DRAFT EIA / EMP FOR PROPOSED ROUGH STONE QUARRY CATEGORY B1 - CLUSTER (CLUSTER AREA – 5.27.50 Ha.)

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

APPROVED TOR vide TO25B0108TN5292193N/2025 Dated: 25.07.2025 (File No - 12270)

PROPOSED QUARRY LEASE DETAILS		
SURVEY NOS	1432/3(PART)	
VILLAGE	THIMMARASANAICKANUR BIT-2	
TALUK	ANDIPATTI	
DISTRICT	THENI	
EXTENT	1.60.0 Ha	
PROPOSED PRODUCTION FOR FIVE YEARS	1,52,260m3 OF ROUGH STONE	
LAND	GOVERNMENT LAND	

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

Category of the Project: B1 Cluster Mining, Total Cluster Area – 5.27.50 Ha

Baseline Monitoring Period – March to May 2025

APPLICANT

TVL.VANNATHIPARAI KALIESWARI KALLUDAIKUM MAGALIR SANGAM Tmt.M.PARIMALA (PRESIDENT) (REGISTER NO.61/2021), SOUTH STREET, RAJAGOPALANPATTI, ANDIPATTI TALUK, THENI – 625 536.

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 -29.09.2025 #416/15, Dhargas Road, Perungalathur, West Tambaram, Chennai, Tamil Nadu, India.



September -2025





AMENDMENT PAGE

SL	Page No.	Section / Clause / Para / Line (as Applicable)	Date of Amendment	Amendment Made	Reasons of amendment	Signature of Person Authorizing Amendment
1						
2						
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5						
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7						
8						
9						
10						



ACKNOWLEDGEMENT

M/s. Global Mining Solutions, Salem is very much thankful to TMT. M. Parimala, (President of TVL.Vannathiparai Kalieswari Kalludaikum Magalir Sangam) 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 1.60.00 Ha and cluster extent of 5.27.50 Ha at Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, Tamil Nadu 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 Thimmarasanaickanur Bit-2 Village and the nearby villages for their whole hearted cooperation and constant involvement during the entire field study without which the study would not have been possible.

For: M/s. Global Mining Solutions

(M.Prabhu)

M. Day

Managing Director



UNDERTAKING

In Line with MoEFCC OM no. J-11013/41/2006-IA.II (I) dated 5^{th} 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 1.60.00 Ha and cluster area of 5.27.50 Ha at Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, Tamil Nadu.

For M/s. Global Mining Solutions

Name: Manikandan Manickam

EIA Coordinator - Mining of Minerals

Global Mining Solutions



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. TO25B0108TN5292193N, Dated: 25.07.2025 for preparation of EIA/EMP report for the proposed Rough Stone Quarry over a lease extent of 1.60.00 Ha and cluster area of 5.27.50 Ha at Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, Tamil Nadu, for the production of 1,52,260 m³ 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

Name: Manikandan Manickam

EIA Coordinator - Mining of Minerals

Global Mining Solutions



EIA/EMP REPORT OF PROPOSED ROUGH **STONE KALLUDAIKUM** TVL.VANNATHIPARAI **KALIESWARI MAGALIR** TMT.M.PARIMALA (PRESIDENT) AT S.F.NO. 1432/3 (PART) OVER AN EXTENT OF 1.60.0 HA IN THIMMARASANAICKANUR BIT-2 VILLAGE, ANDIPATTI TALUK, THENI DISTRICT, TAMIL NADU





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-

Sector Description	Sector	Sector (as per)		
Sector Description	NABET	MoEFCC	Cat.	
Mining of minerals including opencast/ underground mining	1	1 (a) (i)	А	
Thermal power plants	4	1 (d)	В	
Metallurgical industries (ferrous)	8	3 (a)	A	
Cement Plants	9	3 (b)	A	
Building and construction projects	38	8 (a)	В	
Townships and Area development projects	39	8 (b)	В	
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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 lemain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/25/3638 dated May 30, 2025. The accreditation needs to be renewed before the expiry date Eco Chem Sales and Services, Surat following dve process of assessment

Valid up to January 4, 2026

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

Issue Date May 30, 2025

again dex Conwas 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 1.60.00 Ha and cluster area of 5.27.50 Ha at Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, Tamil Nadu.

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

EIA Coordinator Name: Manikandan Manickam

1.

Signature & Date

Period of involvement: March to May 2025.

Contact information:

M/s Global Mining Solutions

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

Kottamettupatty, Omalur,

Salem, Tamil Nadu - 636 455

S. No.	Functional	Name of the	Involvement	Signature and
	areas	expert/s	(period and task**)	Date
1	AP	Dhanalakshmi	Assessment of existing	R. Dhams_
		Ramanathan	air quality, Impact of the	K. Mams
			project on ambient air	
			and suggested mitigation	



			measures for air pollution.	
			Period: March to May	
			<u>2025.</u>	
2	WP	Abirami	Assessment of existing	
		Kaliaperumal	water quality, impact of	
			the project on surface	/ /
			and ground water	X. Aline
			quality, suggested	7
			mitigation measures for	
			minimizing the impact.	
			Period: March to May	
			<u>2025.</u>	
3	SHW	Ramadoss N	Assessment of waste	
	377	ramados n	generated from the	
			project, suggested waste	
			management practices.	1521
				Muson
			Period: March to May	Ce Ray
			<u>2025</u>	
4	SE	Sarasvathy K	Baseline SE study. Data	
			compilation and	
			assessment. Impact of	
			the project on SE status	
			of the area. Formulation	11
			of CER plan.	antly
			Period: March to May	of 2 mg
			<u>2025</u>	154



5	ЕВ	Saravanan S	Baseline data collection of related to ecology of the area. Period: March to May 2025	(Asaranaa
6	HG	Ravinthiran N	Hydrogeological feature of the area. Ground water depth and impact of project on ground water of the area. Period: March to May 2025	(Sand March
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 to May 2025	7 Simbalta
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 to May 2025	R. Dhams_



9	LU	Srilatha	Preparation of land use	
	20	Thiruveedhula	map based on satellite	
		Tim a vecamana	imagery. Land use	
			classification and	
			analysis. Impact	
			prediction of the project	
			on the surrounding land	T Smilette
			environment.	1 smalle
			CHVII OHIMEHE.	
			Period: March to May	
			<u>2025</u>	
10	RH	S.V. Prashant	Identification of the Risk	
10	КП	S.V. PI dSIIdIIT	related to the mining	
				2 1
			activities. Preparation of emergency disaster	forashanh.
			management plan. Plan	-4
			for supply of safety	
			equipment for the worker.	
			worker.	
			Period: March to May	
			<u>2025</u>	
4.4	66	Chiannal Cina	Coll	
11	SC	Shisupal Sing	Soil monitoring,	
			secondary data collection	Drompel Singly.
			on soil type, soil	
			management practices,	
			utilization of topsoil.	
			Period: March to May	
			<u>2025</u>	
4.0	050	V 11:		
12	GEO	Valliappan	Geological map, stability	
		Meyyappan	of quarry and dump,	minute.
			management plan for	
			mine stability, after use	



	of mining quarry and	
	geological feature of the	
	area.	
	<u>Period: March to May</u>	
	<u>2025</u>	



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List of Annexures

Annexure No 1	Terms of Reference (TOR)
Annexure No – 2	Precise Area Communication Letter
Annexure No - 3	Mine Plan Approval Letter Copy, approval book with annexures
Annexure No - 4	500 m Cluster Certificate
Annexure No -5	VAO Letter for features within 500 m radius
Annexure No -6	Land Documents
Annexure No -7	Monitoring Report
Annexure No -8	Lab NABL Certificate
Annexure No -9	The Copy of CER Letter



COMPLIANCE TO TERMS OF REFERENCE



POINT WISE COMPLIANCE OF TOR CONDITIONS

S.No	TOR Points		R	eply		Page
	TOK TOMES			CPIY		No
SEAC	Conditions - Standard					
1	In the case of existing/operating	The	applied	lease a	rea was	
	mines, a letter obtained from the	prev	iously	operate	ed by	
	concerned AD (Mines) shall be	anot	her lesse	ee befor	e 2015.	
	submitted and it shall include the	The	dimensi	on of	existing	
	following: (i) Original pit	pits	in the a	rea app	olied for	
	dimension (ii) Quantity achieved	leas	es as	per a	pproved	
	Vs EC Approved Quantity (iii)	mini	ng plan i	s given	below.	
	Balance Quantity as per Mineable		Length	Width	Depth	
	Reserve calculated. (iv) Mined		(Max)	(Max)	(Max)	
	out Depth as on date Vs EC		(m)	(m)	(m)	
	Permitted depth (v) Details of	Pit	96	38	15 m	
	illegal/illicit mining (vi) Violation	I			BGL	
	in the quarry during the past	Pit	85	70	15 m	
	working. (vii) Quantity of	II			BGL	
	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.					



Details of habitations around the proposed mining area and latest location of habitations within VAO certificate regarding the location of habitations within periphery of the site is attached as Annexure. There of the site.
VAO certificate regarding the location of habitations within periphery of the site is attached as Annexure. There
location of habitations within periphery of the site is 300m radius from the periphery attached as Annexure. There
300m radius from the periphery attached as Annexure. There
of the site
of the site. are no approved Structures
within 300 m Radius.
The proponent is requested to A Site survey has been 111
carry out a survey and enumerate conducted to identify and list
on the structures located within structures located within a
the radius of (i) 50 m, (ii) 100 m, 300 m radius from the
(iii) 200 m and (iv) 300 m (v) Proposed Quarry and
500m shall be enumerated with structures located within 300
details such as dwelling houses m radius are given in section
with number of occupants, 3.5 of Chapter 3.
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 A detailed hydro-geological -
hydrological report indicating the report of the proposed
impact of proposed quarrying project will be incorporated
operations on the waterbodies in the Final EIA/EMP Report.
like lake, water tanks, etc located
within 1 km of the proposed
quarry.



5	The Proponent shall carry out Bio	The bio diversity study has 147	1
	diversity study through	been carried out by our FAE	
	Department of Ecology and	is given in section 3.7.7 of	
	Environmental Sciences.	Chapter 3.	
	Pondicherry University and the		
	same shall be included in EIA		
	Report.		
6	The DFO letter stating that the	Andipatti Northern Block R.F.	-
	proximity distance of Reserve	– 1.4 km (E), Andipatti	
	Forests, Protected Areas,	Southern Block R.F. – 3.8 km	
	Sanctuaries, Tiger reserve etc.,	(SE), Rajadani R.F. – 8.5 km	
	up to a radius of 25 km from the	(E). There is no R.F within 1	
	proposed site.	km radius.	
7	In the case of proposed lease in	The applied lease area was	
	an existing (or old) quarry where	previously operated by	
	the benches are not formed (or)	another lessee before 2015.	
	partially formed as per the	The dimension of existing	
	approved Mining Plan, the Project	pits in the area applied for	
	Proponent (PP) shall the PP shall	leases as per approved	
	carry out the scientific studies to	mining plan is given below.	
	assess the slope stability of the	Length Width Depth	
	working benches to be	(Max) (Max) (Max)	
	constructed and existing quarry	(m) (m) (m)	
	wall, by involving any one of the	Pit 96 38 15 m	
	reputed Research and Academic	I BGL	
	Institutions - CSIR-Central	Pit 85 70 15 m	
	Institute of Mining & Fuel	II BGL	
	Research / Dhanbad,		
	NIRM/Bangalore, Division of	Slope stability study through	
	Geotechnical Engineering-IIT-	reputed institute will be	
	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.	institute will be conducted once the quarry depth
9	The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.	opencast manual mining
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	This proposal will adopt the opencast manual mining method without blasting.



	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	Prior	to this	project	, the PP	
	and furnish the details of	had	not ca	rried c	out any	
	quarry/quarries operated by the	quar	rying ope	erations		
	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	The	applied	lease a	rea was	
	carried out the mining activity in	prev	iously	operate	ed by	
	the proposed mining lease area	anot	her lesse	ee befor	e 2015.	
	after 15.01.2016, then the	The	dimensi	on of	existing	
	proponent shall furnish the	pits	in the a	rea app	olied for	
	following details from AD/DD,	lease	es as	per a	pproved	
	mines,	mini	ng plan i	s given	below.	
13	What was the period of the		Length	Width	Depth	
	operation and stoppage of the		(Max)	(Max)	(Max)	
	earlier mines with last work		(m)	(m)	(m)	
	permit issued by the AD/DD	Pit	96	38	15 m	
	mines?	I			BGL	
14	Quantity of minerals mined out. ·	Pit	85	70	15 m	
	Highest production achieved in	II			BGL	
	any one year · Detail of approved		ı	L	1	
	depth of mining. · Actual depth of					
	the mining achieved earlier. ·					
	Name of the person already					
	mined in that leases area. \cdot 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	Project coordinates	120 &
	lease area, superimposed on a	superimposed in satellite	121
	High-Resolution Imagery/Topo	imagery and topo map given	
	sheet, topographic sheet,	as Figure No – 3.4 and Figure	
	geomorphology, lithology and	3.5.	
	geology of the mining lease area	Geology and Geomorphology	
	should be provided. Such an	map are provided in 3.19 and	154 &
	Imagery of the proposed area	3.18 Chapter 3.	155
	should clearly show the land use	10km Radius Index plan	
	and other ecological features of	showing buffer zone is given	
	the study area (core and buffer	in Fig 3.5 of Chapter – 3.	
	zone).		
16	The PP shall carry out Drone	It will be complied after	
	video survey covering the cluster,	commencement of the	
	green belt, fencing, etc.,	mining operation.	
17	The proponent shall furnish	Photographs of the site are	92
	photographs of adequate fencing,	provided in Figure 2.5 of	
	green belt along the periphery	Chapter-2.	
	including replantation of existing	There is no water bodies	
	trees & safety distance between	within 50 m radius from the	
	the adjacent quarries & water	project site.	
	bodies nearby provided as per the	Green belt is being developed	
	approved mining plan.	over an area of 0.41.0 Ha.	
		The work of the same is	
		under process.	



18	The Project Proponent shall	Geological reserves - Rough	
	provide the details of mineral	stone 3,42,645 m3 and the	
	reserves and mineable reserves,	mineable reserves: Rough	
	planned production capacity,	stone 1,52,260m3. The	
	proposed working methodology	proposed production is	
	with justifications, the anticipated	Rough stone 1,52,260 m3 of	
	impacts of the mining operations	Rough Stone by Opencast	
	on the surrounding environment,	manual method of mining.	
	and the remedial measures for	The anticipated impact and	
	the same.	its mitigation measures are	
		detailed in Chapter 4.	
19	The Project Proponent shall	Complied. Please refer figure	223
	provide the Organization chart	10.1 of Chapter 10.	
	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	Hydro-geological study	
	conduct the hydro-geological	report will be incorporated in	
	study considering the contour	the Final EIA / EMP report.	
	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	The baseline data were	110
	baseline data for the	collected (March 2025 to May	
	environmental and ecological	2025) for the environmental	
	parameters with regard to	components including land,	
	surface water/ground water	soil, water, air, noise,	
	quality, air quality, soil quality &	biology, socio-economy, and	
	flora/fauna including	the results have been	
	traffic/vehicular movement	discussed in Chapter 3.	
	study.		
22	The Proponent shall carry out the	Detailed cumulative impact	206 &
	Cumulative impact study due to	study has been carried and	223
	mining operations carried out in	the same is incorporated in	
	the quarry specifically with	the Chapter 7.	
	reference to the specific	Accordingly, a detailed	
	environment in terms of soil	Environment Management	
	health, biodiversity, air pollution,	Plan is prepared considering	
	water pollution, climate change	air, water, noise and soil	
	and flood control & health	environment and the details	
	impacts. Accordingly, the	are given in Chapter 10.	



	Environment Management plan		
	should be prepared keeping the		
	concerned quarry and the		
	surrounding habitations in the		
	mind.		
23	Rain water harvesting	Runoff water during rainy	168
	management with recharging	season will be collected in the	
	details along with water balance	bottom quarry through	
	(both monsoon & non-monsoon)	proper drainage pattern and	
	be submitted.	the collected water will be	
		used for plantation and dust	
		suppression during dry	
		season. Rain water	
		harvesting Plan is given in	
		section 4.2.3.4 of chapter 4.	
		The water balance is given in	
		chapter 4.	
24	Land use of the study area	Land use of the study area	145
	delineating forest area,	delineating forest area,	
	agricultural land, grazing land,	agricultural land, grazing	
	wildlife sanctuary, national park,	land, wildlife sanctuary,	
	migratory routes of fauna, water	national park, migratory	
	bodies, human settlements and	routes of fauna, water	
	other ecological features should	bodies, human settlements	
	be indicated. Land use plan of the	and other ecological features	
	mine lease area should be	has been discussed in	
	prepared to encompass	Section 3.7.6 of Chapter 3.	
	preoperational, operational and	The land use plan of the	
	post operational phases and	project area showing per-	
	submitted. Impact, if any, of	operational, operational and	
		post-operational phases are	



	change of land use should be	discussed in section 2.4 of	
	given.	Chapter 2.	
25	Details of the land for storage of	As per the mining plan, there	
	Overburden/Waste Dumps (or)	is no overburden anticipated	
	Rejects outside the mine lease,	during the entire Rough	
	such as extent of land area,	Stone quarrying operation.	
	distance from mine lease, its land	The excavated rough stone	
	use, R&R issues, if any, should be	will be directly loaded into a	
	provided.	tipper to the needy other	
		buyers.	
26	Proximity to Areas declared as	Not applicable. The project is	
	'Critically Polluted' (or) the	not located in any of the said	
	Project areas which attracts the	areas mentioned in the	
	court restrictions for mining	condition.	
	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	Rain water falling in the	168
	measures proposed to be adopted	quarry will be harvested in	
	in the Project should be given.	the sump at the lowest level	
	Details of rainwater harvesting	of the quarry. This sump will	
	proposed in the Project, if any,	act as a settling pond to	
	should be provided.	prevent solids escaping along	
		with discharge, before outlet.	
		etc. Towards surface runoff	



		management, a garland drain will be constructed around the quarry and will be connected to a settling pond with silt traps. The supernatant clear water from the settling pond will be flow to the downstream users. Rain water harvesting plan is	
		given in section 4.2.3.4 of Chapter 4.	
28	Impact on local transport infrastructure due to the Project should be indicated.	There is no significant impact on the local traffic due to the proposed project. The traffic density study is given in Chapter 4, Sec 2.11.5.	105
29	A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.	Flora species within 300 m radius is given in section 3.7.7.	147
30	A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.	Detailed Mine Closure plan is given in Chapter 2, sec 2.10.	103
31	As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to	Accepted. It will be done.	



	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 Greenbelt plan is 191
	the project is to capture the	detailed in Chapter 4, Sec
	fugitive emissions, carbon	4.4.5.4.
	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	Accepted. Green belt
	raised in appropriate size of bags,	development work is in
	preferably ecofriendly bags	progress. Proof photographs
	should be planted as per the	on green belt will be
	advice of local forest	incorporated in the Final EIA
	authorities/botanist/Horticulturist	/ EMP report.
	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	A disaster management plan	203
	shall be prepared and included in	is prepared and details are	
	the EIA/EMP Report for the	given in Chapter 7, Sec 7.3.	
	complete life of the proposed		
	quarry (or) till the end of the		
	lease period.		
35	A Risk Assessment and	A Risk Assessment and	200
	management Plan shall be	management Plan is	
	prepared and included in the	prepared and given in	
	EIA/EMP Report for the complete	Chapter 7, Sec 7.2.	
	life of the proposed quarry (or) till		
	the end of the lease period.		
36	Occupational Health impacts of	Anticipated Occupational	193
	the Project should be anticipated	Health impacts of the project	
	and the proposed preventive	is given detailed in Chapter	
	measures spelt out in detail.	4. Sec 4.4.7	
	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	No major impact on public	
	Project and related activities for	health will be there since the	



	the population in the impact zone	villages are located more
	should be systematically	than 1km from the lease
	evaluated and the proposed	area. Details of CER and CSR
	remedial measures should be	are discussed under Chapter
	detailed along with budgetary	No. 8
	allocations.	
38	The Socio-economic studies	Detailed Socio Economic 155
	should be carried out within a 5	study is carried out and it is
	km buffer zone from the mining	given in Chapter 3, Sec
	activity. Measures of socio-	3.7.12
	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	There is no litigation pending
	against the project, if any, with	against the project.
	direction /order passed by any	
	Court of Law against the Project	
	should be given.	
40	Benefits of the Project if the	The project benefits are 221
	Project is implemented should be	given in Chapter 8.
	spelt out. The benefits of the	
	Project shall clearly indicate	
	environmental, social, economic,	
	employment potential, etc.	
41	If any quarrying operations were	The applied lease was
	carried out in the proposed	previously operated by other



	quarrying site for which now the	lossoos hoforo 2015 CCP is
		not applicable
	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	Affidavit for considering EMP
	the entire life of mine and also	for the entire life will be
	furnish the sworn affidavit stating	incorporated in the Final EIA/
	to abide the EMP for the entire life	EMP Report.
	of mine.	
43	Concealing any factual	Noted and Agreed.
	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.	
SEAC	Conditions - Site Specific	
1	A Cluster Management	A cluster management
	Committee (CMC) shall be	committee including all the
	constituted including all the	proponents of the rough
	mines in the cluster as	stone quarrying projects
	Committee Members for the	within the cluster of 500 m



	effective management of the	
	mining operation in the cluster	the effective implementation
	through systematic & scientific	of appropriate environmental
	approach with appointment of	management plan. Affidavit
	statutory personnel, appropriate	in this regard will be
	environmental monitoring, good	submitted during final
	maintenance of haul roads and	EIA/EMP Report.
	village/panchayat roads,	
	authorized blasting operation etc.	
	The PP shall submit the following	
	details in the form of an Affidavit	
	during the EIA appraisal: (i) Copy	
	of the agreement forming CMC.	
	(ii) The Organisation chart of the	
	Committee with defining the role	
	of the members (iii) The	
	'Standard Operating Procedures'	
	(SoP) executing the planned	
	activities.	
2	The Boundary pillars to be	Agreed. Proof photographs
	erected as per the mine rules and	for erected pillars will be
	the evidence should be submitted	submitted in the Final EIA /
	along with the EIA report.	EMP Report.
3	Since waterbodies are situated	Nearest Waterbodies:
	nearby, the PP shall carry out the	Odai-92m (N),
	hydrological study including the	Odai-198m (N),
	details of waterflow pattern to	Odai-224m (SW),
	determine the impacts of the	Odai 294m (SE),
	mining operation in the	Vaigai River–1.8km (N),
	waterbodies.	Periyar Main Canal-2.0km
		(N),



