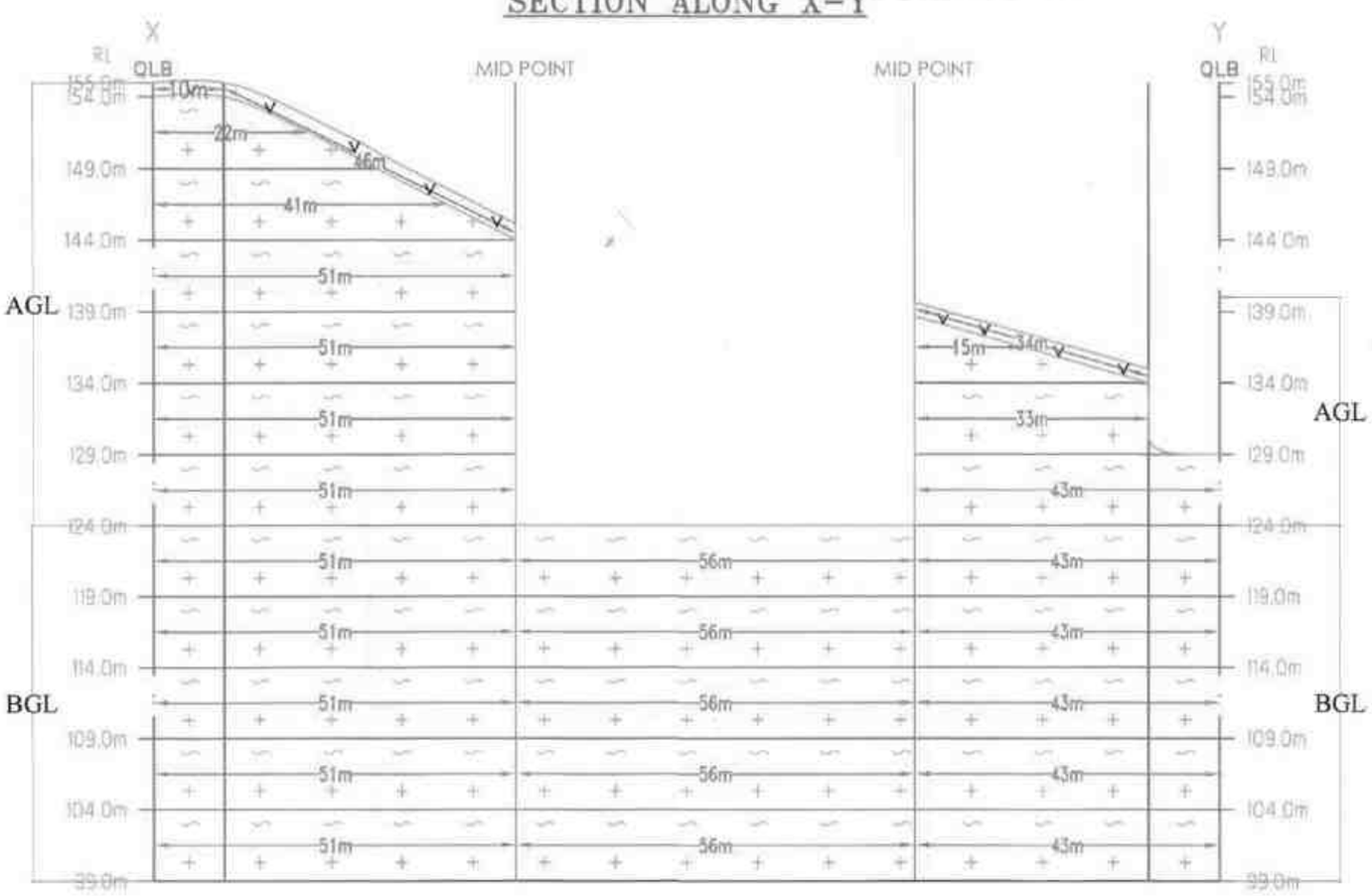
R.vinoth

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

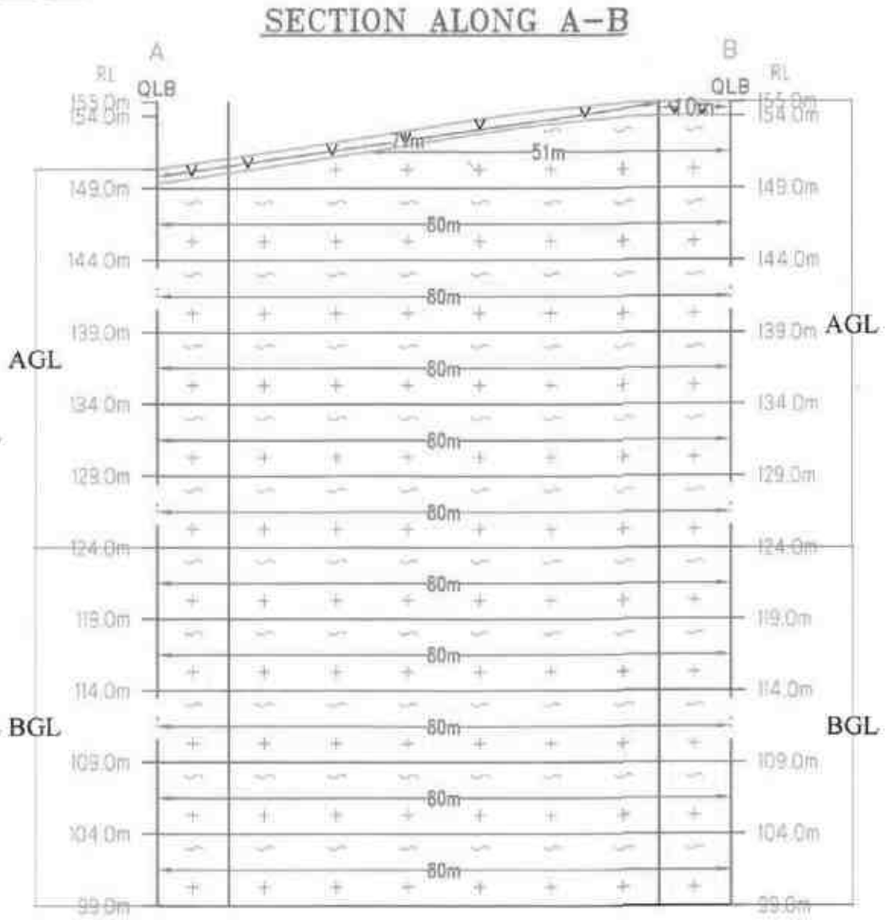
BLOCK-8		
BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
1	11° 06' 48.42"N	78° 50' 37.58"E
2	11° 06' 48.00"N	78° 50' 40.18"E
3	11° 06' 43.18"N	78° 50' 39.39"E
4	11° 06' 43.60"N	78° 50' 36.79"E
WGS 84 DATUM		