		Mavuttu Odai–3.5km (NW),
		Varaha River-4.4km (N),
		Vaigai Dam–6.2km (NW)
		Detailed Hydrogeological
		study is in progress and it will
		be incorporated in the Final
		EIA / EMP Report.
4	The details of enumeration of	There are no School and
	structures including schools,	College and health centers
	colleges, primary health centers	within 300 m radius from the
	should be submitted along with	proposed project site.
	the EIA report.	Kannimar Temple is situated
		at 285m (NW)
5	The structures within the radius	A Site survey has been
	of (i) 50 m, (ii) 100 m, (iii) 200 m	conducted to identify and list
	and (iv) 300 m & up to 1km shall	structures located within a
	be enumerated with details such	300 m radius from the
	as dwelling houses with number	proposed Quarry and
	of occupants, whether it belongs	structures located within 300
	to the owner (or) not, places of	m radius.
	worship, industries, factories,	
	sheds, etc. and spell out the	
	mitigation measures to be	
	proposed for the protection of the	
	above structures, if any during	
	the quarrying operations.	
6	The proponent shall furnish	The green belt, fencing,
	photographs of adequate fencing;	garland drain work are in
	garland drainage built with	process and the proof
	siltation tank & green belt along	photographs of the same will
	the periphery including	be submitted in the Final



	replantation of existing trees;	EIA/EMP Report. There are	
	maintaining the safety distance	no permanent structures	
	between the adjacent quarries &	within a 50-meter radius of	
	water bodies nearby provided as	the proposed project site.	
	per the approved mining plan.	As per Precise Order	
		Condition No. 1, A safety	
		distance of 7.5m to the	
		adjacent Patta lands and	
		10m to the adjacent	
		Government lands has been	
		provided as per the AMP and	
		the same will be complied	
		during the quarrying	
		operations. There is two	
		seasonal odai passing on	
		Northeastern and western	
		side and is 100 m and 230 m	
		away from the applied lease	
		area.	
7	The Proponent shall carry out Bio	The detailed Bio diversity	147
	diversity study as a part of EIA	study details are given in	
	study and the same shall be	Chapter – 3, Sec 3.7.7.	
	included in the Report.		
8	The PP shall prepare the EMP for	A detailed Environmental	
	the entire life of mine and also	Management Plan	
	furnish the sworn affidavit stating	considering entire life has	
	to abide the EMP for the entire life	been prepared and are	
	of mine.	detailed in chapter 10.	
		Affidavit stating to abide the	
		EMP for the entire life of mine	



		will be submitted in the Final	
		EIA / EMP report.	
9	The PP shall carry out the	cumulative impact study due	162 &
	comprehensive studies on the	to mining operations in	206
	cumulative environmental	cluster are given in Section	
	impacts of the existing &	7.4 of Chapter 7. Anticipated	
	proposed quarries which included	impacts and its mitigation	
	drilling & blasting, loading &	measures for various	
	hauling on the surrounding	attributes are detailed in	
	village and structures.	Chapter 4.	
10	The PP shall prepare a conceptual	The conceptual plan are	104
	action plan accommodating the	detailed in chapter 2.	
	inclusion of haul road accessibility		
	keeping the benches intact, by		
	ensuring the slope stability of the		
	working benches to be		
	constructed and existing quarry		
	wall.		
11	The PP shall install the CCTV		
	camera for the continuous		
	surveillance of mining activity &		
	furnish the	activity & furnish the	
	photographic/videographic	photographic / videographic	
	evidence along with the EIA	evidence along with the Final	
	report.	EIA report.	
	A Standard Conditions:		
	er Management Committee	I - 1	
1	Cluster Management Committee	There are three proposed	-
	shall be framed which must	quarries including this	
	include all the proponents in the	proposal, within a 500-metre	



	cluster as members including the	radius. The proponent will
	existing as well as proposed	take the initiative to form a
	quarry.	cluster management
		committee once
		environmental clearance is
		obtained for this quarry.
2	The members must coordinate	Agreed and will be complied
	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	Agreed. The list of members -
	committee formed shall be	of the committee formed will
	submitted to AD/Mines before the	be submitted to ad/mines
	execution of mining lease and the	after obtaining
	same shall be updated every year	Environmental Clearance.
	to the AD/Mines.	
4	Detailed Operational Plan must	Agreed. Details of the -
	be submitted which must include	Operation plan for cluster
	the blasting frequency with	mining operations will be
	respect to the nearby quarry	submitted once we get
	situated in the cluster, the usage	environmental clearance for
	of haul roads by the individual	all three quarries proposed in
	quarry in the form of route map	the cluster area.
	and network.	
5	The committee shall deliberate on	Risk management plan for
	risk management plan pertaining	the individual quarry is given
	to the cluster in a holistic manner	in this report. As far as
	especially during natural	cluster working condition is



	calamities like intense rain and	concerned, once the	
	the mitigation measures	committee is formed, risk	
	considering the inundation of the	management as a cluster	
	cluster and evacuation plan.	including inundation of	
		clusters and the evacuation	
		plan will be elaborated.	
6	The Cluster Management	Environmental policy for the	-
	Committee shall form	cluster will be framed by the	
	Environmental Policy to practice	cluster management	
	sustainable mining in a scientific	committee and the policy will	
	and systematic manner in	be in accordance with EPA	
	accordance with the law. The role	Act, 1986 and its	
	played by the committee in	amendments, guidelines by	
	implementing the environmental	MoEFCC/SEIAA and other	
	policy devised shall be given in	regulatory bodies. This policy	
	detail.	will be displayed in the	
		quarry.	
7	The committee shall furnish	Agreed. It will be complied as	-
	action plan regarding the	mentioned in the Point No.4	
	restoration strategy with respect		
	to the individual quarry falling		
	under the cluster in a holistic		
	manner.		
8	The committee shall deliberate on	Agreed. It will be complied as	-
	the health of the workers/staff	mentioned in the Point No.4	
	involved in the mining as well as		
	the health of the public in the		
	vicinity.		



Agric	Agriculture & Agrobiodiversity			
9	impacts on	surrounding	There are no Agriculture,	-
	agricultural fields	around the	forest area and traditional	
	proposed mining Are	ea.	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, 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	_	The chemical and physical	144
	around the project s	site.	characteristics of the soil is	
			given in Chapter 3.	4655
			The anticipated impact and	165 &
			its mitigation measures for	185
			soil environment and	
			biological environment are	



		detailed in section 4.2.2 and	
		4.4.5 of Chapter 4	
		respectively.	
11	Details of type of vegetations	The details on flora have	147
	including no. of trees & shrubs	been provided in Section	
	within the proposed mining area	3.7.7.1 under Chapter 3.	
	and. If so, transplantation of such	There is no schedule I	
	vegetations all along the	species of animals observed	
	boundary of the proposed mining	within study area as per	
	area shall committed mentioned	Wildlife Protection Act, 1972	
	in EMP.	and no species falls in	
		vulnerable, endangered or	
		threatened category as per	
		IUCN. There is no	
		endangered red list species	
		found in the study area	
12	The Environmental Impact	The ecological details have	147
	Assessment should study the	been provided in Section	
	biodiversity, the natural	3.7.7 under Chapter 3 and	
	ecosystem, the soil micro flora,	measures have been	
	fauna and soil seed banks and	provided in Section 4.4.5	
	suggest measures to maintain	under Chapter 4.	
	the natural Ecosystem.		
13	Action should specifically suggest	All the essential	162
	for sustainable management of	environmental protective	
	the area and restoration of	measures will be followed by	
	ecosystem for flow of goods and	the proponent to manage the	
	services.	surrounding environment	
		and restore the ecosystem,	
		as discussed in Chapter 4.	



14	The project proponent shall study	The impact of project on the	163
	and furnish the impact of project	land environment has been	
	on plantations in adjoining patta	discussed in Section 4.2.1	
	lands, Horticulture, Agriculture	under Chapter 4.	
	and livestock.		
Fores	ts		
15	The project proponent shall	Andipatti Northern Block R.F.	
	detailed study on impact of	– 1.4 km (E), Andipatti	
	mining on Reserve forests free	Southern Block R.F. – 3.8 km	
	ranging wildlife	(SE), Rajadani R.F. – 8.5 km	
		(E). There is no R.F witin 1	
		km radius. The anticipated	
		impact and its mitigation	
		measures for biological	
		environment are detailed in	
		section 4.4.5 of Chapter 4.	
		The project proponent shall	
		do barbed wire fencing work	
		and develop a green belt	
		around the lease area to	
		prevent wildlife from	
		entering the site.	
16	The Environmental Impact	The impacts of the project on	185
	Assessment should study impact	ecology and biodiversity	
	on forest, vegetation, endemic,	have been discussed in	
	vulnerable and endangered	Section 4.4.5 under Chapter	
	indigenous flora and fauna	4.	
17	The Environmental Impact	Not Applicable.	-
	Assessment should study impact		
	on standing trees and the existing		



	trees should be numbered and		
	action suggested for protection.		
18	The Environmental Impact	Srivilliputhur Megamalai	-
	Assessment should study impact	Tiger Reserve- 8.7km (S).	
	on protected areas, Reserve	Impact and its mitigation	
	Forests, National Parks, Corridors	measures are detailed in	
	and Wildlife pathways, near	Chapter 4.	
	project site.		
Wate	r Environment		
19	Hydro-geological study	A detailed hydrogeological	-
	considering the contour map of	report will be included in the	
	the water table detailing the	final EIA/EMP report.	
	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.		
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.	
21	Detailed study shall be carried out	Complied. The study details	162
	in regard to impact of mining	are incorporated in Chapter	
	around the proposed mine lease	3.	
	area on the nearby Villages,	Anticipated impacts and its	
	Water-bodies/ Rivers, & any	mitigation measures are	
	ecological fragile areas	detailed in Chapter 4.	
22	The project proponent shall study	There is no wastewater	
	impact on fish habitats and the	generation from this Quarry,	
	food WEB/ food chain in the water	so this is not applicable.	
	body and Reservoir.		
23	The project proponent shall study	Fragmentation impact on the	
	and furnish the details on	environment may be due to	
	potential fragmentation impact	drilling. The anticipated	
	on natural environment by the	impacts and mitigation	
	activities.	measures are discussed in	
		Chapter 4.	
24	The project proponent shall study	The Flora and Fauna study	147
	and furnish the impact on aquatic	covering 10 km radius are	
	plants and animals in water	detailed in section 3.7.7 of	
	bodies and possible scars on the	chapter 3.	
	landscape, damages to nearby	The impacts anticipated with	
	caves, heritage site, and	respect to the environment	
	archaeological sites possible land	of the project area is very	
	form changes visual and aesthetic	negligible and it will be	
	impacts	minimized within the project	
		area.	
		Greenbelt / Plantation will be	
		carried out to enhance the	



		vegetative growth and	
		aesthetic in the safety zone	
		area.	
25	The Terms of Reference should	The impact of mining on soil	165
	specifically study impact on soil	environment has been	
	health, soil erosion, the soil	discussed in Section 4.2.2	
	physical, chemical components	under Chapter 4.	
	and microbial components.		
26	The Environmental Impact	The anticipated impact and	166
	Assessment should study on	its mitigation measures for	
	wetlands, water bodies, rivers	Water Environment are	
	streams, lakes and farmer sites.	detailed in section 4.2.3 of	
		Chapter 4.	
27	The EIA shall include the impact	The proposed quarry	
	of mining activity on the	operation is Opencast	
	following: a)	method of manual method of	
	Hydrothermal/Geothermal effect	mining with 5m height and	
	due to destruction in the	5m width of the bench. So,	
	Environment. b) Bio-geochemical	the effect of	
	processes and its foot prints	Hydrothermal/Geothermal is	
	including Environmental stress.	not envisaged.	
	c) Sediment geochemistry in the		
	surface streams.		
Energ			
28	The measures taken to control		162
	Noise, Air, Water, Dust Control		
	and steps adopted to efficiently	dust have been given under	
	utilize the Energy shall be	Chapter 4.	
	furnished		
Clima	te Change		



29	The Environmental Impact	Only the best equipment will	-
	Assessment shall study in detail	be used, and it will be	
	the carbon emission and also	properly and regularly	
	suggest the measures to mitigate	maintained. Regular	
	carbon emission including	vehicular emission tests will	
	development of carbon sinks and	be conducted on the	
	temperature reduction including	transport vehicles to ensure	
	control of other emission and	minimal carbon emissions.	
	climate mitigation activities.	To further reduce carbon	
30	The Environmental Impact	emissions, a good greenbelt	-
	Assessment should study impact	plan has been planned.	
	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	Detailed mine closure plan is	219 &
	covering the entire mine lease	given in section 7.5 of	103
	period as per precise area	Chapter 7. Post mining land	
	communication order issued.	use pattern is shown in	
		section 2.10 of Chapter 2.	
EMP			
33	Detailed Environment	Complied. The details are	223
	Management Plan along with	described in Chapter 10.	
	adaptation, mitigation & remedial		



	T	Г	1
	strategies covering the entire		
	mine lease period as per precise		
	area communication order issued		
	and the scope for achieving		
	SDGs.		
34	The Environmental Impact	The capital cost of Rs. 8.58	230
	Assessment should hold detailed	Lakhs and the recurring cost	
	study on EMP with budget for	of Rs. 11.0 Lakhs for five	
	Green belt development and mine	years have been allocated	
	closure plan including disaster	under the EMP budget.	
	management plan.	The breakup of the same is	
		given in Table 10.5 of	
		Chapter 10.	
Risk	Assessment		
35	To furnish risk assessment and	Risk assessment and	200
	management plan including	Management plan are	
	anticipated vulnerabilities during	detailed in section 7.2,	
	operational and post operational	chapter 7.	
	phases of Mining.		
Disas	ter Management Plan		
36	To furnish disaster management	Disaster Management plan	203
	plan and disaster mitigation	are detailed in section 7.3,	
	measures in regard to all aspects	Chapter 7.	
	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		
L			



	lease period as per precise area		
	communication order issued.		
Other	rs		
37	The project Proponent shall	Compiled. There are no -	
	furnish VAO certificate with	historical places, schools,	
	reference to 300m radius regard	cemeteries, bird sanctuaries,	
	to approved habitations, schools,	and wildlife sanctuaries	
	Archaeological sites, Structures,	within 300 meters of the	
	railway lines, roads, water bodies	proposed project area.	
	such as streams, odai, vaari,		
	canal, channel, river, lake pond,		
	tank etc.		
38	As per the MoEF& cc office	The concerns raised during -	
	memorandum F.No.z2-6512017-	the public consultation and	
	tA.III dated: 30.09.2020 and	all the activities proposed will	
	20.10.2020 the proponent shall	be updated in the final EIA	
	address the concerns raised	report.	
	during the public consultation and		
	all the activities proposed shall be		
	part of the Environment		
	Management plan.		
39	The project proponent shall study	Complied. The PP has framed -	
	and furnish the possible pollution	detail solid waste	
	due to plastic and microplastic on	management system for the	
	the environment. The ecological	project are and the same will	
	risks and impacts of plastic &	be executed by proper	
	microplastics on aquatic	awareness and sign boards.	
	environment and fresh water	The sign boards will be in two	
	systems due to activities,	language i.e., Vernacular	
	contemplated during mining may	language (Tamil) and	
	be investigated and reported.	common language (English).	



		The plastic waste generation	
		is very negligible and it will	
		be collected from the source	
		level in specific dustbin and	
		disposed through the	
		municipal bins.	
C. Sta	indard ToR		
1	Year-wise production details	Not applicable.	-
	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	This proposed project area is	-
	support of the fact that the	classified as Government	
	proponent is the rightful lessee of	land and the applicant has	
	the mine should be given.	obtained tender from the	
		Government Please refer	
		Annexure 1.	
S	All documents including approved	Noted & agreed. All	-
	mine plan, EIA and public Hearing	documents including	
	should be compatible with one	approved mine plan, EIA and	
	another in terms of the mine	Public Hearing are	
	lease area, production levels,	compatible with one another	
	waste generation and its	in terms of the mine lease	
	management, mining technology	area, production levels,	



e	etc. and should be in the name of	waste generation and its	
th	he lessee.	management, mining	
		technology etc. and is in the	
		name of the lessee.	
4 A	All comer coordinates of the mine	Project area is superimposed	120,
le	ease area, superimposed on a	on Satellite imagery is	121,
Н	ligh -Resolution Imagery/ topo	enclosed in Figure No. 3.4.	154 &
sl	heet, topographic sheet,	Project area boundary	155
g	eomorphology and geology of	coordinates superimposed on	
th	he area should be provided.	Toposheet & Surface	
S	Such an Imagery of the proposed	Features around the project	
а	rea should clearly show the land	area covering 10km radius.	
u	ise and other ecological features	Geology map of the project	
0	of the study area (core and buffer	area covering 10km radius.	
Z	one).	Geomorphology Map of the	
		Study Area covering 10 km	
		radius is given in section	
		3.7.10 in Chapter 3.	
5 Ir	nformation should be provided in	The following map in	154 &
S	Survey of India Topo sheet in	1:50,000 Scale:	155
1:	:50,000 scare indicating	Geology map of the project	
g	jeological map of the area,	area covering 10km radius.	
g	geomorphology of land forms of	Geomorphology Map of the	
th	he area, existing minerals and	Study Area covering 10 km	
m	nining history of the area,	radius of section 3.7.10 in	
ir	mportant water bodies, streams	Chapter 3.	
a	and rivers and soil		
	haracteristics.		
	Details about the land proposed	Not Applicable. The proposed	-
fo	or mining activities should be	land is Government land, The	
	given with information as to		



	whether mining conforms to the	copy of the land document is
	land use policy of the State; land	attached as Annexure – 5.
	diversion for mining should have	
	approval from State land use	
	board or the concerned authority.	
7	It should be clearly stated	The proposed quarry is small 223
	whether the proponent company	scale magnitude operation
	has a well laid down Environment	and controlled by the lessee
	Policy approved by its Board of	individually by engaging
	Directors? If so, it may be spelt	optimum statutory
	out in the EIA Report with	personals.
	description of the prescribed	Based on the magnitude of
	operating process/procedures to	the operation, the PP has
	bring into focus any	framed Environmental Policy
	infringement/deviation/ violation	and the same is incorporated
	of the environmental or forest	in section 10.4 of Chapter 10.
	norms/ conditions? The	The Mines Manager will
	hierarchical system or	undertake effective
	administrative order of the	monitoring and
	Company to deal with the	implementation of various
	environmental issues and for	environmental control
	ensuring compliance with the EC	measures promptly and
	conditions may also be given. The	effectively and to oversee
	system of reporting of non-	various environmental
	compliances / violations of	management schemes for air
	environmental norms to the	quality control, water quality
	Board of Directors of the	status, noise level control,
	company and/or shareholders or	plantation program, social
	stakeholders at large, may also	development schemes, etc in
	be detailed in the EIA Report.	the mine. The organizational
		chart for the same has been



		provided in Figure No.10.1,	
		Chapter-10.	
8	Issues relating to Mine Safety,	Various risks likely to arise	200
	including subsidence study in	due to mining activities are	
	case of underground mining and	detailed under section 7.2,	
	slope study in case of open cast	Chapter-7. This being an of	
	mining, blasting study etc. should	manual method of mining	
	be detailed. The proposed	without blasting. subsidence	
	safeguard measures in each case	and ground vibration is not	
	should also be provided.	applicable.	
9	The study area will comprise of IO	Noted & Agreed	-
	km zone around the mine lease	The study area considered	
	from lease periphery and the data	for this study is 10 km radius	
	contained in the EIA such as	and all data contained in the	
	waste generation etc. should be	EIA report such as waste	
	for the life of the mine / lease	generation etc., is for the Life	
	period.	of the Mine / lease period.	
10	Land use of the study area	Satellite imagery has been	145
	delineating forest area,	used to study land use and	
	agricultural land, grazing land,	the details of land use in the	
	wildlife sanctuary. national park,	core and buffer zone is given	
	migratory routes of fauna, water	in section 3.7.6 of Chapter 3.	
	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	There is no waste generation	-
	Burden Dumps outside the mine	anticipated in this quarry	
	lease, such as extent of land	operation since the entire	
	area, distance from mine lease,	excavated material will be	
	its land use, R&R issues, if any,	utilized. The top soil	
	should be given.	generated will be utilized for	
		afforestation purpose.	
		Hence, there is no external	
		overburden dump involved.	
12	A Certificate from the Competent	There is no Forest Land	-
	Authority in the State Forest	involved in the proposed	
	Department should be provided,	project area. The proposed	
	confirming the involvement of	project area is a government	
	forest land, if any, in the project	land. Approved Mining Plan is	
	area. In the event of any contrary	enclosed in Annexure – 3.	
	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	Not Applicable. The proposed	-
	the broken-up area and virgin	project area does not involve	
	forestland involved in the Project	any Forest Land.	
	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	Not Applicable. The project	-
	recognition of forest rights under	doesn't attract Recognition of	
	the Scheduled Tribes and other	Forest Rights Act, 2006.	
	Traditional Forest Dwellers		
	(Recognition of Forest Rights)		
	Act,2006 should be indicated.		
15	The vegetation in the RF / PF	Andipatti Northern Block R.F.	-
	areas in the study area, with	– 1.4 km (E), Andipatti	
	necessary details, should be	Southern Block R.F. – 3.8 km	
	given.	(SE), Rajadani R.F. – 8.5 km	
		(E). There is no R.F within 1	
		km radius.	
16	A study shall be got done to	Srivilliputhur Megamalai	-
	ascertain the impact of the Mining	Tiger Reserve- 8.7km (S).	
	Project on wildlife of the study	Anticipated impact and	
	area and details furnished.	mitigation measures is given	
	Impact of the project on the	in Chapter 4.	
	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,	Srivilliputhur Megamalai	-
	Sanctuaries, Biosphere Reserves,	Tiger Reserve- 8.7km (S).	
	Wildlife Corridors, Ramsar site	Anticipated impact and	
	Tiger/ Elephant	mitigation measures is given	
	Reserves/(existing as well as	in Chapter 4.	
	proposed), if any, within I0 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	Flora and fauna composition	147
	study area [core zone and buffer	in the core and buffer zone of	
	zone (10 km radius of the	the project has been studied	
	periphery of the mine lease)]	through primary field	
	shall be carried out. Details of	surveys. The details are	
	flora and fauna, endangered,	furnished in section 3.7.7 of	
	endemic and RET Species duly	Chapter 3.	
	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	Not Applicable	-
	'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	Not Applicable	-
	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 The mining activities will be for the project Affected people carried out within the mine (PAP) should be furnished. While lease area only. The entire preparing the R&R Plan, the mine lease area of 1.60.0 Ha relevant State/ National is a Government Land. There Rehabilitation & Resettlement is no population within the policy should be kept in view. In ML area. Hence, the question respect of SCs /STs and other of R& R does not arise. 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, the integrating 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.	Baseline Data were collected
	March-May (Summer Season);	for One Season (Non-
	October-December (post	Monsoon) March to May 2025
	monsoon season); December-	as per CPCB Notification and
	February (winter season)]	MoEF & CC Guidelines and
	primary baseline data on ambient	Detailed in Chapter - 3.
	air quality as per CPCB	
	Notification of2009, water	
	quality, noise revel, soil and flora	
	and fauna shall be collected and	
	the AAQ and other data so	
	compiled presented date-wise in	
	the EIA and EMP Report. Site-	
	specific meteorological data	
	should also be collected. The	
	location of the monitoring	
	stations should be such as to	
	represent whole of the study area	
	and justified keeping in view the	
	pre-dominant downwind direction	
	and location of sensitive	
	receptors. There should be at	
	least one monitoring station	
	within 500 m of the mine lease in	
	the pre-dominant downwind	
	direction. The mineralogical	
	composition of PM10, particularly	
	for free silica, should be given.	
23	Air quality modeling should be	Modelling is done using 173 -
	carried out for prediction of	. ,
	impact of the project on the air	values are found to be within