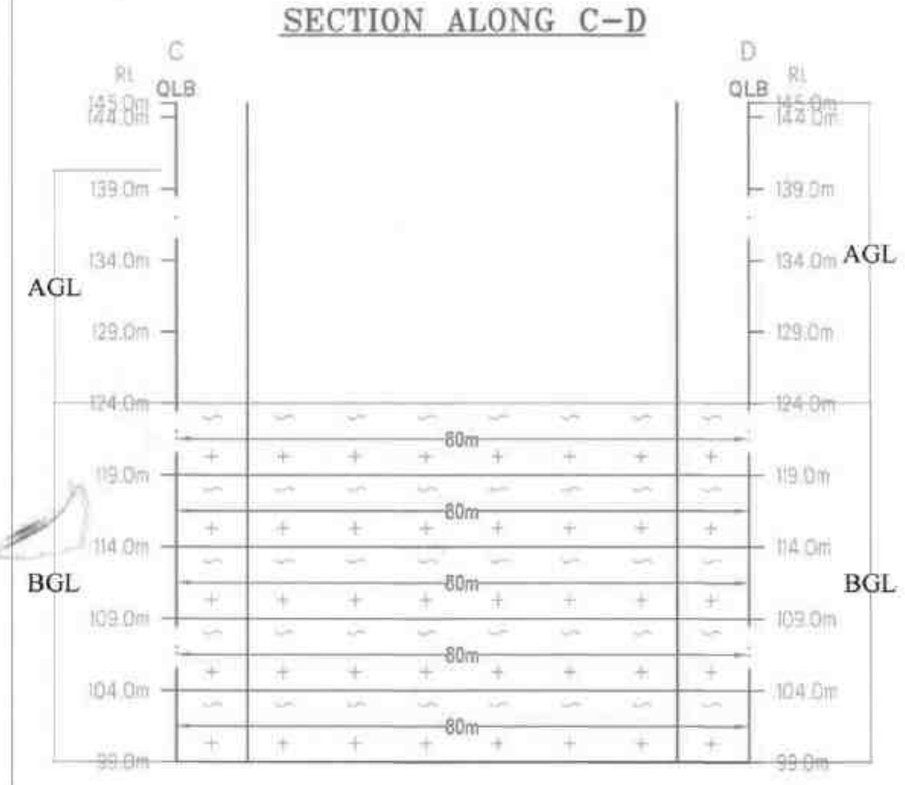
SECTION ALONG X–Y



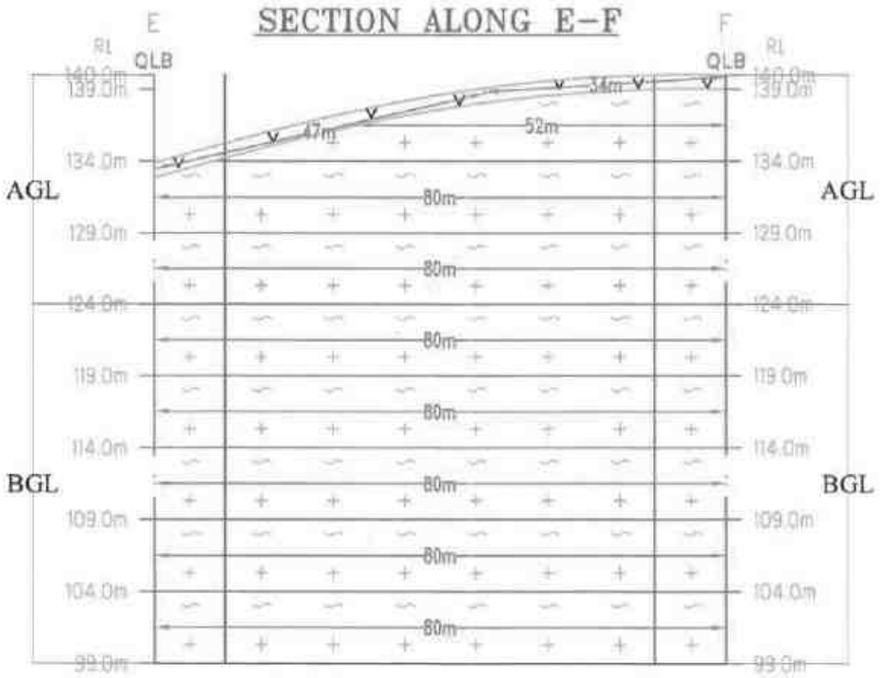
SECTION ALONG A–B



SECTION ALONG C–D



SECTION ALONG E–F



AGL-ABOVE GROUND LEVEL
BGL- BELOW GROUND LEVEL

PLATE NO-
DATE OF SURV

APPLICANT
THIRU R.VINOT
NO:44/4,SUBBR
TITTAKUDI,
CUDDALORE – 6

QUARRY L

S.F.NO : 10/1
EXTENT : 1.20
VILLAGE :PAD
TALUK : ALA
DISTRICT : PER

PROPOSED QU

10m SAFETY D

TEMPORARY

APPROACH R

QUARRY ROA

CONTOUR

SCRUB

TOP SOIL

ROUGH STON

STRIKE&DIP

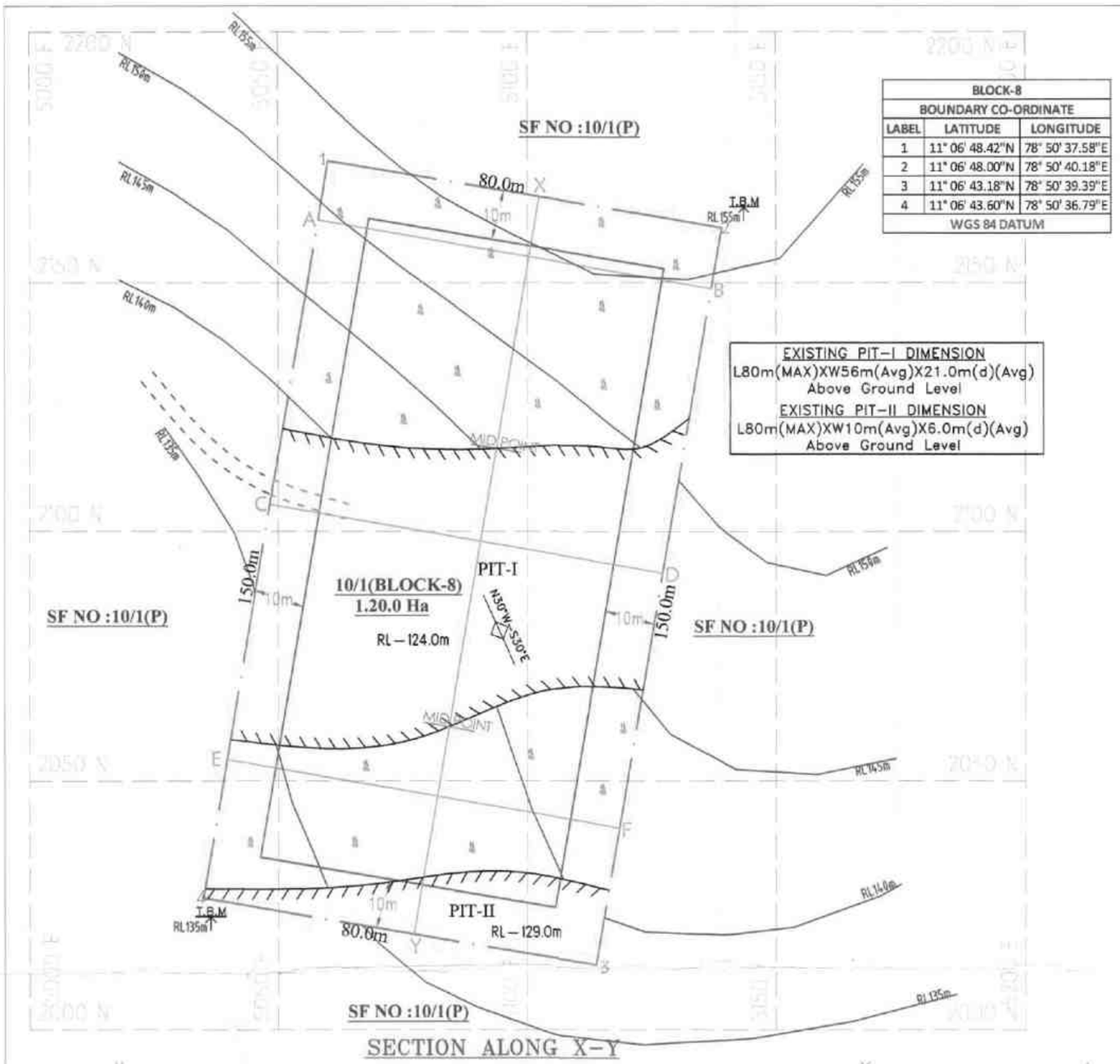
QUARRY PIT

TOPO

SECTION

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C.N.



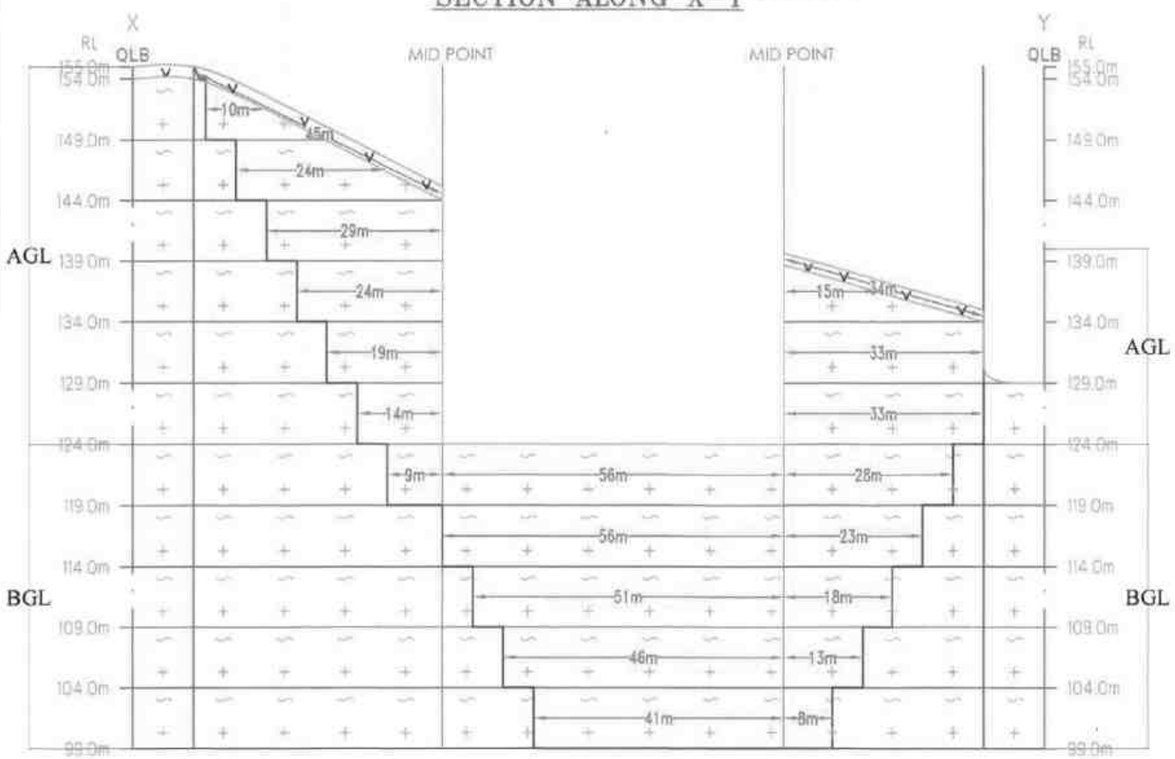
BLOCK-8		
BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
1	11° 06' 48.42"N	78° 50' 37.58"E
2	11° 06' 48.00"N	78° 50' 40.18"E
3	11° 06' 43.18"N	78° 50' 39.39"E
4	11° 06' 43.60"N	78° 50' 36.79"E
WGS 84 DATUM		

EXISTING PIT–I DIMENSION
L80m(MAX)XW56m(Avg)X21.0m(d)(Avg)
Above Ground Level

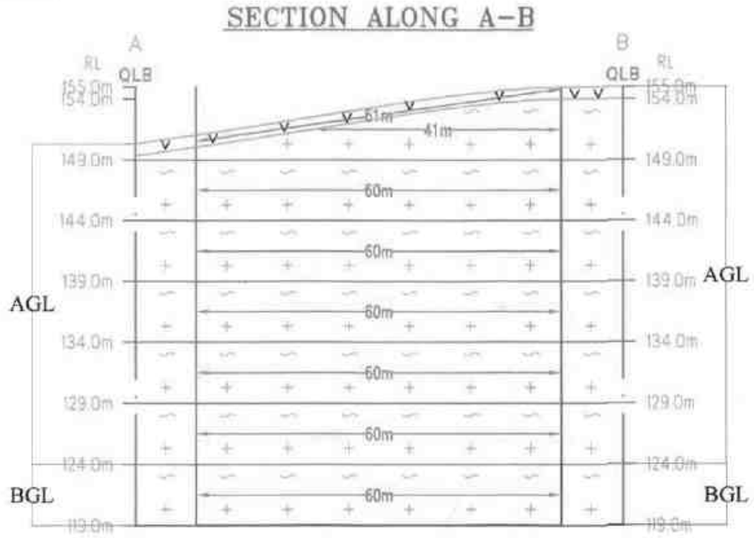
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L80m(MAX)XW10m(Avg)X6.0m(d)(Avg)
Above Ground Level

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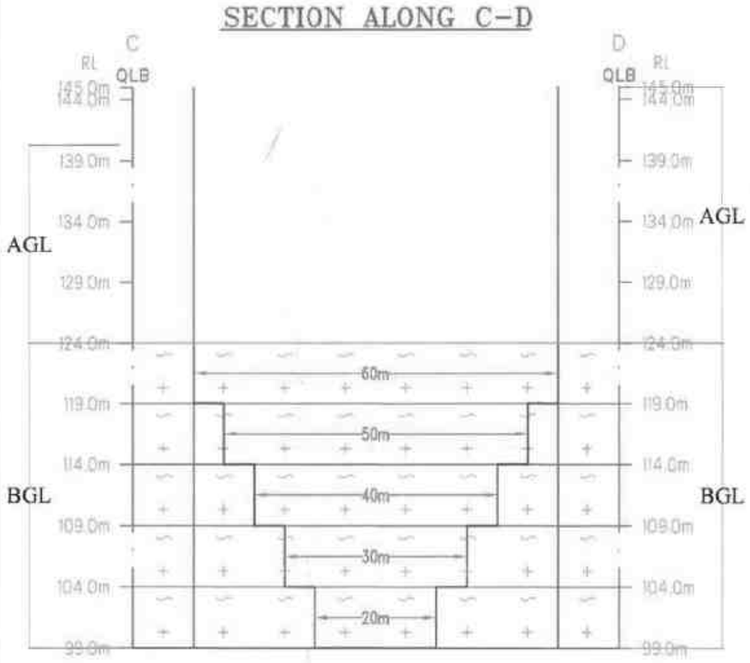
SECTION ALONG X–Y



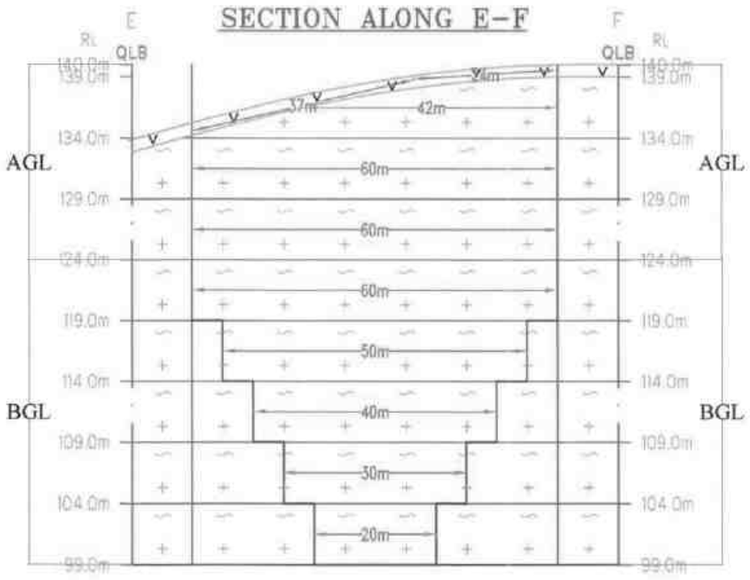
SECTION ALONG A–B



SECTION ALONG C–D



SECTION ALONG E–F



AGL-ABOVE GROUND LEVEL
BGL- BELOW GROUND LEVEL

PLATE NO-IV
DATE OF SURVEY :03.05.2025

APPLICANT:
THIRU R.VINOTH,
NO:44/4,SUBBRAMANIYA KOVIL STREET,
TITTAKUDI,
CUDDALORE - 606 106.

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

QUARRY LEASE APPLIED AREA:

S.F.NO : 10/1 (BLOCK-8).
EXTENT : 1.20.0Ha.
VILLAGE :PADALUR EAST,
TALUK : ALATHUR,
DISTRICT : PERAMBALUR.

INDEX

- PROPOSED QUARRY LEASE BOUNDARY
- 10m SAFETY DISTANCE
- TEMPORARY BENCH MARK (T.B.M)
- APPROACH ROAD
- QUARRY ROAD
- CONTOUR
- SCRUB
- TOP SOIL
- ROUGH STONE
- STRIKE&DIP
- QUARRY PIT

MINEABLE PLAN & SECTIONS

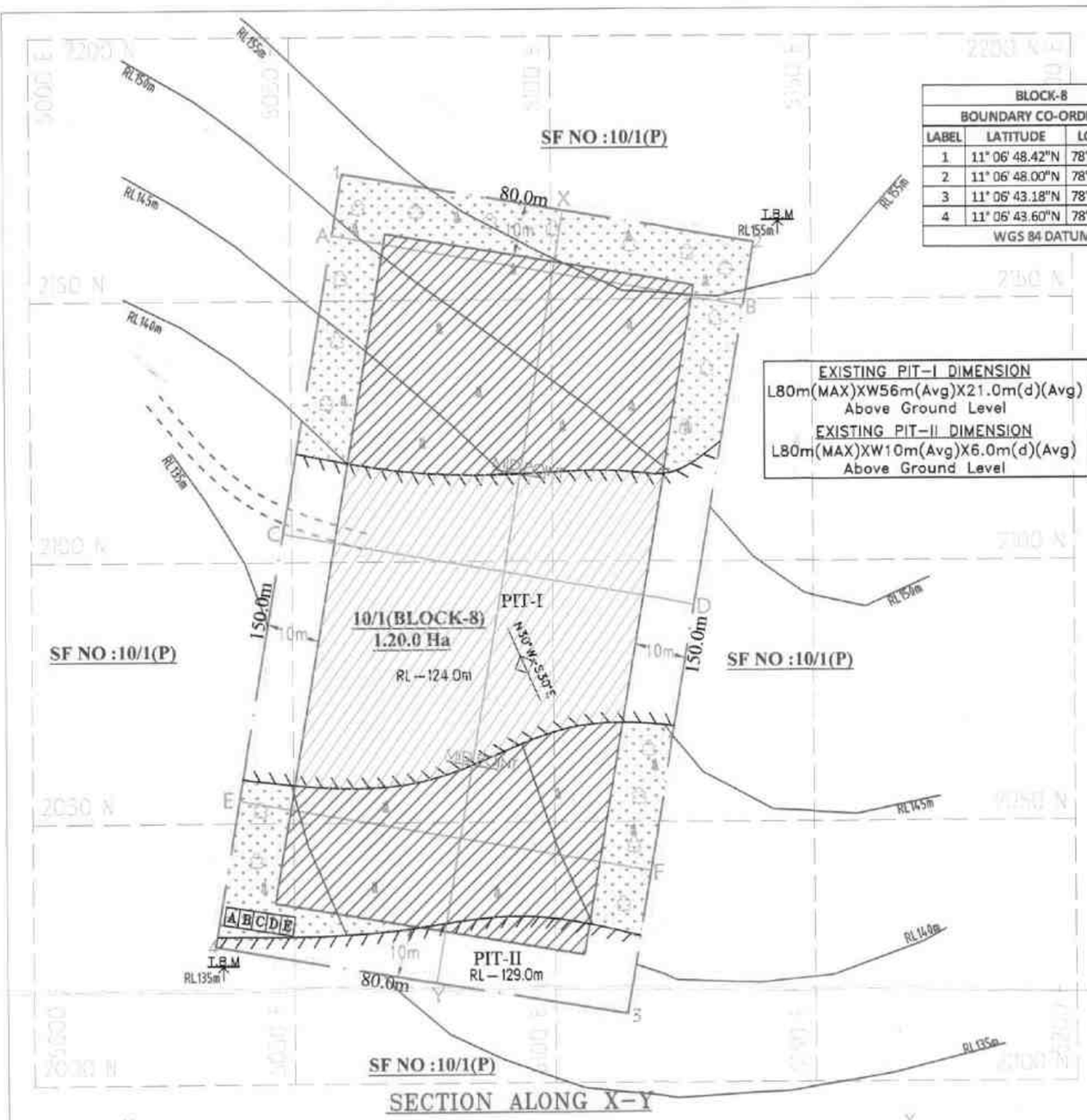
SCALE 1 : 1000
SECTIONS HOR 1:1000, VER 1:500

R.vinoth

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



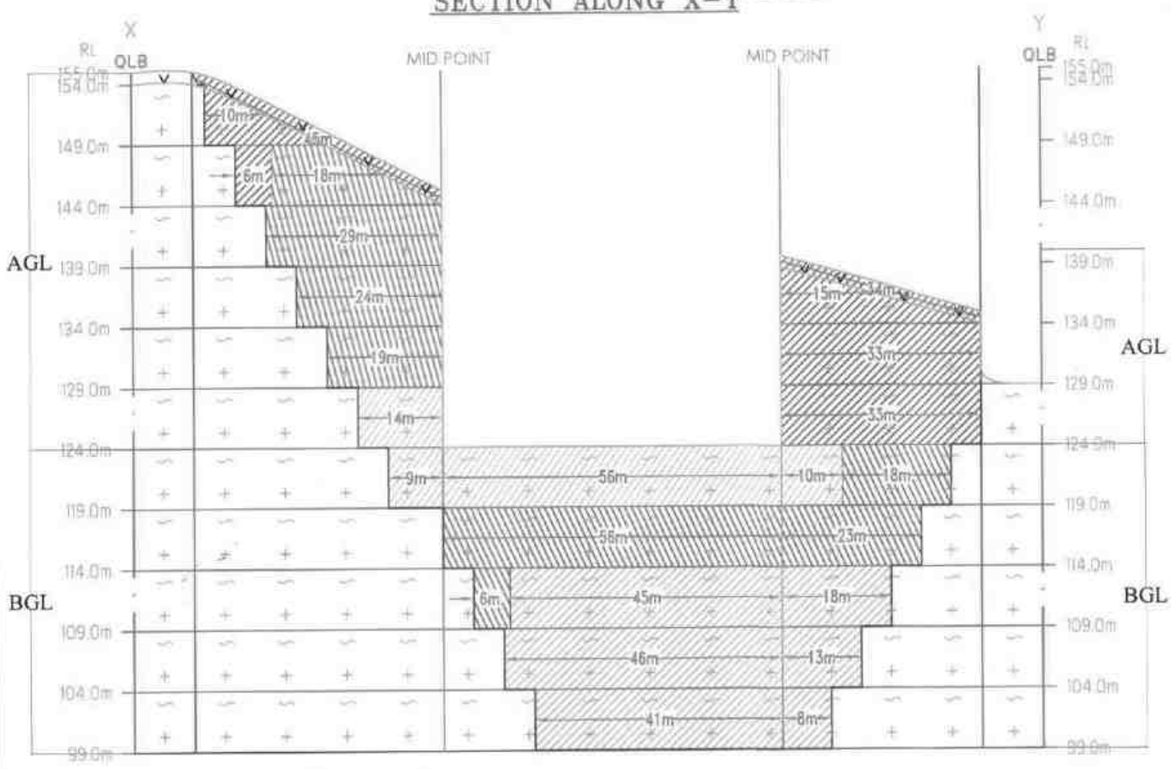
BLOCK-8		
BOUNDARY CO-ORDINATE		
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WGS 84 DATUM		

EXISTING PIT–I DIMENSION
L80m(MAX)XW56m(Avg)X21.0m(d)(Avg)
Above Ground Level

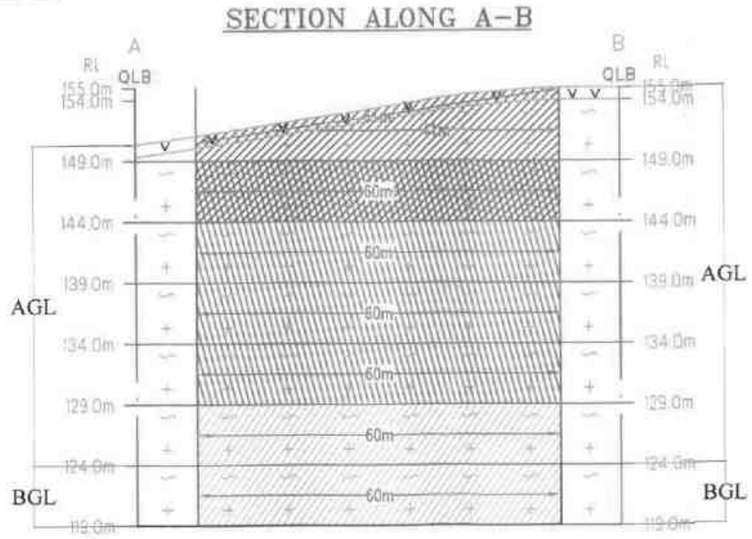
EXISTING PIT–II DIMENSION
L80m(MAX)XW10m(Avg)X6.0m(d)(Avg)
Above Ground Level

N

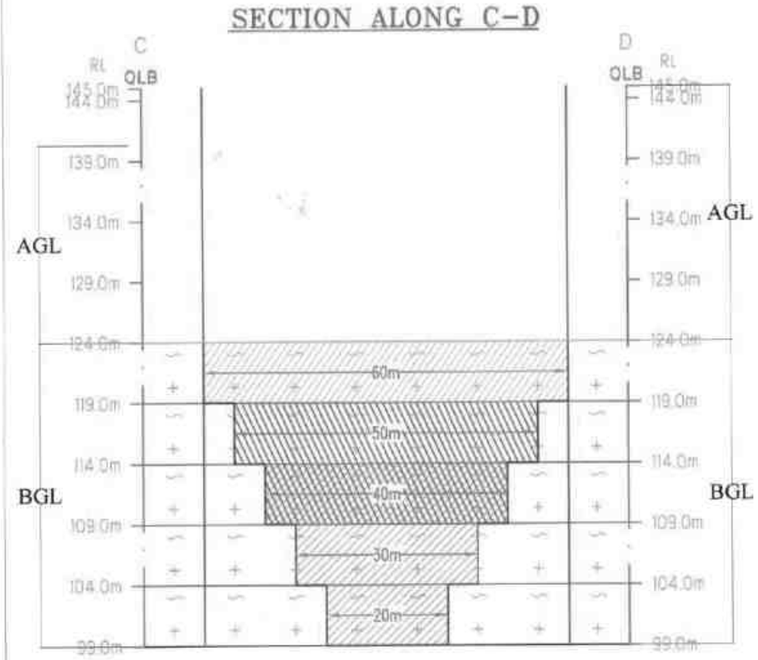
SECTION ALONG X–Y



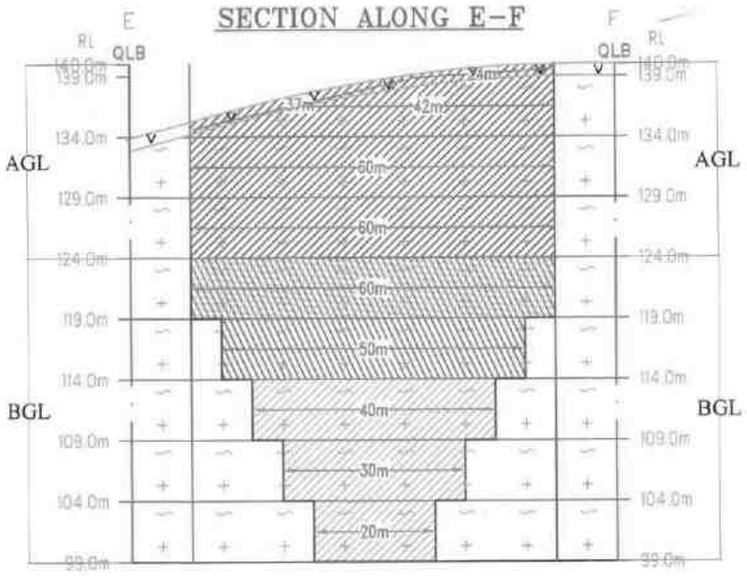
SECTION ALONG A–B



SECTION ALONG C–D



SECTION ALONG E–F



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

Proposed area to be Planted

1st 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

PRESENT & POST LAND USE PATTERN

DESCRIPTION	PRESENT AREA (Ha)	AREA AT THE END OF THIS QUARRYING PERIOD (Ha)
AREA UNDER QUARRYING	0.53.0	0.95.2
INFRASTRUCTURE	NIl	0.01.0
ROADS	0.01.0	0.01.0
GREEN BELT	NIl	0.22.8
UN–UTILIZED AREA	1.20.0	NIl
GRAND TOTAL	1.20.0	1.20.0

AGL-ABOVE GROUND LEVEL
BGL- BELOW GROUND LEVEL

R.vinoth

PLATE NO-V
DATE OF SURVEY :03.05.2015

APPLICANT:
THIRU R.VINOTH,
NO:44/4,SUBBRAMANIYAR KOVIL STREET,
TITTAKUDI,
CUDDALORE – 606 106.

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

QUARRY LEASE APPLIED AREA:

S.F.NO : 10/1 (BLOCK-8),
EXTENT : 1.20.0Ha,
VILLAGE :PADALUR EAST,
TALUK : ALATHUR,
DISTRICT : PERAMBALUR.