	quality of the area. It should also	the norms. Hence, there is no	
	take into account the impact of	major impact due to this	
	movement of Vehicles for	mining project. The	
	transportation of mineral. The	cumulative impact of mining	
	details of the model used and	is also studied and the same	
	input parameters used for	is found to be within norms.	
	modeling should be provided. The	The details are given in	
	air quality contours may be	section 4.8 of Chapter 4 and	
	shown on a location map clearly	for cluster - 7.4.1 of Chapter	
	indicating the location of the site,	7.	
	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	The entire water requirement	
	Project, its availability and source	for the project is 4 KLD which	
	should be furnished. A detailed	will be sourced from outside	
	water balance should also be	agencies. The water balance	
	provided. Fresh water	diagram is shown in Chapter	
	provided. Fresh water requirement for the Project		
		diagram is shown in Chapter	
25	requirement for the Project	diagram is shown in Chapter	-
25	requirement for the Project should be indicated.	diagram is shown in Chapter 4	-
25	requirement for the Project should be indicated. Necessary clearance from the	diagram is shown in Chapter 4 Not Applicable. The required	-
25	requirement for the Project should be indicated. Necessary clearance from the Competent Authority for drawl of	diagram is shown in Chapter 4 Not Applicable. The required water will be outsourced	-
25	requirement for the Project should be indicated. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the	diagram is shown in Chapter 4 Not Applicable. The required water will be outsourced	- 168
	requirement for the Project should be indicated. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.	diagram is shown in Chapter 4 Not Applicable. The required water will be outsourced from the nearby village.	- 168
	requirement for the Project should be indicated. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided. Description of water conservation	diagram is shown in Chapter 4 Not Applicable. The required water will be outsourced from the nearby village. Details of the water	- 168
	requirement for the Project should be indicated. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided. Description of water conservation measures proposed to be adopted	diagram is shown in Chapter 4 Not Applicable. The required water will be outsourced from the nearby village. Details of the water conservation plan are given	168



	proposed in the Project, if any,	in section 4.2.3.4 of Chapter	
	should be provided.	4.	
27	Impact of the Project on the	Impact Studies and	166
	water quality, both surface and	Mitigation Measures of Water	
	groundwater, should be assessed	Environment including	
	and necessary safeguard	Surface Water and Ground	
	measures, if any required, should	Water are discussed in	
	be provided.	Section 4.2.3.	
28	Based on actual monitored data,	As per the mining plan, the	-
	it may clearly be shown whether	ground water table of the	
	working will intersect	project surrounding area is	
	groundwater. Necessary data and	60.0 m BGL and proposed	
	documentation in this regard may	depth of the quarry operation	
	be provided. In case the working	is 35 m BGL. So, the	
	will intersect groundwater table,	proposed mine working will	
	a detailed Hydro Geological Study	not intersect the ground	
	should be undertaken and Report	water table.	
	furnished. The Report inter-ali4		
	shall include details of the		
	aquifers present and impact of		
	mining activities on these		
	aquifers. Necessary permission		
	from Central Ground water		
	Authority for working below		
	ground water and for pumping of		
	ground water should also be		
	obtained and copy furnished.		
29	Details of any stream, seasonal or	Not Applicable	-
	otherwise, passing through the	No stream passing through	
	lease area and modification /	the mine lease area.	
	diversion proposed, if any, and		



	the impact of the same on the		
	hydrology should be brought out.		
30	Information on site elevation,	Altitude of 284 m	-
	working depth, groundwater	the area from MSL	
	table etc. Should be provided	Ultimate 35 m BGL	
	both in AMSL and bgl. A	Depth	
	schematic diagram may also be	Ground water 60 m BGL.	
	provided for the same.		
31	A time bound Progressive	Greenbelt Development Plan	191
	Greenbelt Development Plan shall	& Recommended Species	
	be prepared in a tabular form	proposed for Greenbelt	
	(indicating the linear and	Development are detailed in	
	quantitative coverage, plant	Section 4.4.5.4.	
	species and time frame) and	0.41.0 hectares of land are	
	submitted, keeping in mind, the	allotted for greenbelt	
	same will have to be executed up	development.	
	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,	was carried out to analyze the impact of transportation	105
	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.	Temporary Infrastructure & other facilities will be provided to the Mine Workers after the grant of quarry lease and the same has been discussed in Section 2.11.6 of Chapter 2.	109
34	Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of	At the conceptual stage the quarried-out land will be fenced and lower benches will be allowed to collect rain	103



	sections) should be given in the	water to act as a temporary	
	EIA report.	reservoir and Greenbelt	
		development will be carried	
		out on the top bench,	
		unutilized areas and haul	
		roads.	
		Mine closure plan is detailed	
		in Section 2.10 of Chapter 2.	
35	Occupational Health impacts of	Details of occupational health	193
	the Project should be anticipated	and safety aspects are given	
	and the proposed preventive	under the Section 4.4.7 &	
	measures spelt out in detail.	Section 10.4.	
	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	No major impact on public	
	Project and related activities for	health will be there since the	
	the population in the impact zone	villages are located more	
	should be systematically	than 1km from the lease	
	evaluated and the proposed	area.	
	remedial measures should be		
	detailed along with budgetary		
	allocations.		
37	Measures of socio-economic		-
	significance and influence to the	employment to 20 people	



		divertible to and manufactually had	
	local community proposed to be		
	provided by the Project	hired for unskilled labour.	
	Proponent should be indicated. As	Through CSR, nearby	
	far as possible, quantitative	schools, hospitals will be	
	dimensions may be given with	benefitted. For CSR, INR 3.0	
	time frames for implementation.	Lakh is allocated. Based on	
		the demand of the people	
		during public hearing, further	
		funds will be allocated, if	
		necessary.	
38	Detailed Environmental	Environmental Management	223
	Management Plan (EMP) to	plan details are given in	
	mitigate the environmental	Chapter 10.	
	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	During public hearing	-
	commitment of the Project	process, the opinions and	
	Proponent on the same along	demands of the people will	
	with time bound Action Plan with	be noted. The replies and	
	budgetary provisions to	commitment made by the	
	implement the same should be	proponent along with time	
	provided and also incorporated in	bound action plan wherever	
	the final EIA/EMP Report of the	applicable will be provided in	
	Project.	Final EIA/EMP report.	



against the project, if any, with against the project. direction /order paced by any	
direction /order paced by any	
Court of Law against the Project	
should be given.	
The cost of the Project (capital Project Cost is Rs. 79.0	8/
cost and recurring cost) as well as lakhs	
the cost towards implementation CER Cost is Rs.3.0/- lakh	S
of EMP should be clearly spelt out. EMP Cost	
Capital Cost is Rs. 8.58	
Lakhs	
Recurring Cost is Rs. 11.0	
Lakhs for five years.	
42 A Disaster management Plan Disaster management p	lan 203
shall be prepared and included in are provided under sect	ion
the EIA/EMP Report. 7.3 of Chapter-7.	
Benefits of the Project if the Detailed in Chapter 8.	221
Project is implemented should be	
spelt out. The benefits of the	
Project shall clearly indicate	
environmental, social, economic,	
employment potential, etc.	
Besides the above, the below mentioned general points are	also to be
followed.	
A Executive Summary of the Yes, Complied.	-
EIA/EMP Report	
B All documents to be properly Yes, Complied.	-
referenced with index and	
continuous page numbering.	



С	Where data are presented in the	Yes, Complied.	-
	Report especially in Tables, the		
	period in which the data were		
	collected and the sources should		
	be indicated.		
D	Project Proponent shall enclose	Yes, Complied.	-
	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,		
Е	Where the documents provided	Yes, Complied.	-
	are in a language other than		
	English, an English translation		
	should be provided.		
F	The Questionnaire for	Yes, Complied.	-
	environmental appraisal of		
	mining projects as devised earlier		
	by the Ministry shall also be filled		
	and submitted.		
G	While preparing the EIA report,	Noted & Agreed	-
	the instructions for the		
	Proponents and instructions for		
	the Consultants issued by		
	MoEF&CC vide O.M. No. J- I		
	1013/41/2006-IA.11 0) dated		
	4th August, 2009, which are		
	available on the website of this		
	Ministry, should be followed.		



Н	Changes, if any made in the basic	Yes, Complied.	_
	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-	Yes, Complied.	-
	11011/1618/2010-IA.II (I) dated		
	30.5.2012, certified report of the		
	status of compliance of the		
	conditions stipulated in the		
	Environment Clearance the		
	existing operations of the project,		
	should be obtained from the		
	Regional office of Ministry of		
	Environment, Forest and Climate		
	Change, as may be applicable.		
J	The EIA report should also include	Yes, Complied.	-
	(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

1.1 PURPOSE OF THE REPORT

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

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

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

TMT. M. Parimala proposes to operate Rough Stone Quarry over an extent of 1.60.0 Ha. Government land in S.F.No. 1432/3(Part) of Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, Tamil Nadu and ToR obtained vide TOR Identification No. TO25B0108TN5292193N Dated: 25.07.2025 and this proposed mining is planned to adopt open cast Manual method of mining with 5m height and 5 m width of the bench.

The applied lease area was previously operated by other lessee before 2015. The dimension of existing pits in the area applied for leases as per approved mining plan is given below.

Description	Length (Max) (m)	Width (Max) (m)	Depth (Max) (m)
Pit I	96	38	15 m BGL
Pit II	85	70	15 m BGL



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

	Table – 1.1 Cluster Mines Details				
SI. No	Extent	Proponent	Status of lease		
1	1.60.0 Ha	Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt.M.Parimala (President) (Register No.61/2021), No.2, North Street, Rajagopalanpatti, Thimmarasanayakkanur, Andipatti Taluk, Theni District.	Proposed		
2	2.50.0 Ha	Tvl.Vannathiparai Nagammal Kalludaikum Magalir Sangam, Tmt.T.Thavamani (President) (Register No.62/2021), No.2, North Street, Rajagopalanpatti, Thimmarasanayakkanur, Andipatti Taluk, Theni District – 625 536.	Proposed		
3	1.17.5	Thiru.R.Murugan, S/o. Rengasamy, North Street, T.Rajagopalapantti, Andipatti Taluk, Theni District.	Proposed		
	Total extent is 5.27.5 Ha including this proposed project				

As such Common EIA for the 3 projects falling in the cluster with assessment of impacts and EMP separately is carried out. Cluster area calculated as per MoEFCC Notification S.O. 2269(E) Dated 1st July 2016. Satellite image of Quarries in Cluster is shown in Fig 1.1.

As per 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/539887/2025, Dated: 31/05/2025. The ToR proposal was placed in 585th SEAC-II meeting held on 03.07.2025 and 856th SEIAA meeting held on 21.07.2025. Then ToR has been issued by the SEIAA vide TOR Identification No. TO25B0108TN5292193N/2025 Dated: 25.07.2025 to



prepare the EIA report as per the recommended ToR for conducting Public hearing and obtaining Environmental Clearance from the SEIAA.



Figure 1.1 Satellite Image showing cluster quarries



1.2 IDENTIFICATION OF PROJECT AND PROJECT PROPONENT

1.2.1 IDENTIFICATION OF PROJECT

Table -1.2 Project Identification

Name of the Project	Proposed Rough Stone Quarry of Tmt. M. Parimala – President of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam
S.F No.	1432/3(Part)
Location of the Project	Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, Tamil Nadu
Extent	1.60.0 Ha.
Type of Land	Government Land

1.2.2 IDENTIFICATION OF PROJECT PROPONENT

Table -1.3- Details of Project Proponent

Name of the Project Proponent	Tmt. M. Parimala – President of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam
Communicatio n address	TVL.VANNATHIPARAINAGAMMALKALLUDAIKUMMAGALIRSANG AM TMT. M. PARIMALA (PRESIDENT) (REGISTERNO.61/2021),SOUTHSTREET,RAJAGOPALANPATTI, ANDIPATTITALUK,THENI – 625 536.
Mail id	manikandan978772@gmail.com
Mobile No.	97871 58214

1.3 BRIEF DESCRIPTION OF THE PROJECT

1.3.1 NATURE AND SIZE OF THE PROJECT

The quarrying operation will be conducted using the Opencast Manual method, forming benches with a height and width of 5.0 meters each. A jackhammer will be used for drilling, and loading will be done manually with a JCB.



Table - 1.4 Brief Descriptions of the Project

Name of the Quarry	Tmt.M. Parimala F	Rough Stone Quarry		
Toposheet No	58 F /12			
Latitude between	10°01'31.08"N to 10°01'37.17"N			
Longitude between	77°38'22.55"E	to 77°38'27.31"E		
The altitude of the area	284m	n (MSL)		
Proposed Depth of Mining	35 m BGL			
	Rougl	Rough Stone		
Geological Resources	3,42,	,645m³		
Mineable Reserves	1,52,	,260m³		
Proposed Production	1,52,	,260m³		
Ultimate pit Depth	35m (below ground level)			
Water Level in the area	60 m bgl			
Method of Mining	Opencast Manual method of mining			
	without	t blasting		
Topography	The area applied for quarry lease exhibits			
	almost plain topography covered by			
	rough stone formation. The massive			
	Gneissic Rock formation is noticed right			
	from the surface and sloping towards			
	Southeastern side of the area, the			
	altitude of the area is above 284m			
	(maximum) from MSL.			
Machinery Proposed	Jack Hammer	1 No		
	Compressor	1 No		
	Excavator	1 No		
	Tipper (5/10 T)	2 Nos		
Proposed Manpower Development	20 Nos			
Water Requirement	4 KLD			



Greenbelt Development	The safety zone of 0.41.0 ha will be
	developed with about 410 nos of
	plantation.
Fuel Requirement	1,21,808 liters of HSD (Entire Project
	Life)
Project Cost	Rs.78.19 Lakhs
EMP Cost	Rs. 16.69 Lakhs
CER Cost	Rs.3.0 Lakhs will be spent as CER Cost.

1.3.2 NATURE OF THE PROJECT

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

1.3.3 LOCATION OF PROJECT

The proposed Quarry lease area is situated at S.F.No. 1432/3(Part), Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, Tamil Nadu. The area lies in the north latitude of 10°01'31.08"N to 10°01'37.17"N and eastern longitude of 77°38'22.55"E to 77°38'27.31"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.

1.4 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.



1.5 REGULATORY COMPLIANCES

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

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



1.5.1PRESENT LEGAL STATUS

Table 1.5 - Present Legal Status

	Issuing Authority				
Description		Status	Letter number	Date	Reference
Precise Area Communication	District Collector, Theni	Received	R0c.No.104/Kanimam/2024	09.12.2024	Annexure - 1
II ATTAT	Assistant Director, Dept. of Geology and Mining, Theni	Approved	Roc.No.104/Mines/2024	02.04.2025	Annexure-2
District Courses	Collector, Assistant Director, Geology & Mining Theni	Authenticated	As per S.O. 3611(E) dated 25.07.2018		
Коротс				10.06.2019	-
500m radius Cluster Letter	Assistant Director, Geology & Mining, Theni	Obtained	Roc.No. 104/Mines/2023	22.05.2025	Annexure-3
VAO NOC for features within 300m radius	VAO, Thimmarasanaickanur Bit-2 Village	obtained	-	17.04.2025	Annexure-4



1.5.2 SCREENING

As per the Environmental Impact Assessment (EIA) Notification dated 14th September 2006 and its subsequent amendments the proposed quarry mining project falls under 'Category B1(Cluster Situation)', which requires Environmental Clearance from the State Environmental Impact Assessment Authority (SEIAA). The project proponent has appointed M/s. Global Mining Solutions, Salem, who are accredited by the National Accreditation Board for Education and Training (NABET), Quality Council of India (QCI), New Delhi, under the registration number NABET/EIA/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 (MoEFCC) requirements.

1.5.3 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, Tamil Nadu vide TOR Identification No. TO25B0108TN5292193N/2025 (F.No.12270), Dated: 25.07.2025. 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 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.

1.6 NEED AND JUSTIFICATION OF THE PROJECT

- Proposed mining project will fulfill the local market requirement for real estate and infrastructure industry. This project will also provide employment to local people helping them earn livelihood.
- Employment generated consequent to the mining activity in the project will be benefit local and rural population and will have multiplier effects on local economy.
- The Project will give tremendous boosts to the local and regional economy benefiting the population.



 The social benefits arising out of this proposal can be expressed in terms of increase in the standards of living of local population, educational opportunities, training and development of skills etc.

1.7 STRUCTURE OF THE REPORT

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

1. Introduction

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

2. Project Description

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

3. Description of the Environment

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

4. Anticipated Environmental Impacts & Mitigation Measures

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

5. Analysis of Alternatives (Site and Technology)

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



6. Environmental Monitoring Program

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

7. Additional Studies

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

8. Project Benefits

This chapter 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.



2.0 PROJECT DESCRIPTION

2.1 TYPE OF THE PROJECT

The proposed activity is the extraction of Rough Stone by open cast manual method of mining without blasting.

This project proposed to produce 1,52,260m3 of Rough Stone and for the period of first 5 years with ultimate depth up to 35 m.

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 Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, Tamil Nadu State. The area lies in the north latitude of 10°01'31.08"N to 10°01'37.17"N and eastern longitude of 77°38'22.55"E to 77°38'27.31"E and Toposheet number 58F/12. 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 and the applicant has obtained tender from the Government. The M.L area details are presented in below Table.



Table 2.1 Boundary Coordinates of the Project

Corners	Co- ordinates		
	Latitude	Longitude	
1	10° 01' 32.29"N	77° 38' 22.55"E	
2	10° 01' 35.08"N	77° 38' 23.22"E	
3	10° 01' 36.29"N	77° 38' 23.37"E	
4	10° 01' 37.08"N	77° 38' 23.78"E	
5	10° 01' 37.17"N	77° 38' 24.34"E	
6	10° 01' 35.67"N	77° 38' 27.31"E	
7	10° 01' 31.08"N	77° 38' 25.39"E	
8	10° 01' 31.17"N	77° 38' 25.01"E	
9	10° 01' 32.49"N	77° 38' 23.68"E	

Table 2.2 Mine Lease Area and its Ownership

Location	S.F. No	Area in Ha	Name of the owner	Govt land	Remarks
Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, Tamil Nadu	1432/3 (Part)	1.60.0	Government Land	Yes	It is Government land the applicant has obtained tender from the
Total	-	1.60.0	-	-	Government Please refer Annexure –I.,

Table 2.3 Site Connectivity

Nearest Roadway	The project site is approachable from Anaikaraipatti-			
	Shelkarpatti village road- (SE).			
	The National Highway (NH-85) Madurai- Bodinaickanur			
	Road- 2.3 Km (S)			
	The State Highway (SH-101) Devathanapatti-			
	Varusanadu Road- 4.8Km (NW)			
Nearest Village	Rajagopalanpatti Habitation – 388m, (NE)			
Nearest Railway	Andipatti Railway Station 3.6km (S)			
Nearest Airport	Madurai International Airport – 53 km (SE)			



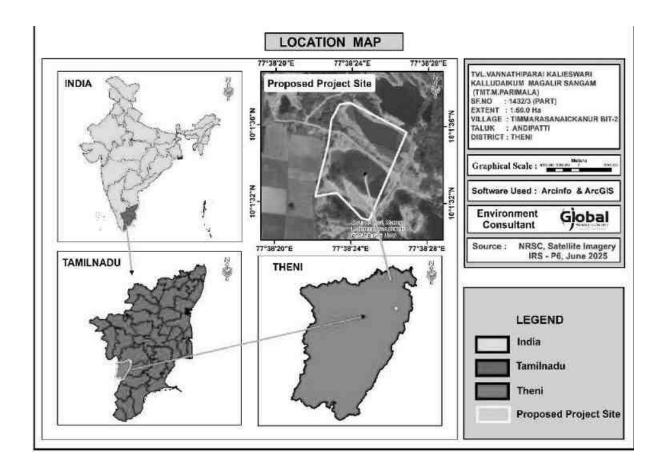


Figure 2.1 Location Map



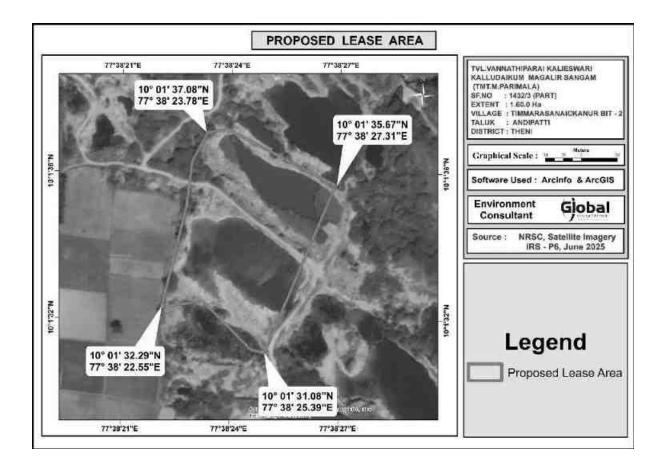


Figure 2.2 Google Image of the project site



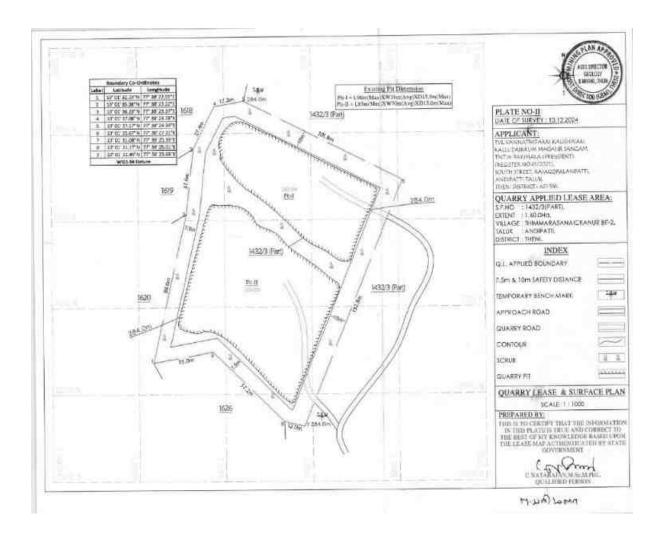


Figure 2.3 Lease Plan



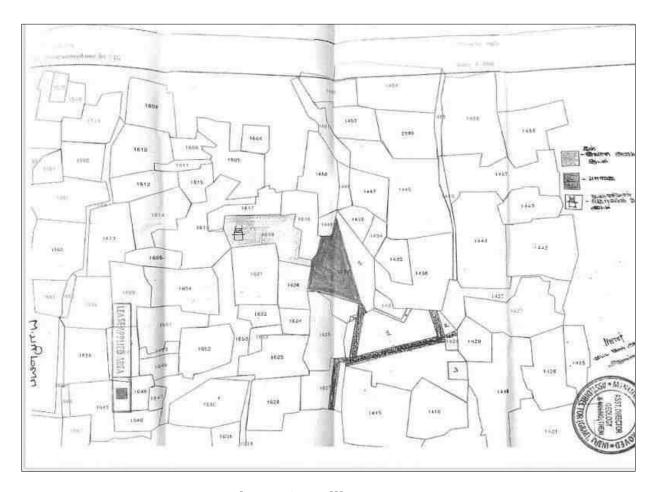


Figure 2.4 Village Map





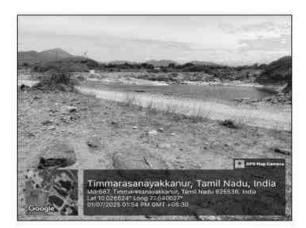






Figure 2.5 Site Photographs

2.4 LAND USE PATTERN OF THE PROJECT AREA

The entire project site is Government land and the allotted to PP for rough stone quarry operation by Government of Tamil Nadu through tender. 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	0.96.0	1.17.0
Infrastructure	Nil	0.01.0



Total	1.60.0	1.60.0
Unutilized	0.63.0	Nil
Greenbelt	Nil	0.41.0
Roads	0.01.0	0.01.0

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 1.60.0 Ha and to produce 1,52,260m³ of Rough Stone for the period of 5 years with ultimate depth upto 35 m. 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 almost plain topography covered by rough stone formation. The massive Gneissic Rock formation is noticed right from the surface and sloping towards southeastern side of the area, the altitude of the area is above 284m (maximum) from MSL. No major river is found nearby the lease applied area.