INDEX

- PROPOSED QUARRY LEASE BOUNDARY
- 10m SAFETY DISTANCE
- TEMPORARY BENCH MARK (T.B.M)
- APPROACH ROAD
- QUARRY ROAD
- CONTOUR
- SCRUB
- TOP SOIL
- ROUGH STONE
- STRIKE&DIP
- QUARRY PIT

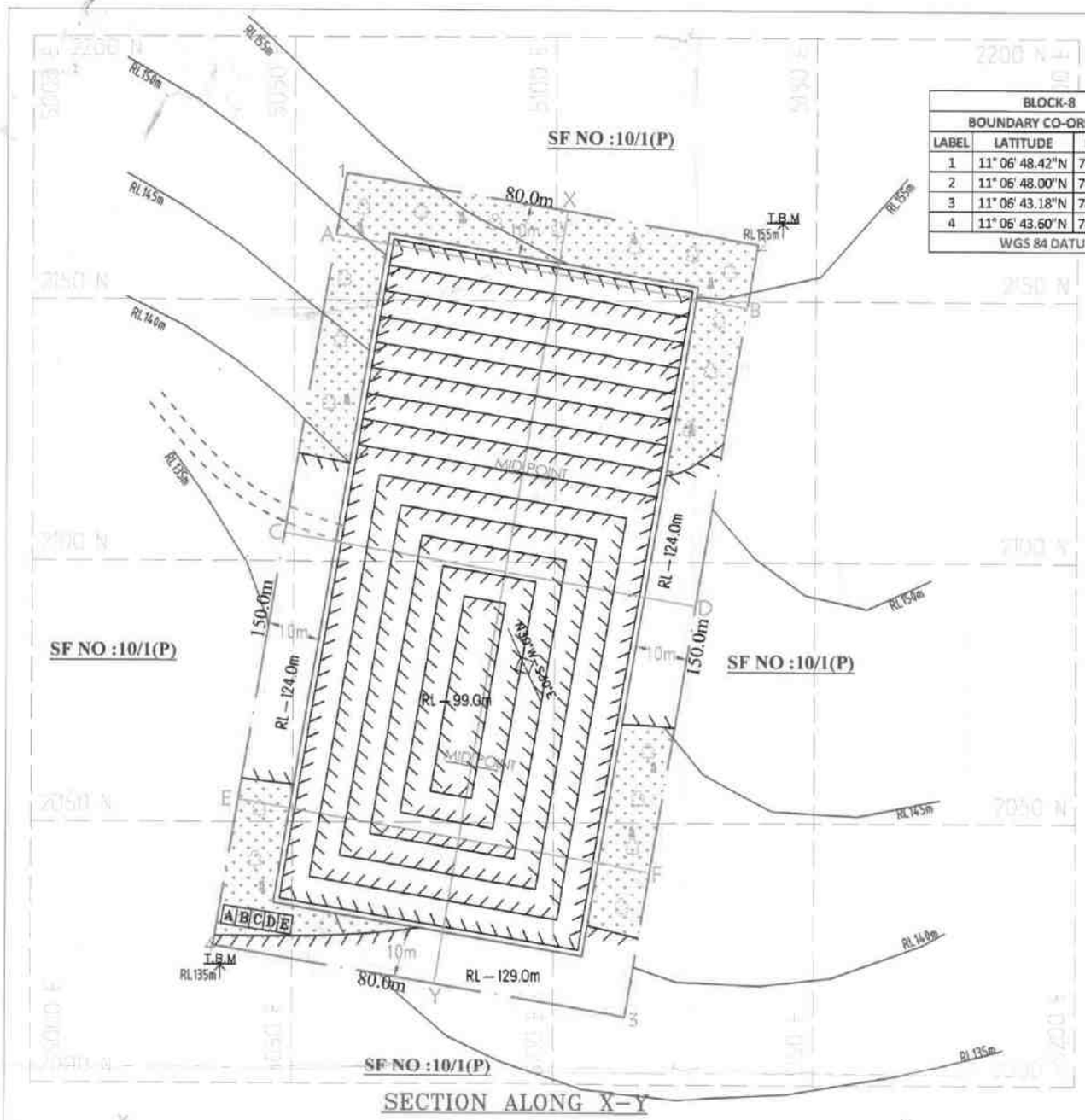
YEARWISE DEVELOPMENT & PRODUCTION PLAN & SECTION
SCALE 1 : 1000
SECTION HOR 1 : 1000, VER 1: 500

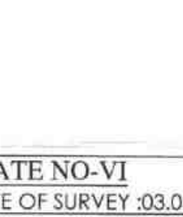
PREPARED BY:

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

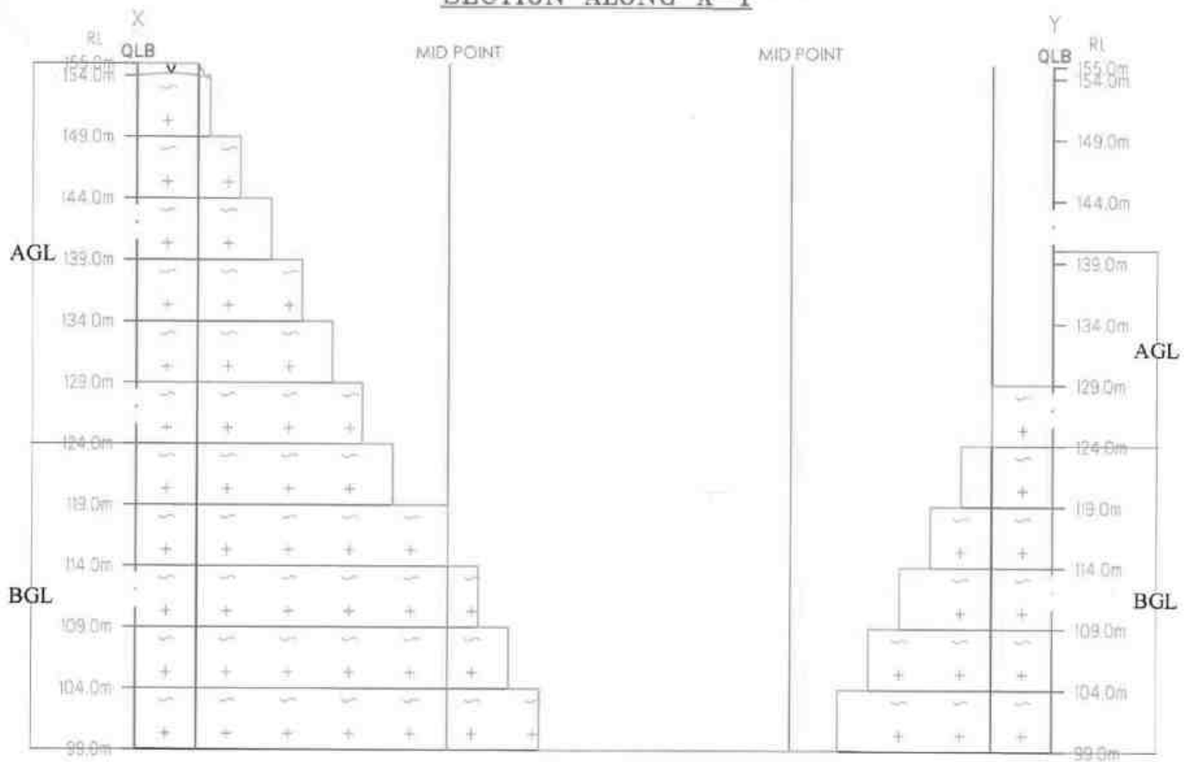
C.NATARAJAN,M.Sc,M.Phil.
QUALIFIED PERSON

BLOCK-8		
BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
1	11° 06' 48.42"N	78° 50' 37.58"E
2	11° 06' 48.00"N	78° 50' 40.18"E
3	11° 06' 43.18"N	78° 50' 39.39"E
4	11° 06' 43.60"N	78° 50' 36.79"E
WGS 84 DATUM		

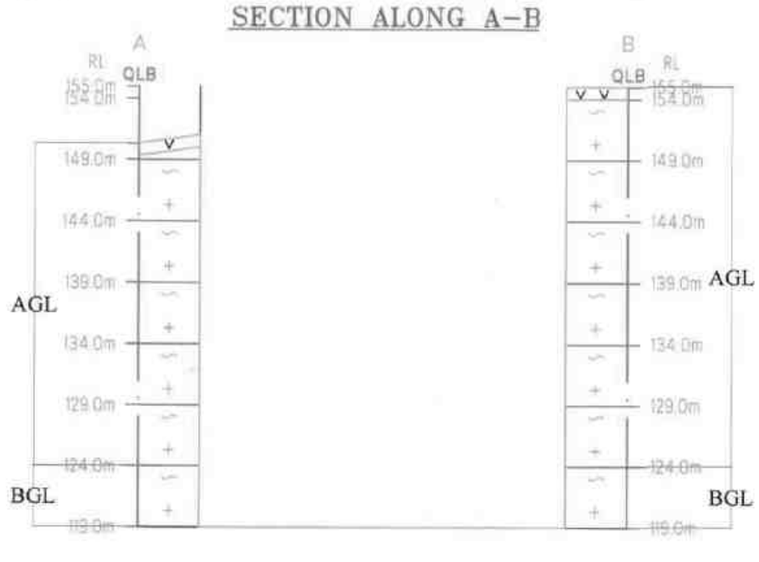




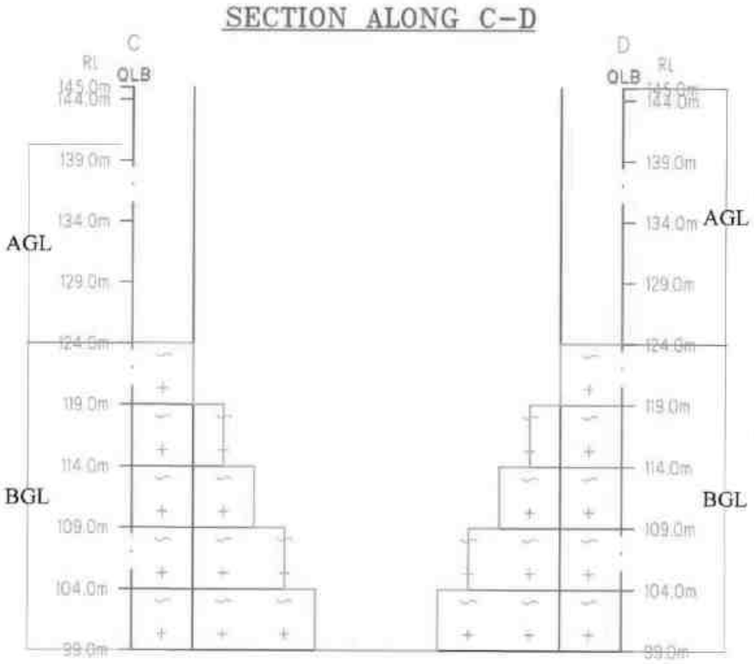
SECTION ALONG X–Y



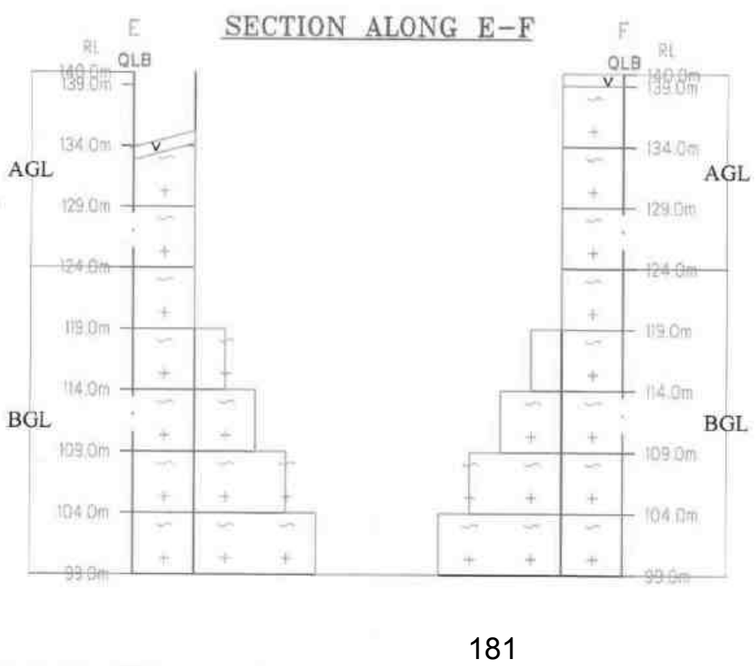
SECTION ALONG A–B



SECTION ALONG C–D



SECTION ALONG E–F



PROPOSED SITE SERVICES

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

Proposed area to be Planted

ULTIMATE PIT DIMENSION OF END OF THE QUARRY LEASE PERIOD

L140m(MAX)XW68m(Avg)X56m(d)(Max)
31 Above Ground level
25 Below Ground level

AGL-ABOVE GROUND LEVEL
BGL- BELOW GROUND LEVEL

PLATE NO-VI

DATE OF SURVEY :03.05.2025

APPLICANT:

THIRU R.VINOTH,
NO:44/4,SUBBRAMANIYAR KOVIL STREET,
TITTAKUDI,
CUDDALORE - 606 106.