2.7 GEOLOGY

2.7.1 REGIONAL GEOLOGY

The Western Ghats comprises Charnockite Group of rocks while the plains are underlain by hornblende – biotite gneiss, silimanite- garnet-biotite gneiss. Alluvium quaternary sediments are spread almost in central part of the district. Around 70% of the total area is covered with charnockite followed by migmatite and khondalite. The high grade metamorphic rocks are well exposed in the Theni district on the moderate to steeply sloping hills. These rocks are characterized into three Groups viz. i. Khondalite Group comprising of quartzite, pyroxene granulite, calc gneiss / spinel gneiss, crystalline limestone, minor garnet-cordierite gneiss and garnetiferous quartzo feldspathic gneiss (leptynite). ii. Charnockite Group



consisting of acid charnockite and pyroxene granulite. iii. Migmatite Complex represented by hornblende-biotite gneiss, grey granitic gneiss and pink migmatite.

2.7.2 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 N40°E- S40°W with vertical dipping. The general geological succession of the area is given as under.

•	AGE		ROCK TYPE
	Recent	-	Topsoil
		Unconformit	ty
	Archaean	-	Dolerite dyke, Charnockite.
			Peninsular Gneissic complex and Calc Gneiss



2.8 RESOURCES AND RESERVES

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

Table 2.5 Available Geological Resources

Section	Bench	Length	Width	Depth	Volume	Geological Resources of
	_	in (m)	in (m)	in (m)	in m ³	Rough stone in m ³
	I	10	18	5	900	900
	II	10	18	5	900	900
	III	10	18	5	900	900
XY-AB	IV	57	120	5	34200	34200
X1-AD	V	57	120	5	34200	34200
	VI	57	120	5	34200	34200
	VII	57	120	5	34200	34200
			Total			139500
	I	9	119	5	5355	5355
	II	9	119	5	5355	5355
	III	9	119	5	5355	5355
VV CD	IV	9	119	5	5355	5355
XY-CD	V	9	119	5	5355	5355
	VI	9	119	5	5355	5355
	VII	9	119	5	5355	5355
			Total	37485		
	I	8	18	5	720	720
	II	8	18	5	720	720
	III	8	18	5	720	720
VV 55	IV	75	109	5	40875	40875
XY-EF	V	75	109	5	40875	40875
	VI	75	109	5	40875	40875
	VII	75	109	5	40875	40875
			Total			165660
		Grand	342645			

The Geological Resource of Rough Stone: 3,42,645m³

2.8.1 MINEABLE RESERVES

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



Table 2.6 - Available Mineable Reserves

Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Volume in m ³	Mineable Reserves of Rough stone in m ³
	IV	42	93	5	19530	19530
	V	37	83	5	15355	15355
XY-AB	VI	32	73	5	11680	11680
	VII	27	63	5	8505	8505
			Total			55070
	I	9	102	5	4590	4590
	II	9	92	5	4140	4140
	III	9	82	5	3690	3690
)/// CD	IV	9	72	5	3240	3240
XY-CD	V	9	62	5	2790	2790
	VI	9	52	5	2340	2340
	VII	9	42	5	1890	1890
			Total	22680		
	IV	63	81	5	25515	25515
	V	58	71	5	20590	20590
XY-EF	VI	53	61	5	16165	16165
	VII	48	51	5	12240	12240
			Total			74510
		Grand		152260		

The Available mineable reserve is computed as 1,52,260m³ of Rough stone upto a depth of 35m (below ground level) only.

2.9 PROCESS DESCRIPTION AND TECHNOLOGY

2.9.1 PROCESS DESCRIPTON

The quarry operation involves jack hammer drilling, JCB excavation and manual loading/ by using JCB. The excavated Rough stone will be transported directly 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, JCB excavators are used for loading the Rough Stone from pithead to the needy buyers.



The process diagram is provided in Figure 2.6. The production plan and cross section for the 5 years period and conceptual plan and conceptual cross section is given in Figure No. 2.9 and Figure No. 2.10.

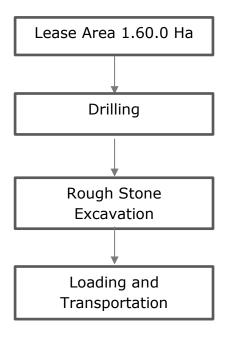


Figure 2.6 Process Flow Diagram



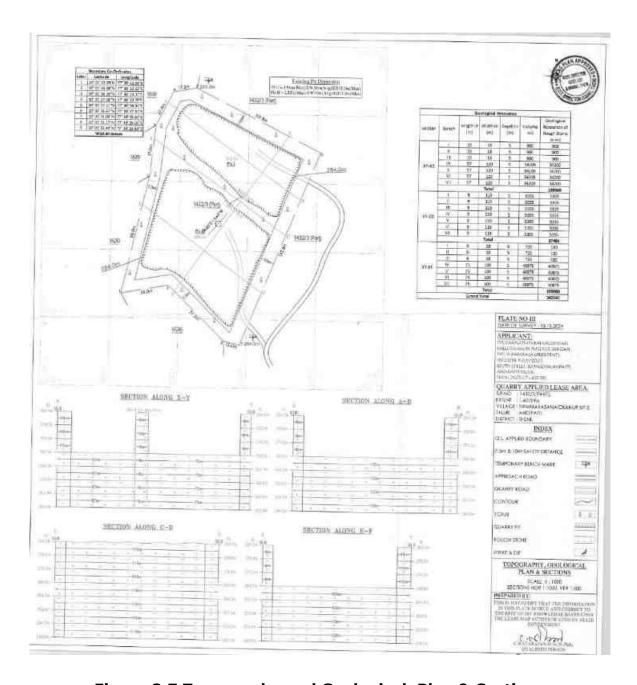


Figure 2.7 Topography and Geological, Plan & Sections



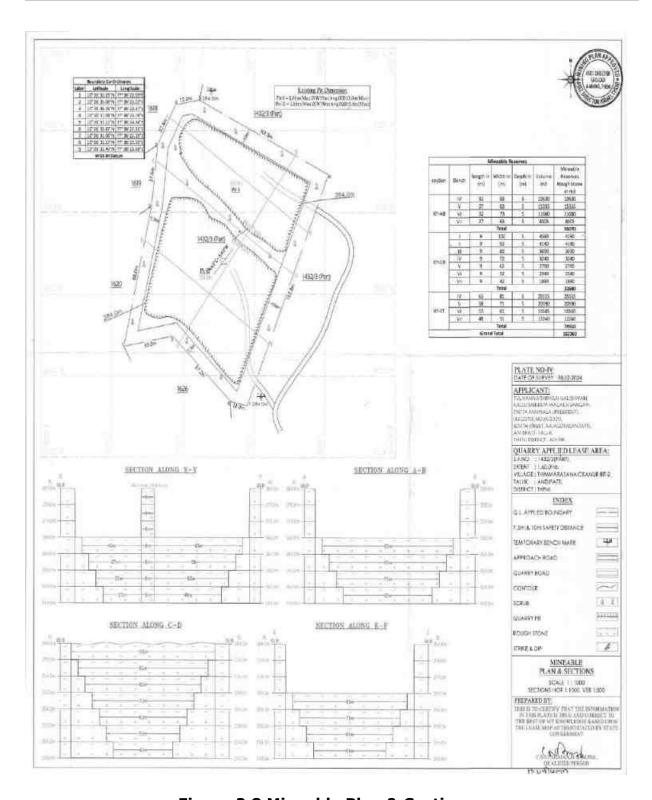


Figure 2.8 Mineable Plan & Sections



Table 2.7 – Machinery Details

S.NO	Name of the Equipment	Capacity	Requirement
1	Jack hammer	32 mm Dia	1
2	Compressor	-	1
3	JCB Excavator		1
4	Tippers	5 / 10 T	2

2.9.2 TYPE OF EXPLOSIVE AND STORAGE

Not applicable. There is no blasting proposed for the rough stone operation. Slurry explosive is proposed for shattering and heaving effect for removal of rough stone. No deep hole drilling or primary blasting is proposed.

2.9.3 PRODUCTION SCHEDULE

The year wise production schedule upto lease period of first 5 years is given below, the year wise production plan is given in Figure 2.9.

Table 2.8 Year wise Production Plan

Year	Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Volume in m3	Rough stone in m3
	XY-AB	IV	42	93	5	19530	19530
I		Ι	9	102	5	4590	4590
	XY-CD	II	9	92	5	4140	4140
		III	5	82	5	2050	2050
		Total					30310
	XY-CD	III	4	82	5	1640	1640
II		IV	9	72	5	3240	3240
	XY-EF	IV	63	81	5	25515	25515
			T	otal			30395
	XY-EF	V	58	71	5	20590	20590
III	XY-CD	V	9	62	5	2790	2790



	XY-AB	V	17	83	5	7055	7055
			30435				
	XY-AB	V	20	83	5	8300	8300
IV		VI	32	73	5	11680	11680
	XY-CD	VI	9	52	5	2340	2340
	XY-EF	VI	27	61	5	8235	8235
	Total						30555
	XY-EF	VI	26	61	5	7930	7930
V		VII	48	51	5	12240	12240
	XY-CD	VII	9	42	5	1890	1890
	XY-AB	VII	27	63	5	8505	8505
			30565				
			Grand To	otal			152260

The Peak production quantity of Rough Stone - 1,52,260 m³



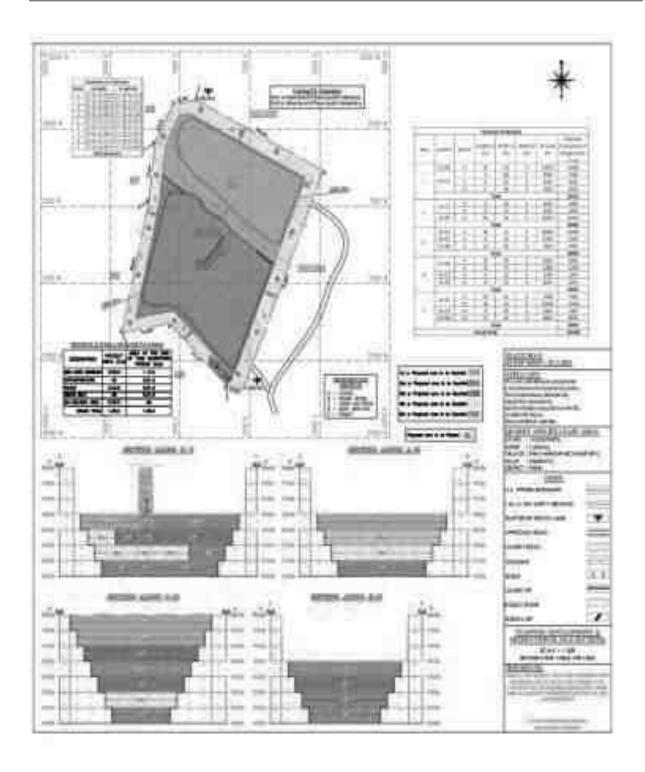


Figure 2.9 Year wise Production plan and sections



2.9.4 DISPOSAL OF WASTE

There is no waste anticipated in this rough stone Quarry. The entire quarried minerals will be utilized. The topsoil generated will be preserved in the safety zone, later will be utilized for afforestation purpose.

2.10 CONCEPTUAL MINING PLAN / FINAL MINE CLOSURE PLAN

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

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

Table 2.9 - Ultimate Pit Dimension

Ultimate Pit dimension (M) end of Mining plan Period							
Pit No	No Length (max) in Width (Avg) in (m) Depth(max) in (m)						
	(m)	, ,,					
I	124	94	35m (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	0.96.0	1.17.0
Infrastructure	Nil	0.01.0
Roads	0.01.0	0.01.0
Greenbelt	Nil	0.41.0
Unutilized	0.63.0	Nil
Total	1.60.0	1.60.0

- At the end of life of mine, the excavated mine pit / void of 1.17.0 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 (0.41.0 Ha.) will be developed along the safety barrier and top benches and 0.02 ha are approach road and Infrastructure.



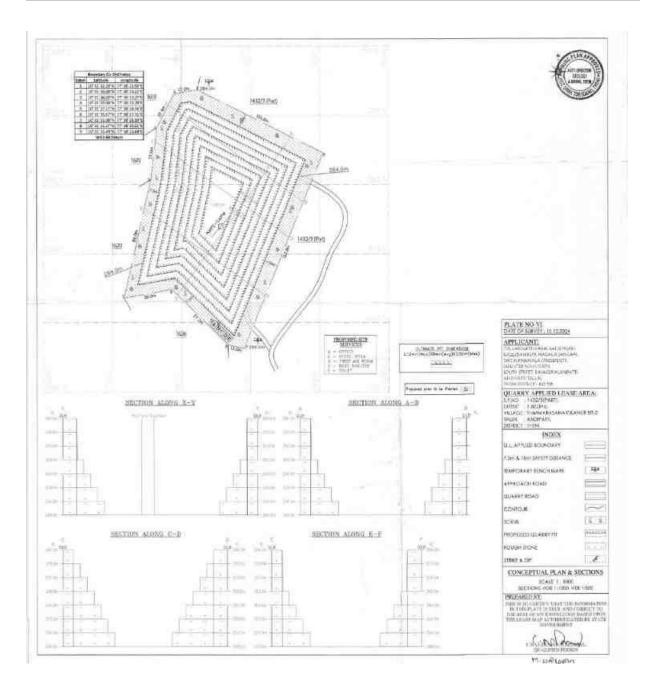


Figure 2.10 Conceptual Plan and Cross Section

2.11 PROJECT REQUIREMENT

2.11.1 WATER REQUIREMENT AND SOURCE

The total water requirement estimated for the quarry is 4.0 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	1.0
Dust Suppression	1.5
Greenbelt Development	1.5
Total	4.0

2.11.2 POWER REQUIREMENT

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

2.11.3 FUEL REQUIREMENT

High speed Diesel (HSD) will be used for mining machineries. The Total fuel consumption is around 1,21,808 litres of HSD for the entire period of life (5 years).

2.11.4 EMPLOYMENT GENERATION

The project will provide employment opportunities totally to 20 persons directly and 20 indirectly.

Skilled	Operator	2 Nos
	Mechanic	1 No
	Mines Manager	1 No
	Fore Man / Mate	2 Nos
Semi-Skilled	Driver	2 Nos
Unskilled	Labours	12 Nos
	20 Nos	

2.11.5 VEHICULAR TRAFFIC DENSITY

The final product from the Quarry will be transported through the Anaikaraipatti – Shellkarpatti village road located at 150 m in southeastern side of the area.



Mineral Transportation

Table 2.11 Proposed Mineral Transportation						
Production Per day	Production Per day in tons					
Quarry Total Mineral in tons per No. of Lorry Load p						
Quarry	day					
P1 (Proposed)	280.17	28				
P2 (Proposed)	438 44					
P3 (Proposed)	77.08					
Total	795.25	80				

The proposed projects will bring 80 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.



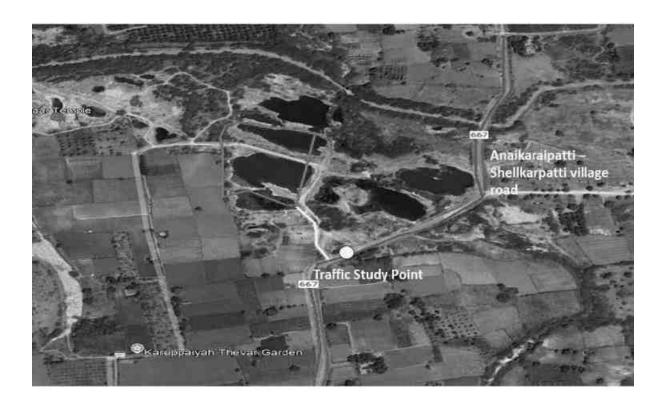


Figure 2.11 Mineral Transport Route

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

Level of	General Operating conditions	Range of V/C	
Service			
Α	Free flow (traffic flows at or above	<0.30	
	speed limit and motorists have		
	complete mobility between lanes)		
В	Reasonable flow (slightly more	0.3 - 0.47	
	congested, with some		
	maneuverability)		
С	Stable flow (more congested than B,	0.48 - 0.68	
	loads close to capacity)		
D	Approaching unstable flow (speeds	0.69 - 0.88	
	are somewhat reduced, example:		
	busy corridor during middle of a		



	weekday, or a functional urban		
	highway during rush hour)		
E	Unstable flow (flow becomes	0.88 - 1.00	
	irregular, speed varies widely and		
	rarely reaches speed limit)		
F	Forced or breakdown flow (a constant	>1.00	
	traffic jam)		

Table 2.12 Existing Traffic Flow

Station	HMV		LMV		2/3 Wheelers		Total
Code	No	PCU	No	PCU	NO	PCU	PCU
1	52	156	43	43	154	77	276

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	No Trips per day	Volume in PCU	PCU Per hour	
trucks	Cumulatively		considering 8	
			HOURS	
10 tonnes	80	240	30	

Table 2.14 - Summary of Traffic Volume

Route	Existing	Incremental	Total	Hourly
	Traffic	Traffic	Traffic	capacity in
	Survey in	Survey due	Survey	PCU as per
	PCU	to project	Volume	IRC -1960
				guidelines
Anaikaraipatti –	276	30	306	1500
Shellkarpatti				
village road				



- Due to this project the existing traffic volume will not exceed
- 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
Anaikaraipatti – Shellkarpatti village road	276	0.18	30	0.02	0.20	A*

(* A - Free Flow)

2.11.6 INFRASTRUCTURE REQUIREMENT

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

2.11.7 PROJECT COST

The total project cost of this rough stone Quarry is **Rs.79.08 Lakhs**.

2.11.8 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 9 different locations (7 Ground Water + 2 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 300 M RADIUS FROM THE PROPOSED QUARRY SITE

A Site survey has been conducted to identify and list structures located within a 300 m radius from the proposed Quarry. The details structures located within 300 m radius are given in below table and Figure 3.1.

1. Structures Details

Table 3.1 Structures within 300 m radius

S. No	Name of the Structure	Distance an d Direction	Ownership	Occu pant	Туре	Age
S1	Labourer's s hed	63m (S)	Does not belo ng to the PP	Nil	Masonry wit h GI Sheet	More tha n 5 years



S2	Abandoned Structure	103m (SE)	Nil	Masonry	> 8 year
S3	Abandoned Structure	107m (SE)	Nil	Masonry	> 5 years
S4	Abandoned Structure	122m (SE)	Nil	Masonry	> 8 years
S5	Farm House	139m (SE)	2	Masonry	> 8 years
S6	Agricultural shed	174m (SW)	Nil	GI Sheet	> 8 years
S7	Temple	175m (SE)	Nil	Masonry wit h GI Sheet	> 8 years
S8	Farm House	210 (NW)	Nil	Masonry	> 5 years
S9	Kannimar T emple	285m (NW)	Nil	Masonry wit h GI Sheet	> 5 years



I1- Kannimar Temple - 285m (NW)



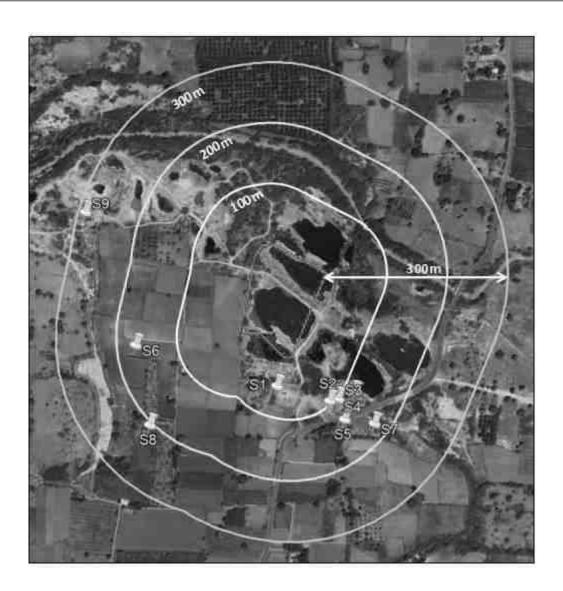


Figure 3.1 Google Image showing structures located within 300 m radius





S1- Labourer's Shed - 63m (S)



S5- Farm House- 139m (SE)



S2-Abandoned Structure - 103m (SE)



S6- Agricultural Shed - 174m (SW)



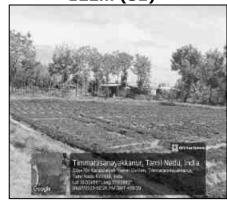
S3- Abandoned Structure - 107m (SE)



S7- Temple -175m (SE)



S4- Abandoned Structure - 122m (SE)



S8- Farm House - 210m (NW)





S9- Kannimar Temple - 285m (NW)

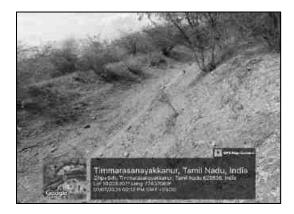
Figure 3.2 Photographs of the structures located within 300 m radius





Figure 3.3 Environmental Features Within 500m Radius

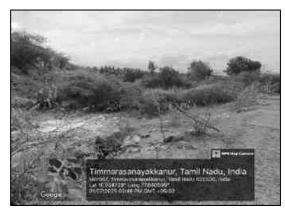




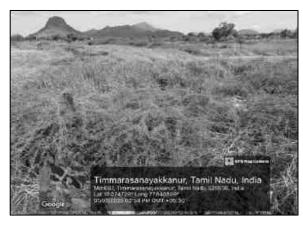
E1- Canal (58) - 92m (N)



E2- (MDR 667) Andipatty -Pullimancombai 112m (S)



E3- Odai - 205m (N)



E4- Odai - 211m (E)



E5- Odai - 238m (W)



3.6 ENVIRONMENTAL SETTINGS OF THE PROJECT

The Environmental settings of the project covering 10km radius of study area is given in Table 3.2. The study area map is given in Figure- 3.5 and satellite image showing 10 km radius is given in Figure 3.4.