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

QUARRY LEASE APPLIED AREA:

S.F.NO : 10/1 (BLOCK-8),
EXTENT : 1.20.0Ha,
VILLAGE :PADALUR EAST,
TALUK : ALATHUR,
DISTRICT : PERAMBALUR.

INDEX

PROPOSED QUARRY LEASE BOUNDARY	
10m SAFETY DISTANCE	
TEMPORARY BENCH MARK	TBM
APPROACH ROAD	
QUARRY ROAD	
CONTOUR	
SCRUB	
TOP SOIL	
ROUGH STONE	
STRIKE&DIP	
PROPOSED QUARRY PIT	

CONCEPTUAL PLAN & SECTION

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

PREPARED BY:

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

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

ANNEXURE-4

From

Thiru D.Bernard, M.Sc.,
Assistant Director,
Dept of Geology and Mining,
Perambalur.

To

Thiru.Vinoth R
44/4 Subbramaniyar Kovil street,
Tittakudi
Cuddalore District-606 106.

Rc.No.130/G&M/2025, Dated: 30 .05.2025

Sub: Mines and Minerals - Perambalur District – Rough Stone - e-Tender cum auction conducted for Roughstone quarries in Government lands - Thiru. R .Vinoth quoted highest Bid amount (H1) For the quarry in S.F.No.10/1 (Block 8), OAE of 1.20.0 hectares in Padalur(East) Village, Alathur Taluk – Declared as H1 bidder – H1 Bid Amount remitted – Precise Area Communicated – Draft Mining Plan submitted for approval -Details of quarries situated within 500 mts radial distance requested – furnished - Reg.

Ref:
1. G.O.(Ms). No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024
2. Perambalur District Gazette(Extraordinary) Notification No.1, dated:18.02.2025.
3. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.120/G&M/2025, dated: 28.03.2025
4. The Assistant Director, Geology and Mining, Perambalur Precise Area Communication letter Rc.No.130/G&M/2025, dated 02.05.2025.
5. Thiru. R .Vinoth, letter dated.05.05.2025.

******

The applicant Thiru.R.Vinoth, Perambalur in the reference 5th cited has requested to provide the details of quarries situated within 500 mts radius distance from the proposed lease area.

Hence the details of existing quarries situated within 500 mts radial distance from the subject area are furnished as follows,

1)Existing quarries:

Sl. No	Name of the Owner	Taluk / Village	S.F.Nos.	Extent	GO. No	Lease Period	Remarks
1.	Nil						

R.vinoth

2)Proposed quarries:

Sl. No	Name of the Owner	Taluk / Village	S.F.Nos.	Extent	Lease Period	Remarks
1	Thiru.Vinoth R 44/4 Subbramaniyar Kovil street, Tittakudi, Cuddalore District-606 106.	Alathur/ Padalur (East)	10/1 (Block 8)	1.20.0	-	Instant Proposal
2	Thiru. R.Rajkumar S/o. Rajaram, No.4C, 4th floor, Sivam Sri Madhav, Kuttimani Nagar, Pichandar kovil, Trichy-621 216.	Alathur/ Padalur (East)	10/1 (Block 1)	1.50.0	-	Presently proposed
3	Thiru.Hariharan. L No. 9, Dhanalakshmi Street Postal Nagar, Nemilicheri Chrompet, Kancheepuram District – 600 044.	Alathur/ Padalur (East)	10/1 (Block 2)	1.40.6	-	Presently proposed
4	Thiru.P.Velmurugan No.1, Royal mahalakshmi Nagar, Virudhachalam, Cuddalore -606 001.	Alathur/ Padalur (East)	10/1 (Block 3)	1.40.0	-	Presently proposed
5	M/s. Rajamalai Metals No. 3/350 H, Jeya Complex, Main Road, Padalur, Perambalur-621 109.	Alathur/ Padalur (East)	10/1 (Block 4)	1.40.0	-	Presently proposed
6	M/s.SR Mines and Minerals Flat No.2/1, Room No.4,Ramanujam Building,V.N Nagar, Karur Bibass Road, Trichy-620002.	Alathur/ Padalur (East)	10/1 (Block 6)	2.20.0	-	Presently proposed
7	Thiru.M.Thangaraj S/o. Maran, No.158/34A, Abiramapuram west, Collector Office Road, Perambalur -621 212.	Alathur/ Padalur (East)	10/1 (Block 5)	2.10.0	-	Presently proposed
8	M/s.Mars Mines No.24/7, Padalur East, Alathur Taluk, Perambalur -621 109.	Alathur/ Padalur (East)	10/1 (Block 7)	1.30.0	-	Presently proposed
9	M/s.Anjaneyaa Minerals No.3/379J, Ward -08, Main Road, Irur, Alathur Taluk, Perambalur District – 621 109.	Alathur/ Padalur (East)	10/1 (Block 9)	1.20.0	-	Presently proposed

R.vinoth

10	Thiru.P.Velmurugan No.1, Royal mahalakshmi Nagar, Virudhachalam, Cuddalore -606 001.	Alathur/ Padalur (East)	10/1 (Block 13)	1.00.0		Presently proposed

3) Expired quarries

Sl. No	Name of the Owner	Taluk / Village	S.F.Nos.	Extent	Lease Period	Remarks
1	Nil					

4) Abandoned quarries:

Sl. No	Name of the Owner	Taluk /Village	S.F.Nos.	Extent	Lease period	Remarks
1	B.Senthilkumar, S/o.P.Balagopal, 454,4th Cross Road, Shanmugam Nagar, Uiyakondam, Thirumalai, Trichirappalli.	Alathur / Padalur(E)	10/1 (Part)	1.00.0	12.04.2006 to 11.04.2016	Further grant of quarry lease is not feasible in these areas.
2	R.Sureshbabu, S/o.V.Rajagopal, No.244, Philomina Nagar, 3rd Street, Nanjikottai Road, Thanjavur.	Alathur / Padalur(E)	10/1 Block 17	1.00.0	23.05.2007 to 22.05.2017	
3	S.N.Vinoba, S/o. S.Nagarajan, 2/163, 2nd cross , Lakshmipuram, Ariyamangalam, Trichy-10	Alathur / Padalur(E)	10/1 Block 5	1.00.0	26.04.2007 to 25.04.2012	
4	M.Raja, S/o. Muthusamy, No.211/1, Mannarpillai Street, Srirangam, Trichy-6	Alathur / Padalur(E)	10/1 Block 3	1.00.0	07.06.2007 to 06.06.2012	
5	D.Raja chithambaram, S/o. Duraisamy, No.236, Reddiyar Street, Sirdevimangalam, Manachanallur Taluk, Trichy District.	Alathur / Padalur(E)	10/1 Block 6	1.00.0	11.05.2007 to 10.05.2012	
6	V.Panneerselvam, S/o.Veerasamy, South Street, Thennamanadu Post, Orathanadu Taluk, Thanjauoor District.	Alathur / Padalur(E)	10/1 ,Block 22	1.00.0	31.05.2011 to 30.05.2021	

Rvinoth

7	K.Mathiyalagan, S/o.Kanagasabi, State Bank Colony, Kumbakonam.	Alathur / Padalur(E)	10/1 Block 18	1.00.0	23.05.2007 to 22.05.2017	Further grant of quarry lease is not feasible in these areas.
8	M.Baskaran, S/o.MuthuRediyar Thiruvalakuruchi, Padalur (East) Village, AlathurTaluk, Perambalur District.	Alathur / Padalur(E)	4(1)(P),4(2)(P) 7(3)(P)	2.00.0	24.01.2018 to 23.01.2023	
9	V. Kamalasekar, S/o.Venkatachalam, No.2/14, Middle street, Naranamangalam Post, Kunnam Taluk, Perambalur District.	Alathur / Padalur(E)	47/1A	0.81.0	22.03.2010 to 21.03.2015	
10	M.Baskaran, S/o.MuthuRediyar Thiruvalakuruchi, Padalur (East) Village, AlathurTaluk, Perambalur District.	Alathur / Padalur(E)	4(1)(P),4(2)(P) 7(3)(P)	2.00.0	24.01.2018 to 23.01.2023	

20/05/25

Assistant Director,
Geology and Mining,
Perambalur.

30/5/25

Rivinoth

ANNEXURE-5

TOPOGRAPHICAL VIEW OF PADALUR (EAST)

ROUGH STONE QUARRY



NAME OF THE APPLICANT :		THIRU. R.VINOTH
EXTENT	:	1.20.0 Ha
S.F.NO	:	10/1 (BLOCK-8)
VILLAGE	:	PADALUR (EAST)
TALUK	:	ALATHUR
DISTRICT	:	PERAMBALUR
STATE	:	TAMIL NADU

18625

VAO SIGN & SEAL

கிராம நிர்வாக அலுவலர்
73 – பாடாளூர் (கிழக்கு),
ஆலத்தூர் வட்டம்,
பெரம்பலூர் மாவட்டம்.

Place: Padalur East

Date: 18.06.2025

R.vinoth

வெற்றிவேல் மகன், அன்பரசு வயது, பார்த்திபன் திருமண
நிகழ்வுக்கு அழைப்பிதழ் வழங்கி சான்று:

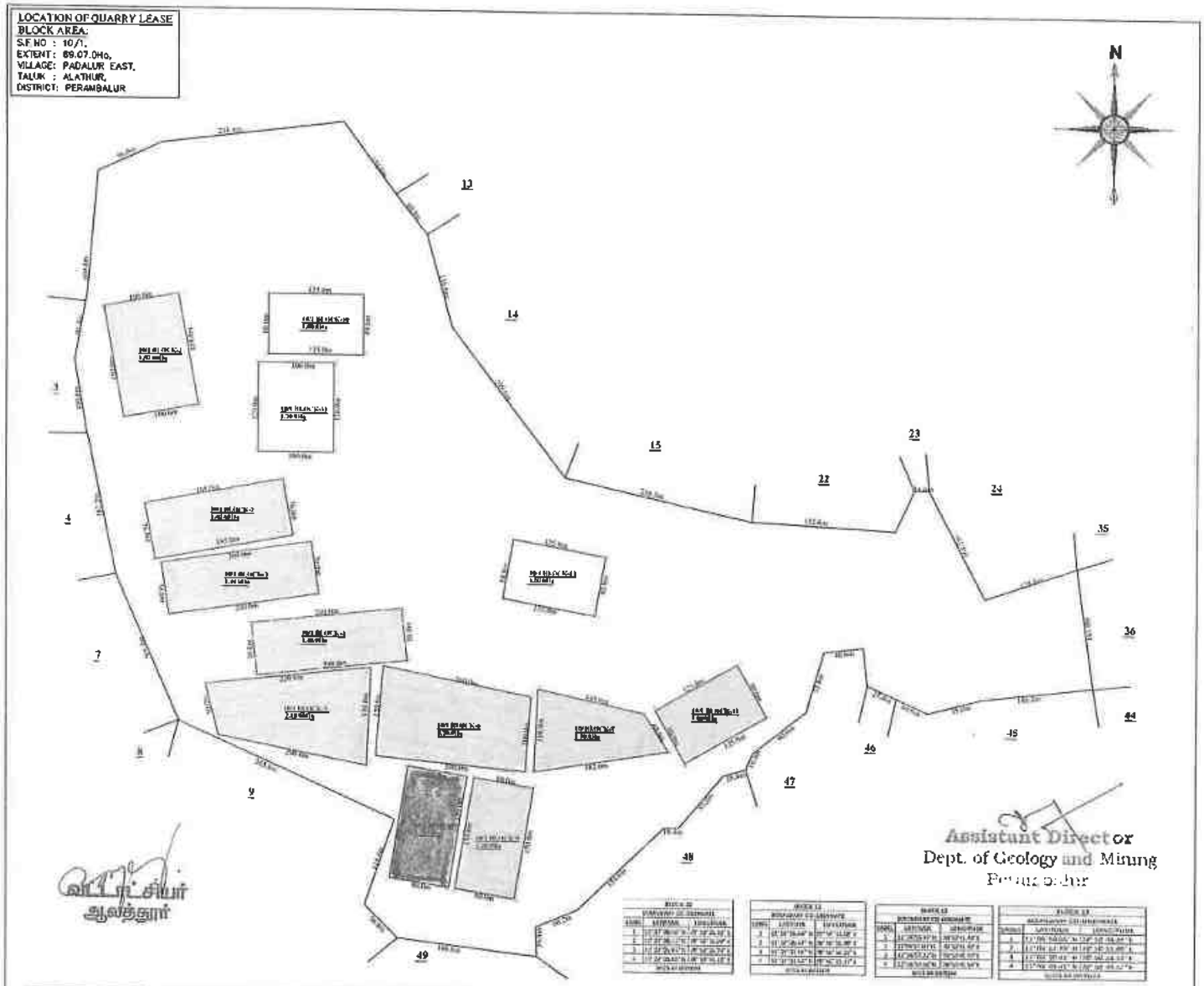
சுதந்திர மகன், திலீப்பு வயது,
அப்பாவு நகர், 44/4, சிற்றம்பலம் அவென்யு வழி
இராஜாஜி தெரு நடு மேல் வலமாக எல்லை,
அன்பரசு வயது, பார்த்திபன் திருமண நிகழ்வு எனும்
10/1 பார்வு 66.51.18 வெற்றிலை பாளம் 8 இல்
1.20.0 வெற்றிலை சுவடுகள் உள்ளம் வைத்துள்ளார்.
மேற்படி நபர் எனும் 10/1 இல் பாளம் 8 உ நிற்பதும்
300 பேர்கள் நிற்பதாகவும் தெரிவிப்பு மதிப்பு, புகைபிடித்தல்
திரையிடல், பாடல்கள், மொழுகு, மரண வீடு என்பதற்கு
சம்பந்தம் இல்லை என்பதும், மேலும் 50 பேர்கள் நிற்பதில்
ஆட்சேபனை இல்லை, திருமண மண்டபம் என்பதும்
நிபந்தனை ஏற்றுக்கொள்கிறது.