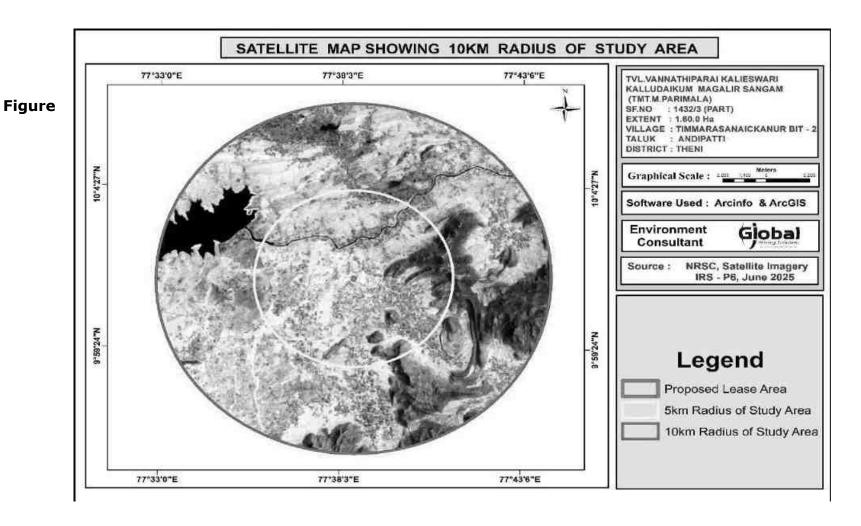
Table 3.2 Environmental Settings of the Study Area – 10 km radius

S.NO	Particulars	Descri	ption
1.	Latitude & Longitude	Latitude: 10°01'31.08"	N to 10°01'37.17"N
		Longitude: 77°38'22.5	5"E to 77°38'27.31"E
2.	The altitude of the area	284 m from MSL	
3.	Topography	Plain Terrain	
4.	Land use of M.L. area	Government Land	
5.	Extent of the Lease area	1.60.0 Ha.	
6.	Nearest Highway	NH-85 - Madurai -	Bodinaickanur Road-
		2.3km, (S)	
		SH-101 - Devathana	patti – Varusanadu
		Road- 4.8km, (NW)	
7.	Nearest Railway Station	Andipatti Railway Stati	on, 3.6km (S)
8.	Nearest airport	Madurai International A	Airport, 53km (SE)
9.	Nearest Village	Rajagopalanpatti Habit	ation, 388m (NE)
10.	Nearest Town	Andipatti 2.1km, SW	
11	Water Bodies	Odai	92m(N)
		Odai	198m(N)
		Odai	224m(SW)
		Odai	294m(SE)
		Vaigai River	1.8km(N)
		Periyar Main Canal	2.0km(N)
		Mavuttu Odai	3.5km(NW)
		Varaha River	4.4km(N)
		Vaigai Dam	6.2km(NW)



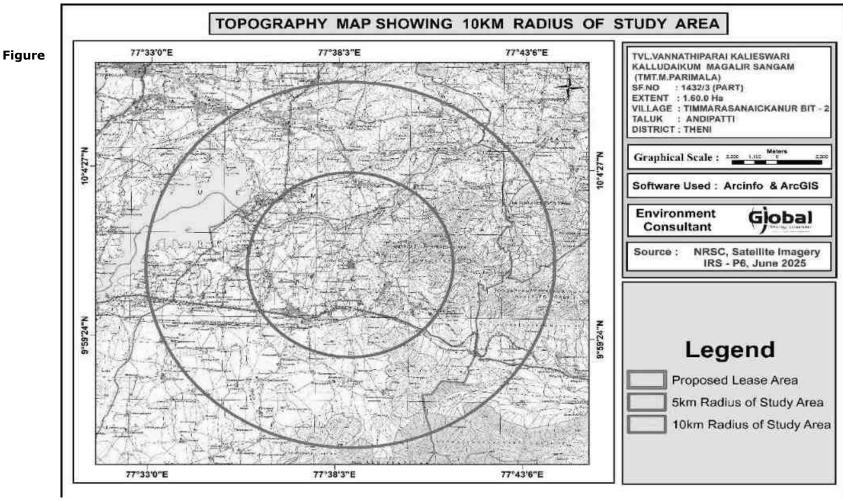
12	Historical Places/Places of	NIL within 10 km radius				
	Tourist/ Archeological site					
13.	Environmental sensitive areas,	Srivilliputhur Megamalai Tiger Reserve,				
	Protected areas as per Wildlife	8.7km (S)				
	Protection Act, 1972 (Tiger					
	reserve, Elephant reserve,					
	Biospheres, National parks,					
	Wildlife sanctuaries, community					
	reserves and conservation					
	reserves)					
14	Reserved / Protected Forests	Andipatti Northern Block R.F. – 1.4 km (E)				
		Andipatti Southern Block R.F. – 3.8 km (SE)				
		Rajadani R.F. – 8.5 km (E)				
15	Defense Installations	NIL within 10 km radius				
16	Seismic Zone	Zone – II (Least Active)				
17	Other Industries in the study	NIL within 10 km radius				
	area					
18	Interstate boundary	NIL				





3.4 Satellite Image of the Study Area





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

The climate of Theni district in the plains, the temperatures range from a minimum of 13° C to a maximum of 39.5° C. In the hills, the temperature varies as low as from 4-5° C to 25° C. The district is known for its salubrious climate, hills and lakes. Since the district is situated on the foot of the Western Ghats and adjoining Kerala State, the district experience cool climate. However, from March to July, the temperature increases.

The district receives rainfall under the influence of both the southwest and northeast monsoons. The rainfall data from 3 stations viz. Periyakulam, Bodinaikanur and Uthanapalayam for the period 99 years (1901-1999) have been considered for the analysis. Normal annual rainfall is of the order of 791.2 mm out of which 47% (375.5) received during NE Monsoon and 22% (172.7) is received during SW monsoon. (Source: cgwb 2008)

Table 3.3 Rainfall Data

	Actua	l Rainfall	Average rainfall for 5 years in mm		
2018	2019	2020	2021	2022	years in min
1105.4	786.1	922.3	1264.2	1280.2	1071.64

Source: https://hydro.imd.gov.in

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 3.4 Meteorological Data Recorded at Site

S.NO	Parameters	March to May 2025	
		Min	37.47
1.	Temperature (0C)	Max.	39
		Avg	38.24
		Min	16
2.	Relative Humidity (%)	Max	63.08
		Avg	39.54
		Min	4
3.	Wind Speed (km/h)	Max	10
		Avg	7
4.	Predominant Wind Direction		W



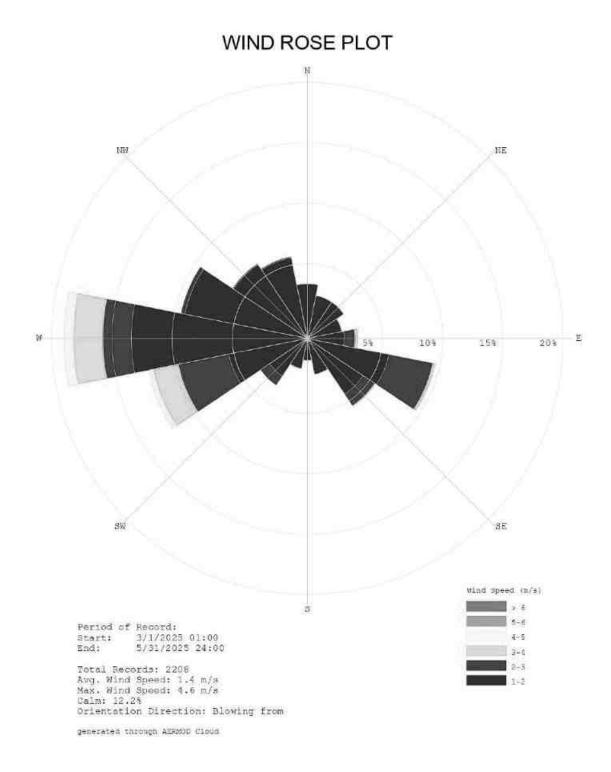


Figure 3.6 Wind Rose Diagram – Blowing From (March to May 2025)



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 3.5 Methodology for Air Quality Monitoring

	Air Quality Monitoring					
1.	Monitoring Period Pre Monsoon (March to May 2025)					
2.	Monitoring Location	The monitoring locations for ambient air				
		study is given in Table – 3.6 and Figure 3.8.				
	M	ethodology				
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	Gravimetric (IS 5182: Part 24:2019)				
	(PM2.5)					
	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 Seven (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 PM₁₀, PM_{2.5}, Sulphur Dioxide (SO₂), Nitrogen Dioxide (NO₂) 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

Seven (7) monitoring stations were set up in the study area as depicted in Figure 3.7 for assessment of the existing ambient air quality. Details of the sampling locations are as per given below.

Table 3.6 – Ambient Air Quality Monitoring Locations

S. No	Code	Project Location	Latitude	Longitude
1	AQ1	Project Site 1	10° 1'35.05"N	77°38'23.99"E
		(Parimala)		
2	AQ2	Anaikaraipatti	10° 2'44.84"N	77°38'54.67"E
3	AQ3	Theppathupatty	10° 3'4.52"N	77°42'45.72"E
4	AQ4	T. Vadipatty	10° 2'45.76"N	77°37'44.37"E
5	AQ5	Thoppampatti	9°58'56.14"N	77°38'29.37"E
6	AQ6	Andipatti	10° 0'5.12"N	77°37'6.84"E
7	AQ7	T.Renganavaram	10° 1'12.50"N	77°37'25.58"E



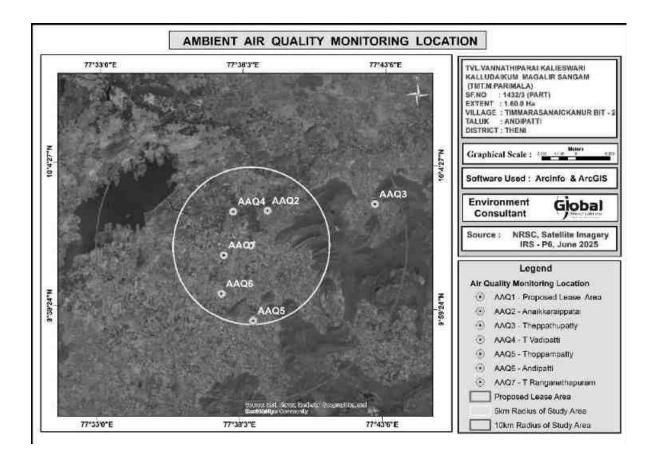


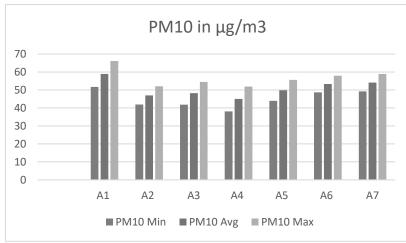
Figure 3.7 Ambient Air Quality Monitoring Locations

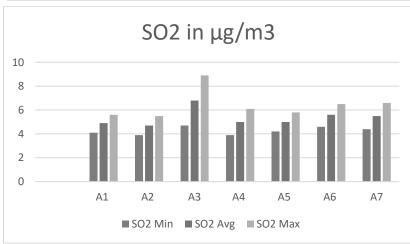


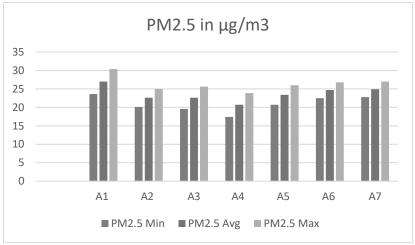
Table 3.7 Ambient Air Quality Data

	Ambient Air Quality							All Va	alue in p	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 - Mine Lease Area	51.7	58.9	66.1	23.6	27.0	30.4	4.1	4.9	5.6	8.1	11.0	13.9
2	A2 - Anaikaraipatti	41.9	47.0	52.1	20.1	22.6	25.0	3.9	4.7	5.5	8.9	10.3	11.6
3	A3 - Theppathupatty	41.8	48.2	54.5	19.6	22.6	25.6	4.7	6.8	8.9	7.3	9.7	12.0
4	A4 - T. Vadipatty	38.1	45.0	51.9	17.4	20.7	23.9	3.9	5.0	6.1	8.1	9.3	10.4
5	A5 - Thoppampatti	44.0	49.8	55.6	20.7	23.4	26.0	4.2	5.0	5.8	9.1	10.7	12.3
6	A6 - Andipatti	48.7	53.3	57.9	22.5	24.7	26.8	4.6	5.6	6.5	9.9	11.9	13.8
7	A7 -T.Renganavaram	49.2	54.1	58.9	22.8	24.9	27.0	4.4	5.5	6.6	8.6	11.2	13.7
8	CPCB NAAQS 2009		100			60			80			80	









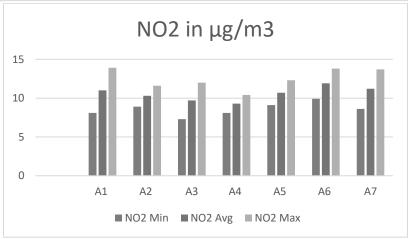


Figure -3.8 - Graphical Representation of Air Quality Data



3.7.2.4 DISCUSSION

From the table it is seen that, in the ambient air, the PM₁₀ values were in the range of $45.0 - 58.9 \,\mu\text{g/m}3$. PM_{2.5} values were in the range of $20.7 - 27.0 \,\mu\text{g/m}3$. SO₂ levels were ranging from $4.7 - 6.8 \,\mu\text{g/m}3$. NO₂ levels were ranging from $9.3 - 11.9 \,\mu\text{g/m}3$. While comparing with the NAAQ Norms laid by MoEFCC, all monitored values of PM10, PM2.5, SO₂, NO₂ & CO were found to be well within the prescribed standards. The CO values in the all locations found to be below detectable limit (DL $- 1144 \,\mu\text{g/m}3$).

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 quidelines 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

The important rivers in the district are Periyar and Vaigai. These rivers are contiguous by the natural formation of the several hills and valleys. Other

Gobal

important rivers are Kottagudi river in Bodinayakanur Block, Manjalar in Periyakulam Block and Shanmuganathi in Uthamapalayam taluk, all originates from western ghats. Vaigai and Periyar originate from the Western Ghats at the Kambam Valley. These rivers run a distance of about 20 miles in the district, flows towards southeast direction through Nilakkottai taluk in Dindigul district and Madurai taluk. Before entering into the Bay of Bengal, these rivers pass through Ramanathapuram district irrigating some parts in different taluks. Vaigai Dam is built across Vaigai river near Andipatti, with a height of 111 feet and storage of 71 feet of water. It is 7 kms from Andipatti, 14 kms from Theni and 70 kms from Madurai. Sothuparai dam is located at 12 kms from Periyakulam. This dam was built across the Varaha river. It is a beautiful picnic spot. Kumbakkarai falls on the foothills of Kodaikkanal hills, 8 kms from Periyakulam, is yet another water source. Comparatively less known, these falls offer a breath-taking view and help farmers cultivate their lands with different crops.

3.7.3.3 GROUND WATER

Ground water occurs under unconfined condition in weathered residium and in colluvium while it is under semi confined to confined condition in deeper fractures. The thickness of weathered residium varies from 5 to 45 m. It is very thick around Thevaram, Kombai, Odapatti abd Gudalur. In general, it varies from 5 to 15 m. The exploration has revealed that there are a maximum of 6 saturated fractures occurring down to a depth range of 140 m. The weathered residuum is tapped by dug wells which even as deep as 40 m when tapping colluvium. The yield of dug wells are of the order of 150 – 350 lpm which can sustain the continuous pumping for 4 – 6 hours a day. The bore wells tapping deeper fractures have the yield of 150 – 420 lpm. The depth to water level in the district varied from 1.22 to 19.18 m bgl during premonsoon (May 2006) while it varied from 2.68 to 16.08 m bgl during post monsoon (Jan 2007). The depth to piezometric surface in the deeper fractures varied from 3.87 to 39.67 m bgl during premonsoon (May 2006) while it varied from 3.57 to 4.55 m bgl during post monsoon (January 2007)

Source: CGWB, 2008.

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Rainfall is the main source for the availability of water both on surface and sub surface. The quantum of rainfall varies every year depending on the monsoon. However, the extraction of surface and sub-surface water is increasing year by year. It leads to environmental impact on the water sources like depletion of water level, deterioration of water quality. It makes the demand for the quantification of available water and also its quality for various purposes, like agriculture, industries, drinking and domestic purposes. Total Seven (07) ground water monitoring locations were identified for assessment in different villages around the project site based on the usage of sub surface water by the settlements/ villages in the study area. The groundwater results are compared with the acceptable and permissible water quality standards as per IS: 10500 (2012) for drinking water. Groundwater quality monitoring locations and results are given in Table 3.7 and Table 3.9.

3.7.3.4 SAMPLING LOCATIONS

Two (2) surface water samples and Sevan (7) ground water samples were collected from the study area and were analysed for physio-chemical, heavy metals and bacteriological parameters in order to assess the effect of mining and other activities on ground water. The samples were analysed as per the procedures specified by CPCB, IS-10500:2012. The water sampling locations are given in Table 3.8 and shown as Figure 3.9 – 3.10.

Table 3.8 Water Sampling Locations

S. No	Code	Project Location	Latitude	Longitude				
		Ground Wa	 ater					
1	GWQ1	Project Site 1 (Parimala)	10° 1'35.05"N	77°38'23.99"E				
2	GWQ2	Anaikaraipatti	10° 2'44.84"N	77°38'54.67"E				
3	GWQ3	Theppathupatty	10° 3'4.52"N	77°42'45.72"E				
4	GWQ4	T. Vadipatty	10° 2'45.76"N	77°37'44.37"E				
5	GWQ5	Thoppampatti	9°58'56.14"N	77°38'29.37"E				
6	GWQ6	Andipatti	10° 0'5.12"N	77°37'6.84"E				
7	GWQ7	T.Renganavaram	10°1'12.50"N	77°37'25.58"E				
	Surface Water							



8	SWQ1	Vaigai River 1 – Up	10° 2'32.47"N	77°37'59.32"E
		Stream		
9	SWQ2	Vaigai River 2 – Down	10° 2'33.62"N	77°37'59.55"E
		Stream		

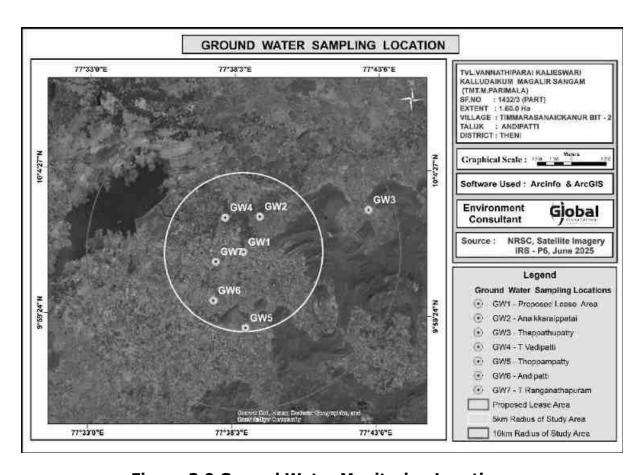


Figure 3.9 Ground Water Monitoring Locations



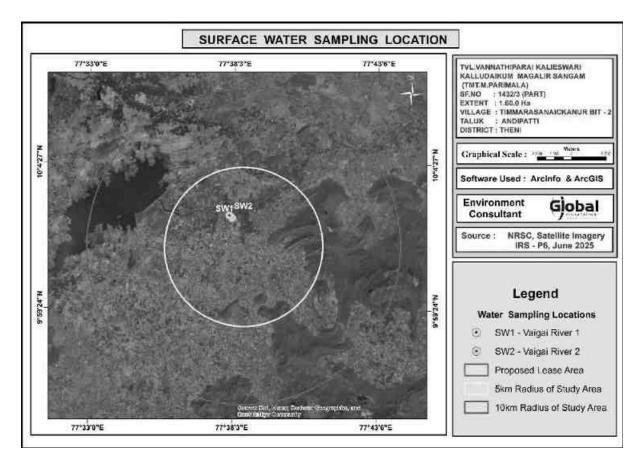


Figure 3.10 Surface Water Monitoring Locations



Table 3.9 – Ground Water Analysis Results

Parameter	GW1	GW2	GW3	GW4	GW5	GW6	GW7	Permissible Limits
Odour	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	Agreeable
Turbidity	<1	<1	<1	<1	<1	<1	<1	5
pH at 25 °C	7.28	7.75	7.22	7.31	7.21	7.93	7.24	6.5- 8.5
Electrical Conductivity	1095	1017	1336	1426	918.5	736.6	845.8	-
Total Dissolved Solids	660	612	802	860	552	442	510	2000
Total hardness as CaCO ₃	336	171	576	480	389	216	284	600
Calcium as Ca	82.0	42.4	133	109	106	48.0	71.6	200
Magnesium as Mg	31.4	15.6	58.6	49.9	29.8	23.0	25.2	100
Calcium as CaCO ₃	205	106	332	272	265	120	179	-
Magnesium as CaCO ₃	131	65.0	244	208	124	96.0	105	-
Total alkalinity as CaCO ₃	449	175	380	440	286	202	232	600
Chloride as Cl-	125	375	252	213	149	132	151	1000
Free Residual chlorine as Cl ⁻	BDL (D.L - 0.2)	BDL(D.L- 0.2)	BDL(D.L- 0.2)	BDL (D.L- 0.2)	BDL(D.L- 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	1
Sulphates as SO ₄ ²⁻	148	75.9	102	154	32.0	52.4	56.6	400
Iron as Fe	BDL(D.L - 0.01)	BDL(D.L - 0.01)	BDL(D.L - 0.01)	BDL(D.L - 0.01)	BDL(D.L - 0.01)	0.05	0.05	0.3
Nitrate as NO ₃	3.58	1.65	3.06	2.75	2.69	1.54	2.89	45
Fluoride as F	0.35	0.29	0.52	0.35	0.32	0.47	0.47	1.5
Manganese as Mn	BDL (D.L - 0.05)	BDL(D.L- 0.05)	BDL(D.L- 0.05)	BDL(D.L- 0.05)	BDL(D.L- 0.05)	BDL (D.L - 0.05)	BDL (D.L - 0.05)	0.3