R. J. ஆர்.
17/12/25
கிராம நிர்வாக அலுவலர்
73 – பாடாலூர் (கிழக்கு),
ஆலத்தூர் வட்டம்,
பெரம்பலூர் மாவட்டம்.

R.vinoth

ANNEXURE-6

LOCATION OF QUARRY LEASE
BLOCK AREA:
S.F.NO : 10/1,
EXTENT : 89.07.0Hs,
VILLAGE: PADALUR EAST,
TALUK : ALATHUR,
DISTRICT: PERAMBALUR



LEASE APPLIED AREA

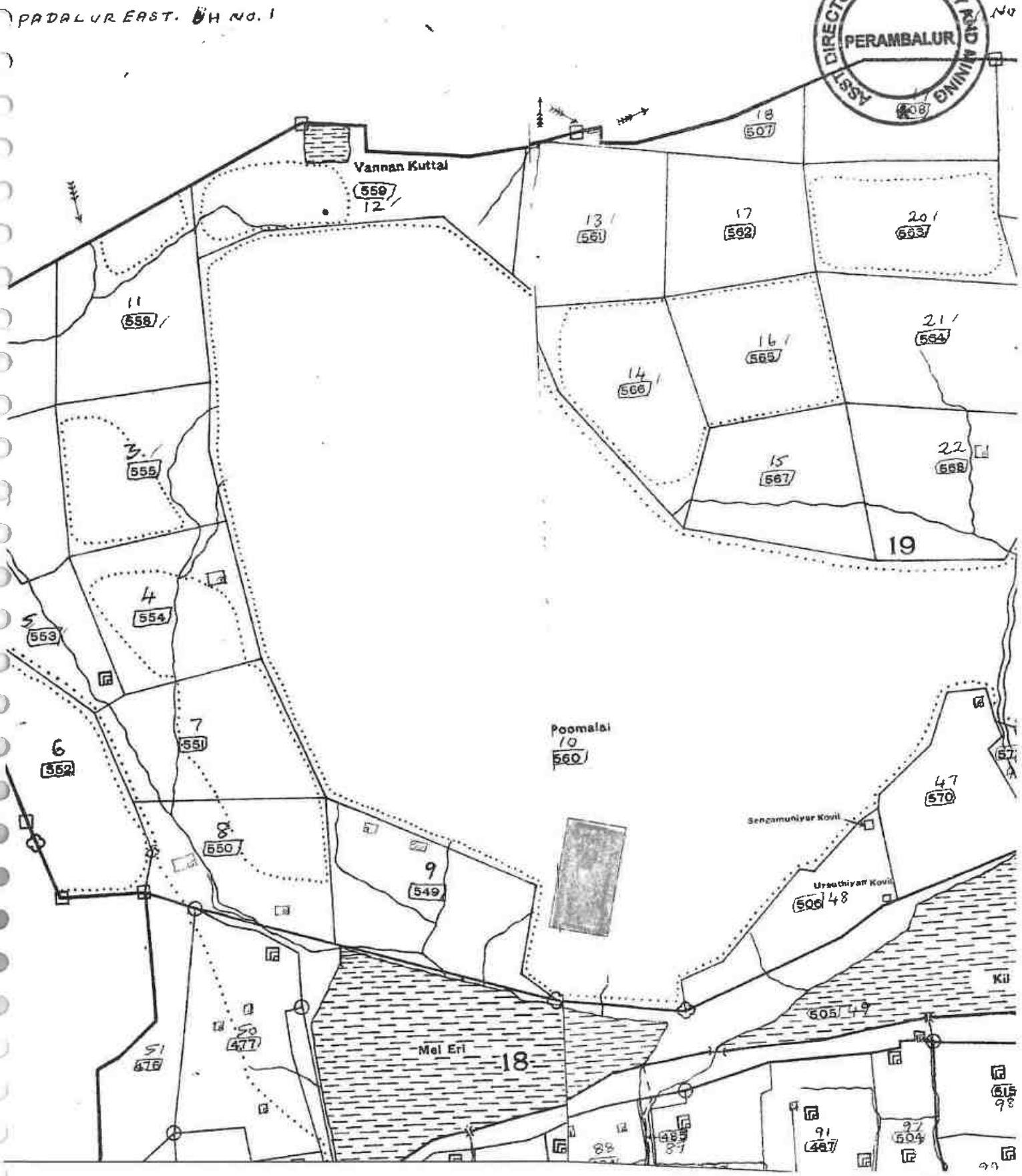
ANNEXURE

ASST. DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

ANNEXURE IV

PADALUR EAST. BH NO. 1

ASSTT. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR



LEASE APPLIED AREA

R. Vinoth

1434 ஆம் பசலியில் ... மாவட்டம் ... கிராமக் கணக்கு வட்டம் 73. ...

நில வரித் திட்டத்தின்படி புலன்களின் விபரம்.					கைப்பற்று தாரருடைய பெயரும் எண்ணும் அல்லது அனுபோக தாரருடைய பெயர்.	சாகுபடியாளின் பெயர்.	முதல் போகம்.				
நில அளவை எண். (1)	உட்பிரிவு எண். (2)	பரப்பு. (3)	தீர்வை. (4)	ஒரு போகம் அல்லது இரு போகம். (5)	(6)	நிலத்தின் எந்த பகுதி யாவது சாகுபடியாளரால் பயிரிடப்பட்டுள்ளதா. (7)	எந்த பாகத்தில் பயிர் செய்யப்பட்டது எந்த பாகத்தில் அறுவடை செய்யப்பட்டது. (8)	பயிரின் பெயர். (9)	பயிரான / அறுவடையான பரப்பு. (10)	உண்மையான பாய்ச்சல் ஆதாரம். (11)	விளைச்சல் அளவு விழுக்காடு. (12)
10	1	1.36.0	1		—		—	—			

1234 / 193

கிராம நிர்வாக அலுவலர்
73 – பாடாலூர் (கிழக்கு).
தாலுகா: பெரம்பலூர்
பெரம்பலூர் மாவட்டம்

இரண்டாம் போகம்.						கீழ்க்கண்டவகையில் பயிரிடப்படாத உள்ள நிலத்தின் தன்மை மற்றும் பரப்பின் விவரங்கள் ஒவ்வொரு நில அளவை எண் அல்லது அதன் பகுதியில்.	பயிர் பார்வையிடும் அலுவலர் குறிப்புகள்.
எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது. (13)	பயிரின் பெயர். (14)	பயிரான / அறுவடையான பரப்பு. (15)	உண்மையான பாய்ச்சல் ஆதாரம். (16)	விளைச்சல் அளவு விழுக்காடு. (17)	கிராம அலுவலரின் குறிப்புரை :- (1) புலன்களின் பகுதிகளில் மட்டும் பயிரிடப்பட்ட நிலங்களில் விருக்கள் அளவில். (2) கைப்பற்றில் இல்லாத நிலங்-களின் சாகுபடியின் பாய்ச்சல் தன்மையும் பரப்பும். (3) முந்தைய பட்டத்தில் பயிரிடப்பட்டவை உதவியின்றி பயிரிடப்பட்டுள்ள என்று பதிவாகியுள்ள நிலங்-களுக்கு பிந்தைய பாதங்களில் நீர் பாய்ச்சப்பட்ட விவரங்கள். (18)	(அ) வளம், (ஆ) பயனற்ற பயிர் செய்ய இயலாத நிலம், (இ) விவசாயம் மற்றும் இதர காரியங்களுக்கு பயன் படுத்தப் படும் நிலம், (ஈ) பயிரிடத்தக்க தரிசு (உ) நிலையான புல் தரைகளும் மற்றும் இதர மேய்ச்சல் நிலங்களும், (ஊ) விதைக்கப்பட்ட நிகர பரப்பில் சேர்க்கப்படாத மரவகைப் பயிர்களும் தோப்புகளும். (எ) நடப்புத் தரிசுகள் (ஏ) இதர தரிசு நிலங்கள். (18அ)	(19)
					சுப்பையா நாடார்				

ANNEXURE

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

280/21–R.F. III-A-10–20,00,000 Cps.-GBP.-Mdu.-7–2022.

ANNEXURE 5

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

1	2	3	4	5	6	7	8	9	10	11	12
							ஆ.வை	வேலை நேரம்	ஆ.வை		
8	3A	8-3A	ச	ப	...	8-4	16	1 09	0 26·0	0 28	653 தெ.ராணி(1). சு.முத்து சாமி(2).
	3B	-3B	அ	ப	...	8-4	16	1 09	1 26·5	1 37	..... தரிசு.
	4	-4	ச	ப	...	8-4	16	1 09	0 20.0	0 22	653 தெ.ராணி(1), சு.முத்தம் மாள்(2). சதுரக் கிணறு
	5	-5	ச	ப	...	8-4	16	1 09	1 22·5	1 33	5 ரா.அமிர்தம் மாள். சதுரக் கிணறு
									3 79·0	3 78	
9	1A	9-1A	அ	ப	...	8-4	16	1 09	0 21·0	0 23	... தரிசு.
	1B	-1B	ச	ப	...	8-4	16	1 09	1 02.5	1 11	604 வீ.ரெங்கம் மாள். சதுரக் கிணறும் கூரைவீடும்.
	1C	-1C	ச	ப	...	8-4	16	1 09	1 43·5	1 56	632 தெ.வீரன் செட்டி.
	2	-2	அ	புற	...	...	...	...	1 73·0	...	..... நீர்ப்பிடிப்பு
									4 40.0	2 90	
10	1	10-1	அ	இ.எ.த	...	...	...	...	66 61.5	...	..... கல்லாங் குத்து.
	2	-2	அ	ப	...	8-4	16	1 09	2 08·5	2 98	..... தரிசு.
									68 70·0	2 98	
11	1	11·1	ச	ப	...	8-4	16	1 09	0 38.0	0 42	65 செ.ராமராஜ்.
	2	-2	அ	புற	...	...	...	...	0 13·5	...	..... வாரி.
	3A	-3A	அ	ப	...	8-4	16	1 09	1 18.0	1 28	..... தரிசு.
	3B1	-3Bபா	ச	ப	...	8-4	16	1 09	0 06.0	0 07	128 வீ.நாராயண்.
	3B2	-3Bபா	ச	ப	...	8-4	16	1 09	0 06.5	0 08	6 வீ.அம்மணாண்டி.
	3B3	-3Bபா	ச	ப	...	8-4	16	1 09	0 03·0	0 06	175 பொ.சாமிக் கண்ணு.
	3B4	-3Bபா	ச	ப	...	8-4	16	1 09	0 03·0	0 06	307 பொ.தங் கையா.