Table 3.10 Surface Water Analysis Results

Parameter	SW1	SW2	Surface water standards (IS 2296 Class-A)
Odour	Agreeable	Agreeable	Agreeable
Turbidity, NTU	<1	<1	1
pH at 25 °C	7.92	7.86	6.5- 8.5
Electrical Conductivity, μS/cm	231	196	-
Total Dissolved Solids, mg/l	140	118	500
Total Suspended Solids, mg/l	BDL(DL-2.0)	BDL(DL-2.0)	-
Total hardness as CaCO ₃ mg/l	82.7	77	300
Calcium as Ca, mg/l	16.8	16.0	-
Magnesium as Mg mg/l	9.7	8.8	-
Calcium as CaCO ₃ mg/l	42.1	39.9	-
Magnesium as CaCO₃ mg/l	40.6	36.6	-
Total alkalinity as CaCO ₃ , mg/l	44.9	37.6	-
Chloride as Cl ⁻ mg/l	32.4	35.7	250
Free Residual chlorine as Cl ⁻ mg/l	BDL (D.L - 0.2)	BDL(D.L-0.2)	0.2
Sulphates as SO ₄ ^{2-,} mg/l	14.8	15.9	400
Iron as Fe, mg/l	BDL(D.L - 0.01)	BDL(D.L - 0.01)	0.3
Nitrate as NO ₃ , mg/l	BDL(DL-1.0)	1.65	20
Fluoride as , mg/l	BDL(DL-0.1)	BDL(DL-0.1)	1.56
Manganese as Mn, mg/l	BDL (D.L-0.05)	BDL(D.L-0.05)	0.1
COD as O ₂ , mg/l	BDL(DL-4.0)	BDL(DL-4.0)	-
BOD, 3 days @ 27°C, mg/l	BDL(DL-2.0)	BDL(DL-2.0)	2
DO, mg/l	6.2	6.1	6



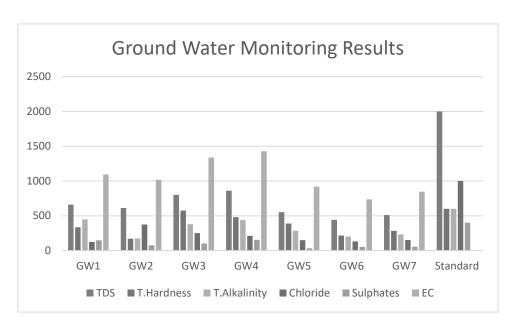


Figure 3. 11 Ground Water - Monitoring Results

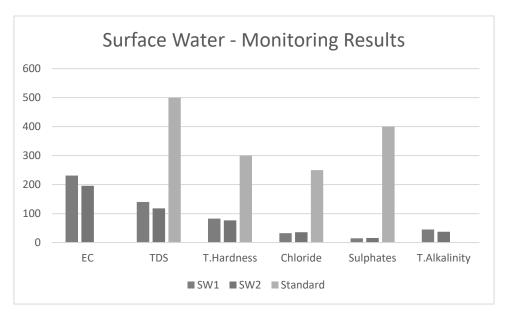


Figure 3. 12 Surface Water - Monitoring Results



3.7.3.5 DISCUSSION

Surface Water

The pH varied from 7.86 to 7.92 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 118 to 140 mg/l. Chloride varied between 32.4 mg/l and 35.7 mg/l. Nitrates varied from BDL(DL-1.0) to 1.65 mg/l, while sulphates varied from 14.8 to 15.9 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 7.21 to 7.93, Chlorides Ranges From 125 - 375 mg/l, Sulphates value found to be between 32.0 - 154 mg/l, Fluoride Ranges low in lease area i.e. 0.29 - 0.52, Hardness varies from 171 - 576 mg/l, and Total dissolved solid 442 - 860 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 3.11 Noise Monitoring Locations

S. No	Code	Project Location	Latitude	Longitude	
1	NQ1	Project Site 1 (Parimala)	10° 1'35.05"N	77°38'23.99"E	
2	NQ2	Anaikaraipatti	10° 2'44.84"N	77°38'54.67"E	
3	NQ3	Theppathupatty	10° 3'4.52"N	77°42'45.72"E	
4	NQ4	T. Vadipatty	10° 2'45.76"N	77°37'44.37"E	
5	NQ5	Thoppampatti	9°58'56.14"N	77°38'29.37"E	
6	NQ6	Andipatti	10° 0'5.12"N	77°37'6.84"E	
7	NQ7	T.Renganavaram	10° 1'12.50"N	77°37'25.58"E	



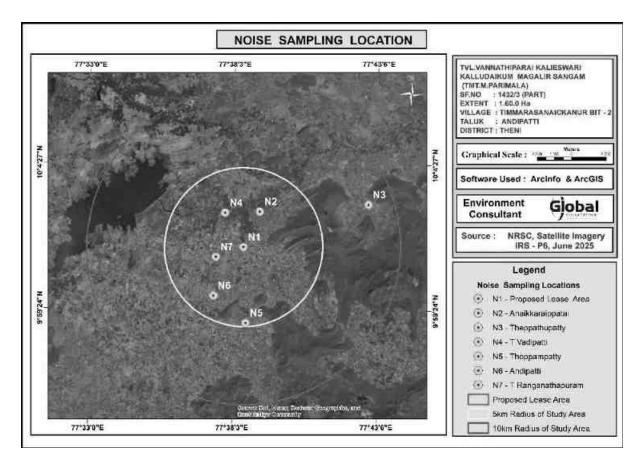


Figure 3.13 Noise Monitoring Location

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 3.12.



Table 3.12 Noise Monitoring Result

Monitoring Location	N1	N2	N3	N4	N5	N6	N7
DAY EQUIVALENT	50.3	46.5	46.7	47.8	49.0	50.3	46.2
NIGHT EQUIVALENT	43.3	38.9	38.7	40.2	39.3	39.9	38.2
DAY & NIGHT EQUIVALENT	49	45.1	45.3	46.4	47.4	48.8	44.8

Limits as per MoEFCC

Day equivalent - 55 dB (A); Night equivalent - 45 dB (A);

Work zone Exposure in 8 hr - 90 dB (A)

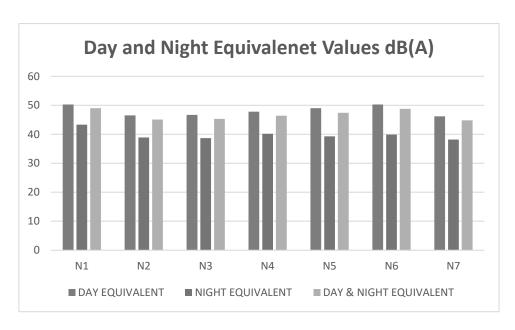


Figure 3.14 Nosie Monitoring Results

3.7.4.4 DISCUSSION

From the table it is observed that the day Equivalent Noise (Leq-d) level were ranging from 46.2 to 50.3 dB(A) and Night Equivalent Noise (Leq-n) level were ranging from 38.2 to 43.3 dB(A). Day and Night Equivalent Noise (Leq-n) level were ranging from 45.1 to 49.0 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 43.3 dB – 50.3 dB in the N1 location. (Project Site). It is very negligible and within the prescribed standards of MoEFCC 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 3.13 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.

Code **Project Location** S. No Latitude Longitude 10° 1'35.05"N 77°38'23.99"E SQ1 Project Site 1 (Parimala) SQ2 Anaikaraipatti 10° 2'44.84"N 77°38'54.67"E 2 10° 3'4.52"N 3 77°42'45.72"E SQ3 Theppathupatty 77°37'44.37"E 10° 2'45.76"N SQ4 T. Vadipatty 9° 58'56.14"N 5 77°38'29.37"E SQ5 Thoppampatti 77°37'6.84"E SQ6 10° 0'5.12"N 6 Andipatti 77°37'25.58"E 10° 1'12.50"N SQ7 T.Renganavaram

Table 3.13 – Soil Sampling Locations

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. Three 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.

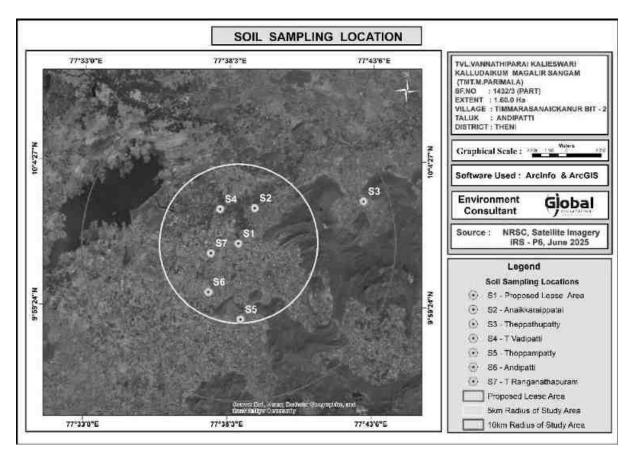


Figure 3.15 - Soil Sampling Stations

3.7.5.3 SOIL TESTING RESULT

- 3.14.

Results of the soil samples show that the pH values were found to be 6.57 to 7.86 and Electrical Conductivity values were ranging between 72.64 – 162.7 µmhos/cm. Soils are generally Silt Loam. Organic matter values were ranging between 0.64 – 1.39 %. Total Nitrogen values were ranging between 226– 632 mg/kg. Phosphorus values were ranging between 0.92 – 2.11 µg/g. Potassium values were ranging between 524 – 890 mg/kg. Sodium values were ranging between 355 – 1070 mg/kg. Total Sulphate values were observed to be BDL. The soil quality data for the 3 samples collected and analyzed are provided in Table no



Table 3.14 Soil Testing Result

PARAMETER	S1	S2	S3	S4	S3	S5	S6	S7
рН	7.86	6.59	6.84	6.69	6.82	6.57	6.96	6.74
EC	102.5	72.64	151.4	86.59	162.7	85.92	92.47	102.4
Dry Content	90.31	94.25	93.22	95.47	94.12	96.56	93.42	94.58
Water Content	9.69	5.75	6.78	4.53	5.88	3.44	6.58	5.42
Organic Matter	0.64	1.32	1.12	0.84	1.12	0.96	1.39	1.02
Total Soluble Sulphate	BDL(D.L.0. 02)	BDL(D.L.0. 02)	BDL(D.L.0. 02)	BDL(D.L.0. 02)	BDL(D.L.0. 02)	BDL(D.L.0. 02)	BDL(D.L.0. 02)	BDL(D.L.0. 02)
Phosphorous	0.92	1.65	2.11	1.37	1.76	1.92	1.41	1.56
Texture	SILT LOAM	silty clay	silty clay loam	silt loam	silty clay loam	silt loam	loam	silt loam
Sand	26.52	8.91	13.53	24.73	13.63	29.12	33.46	29.51
Silt	58.61	47.45	47.48	68.35	48.12	53.11	49.22	52.48
Clay	14.87	43.64	38.99	6.92	38.25	17.77	17.32	18.01
Nitrogen & Nitrogenous Compounds	346	265	286	632	312	226	445	230
Sodium	775	420	1045	589	1070	364	412	355
Potassium	524	660	890	789	872	702	614	726
Water Holding Capacity	42	39	41	42	44	42	40	40
Porosity	19.4	18.6	19.5	18.2	19.1	19.5	19.6	18.9



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.

Present Area in Area at the end of life of **Description** Ha. **Quarry in Ha.** 0.96.0 1.17.0 Quarrying pit Infrastructure Nil 0.01.0 0.01.0 0.01.0 Roads Greenbelt Nil 0.41.0 Unutilized 0.63.0 Nil **Total** 1.60.0 1.60.0

Table 3.15 Land use pattern of the project site

- At the end of life of mine, the excavated mine pit / void of 1.17.0 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 (0.41.0 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 3.16 Land use pattern of the Study area of 10 km radius



SI.No.	LAND USE / LAND COVER	Area in Sq.Km	Area in Percentage
1	Built-up land	7.92	2.48
2	Crop land	114.65	36.03
3	Fallow land	29.12	8.87
4	Land with scrub	18.96	5.56
5	Land without scrub	41.99	13.19
6	Existing Quarry	6.27	1.97
7	Plantations	12.78	4.01
8	Hill & Forest	63.57	19.98
9	Plantations	12.78	4.01
10	Water bodies	22.86	7.91
	Total Area	330.9	100.0

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 Plantations (4.01 %) followed by Fallow Land (8.87).

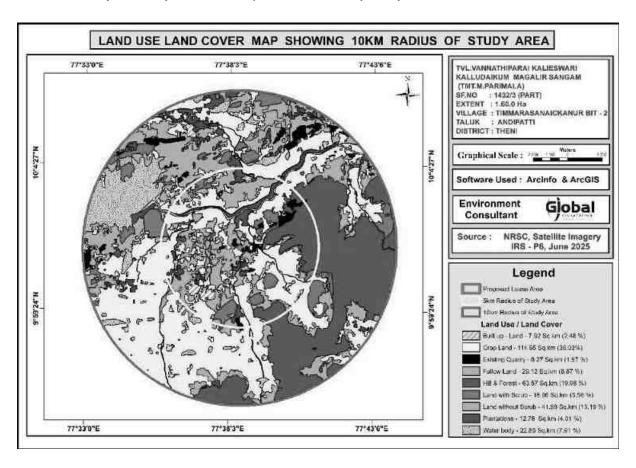


Figure 3.16 Land use map of the study area



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 and Aquatic 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, private 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 in study area. The detailed ecological assessment of the study area has been carried out and are presented in below Table.



Table 3.17 List of Flora

S.NO	Scientific Name	Family Name	Local Name		
	GRASS				
1	Arundo donax	Poaceae	Common needle, grass		
2	Dendrocalamus strictus	Poaceae	Kalamungil		
3	Heteropogon contorlus	Poaceae	Oosipullu		
		TREES			
1	Terminalia Bellirica	Combretaceae	Thaan-Dri Kaai		
2	Schefflera Stellata	Peymiratti	Araliaceae		
3	Citrus Limon	Rutaceae	Lemon		
4	Ficus Benghalensis	Moraceae	Krishna Fig, Krishna's		
5	Musa Paradisiaca	Musaceae	Plantain, Vazhai		
6	Azadirachta Indica	Meliaceae	Veppai,		
7	Syzygium Cumini	Myrtaceae	Nagai		
8	Thespesia Lampas	Malvaceae	Common		
			Mallow,Kattupparuthi		
9	Psidium Gujava	Myrtaceae	Guava		
10	Erythrina Indica	Fabaceae	Mullu Murungai		
11	Adina Cordifolia	Rubiaceae	Manjakadambu		
12	Acacia Nilotica	Fabaceae	Karuvelam		
13	Musa Paradisiaca	Musaceae	Plantain, Vazhai		
14	Delonix Regia	Caesalpiniaceae	Flame Tree, Royal		
			Poinciana		
15	Tamarindus Indica	Caesalpiniaceae	Puli		
16	Cocus Nucifera	Arecaceae	Coconut,Thennai		
17	Ailanthus Excelsa	Simaroubaceae	Perumaram		
18	Pongamia Pinnata	Fabaceae	Indian Beech, Pungam		
19	Acacia Leucophloea	Mimosaceae	Velvelam		
20	Morinda Tinctorial	Rubiaceae	Nuna		
21	Dalbergia Sissoo	Fabaceae	Nukkam Totakatti		
22	Erythrina Variegate	Fabaceae	Kalyana Murungai		
23	Borassus Flabellifer	Arecaceae	Palmyra Palm		
24	Thespesia Lampas	Malvaceae	Common		
			Mallow,Kattupparuthi		
25	Lannea Coromandelica	Anacardiaceae	Indian Ash Tree, Moya,		
			Wodier		
26	Samanea Saman	Mimosodeae	Thoongumoonjj Maram		
27	Prosopis Juliflora	Fabaceae	Algaroba, Mesquite		



28	Eucalyptus Globulus	Mytaceae	Blue Gum
	1	HERBS	1
1	Aloe Vera	Agavaceae	Katthaalai
2	Acalypha Indica	Euphorbiaceae	Koli-P-Puntu, Kuppai-
			Meni
3	Partheniumhysterophorus	Asteraceae	Congress Grass
4	Chloris Dolichostachya	Poaceae	Finger Grass,
			Kuruthupillu
5	Aerva Persica	Amaranthaceae	Perumpeelai
6	Zea Mays	Poaceae	Maize, Corn
7	Thespesia Populnea	Malvaceae	Indian Tulip Tree
			Poovarasu
8	Vemonia Cinereal	Asteraceae	Purplefleabane,
			Mookuthipoondu
9	Ocimum Americanum	Lamiaceae	Hoary Basil, Nai Thulasi
10	Tribulus Terrestris	Zygophyllaceae	Puncture Vine, Nerunji
11	Cynodon Dactylon	Poaceae	Bermuda, Grass,
			Arugampul
12	Ocimum Sanctum	Lamiaceae	Holy Basil, Thulasi
13	Amaranthus Viridis	Amaranthaceae	Kuppai-K-Kirai
		SHRUBS	
1	Anisomeles Malabarica	Lamiaceae	Peyimarutti
2	Vitex Negundo.	Verbenaceae	Nocchi
3	Carissa Spinarum	Apocynaceae	Sirukilaa
4	Cassia Auriculate	Fabaceae	Aavarampoo
5	Indigofera Longiracemosa	Fabaceae	Karuppu Avuri
6	Lantana Camara	Verbenaceae	Unnichedi
7	Triumfetta Pentandra	Tiliaceae	Ottu Pullu
8	Carica Papaya	Caricaceae	Pappali
9	Cassia Auriculate	Fabaceae	Aavarampoo
10	Calotropis Gigantea R.Br.	Fabaceae	Tuvarai
11	Lawsonia Inermis	Lythraceae	Henna, Maruthondri
		CLIMBERS	
1	Cucurbita Pepo	Cucurbitaceae	Parangi
2	Cissus Quadrangularis	Vitaceae	Perandai
3	Pergularia Daemia	Asclepiadaceae	Uttamani
4	Cardiospermum Halicacabum	Sapin	Mudakathan
5	Cayratia Trifoliata	Vitaceae	Kattuppirantai
6	Coccinia Indica	Cucurbitaceae	Kovai



Ī	7	Ipomoea Pescarpae	Convolvulaceae	Adambu
Ī	8	Diplocyclos Palmatus	Cucurbitaceae	Iviralkovai

3.7.7.4 LIST OF FAUNA

The list of fauna within the study area is given in Table No – 3.18.

Table 3.18 List of Fauna

S.No	Common name	Scientific name	Family	IUCN / WPA
				schedule
		MAMMALS		
1	Indian Palm	Funambulus	Squirrel	IV
	squirrel	palmarum		
2	Hare	Lepus nigricollis	Leporids	IV
3	House rat	Rattus rattus	Murids	IV
4	Mannuli paambu	Eryx johni	Boidae	-
5	Indian Grey	Herpestes edwardsii	Mongoose	IV
	Mongoose			
6	Field mouse	Rattus norvegicus	Murids	IV
7	Rusty spotted Cat	Felis rubiginosa	Felidae	IV
		REPTILES		
1	Common Garden	Calotes versicolor	Agamid lizards	IV
	lizard			
2	Rough tailed Sand	Gongylophis conicus	Boidae	IV
	boa			
3	Indian Cobra	Naja naja	elapid snakes	II
4	Indian mud turtle	Lissemys punctate	Softshell turtles	IV
5	Common Green	Passerita mycterizaris	Colubrid Snakes	IV
	Snake			
6	Common rat snake	Ptyas mucosus	Colubrid Snakes	II
		BIRDS		
1	Grey Partridge	Francolinus	Phasianidae	IV
		pondicerianus		
2	Indian Ring Dove	Streptopelia decaocto	Pigeons and doves	IV
3	Red collared dove	Streptopelia	Pigeons and doves	IV
		tranquebarica		
4	Astur badius	Shikra	Accipitridae	IV
5	Black Drongo	Dicrurus macrocerus	Drongos	IV



6	House Sparrow	Passer domesticus	Sparrow	IV	
7	Weaver bird	Ploceus Philippines	Ploceidae	IV	
8	Rose Ringed	Psittacula krameria	Parrots	IV	
	Parakeet				
9	Little egret	Egretta garzetta	Heron	IV	
10	Redvented BulBul	Pycnonotus cafer	Bulbul	IV	
	FISH				
1	Common carp	Cyprirus earpio	Minnows and Carps	IV	
2	Tilapia	Oreochromis	Cichlid	IV	
		mossambicus			
3	Carplet	Amblypharyngodon Sp	Cyprinidae	IV	
4	Trout	Chela sp	-	IV	
5	Punctatus	Ophiocephalus	Snakehead	IV	

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 TOPOGRAPHY

The area applied for quarry lease is exhibits almost plain topography covered by rough stone formation. The massive Gneissic Rock formation is noticed right from the surface and sloping towards Southeastern side of the area, the altitude of the area is above 284m (maximum) from MSL. No major river is found nearby the lease applied area. Water table is found at a depth of 60m in summer and 57m in rainy seasons. Temperature of the area is reported to be 180C to a maximum of 420C during summer. Rainfall of this area is about 800mm to 900 mm during the both NE & SW monsoons.



3.7.9 DRAINAGE PATTERN OF THE AREA

The ground water table is reported as 60m below ground level. In the proposed mining plan only 35m (below ground level) depth has been envisaged as workable depth for safe & economic quarrying for the entire lease period. Hence the quarrying operation may not affect the ground water. Drainage map of the study area is shown in then Figure 3.17.

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 300 lpm and it shall be pumped about periodically by a stand by diesel powered Centrifugal pump motivated with 7.5 HP 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.

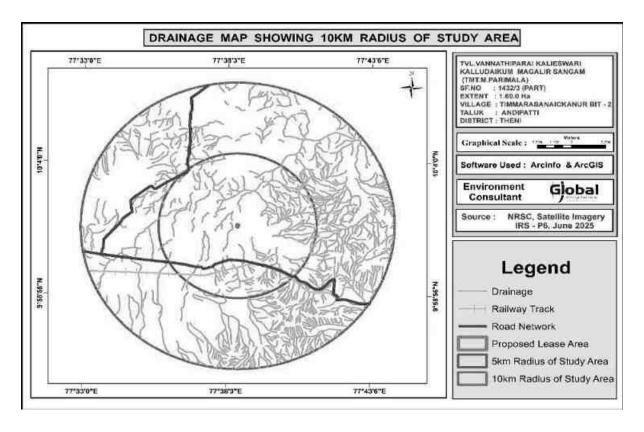


Figure 3.17 Drainage map of the study area



3.7.10 GEOMORPHOLOGY

Predominantly the buffer zone is dominated by Shallow & Moderately Buried Pediplan, and the lease area falls under pediment – Inselberg Complex. Geomorphology of the study area is detailed below. The geomorphology of the study area is given in Figure 3.18.

SI.N		Area in	Area in
0	GEOMORPHOLOGY	Sq.Km	Percentage
1	Alluvial Fan	4.43	1.71
2	Moderate Buried Pediment	10.76	4.15
	Moderately Weathered Buried		
3	Pediplain	23.96	9.25
4	Pediment – Inselberg Complex	44.2	
5	Residual Hill	3.51	1.36
6	Shallow Buried Pediment	1.68	0.65
	Shallow Weathered Buried		
7	Pediplain	153.52	59.26
8	Structural Hills	61.18	23.62
9	Water Body	14.88	5.74
	Total Area	318.12	100.00



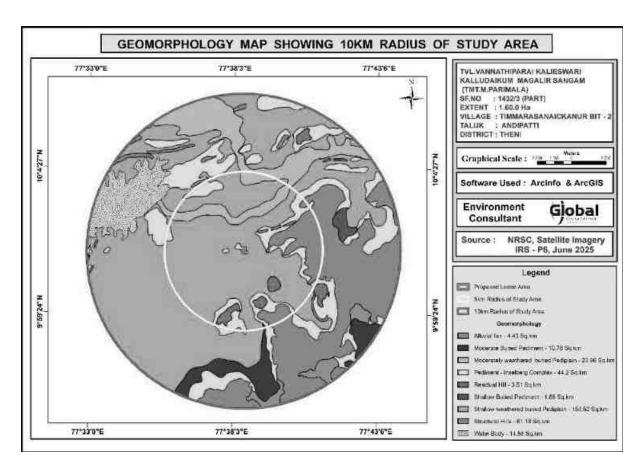


Figure 3.18 Geomorphology map of the study area

3.7.11 GEOLOGY

The regional geology of the study area is shown below in Figure 3.19. The type of rock formation in the core and buffer zone is composed of Charnockite Gneissic complex, Calcareous Sand, Calcareous Sand Soil & Hornblende Biotite Gnesis. The geology of the study area is detailed below.

Sl.No.	GEOLOGY	Area in Sq.Km	Area in Percentage
1	Charnockite	234.66	73.53
2	Calcareous Sand & Clay	9.82	3.08
3	Calcareous Sand Soil	3.74	1.17
4	Hornblende Biotite Gnesis	70.93	22.22
	Total Area	319.15	100.00



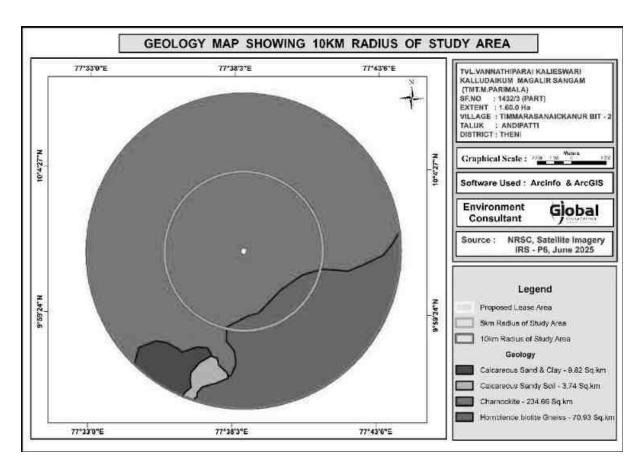


Figure 3.19 Geology map of the study area

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.

G)obal

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

Village/ Town Name	Radius	Taluk Name	District Name
Subbulapuram			Tunio .
Vinaranganthapuram	1		
Jakkampatti	7		
Andipatti	0-5 Km	Theni and	
Rajagopalanpatti	- 0-3 KIII	Andipatti	
Timmarasanayakkanur			
Shanmugasundarapuram			Theni
Gullapuram			IIIeiii
Dharmattuppatti			
Bomminayakkanpatti			
Vadipatti	5-10 Km	Theni and	
Jayamangalam	J-10 KIII	Andipatti	
Pulimankombai			
Teppattuppatti			



Baskaranpatti		
Kovilpatti		
Rangasamudram		
Rosanapatti		
Mottanuttu		
Koppampatti		
Kattappatti		
Boddasanpatti		
siddaiyakavundanpatti		
kottaluttu		

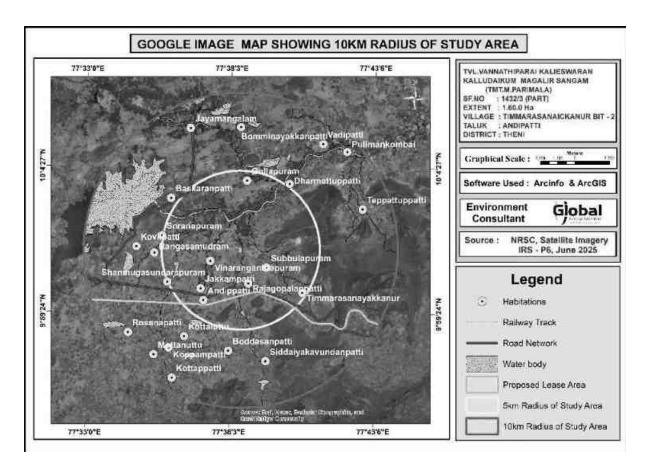


Figure 3.20 Village Map of the Study Area



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	56040	50.48			
Female Population	54960	49.52			
Total	111000	100			
B. P	opulation break-up by Caste				
Scheduled Caste	30103	27.12			
Scheduled Tribes	72	0.06			
Others	80,825	72.82			
Total	111000	100			
	C. Literacy Level				
Male Population	40901	57.07			
Female Population	30769	42.93			
Others	39330				
Total Literate Population	111000	100			
	D. Occupational structure				
Main Workers	33506	24.43			
Marginal Workers	6174	4.64			
Total Workers	32354	29.06			
Total Non-Workers	28073	23.12			
Other Workers	10893	18.75			
Total	111000	100			

Table 3.20 Population profile - Timmarasanayakkanur Village					
Particulars	No of Population	Percentage (%)			
A. Po	A. Population break-up by Gender				
Male Population	10354	51.21			
Female Population	9864	48.79			
Total	20218	100			
B. Population break-up by Caste					
Scheduled Caste	4769	23.58			



Scheduled Tribes	-	-	
Others	15449	76.42	
Total	20218	100	
	C. Literacy Level		
Male Population	7718	57.46	
Female Population	5713	42.54	
Others	6787		
Total Literate Population	20218	100	
D. Occupational structure			
Main workers	7580	30.68	
Marginal workers	1436	4.59	
Total Workers	1082	35.26	
Total Non-workers	6502	29.47	
Others	3618		
Total	20218	100	

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 are available.



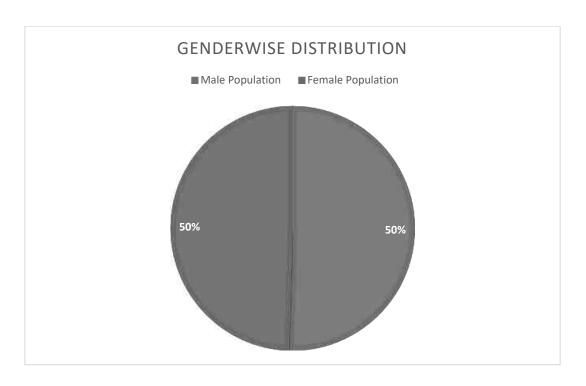


FIG 3.21 GENDER-WISE POPULATION DISTRIBUTION

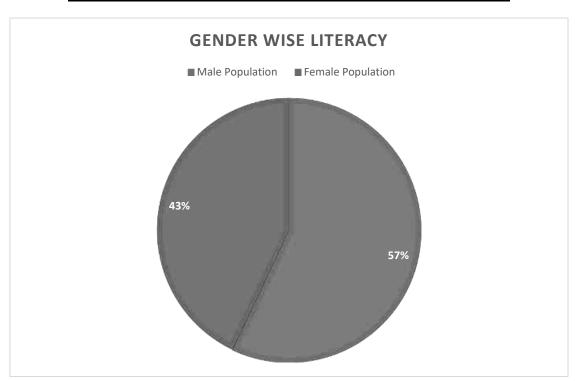


FIG 3.22 GENDER WISE LITERACY DISTRIBUTION



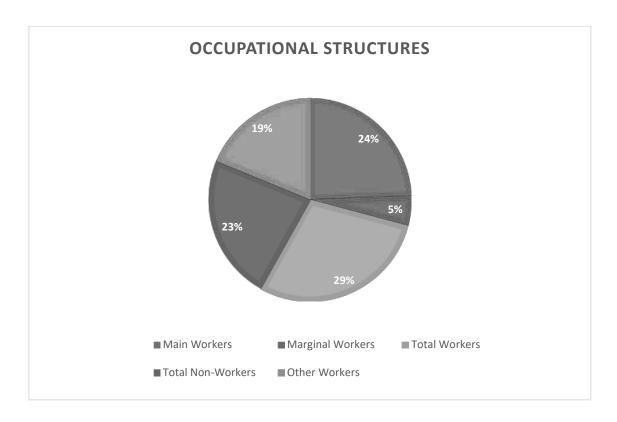


FIG 3.23 OCCUPATIONAL STRUCTURE WITHIN BUFFER ZONE



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 Open Cast manual method of 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, 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 1.60.00 Ha. is Government land. The project area of 1.60.00 Ha is proposed to be altered by effective quarrying operation such as excavation (1.17.0 Ha), Infrastructure (0.01.0 Ha), Road (0.01.0 Ha) and greenbelt (0.41.0 Ha). The ultimate depth of quarrying is proposed by formation of 1 pit with maximum depth of 35 m below the ground level and will not intersect the ground water table. The mine closure plan is given in 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	0.96.0	1.17.0
Infrastructure	Nil	0.01.0
Roads	0.01.0	0.01.0



Greenbelt	Nil	0.41.0
Unutilized	0.63.0	Nil
Total	1.60.0	1.60.0

- 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 1.17.0 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 (0.41.0 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., 7.5 m safety barrier & 10 m provided to the adjoining patta and poramboke 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 quarry operation, entire mined out mineral will be dispatched to needy customer directly. Extracted fine material can result in substantial sediment loading to surface waters and drainage ways. 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 (0.41.00 Ha.) all along the periphery of the project area (i.e., 7.5 m and 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 35 BGL and the water table is found at a depth of 60m in summer and 57m in rainy seasons.

No major river is found nearby the lease-applied area. Odai passing at 92m in North direction, Odai passing at 198m in North Direction, Odai passing at 224m in South West Direction, Odai passing at 294m in South East Direction, Vaigai River is situated at a distance of 1.8km in North Direction, Periyar Main Canal is situated at a distance of 2.0km in North Direction, Mavuttu Odai passing at 3.5km in North West Direction, Varaha River is situated at a distance of 4.4km in North Direction, Vaigai Dam is situated at a distance of 6.2km in North West Direction. No other water bodies close to the project site. There is no proposal for discharging of wastewater outside the project area. There is no proposal for a rough stone processing or workshop within the project area, so no effluent is anticipated in the mine.

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 4.0 KLD comprising Drinking 1.0 KLD, Dust suppression 1.5 KLD and Greenbelt 1.5 KLD. The water will be sourced initially from outside agencies. Later the rainwater collected in the mine



pit sump will be used for this purpose. The water balance diagram for the same is shown in Figure No 4.1.

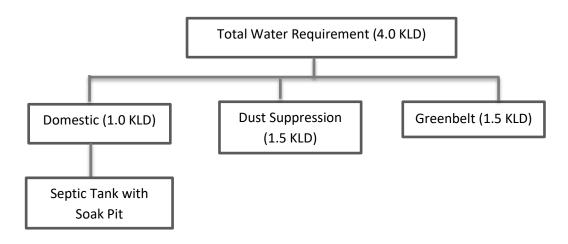


Figure 4.1 Water Balance Diagram

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 channel on the eastern side of the lease.
- Utilizing the rainwater harvested in the mine pit to meet the water requirement of the project.

The average annual rainfall of the area is 1000 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	Quarry Area	11700	1.0	4095
2	Unutilized Area	Nil	1.0	-
Total Harvested Rainfall		4095		

Total surface water runoff is 4095 Cum per Annum. 10% of this amount will be evaporated and rest 3686 m³ will be recharged in the rain water harvesting pit.

Two settling tanks with each capacity 2500 Cu.m will be provided to harvest the rain water. The rain water stored in the pond will be utilized for plantation, dust



suppression activities. The capacity of Rain water harvesting post will be sufficient to arrest the surface runoff from the lease area considering the highest amount of rain fall.

4.2.4 AIR ENVIRONMENT

4.2.4.1 IMPACT DUE TO MINING OPERATION

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

4.2.4.2 IMPACT ON AIR ENVIRONMENT

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

4.2.4.3 AIR EMISSIONS

Slobal

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

4.2.4.4 QUANTITATIVE ESTIMATION OF IMPACTS ON AIR ENVIRONMENT

An attempt has been made to predict the incremental rise of various ground level concentrations above the baseline status in respect of air pollution due to proposed is 1,52,260 m3 of rough stone for a period of five years by the open-cast semi-mechanised

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mining method.

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

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

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

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

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

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

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

The AERMAP is a terrain preprocessor designed to simplify and standardize the input of terrain data for the AERMOD. Input data include receptor terrain elevation



data. Output includes, for each receptor, location and height scale, which are elevations used for the computation of airflow around hills.

Salient features of the AERMOD model are given hereunder.

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

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

4.2.4.5 SOURCES OF DUST EMISSION

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

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

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

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



4.2.4.6 EMISSION DETAILS

All the emissions discussed above are quantified for proposed maximum production of 1,52,260 m3 of rough stone for a period of five years by the open-cast semi-mechanised mining method. The existing air quality levels are covered in the baseline scenario.

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

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

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

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

4.2.4.7 METEOROLOGICAL DATA

The meteorological data recorded continuously during the month of March 2025 – May 2025 on hourly basis on wind speed, wind direction and temperature has been processed to extract the 24- hourly mean meteorological data as per the guidelines of IMD and MoEF for application of AERMOD model.

Gobal

Stability classes computed for the mean hours is based on guidelines issued by CPCB on modeling. Mixing heights representative of the region have been taken from the available published literature.

4.2.4.8 SUMMARY OF PREDICTED GROUND LEVEL CONCENTRATIONS

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

The maximum ground level concentration is estimated to be about 1.92 μ g/m3 of PM 2.5 & 3.65 μ g/m3 of PM10 within the mine area, where mining operations are being carried out. The impact of mining operations would be negligible beyond 0.4 km.

Figure – 4.2 – 4.5 represents the spatial distribution of the predicted ground level concentrations of PM10 due to emissions from mine.

4.2.4.9 EMISSION SOURCES & QUANTIFICATION

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

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

Quantity, TPA	Rough Stone: 1,52,260 m3 (Five Years)
Operational Hours Per Year	2400
Activity Rate, t/hr.	400.5416667
Emission of dust, g/t.	0.14
Emission of dust, g /hr.	52.56464
Area of influence, m ²	622
Uncontrolled emission rate g/s/m ²	0.000022181
Controlled emission rate, PM10 g/s/m ²	0.000002218
Controlled emission rate, PM2.5 g/s/m ²	0.0000014787



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

Quantity, TPA	Rough Stone: 1,52,260 m3 (Five Years)
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	834
Lead length/trip, Km	0.6
Total VKT/Year	72323
Emission Kg/VKT	0.20
Total emission Kg/Year	19932.55
Uncontrolled emission rate g/s/m	1.3308
Controlled emission rate, PM10 g/s/m	0. 13308
Controlled emission rate, PM2.5 g/s/m	0. 03697

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

	Proposed Quarries:
	Tmt. M.Parimala Rough Stone: 1,52,260 m3
Quantity, m³	Thiru.R.Murugan: 35,525 m3 of Rough Stone,
	3,360 m3 of gravel
	Tmt.Thavamani: 2,38,149 m3 of Rough Stone.
Operational Hours Per Year	2400
Activity Rate, t/hr.	354.34
Emission of dust, g/t.	0.25
Emission of dust, g /hr.	63.4543
Area of influence, m ²	625
Uncontrolled emission rate g/s/m ²	0.00062538
Controlled emission rate, PM10 g/s/m ²	0.0006253
Controlled emission rate, PM2.5 g/s/m ²	0.000041692

(IV) Line Source - Transport of Rough Stone & Gravel (Cluster)

Quantity, m ³	Proposed Quarries:
	Tmt. Parimala Rough Stone: 1,52,260 m3 Thiru.R.Murugan: 35,525m3 of Rough Stone, 3,360m3 of gravel Tmt.Thavamani: 2,38,149 m3 of Rough Stone.
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	8685
Lead length/trip, Km	0.17



Total VKT/Year	624353
Emission Kg/VKT	0.25
Total emission Kg/Year	16543.56
Uncontrolled emission rate g/s/m	3.7523
Controlled emission rate, PM10 g/s/m	0. 37523
Controlled emission rate, PM2.5 g/s/m	0.10424

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



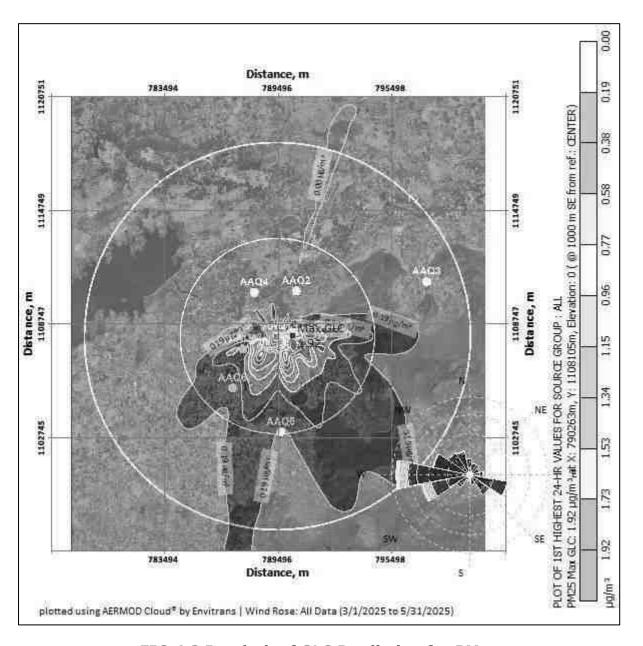


FIG 4.2 Isopleth of GLC Prediction for PM_{2.5}



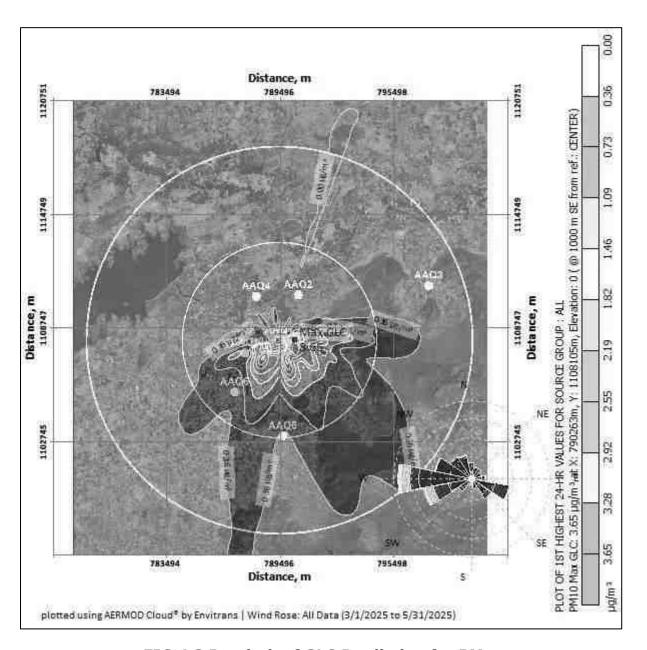


FIG 4.3 Isopleth of GLC Prediction for PM₁₀



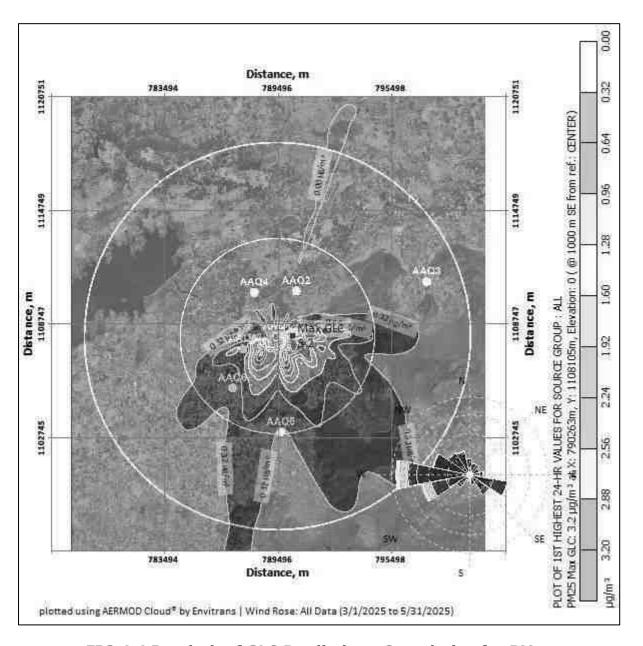


FIG 4.4 Isopleth of GLC Prediction -Cumulative for PM_{2.5}



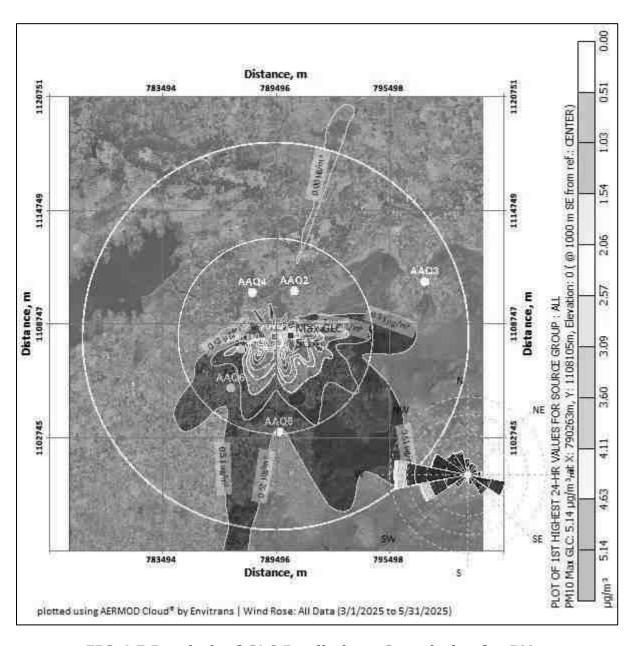


FIG 4.5 Isopleth of GLC Prediction -Cumulative for PM₁₀



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 - 4.3 to 4.3C.