R.vinoth

ANNEXURE-7

Shrient Analytical and Research Labs Pvt. Ltd

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

Report No.	SARL/25/1917	Report Date.	17.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-1917	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	04.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	67.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

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

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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Please Contact:
For any Technical Issues&Complaints: technical@shrientanalytical.com

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TEST REPORT

Report No.	SARL/25/1918	Report Date.	17.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-1918	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	04.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

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

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/1919	Report Date.	17.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-1919	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	05.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	70.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	33.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/1920	Report Date.	17.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-1920	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	05.03.2025	Test Completed on	17.03.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/1921	Report Date.	17.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-1921	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	06.03.2025	Test Completed on	17.03.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
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TEST REPORT

Report No.	SARL/25/1922	Report Date.	17.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-1922	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	06.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/1923	Report Date.	17.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-1923	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	07.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/1924	Report Date.	17.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-1924	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	07.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/1925	Report Date.	17.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-1925	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	$\mu g/m^3$	44.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/1926	Report Date.	17.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-1926	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	08.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/1927	Report Date.	17.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-1927	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	08.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/1928	Report Date.	17.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-1928	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	09.03.2025	Test Completed on	17.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/1929	Report Date.	17.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-1929	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	09.03.2025	Test Completed on	17.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/1930	Report Date.	17.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-1930	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	09.03.2025	Test Completed on	17.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/1971	Report Date.	24.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-1971	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	41.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/1972	Report Date.	24.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-1972	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/1973	Report Date.	24.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-1973	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/1974	Report Date.	24.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-1974	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	12.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/1975	Report Date.	24.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-1975	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	12.03.2025	Test Completed on	24.03.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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/25/197	Report Date.	24.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-1976	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/1977	Report Date.	24.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-1977	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	13.03.2025	Test Completed on	24.03.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/1978	Report Date.	24.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-1978	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	13.03.2025	Test Completed on	24.03.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/1979	Report Date.	24.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-1979	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	14.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/1980	Report Date.	24.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-1980	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	14.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/1981	Report Date.	24.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-1981	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	15.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	65.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/1982	Report Date.	24.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-1982	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	15.03.2025	Test Completed on	24.03.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/1983	Report Date.	24.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-1983	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	16.03.2025	Test Completed on	24.03.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/1984	Report Date.	24.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-1984	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	16.03.2025	Test Completed on	24.03.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2025	Report Date.	31.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2025	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	18.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2026	Report Date.	31.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2026	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	18.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2027	Report Date.	31.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2027	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	19.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	64.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/2028	Report Date.	31.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2028	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	19.03.2025	Test Completed on	31.03.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	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/25/2029	Report Date.	31.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2029	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	20.03.2025	Test Completed on	31.03.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2030	Report Date.	31.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2030	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	20.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2031	Report Date.	31.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2031	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	21.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2032	Report Date.	31.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2032	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	21.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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/25/2033	Report Date.	31.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2033	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	22.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2034	Report Date.	31.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2034	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	22.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2035	Report Date.	31.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2035	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	22.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2036	Report Date.	31.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2036	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	23.03.2025	Test Completed on	31.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2037	Report Date.	31.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2037	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	23.03.2025	Test Completed on	31.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2038	Report Date.	31.03.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2038	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	23.03.2025	Test Completed on	31.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2079	Report Date.	07.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2079	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	25.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	41.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2080	Report Date.	07.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2080	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	25.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2081	Report Date.	07.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2081	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	25.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2082	Report Date.	07.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2082	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	26.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2083	Report Date.	07.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2083	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	26.03.2025	Test Completed on	07.04.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2084	Report Date.	07.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2084	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	26.03.2025	Test Completed on	07.04.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2085	Report Date.	07.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2085	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	27.03.2025	Test Completed on	07.04.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2086	Report Date.	07.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2086	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	27.03.2025	Test Completed on	07.04.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2087	Report Date.	07.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2087	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	28.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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/25/2088	Report Date.	07.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2088	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	28.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2089	Report Date.	07.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2089	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	29.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	73.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	35.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2090	Report Date.	07.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2090	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	29.03.2025	Test Completed on	07.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory

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TEST REPORT

Report No.	SARL/25/2091	Report Date.	07.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2091	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	30.03.2025	Test Completed on	07.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	69.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2092	Report Date.	07.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2092	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	30.03.2025	Test Completed on	07.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
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TEST REPORT

Report No.	SARL/25/2133	Report Date.	14.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2133	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	01.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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/25/2134	Report Date.	14.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2134	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	01.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2135	Report Date.	14.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2135	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	02.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	61.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/25/2136	Report Date.	14.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2136	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	02.04.2025	Test Completed on	14.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/2137	Report Date.	14.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2137	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	03.04.2025	Test Completed on	14.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

.

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/25/2138	Report Date.	14.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2138	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	03.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2139	Report Date.	14.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2139	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	04.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2140	Report Date.	14.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2140	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	04.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2141	Report Date.	14.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2141	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	05.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2142	Report Date.	14.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2142	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	05.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2143	Report Date.	14.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2143	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	05.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2144	Report Date.	14.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2144	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	06.04.2025	Test Completed on	14.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2145	Report Date.	14.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2145	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	06.04.2025	Test Completed on	14.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2146	Report Date.	14.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2146	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	06.04.2025	Test Completed on	14.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/25/2187	Report Date.	21.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2187	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	08.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	41.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2188	Report Date.	21.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2188	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	08.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2189	Report Date.	21.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2189	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	08.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2190	Report Date.	21.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2190	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	09.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2191	Report Date.	21.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2191	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	09.04.2025	Test Completed on	21.04.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2192	Report Date.	21.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2192	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	09.04.2025	Test Completed on	21.04.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2193	Report Date.	21.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2193	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	10.04.2025	Test Completed on	21.04.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2194	Report Date.	21.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2194	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	10.04.2025	Test Completed on	21.04.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/2195	Report Date.	21.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2195	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	11.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2196	Report Date.	21.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2196	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	11.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2197	Report Date.	21.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2197	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	12.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	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/25/2198	Report Date.	21.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2198	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	12.04.2025	Test Completed on	21.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2199	Report Date.	21.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2199	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	13.04.2025	Test Completed on	21.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2200	Report Date.	21.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2200	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	13.04.2025	Test Completed on	21.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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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TEST REPORT

Report No.	SARL/25/2241	Report Date.	28.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2241	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	15.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	66.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2242	Report Date.	28.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2242	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	15.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2243	Report Date.	28.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2243	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	16.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	71.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	34.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2244	Report Date.	28.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2244	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	16.04.2025	Test Completed on	28.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2245	Report Date.	28.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2245	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	17.04.2025	Test Completed on	28.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/25/2246	Report Date.	28.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2246	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	17.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
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TEST REPORT

Report No.	SARL/25/2247	Report Date.	28.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2247	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	18.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2248	Report Date.	28.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2248	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	18.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2249	Report Date.	28.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2249	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	19.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (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/25/2250	Report Date.	28.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2250	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	19.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2251	Report Date.	28.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2251	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	19.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2252	Report Date.	28.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2252	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	20.04.2025	Test Completed on	28.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2253	Report Date.	28.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2253	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	20.04.2025	Test Completed on	28.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/25/2254	Report Date.	28.04.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2254	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	20.04.2025	Test Completed on	28.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2295	Report Date.	05.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2295	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	22.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/25/2296	Report Date.	05.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2296	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	22.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2297	Report Date.	05.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2297	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	22.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2298	Report Date.	05.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2298	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	23.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2299	Report Date.	05.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2299	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	23.04.2025	Test Completed on	05.05.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2300	Report Date.	05.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2300	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	23.04.2025	Test Completed on	05.05.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2301	Report Date.	05.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2301	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	24.04.2025	Test Completed on	05.05.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2302	Report Date.	05.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2302	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	24.04.2025	Test Completed on	05.05.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2303	Report Date.	05.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2303	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	25.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2304	Report Date.	05.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2304	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	25.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
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TEST REPORT

Report No.	SARL/25/2305	Report Date.	05.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2305	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	26.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2306	Report Date.	05.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2306	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	26.04.2025	Test Completed on	05.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2307	Report Date.	05.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2307	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	27.04.2025	Test Completed on	05.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	62.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2308	Report Date.	05.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2308	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	27.04.2025	Test Completed on	05.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2349	Report Date.	12.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2349	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	$\mu g/m^3$	68.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2350	Report Date.	12.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2350	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	$\mu g/m^3$	48.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2351	Report Date.	12.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2351	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	$\mu g/m^3$	74.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	35.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2352	Report Date.	12.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2352	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	$\mu g/m^3$	52.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2353	Report Date.	12.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2353	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	$\mu g/m^3$	49.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2354	Report Date.	12.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2354	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	$\mu g/m^3$	58.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2355	Report Date.	12.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2355	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	$\mu g/m^3$	50.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2356	Report Date.	12.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2356	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	$\mu g/m^3$	55.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2357	Report Date.	12.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2357	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	$\mu g/m^3$	51.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2358	Report Date.	12.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2358	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	$\mu g/m^3$	55.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2359	Report Date.	12.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2359	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	$\mu g/m^3$	44.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.4	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/25/2360	Report Date.	12.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2360	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	$\mu g/m^3$	47.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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Please Contact:
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TEST REPORT

Report No.	SARL/25/2361	Report Date.	12.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2361	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	$\mu g/m^3$	45.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2362	Report Date.	12.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2362	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	$\mu g/m^3$	47.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2403	Report Date.	19.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2403	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	06.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2404	Report Date.	19.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2404	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	06.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2405	Report Date.	19.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2405	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	06.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2406	Report Date.	19.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2406	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	07.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2407	Report Date.	19.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2407	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	07.05.2025	Test Completed on	19.05.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2408	Report Date.	19.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2408	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	07.05.2025	Test Completed on	19.05.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2409	Report Date.	19.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2409	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	08.05.2025	Test Completed on	19.05.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2410	Report Date.	19.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2410	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	08.05.2025	Test Completed on	19.05.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2411	Report Date.	19.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2411	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	09.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2412	Report Date.	19.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2412	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	09.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2413	Report Date.	19.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2413	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	10.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	70.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	33.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2414	Report Date.	19.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2414	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	10.05.2025	Test Completed on	19.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2415	Report Date.	19.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2415	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	11.05.2025	Test Completed on	19.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2416	Report Date.	19.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2416	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	11.05.2025	Test Completed on	19.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2457	Report Date.	26.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2457	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	13.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	61.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2458	Report Date.	26.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2458	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	13.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/25/2459	Report Date.	26.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2459	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	14.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2460	Report Date.	26.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2460	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	14.05.2025	Test Completed on	26.05.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2461	Report Date.	26.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2461	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	15.05.2025	Test Completed on	26.05.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2462	Report Date.	26.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2462	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	15.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2463	Report Date.	26.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2463	Sample Received on	19.05.2025
Sample Collected by	02.05.2025	Test Commenced on	19.05.2025
Sample Collected on	16.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2464	Report Date.	26.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2464	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	16.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2465	Report Date.	26.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2465	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	17.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2466	Report Date.	26.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2466	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	17.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	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/25/2467	Report Date.	26.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2467	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	17.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2468	Report Date.	26.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2468	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	18.05.2025	Test Completed on	26.05.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2469	Report Date.	26.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2469	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	18.05.2025	Test Completed on	26.05.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2470	Report Date.	26.05.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2470	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	18.05.2025	Test Completed on	26.05.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/2543	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2543	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	20.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2544	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2544	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	20.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2545	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2545	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	20.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2546	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Alathur 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-2546	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	21.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2547	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Pudhukkurichi 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-2547	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	21.05.2025	Test Completed on	02.06.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2548	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-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-2548	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	21.05.2025	Test Completed on	02.06.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2549	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2549	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	22.05.2025	Test Completed on	02.06.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2550	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2550	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	22.05.2025	Test Completed on	02.06.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/25/2551	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Kolakkanatham 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-2551	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	23.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2552	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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 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-2552	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	23.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2553	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2553	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	24.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	75.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	36.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2554	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2554	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	24.05.2025	Test Completed on	02.06.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2555	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2555	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	72.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	34.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.0	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/25/2556	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-Sridevi Mangalam 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-2556	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2557

Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
Sample Description	WATER
Sample Mark	GW 1 - Within Mine Lease area

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2557	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.89	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	514.5	-
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	169	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	42	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	15.4	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	105	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	64.0	-
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	70.2	1000

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TEST REPORT

Report No.	SARL/25/2557

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	49.8	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.05	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	BDL(D.L-1.0)	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.11	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/2558	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
Sample Description	WATER
Sample Mark	GW 2-Sridevi Mangalam

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2558	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.84	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1665	-
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	354	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	64.4	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	46.3	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	161	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	193	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	327	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	342	1000

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TEST REPORT

Report No.	SARL/25/2558

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	270	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.12	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.14	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.48	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2559	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
Sample Description	WATER
Sample Mark	GW 3-Kolakkanatham

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2559	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.19	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1975	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1186	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	392	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	84	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	43.7	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	210	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	182	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	380	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/25/2559

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	342	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.11	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	4.65	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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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2560	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
Sample Description	WATER
Sample Mark	GW 4-Padalur West

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2560	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.91	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	2068	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1240	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	424	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	96.8	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	43.7	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	242	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	182	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	399	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	380	1000

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TEST REPORT

Report No.	SARL/25/2560

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	355	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.12	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	5.23	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.62	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2561	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
Sample Description	WATER
Sample Mark	GW 5-Alathur

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2561	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.45	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1286.0	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	772	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	235	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	57.6	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	21.8	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	144	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	91.0	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	260	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	241	1000

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TEST REPORT

Report No.	SARL/25/2561

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	206	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.04	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	4.32	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.42	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/2562	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
Sample Description	WATER
Sample Mark	GW 6-Pudhukkurichi

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2562	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.77	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1989.0	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1194	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	385	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	83.2	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	208	-
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	376	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	363	1000

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TEST REPORT

Report No.	SARL/25/2562

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	338	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL(D.L-0.01)	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	5.62	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.63	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/2563	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
Sample Description	WATER
Sample Mark	GW 7-Padalur

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2563	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.36	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	2137	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1282	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	454	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	102	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	47.5	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	256	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	198	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	392	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	510	1000

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TEST REPORT

Report No.	SARL/25/2563

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	212	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.03	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	5.51	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.58	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2564	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
Sample Description	WATER
Sample Mark	SW 1-Nattaramangalam Eri

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2564	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.06.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result
A.	**Physical parameters**			
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.52
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	218.6
B.	**Chemical parameters**			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	132
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	47.2
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	10.56
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	4.99
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	26.4
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	20.8
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	45.6
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	42.8

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TEST REPORT

Report No.	SARL/25/2564

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	15.2
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.15
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	BDL(D.L-1.0)
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.21
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL(D.L-0.05)
19	Chemical Oxygen Demand	APHA 24th Edition 5220 B: 2023	mg/L	BDL (D.L – 4.0)
20	Bio Chemical Oxygen Demand 3 Days at 27°c	IS 3025 (Part 44): 1993	mg/L	BDL (D.L – 2.0)
21	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	22.0
22	Dissolved Oxygen	IS 3025 (Part 38): 1989	mg/L	5.8

Remarks: BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2565

Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
Sample Description	WATER
Sample Mark	SW 2-Nanthai River (up Stream)

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2565	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.06.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result
A.	**Physical parameters**			
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.94
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	167.9
B.	**Chemical parameters**			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	102
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	35.2
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	10.36
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	2.23
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	25.9
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	9.30
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	37.2
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	40.8

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Report No.	SARL/25/2565

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	16.9
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.12
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.14
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.45
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL(D.L-0.05)
19	Chemical Oxygen Demand	APHA 24th Edition 5220 B: 2023	mg/L	BDL (D.L – 4.0)
20	Bio Chemical Oxygen Demand 3 Days at 27°c	IS 3025 (Part 44): 1993	mg/L	BDL (D.L – 2.0)
21	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	12.0
22	Dissolved Oxygen	IS 3025 (Part 38): 1989	mg/L	6.1

Remarks: BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2566

Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
Sample Description	WATER
Sample Mark	SW 3 -Nanthai River (Down Stream)

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2566	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.06.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result
A.	**Physical parameters**			
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.85
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	192.3
B.	**Chemical parameters**			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	115
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	42.5
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	9.8
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	4.3
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	24.5
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	18.0
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	42.2
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	39.8

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TEST REPORT

Report No.	SARL/25/2566

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	16.1
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.1
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	1.95
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.42
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL(D.L-0.05)
19	Chemical Oxygen Demand	APHA 24th Edition 5220 B: 2023	mg/L	BDL (D.L – 4.0)
20	Bio Chemical Oxygen Demand 3 Days at 27°c	IS 3025 (Part 44): 1993	mg/L	BDL (D.L – 2.0)
21	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	10.0
22	Dissolved Oxygen	IS 3025 (Part 38): 1989	mg/L	6.3

Remarks: BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/2557	Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2557	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	-	7.24
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	172.5
3	Dry matter content	IS 15106: 2002	%	94.58
4	Water Content	IS 15106: 2002	%	5.42
5	Organic Matter	IS 2720: Part 22: 1972	%	0.86
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	285
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	16.05
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	45.22
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	38.73
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.42
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	310
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	590
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

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/25/2558

Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	S2-Sridevi Mangalam Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2558	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	-	7.94
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	290.8
3	Dry matter content	IS 15106: 2002	%	96.52
4	Water Content	IS 15106: 2002	%	3.48
5	Organic Matter	IS 2720: Part 22: 1972	%	0.95
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	405
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	10.42
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	44.33
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	45.25
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.62
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	322
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	664
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	19.4
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	38

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2559

Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	S3-Kolakkanatham Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2559	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	-	8.06
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	220.4
3	Dry matter content	IS 15106: 2002	%	97.21
4	Water Content	IS 15106: 2002	%	2.79
5	Organic Matter	IS 2720: Part 22: 1972	%	0.82
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	146
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	8.55
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	42.75
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	48.7
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.24
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	346
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	735
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	%	17.9
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	40

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

*****END OF THE REPORT*****

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TEST REPORT

Report No.	SARL/25/2560

Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	S4-Padalur West village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2560	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	-	7.95
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	273.5
3	Dry matter content	IS 15106: 2002	%	86.54
4	Water Content	IS 15106: 2002	%	13.46
5	Organic Matter	IS 2720: Part 22: 1972	%	1.32
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	205
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	17.05
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	38.97
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	43.98
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.67
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	498
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	904
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	%	17.1
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	47

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2561

Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	S5-Alathur Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2561	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	-	7.89
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	190.2
3	Dry matter content	IS 15106: 2002	%	97.25
4	Water Content	IS 15106: 2002	%	2.75
5	Organic Matter	IS 2720: Part 22: 1972	%	0.77
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	254
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	13.22
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	42.76
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	44.02
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.36
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	535
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	1030
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	18.9
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	42

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2562

Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	S6-Pudhukkurichi Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2562	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	295.6
3	Dry matter content	IS 15106: 2002	%	93.67
4	Water Content	IS 15106: 2002	%	6.33
5	Organic Matter	IS 2720: Part 22: 1972	%	0.95
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	312
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	10.79
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	45.66
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	43.55
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.61
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	420
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	634
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	18.2
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	40

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2563

Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	S7-Padalur Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2563	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	-	7.92
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	265.7
3	Dry matter content	IS 15106: 2002	%	92.58
4	Water Content	IS 15106: 2002	%	7.42
5	Organic Matter	IS 2720: Part 22: 1972	%	1.03
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	175
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	7.89
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	41.32
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	50.79
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.74
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	396
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	652
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	%	17.3
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

Verified

Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2564

Report Date.	02.06.2025

Customer Name & Address	Proposed Rough Stone Quarry Of Thiru.R.Vinoth Over An Extent Of 1.20.00 Ha Located At S.F.No. 10/1 (Block-8) 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-2564	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	42.4	38.5	41.4	42.3	39.9	49.0	49.1
07.00	43.9	39.9	39.1	44.9	42.4	51.3	52.7
08.00	45.7	43.0	42.4	43.3	43.0	49.8	53.5
09.00	49.1	45.0	43.8	46.9	46.8	49.6	52.1
10.00	51.0	47.4	50.8	49.0	44.6	48.6	52.6
11.00	52.7	49.3	49.9	51.8	44.0	47.8	50.8
12.00	53.6	53.7	46.6	53.0	42.8	45.6	47.3
13.00	55.4	55.1	47.5	49.3	47.3	47.9	46.7
14.00	56.7	52.8	53.1	46.9	44.5	53.5	49.6
15.00	54.1	54.0	52.9	44.8	47.9	47.3	52.8
16.00	59.6	50.9	51.5	48.9	45.8	49.3	53.7
17.00	57.7	50.1	52.9	47.9	44.8	48.6	53.5
18.00	52.5	50.9	49.6	46.0	48.0	50.0	48.9
19.00	51.3	44.8	46.0	46.6	47.1	51.7	43.6
20.00	50.5	40.9	45.4	44.0	40.0	46.3	41.2
21.00	47.4	39.9	43.5	42.3	38.9	46.7	37.5
22.00	44.5	39.3	45.0	42.9	37.8	50.7	39.2
23.00	41.0	39.0	43.1	41.3	36.1	39.7	39.8
24.00	39.9	38.6	40.9	40.4	37.6	39.8	38.8
01.00	39.1	37.6	42.4	41.8	36.3	38.1	39.1
02.00	40.3	37.3	41.4	41.0	35.1	38.7	38.3
03.00	38.2	37.8	40.4	41.1	37.5	37.4	39.6
04.00	41.1	37.5	39.6	39.7	38.3	38.6	39.9
05.00	42.3	38.9	39.0	39.3	39.7	38.1	38.6

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TEST REPORT

Report No.	SARL/25/2564

Report Date.	02.06.2025

	N1	N2	N3	N4	N5	N6	N7
DAY EQUIVALENT	**53.7**	**50.0**	**49.1**	**47.9**	**45.1**	**49.4**	**50.8**
NIGHT EQUIVALENT	**41.2**	**38.3**	**41.9**	**41.1**	**37.5**	**43.3**	**39.2**
DAY & NIGHT EQUIVALENT	**52.1**	**48.4**	**47.8**	**46.5**	**43.7**	**48.2**	**49.2**

Remarks:

LOCATIONS:

N1-Within Mine Lease area
N2-Sridevi Mangalam Village
N3-Kolakkanatham Village
N4-Padalur West village
N5-Alathur Village
N6-Pudhukkurichi Village
N7-Padalur Village

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

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

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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ANNEXURE-8

National Accreditation Board for Testing and Calibration Laboratories

NABL

CERTIFICATE OF ACCREDITATION

SHRIENT ANALYTICAL & RESEARCH LABS PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

416/15, DHARGAS ROAD, PERUNGALATHUR, WEST TAMBARAM, CHENNAI, KANCHIPURAM, TAMIL NADU, INDIA

in the field of

TESTING

Certificate Number: TC-12339

Issue Date: 30/09/2025 **Valid Until:** 29/09/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: SHRIENT ANALYTICAL AND RESEARCH LABS PRIVATE LIMITED

Signed for and on behalf of NABL

Anuja Anand
Director

Chakravarthy T. Kannan
Chief Executive Officer

ANNEXURE-9

அனுப்புநர்:

திருமதி.பா.மாலதி M.A.,M.Phil.,M.Ed.,
தலைமை ஆசிரியர்,
அரசு மாதிரி மேல்நிலைப்பள்ளி,
பாடாலூர்.

பெறுநர்:

திரு.ஆர்.வினோத்,
10/1, பிளாக் 8,
பாடாலூர் கிழக்கு,
ஆலத்தூர்.

ந.க.எண் : 40/ 2025 நாள்: 17.06.2025.

ஐயா,

பொருள்: பெரம்பலூர் மாவட்டம் - பாடாலூர் அரசு மாதிரி மேல்நிலைப்பள்ளி பள்ளியில் பயிலும் மாணவ / மாணவியர்களுக்கு உணவருந்தும் கூடம் அமைத்து தரக் கோருதல் - சார்பு.

வணக்கம், இப்பள்ளியில் சுமார் 850 மாணவ/ மாணவியர்கள் பயின்று வருகின்றனர். மாணவ/ மாணவியர்கள் நலன் கருதி அனைவரும் அமர்ந்து உணவருந்தும் வகையில் உணவருந்தும் கூடம் அமைத்து தருமாறு அன்புடன் கேட்டுக்கொள்ளப்படுகிறது.

17.6.25

தலைமை ஆசிரியர்
அரசு மாதிரி மேல்நிலைப்பள்ளி
பாடாலூர் - 621109,
பெரம்பலூர் மாவட்டம்.