Table 4.3 Concentrations of PM2.5 after Project Implementation					
SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Project site(Parimala)	30.4	1.92	32.32	60
2	Anaikaraipatti	25.0	1.73	26.73	
3	Theppathupatty	25.6	1.53	27.13	
4	T. Vadipatty	23.9	1.34	25.24	
5	Thoppampatti	26.0	1.15	27.15	
6	Andipatti	26.8	<1.0	27.80	
7	T.Renganavaram	27.0	<1.0	28.0	

Table 4.3a Cluster Concentrations of PM2.5 after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Project site(Parimala)	30.4	3.20	33.60	60
2	Anaikaraipatti	25.0	2.88	27.88	
3	Theppathupatty	25.6	2.56	28.16	
4	T. Vadipatty	23.9	2.24	26.14	
5	Thoppampatti	26.0	1.92	27.92	
6	Andipatti	26.8	1.60	28.40	
7	T.Renganavaram	27.0	1.28	28.28	

Table 4.3b Concentrations of PM10 after Project Implementation

SL. No	Location	Background Concentrati on	Predicted incremental Concentration	Post Project Concentration	Statutor y Limits in µg/m³
1	Project site(Parimala)	66.1	3.65	69.75	100
2	Anaikaraipatti	52.1	3.28	55.38	



3	Theppathupatty	54.5	2.92	57.42
4	T. Vadipatty	51.9	2.55	54.45
5	Thoppampatti	55.6	2.19	57.79
6	Andipatti	57.9	1.82	59.72
7	T.Renganavaram	58.9	1.46	60.36

	Table 4.3c Cluster Concentrations of PM10 after Project Implementation					
SL. No	Location	Background Concentrati on	Predicted incremental Concentration	Post Project Concentration	Statutor y Limits in µg/m³	
1	Project site(Parimala)	66.1	5.14	71.24	100	
2	Anaikaraipatti	52.1	4.63	56.73		
3	Theppathupatty	54.5	4.11	58.61]	
4	T. Vadipatty	51.9	3.60	55.50	1	
5	Thoppampatti	55.6	3.09	58.69]	
6	Andipatti	57.9	2.57	60.47	1	
7	T.Renganavaram	58.9	2.06	60.96	1	

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 PM10 are in the range of 54.45 μ g/m3 to 69.75 μ g/m3 and for PM2.5 are in the range of 25.24 μ g/m3 to 32.32 μ g/m3 and PM10 are surrounding area range of 55.50 μ g/m3 to 71.24 μ g/m3 and for PM2.5 are in the range of 26.14 μ g/m3 to 33.60 μ g/m3 which are within the statutory limits in each case. The mitigation measures undertaken in the mine for control of air pollution are given below.

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

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



Table 4.4 Mitigative Measures for Air Environment

S.NO	Activity	Consequence	Mitigative Measures
			Usage of wet drilling
			Covering of drill holes with wet cloth
1	Drilling	Dust Emission	Usage of sharp drill bits for drilling of holes.
			Provision of dust mask to workers working at highly dust prone and affected areas.
			Proper maintenance of HEMM will be carried out to
			minimize dust and gaseous emission at the source level.
	Excavation and Loading	Dust emission, Gaseous Emission	Water sprinkling will be carried out at excavation and
2			loading area.
			Imparting sufficient training to operators on safety and environmental parameters.
			Avoiding overloading of dumpers.
			Regular wetting of transport road using mobile water
		Dust emission	tanker.
3	Transportation	Dust emission, Gaseous Emission	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.
4	Greenbelt	Dust emission, Gaseous Emission	Development of greenbelt / barriers around mine in the safety zone and carrying out plantation within the lease area.
5	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.



4.4.4 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 4.5 - 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;
- 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 proposed quarry operation plans to use an opencast manual method of mining without blasting. Therefore, ground vibration will not arise from this proposed quarry.

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. 6 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/se a	Andipatti Northern Block R.F. (1.4km - E), Andipatti Southern Block R.F (3.8km - SE) and Rajadani R.F (8.5km - E). No forests are situated within 1.0 km radius. The proposed project does not attract Forest	The fugitive dust generated by the mining activity will be suppressed by frequent sprinkling of water based on evaporation rate in the site specific.



		Conservation Act, 1980. There is wild life sanctuaries found around 10km radius i.e., Srivilliputhur Megamalai Tiger Reserve-8.7km(S) 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 of drain, settling pond etc. as e constructed and as such the appreciable impact on surface turn can affect the bio diversity	xplained above will be ere will not be any water quality which in of the area.
7	Risk of fall/slip or cause death to wild animals due to project activities	In the post mining stage, wire around the mined-out void to pring the mine pits.	



8	The project release effluents into a water body that also supplies water to a wildlife	mining activity there will be no	NIL
9	Mining project effect the forest-based livelihood/ any specific forest production which local livelihood depended	beyond 1 km radius. So, the proposed mining activity does not affect forest and forest	NIL
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	, , ,	NIL
12	Forestland is to be diverted, has carbon high sequestration	"	NIL
13	The project likely to affect wetlands, fish breeding grounds, marine ecology	, ,	NIL

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



Table 4.7 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.		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, 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	, , ,	Temporary impact	Only during drilling, operation and	NO	Avenue trees will be planted along the lease area to minimize the noise level. Milli second detonators shall be



from the project activity.			transportation period. (5 years)		used preferably 25–50ms per delay to control vibrations. Regular maintenance of vehicles and driving the tipper within specified limits also control the noise generations.
Ecological Impact on Surrounding/ Eco sensitive habitat due to Transportation	There is no eco sensitive habitat found around the lease area. The fugitive emission from drilling and 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.	' '	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 217 kg per day, 79,205 kg per year and 3,96,025 kg over five years, as provided in below Table.

Description	Per Day	Per year	For Five Years
Total fuel	81	24,362	1,21,808
consumption in liters			
Co2 emission in kg	217	79,205	3,96,025

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 - 4.8 GREENBELT DEVELOPMENT PLAN

Year	No. of trees	Survival	Name of the	No. of trees
	proposed to be	%	Species	expected to be
	planted			grown
I	410	80%	Pongamia pinnata,	335
II	-	80%	Syzigium cumini,	-
III	-	80%	Albizia lebbeck,	-
IV	-	80%	Thespesia	-
V	-	80%	populnea, Bauhinia	-
			racemose, Cassia	
			siamea, Azadirachta	
			indiaca	
Total	410	_	-	335

Nearly 0.41 Ha. of area is proposed for Greenbelt development by planting 410 Nos of trees during every year and expected growth is around 335 Nos @ survival rate of 80%.

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

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

4.4.6 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 20 persons directly and 20 people on 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.3.0 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 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)

Gobal

- 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 0.3 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.



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.



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 OBJECTIVES OF ENVIRONMENTAL MONITORING

The objectives of Environmental Monitoring are as follows.

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



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

6.4 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	Frequency
1	Air Quality	Air Quality for SPM, PM-10, PM 2.5, SO2 and NOx	24 hour average samples once every 3 months
2	Water Quality	General, Physical, and chemical parameters	Once in season
3	Noise	Leq. Lmax Lmin, Leq Day & Leq Night dB (A)	8 hour average samples once every 3 months
4	Soil	Physical and Chemical Characteristics	Once in Season.



6.5 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.

Total EMP Cost for 5 years is 19.58 lakhs i.e., Rs. 8.58 Lakhs of Capital + Recurring cost Rs. 11.00 lakhs for Five years. The breakup of EMP cost is elaborated in Table 10.2 of Chapter 10.

6.6 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: -

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



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.

Gobal

Table 7.1 Risk Assessment and Control Measures

S.N O	Risk Factor	Causes of risk	Control Measures
1	Accidents due to explosives and heavy mining machineries	Improper handling and unsafe working practice	All safety precautions and provisions of Mine Act, 1952, Metalliferous Mines Regulation, 1961 and Mines Rules, 1955 will be strictly followed during all mining operations. Entry of unauthorized persons will be prohibited. Fire-fighting and first-aid provisions in the mine office complex and mining area. Provisions of all the safety appliances such as safety boot, helmets, goggles etc. will be made available to the employees and regular check for their use. Quarry operation will be done as per approved mining plan and other applicable statutory guidelines issued by DGMS, Dept. of Mining & Geology-Tamil Nadu. Handling of explosives, charging and firing shall be carried out under competent statutory persons. A comprehensive standard operating procedure (SOP) will be prepared as per DGMS guidelines and the same will be circulated to all the employees and it will be strictly followed in the all face of mining operation.
2	Drilling	Improper and unsafe practices. Due to high pressure of compressed air, hoses may burst. Drill Rod may break.	Safe operating procedure established for drilling (SOP) will be strictly followed. Only trained operators will be deployed. 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.



5	Transportation	Potential hazards and unsafe workings contributing to accident and injuries.	Drills unit shall be provided with wet drilling to ensure efficient working. 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
		Overloading of material. While reversal & overtaking of vehicle. Operator of truck leaving his cabin when it is loaded.	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.
- 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.
- 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 no existing Quarry and this proposed quarry are located within a radius of 500 m from this proposed project area. The existing and proposed quarries situated within 500 m radius are presented in below Table 7.2 and the letter received from Dept. of Geology and Mining, Theni stating the quarries detail within 500m radius is enclosed in Annexure – 3.

Table 7.2 Details of Quarries within 500m radius

S.No	Name of the Quarry Owner	S.F. Nos & Village	Lease Period	Area		
a. Aba	a. Abandoned Quarry- Nil					
b. Exi	b. Existing Quarry- Nil					
c. Pro	posed Quarry					



Total Area Under Cluster		5.2	7.5Ha	
	Theni District			
	North Street, T.Rajagopalapantti, Andipatti Taluk,	r Bit-2 Village		
3.	Thiru.Murugan, S/o. Rengasamy,	Th:	-	1.17.5
2	Theni District – 625 536.	1612/26 1655/2		1 17 5
	Andipatti Taluk,			
	Street, Rajagopalanpatti,			
	(Register No.62/2021), South			
	Tmt.T.Thavamani (President)	r Bit-2 Village		
	Kalludaikum Magalir Sangam,	Thimmarasanaickanu		
2.	Tvl.Vannathiparai Nagammal	1619 (Part)	-	2.50.0 Ha
	Theni District – 625 536.			
	Street, Rajagopalanpatti, Andipatti Taluk,			
	(Register No.61/2021), South			
		r Bit-2 Village		
	Kalludaikum Magalir Sangam,			
1.	Tvl.Vannathiparai Kalieswari		-	1.60.0 Ha

As seen above, although the individual lease area of this project is less than 5 hectares, the no existing Quarry within a 500-meter radius, along with this subject project, add up to more than 5 hectares i.e. 5.27.5 Ha. A map showing the 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	Р3
Name of the Quarry		Tmt.M.Parimala	Tmt.T. Thavamani	Thiru.Murugan
Geological Resources in Cu.m	Rough stone	3,42,645	6,96,273	2,92,500
	Gravel	-	-	11,700
Mineable Reserves in Cu.m	Rough stone	1,52,260	2,38,149	35,525
	Gravel	-	-	3,360
Production in Tons per day	Rough stone	280.17	438	67
	Gravel	-	-	10.08
Total Production per day in tons		280.17	438	77.08
Lorry Loads per day in Nos	-	28	44	7
Employment in Nos		20	20	21
Proposed Depth in meters		35 m BGL	35 m BGL	26 m BGL
Status of the quarry		Proposed	Proposed	Proposed



Emission Calculation:

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

Quantity, TPA	Rough Stone: 1,52,260 m3 (Five Years)
Operational Hours Per Year	2400
Activity Rate, t/hr.	400.5416667
Emission of dust, g/t.	0.14
Emission of dust, g /hr.	52.56464
Area of influence, m ²	622
Uncontrolled emission rate g/s/m ²	0.000022181
Controlled emission rate, PM10 g/s/m ²	0.000002218
Controlled emission rate, PM2.5 g/s/m ²	0.0000014787

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

Quantity, TPA	Rough Stone: 1,52,260 m3 (Five Years)
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	834
Lead length/trip, Km	0.6
Total VKT/Year	72323
Emission Kg/VKT	0.20
Total emission Kg/Year	19932.55
Uncontrolled emission rate g/s/m	1.3308
Controlled emission rate, PM10 g/s/m	0. 13308
Controlled emission rate, PM2.5 g/s/m	0. 03697



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

Quantity, m ³	Proposed Quarries: Tmt. Parimala Rough Stone: 1,52,260 m3 Thiru.R.Murugan: 35,525 m3 of Rough Stone, 3,360 m3 of gravel Tmt.Thavamani: 2,38,149 m3 of Rough Stone.
Operational Hours Per Year	2400
Activity Rate, t/hr.	354.34
Emission of dust, g/t.	0.25
Emission of dust, g /hr.	63.4543
Area of influence, m ²	625
Uncontrolled emission rate g/s/m ²	0.00062538
Controlled emission rate, PM10 g/s/m ²	0.0006253
Controlled emission rate, PM2.5 g/s/m ²	0.000041692

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

Quantity, m ³	Proposed Quarries: Tmt. Parimala Rough Stone: 1,52,260 m3 Thiru.R.Murugan: 35,525m3 of Rough Stone, 3,360m3 of gravel Tmt.Thavamani: 2,38,149 m3 of Rough Stone.
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	8685
Lead length/trip, Km	0.17
Total VKT/Year	624353
Emission Kg/VKT	0.25
Total emission Kg/Year	16543.56
Uncontrolled emission rate g/s/m	3.7523
Controlled emission rate, PM10 g/s/m	0. 37523
Controlled emission rate, PM2.5 g/s/m	0.10424



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

7.4.1 PREDICTED EMISSION ESTIMATION FROM CLUSTER

Predicted maximum ground level concentrations considering micro meteorological data of March to May 2025 are superimposed on the maximum baseline concentrations obtained during the study period to estimate the post project scenario, which would prevail at the post operational phase. The overall scenario with predicted concentrations over the maximum baseline concentrations is shown in the following table along with isopleths Figures 7.2 & 7.3. Various predicted emission levels in the villages surrounding site are presented in Table 7.6 and 7.7 below.

	Table 7.4 Concentrations of PM2.5 after Project Implementation					
SL.	Location	Background	Predicted	Post Project	Statutory	
No		Concentration	incremental	Concentration	Limits in	
			Concentration		μg/m³	
1	Project	30.4	1.92	32.32	60	
	site(Parimala)					
2	Anaikaraipatti	25.0	1.73	26.73		
3	Theppathupatty	25.6	1.53	27.13		
4	T. Vadipatty	23.9	1.34	25.24		
5	Thoppampatti	26.0	1.15	27.15		
6	Andipatti	26.8	<1.0	27.80		
7	T.Renganavaram	27.0	<1.0	28.0		



T	Table 7.4 a Cluster Concentrations of PM2.5 after Project Implementation					
SL.	Location	Background	Predicted	Post Project	Statutory	
No		Concentration	incremental	Concentration	Limits in	
			Concentration		μg/m³	
1	Project	30.4	3.20	33.60	60	
	site(Parimala)					
2	Anaikaraipatti	25.0	2.88	27.88		
3	Theppathupatty	25.6	2.56	28.16		
4	T. Vadipatty	23.9	2.24	26.14		
5	Thoppampatti	26.0	1.92	27.92		
6	Andipatti	26.8	1.60	28.40		
7	T.Renganavaram	27.0	1.28	28.28		

Table 7.4 b Concentrations of PM10 after Project Implementation

SL.	Location	Background	Predicted	Post Project	Statutor
No		Concentrati	incremental	Concentration	y Limits
		on	Concentration		in µg/m³
1	Project	66.1	3.65	69.75	100
	site(Parimala)				
2	Anaikaraipatti	52.1	3.28	55.38	
3	Theppathupatty	54.5	2.92	57.42	
4	T. Vadipatty	51.9	2.55	54.45	
5	Thoppampatti	55.6	2.19	57.79	
6	Andipatti	57.9	1.82	59.72	



7	T.Renganavaram	58.9	1.46	60.36					
Table 7.4c Cluster Concentrations of PM10 after Project Implementation									
SL.	Location	Background	Predicted	Post Project	Statutor				
No		Concentrati	incremental	Concentration	y Limits				
		on	Concentration		in µg/m³				
1	Project	66.1	5.14	71.24	100				
	site(Parimala)								
2	Anaikaraipatti	52.1	4.63	56.73					
3	Theppathupatty	54.5	4.11	58.61					
4	T. Vadipatty	51.9	3.60	55.50					
5	Thoppampatti	55.6	3.09	58.69					
6	Andipatti	57.9	2.57	60.47					
7	T.Renganavaram	58.9	2.06	60.96					

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 PM10 are surrounding area range of 55.50 μ g/m3 to 71.24 μ g/m3 and for PM2.5 are in the range of 26.14 μ g/m3 to 33.60 μ g/m3 which are within the statutory limits in each case.



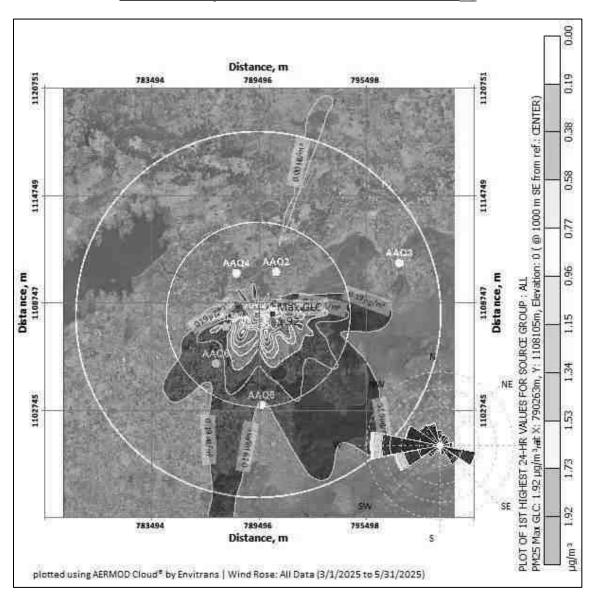


FIG 7.1 Isopleth of GLC Prediction for PM_{2.5}

G)obal

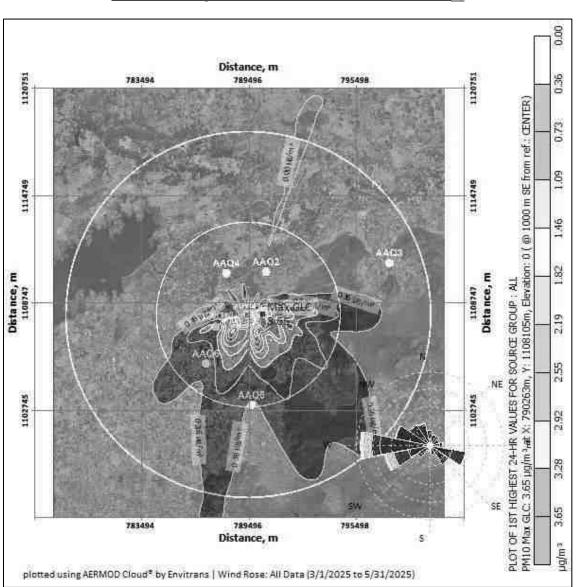


FIG 7.2 Isopleth of GLC Prediction for PM₁₀

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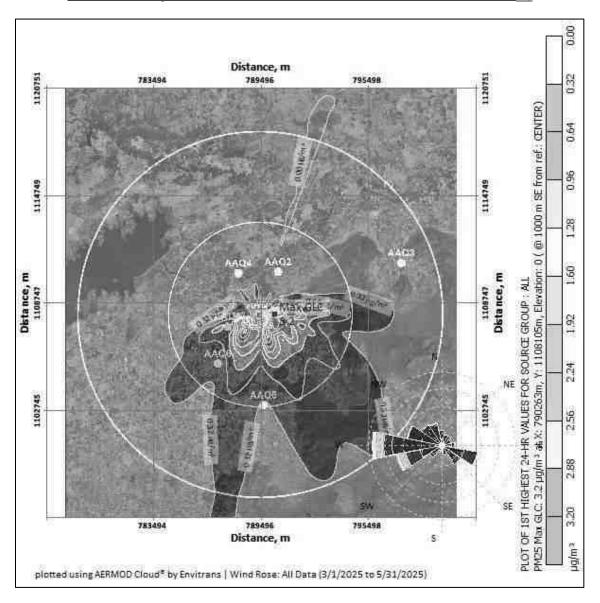


FIG 7.3 Isopleth of GLC Prediction -Cumulative for PM_{2.5}

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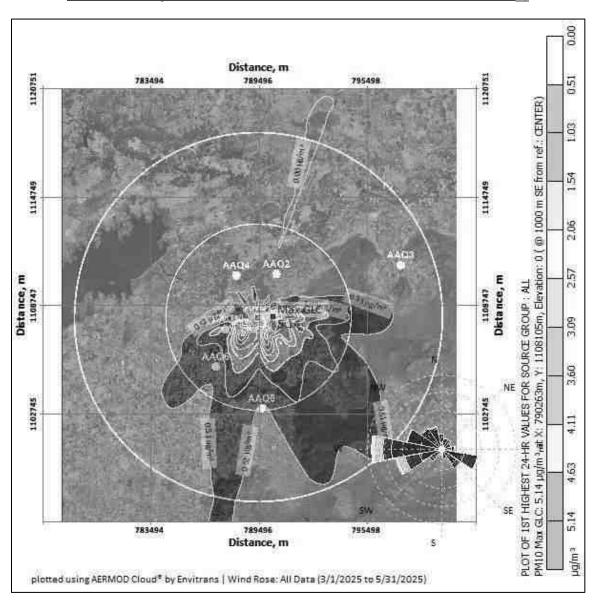


FIG 7.4 Isopleth of GLC Prediction -Cumulative for PM₁₀

G)obal

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 PM10 are in the range of $54.45~\mu g/m3$ to $69.75~\mu g/m3$ and for PM2.5 are in the range of $25.24~\mu g/m3$ to $32.32~\mu g/m3$ and PM10 are surrounding area range of $55.50~\mu g/m3$ to $71.24~\mu g/m3$ and for PM2.5 are in the range of $26.14~\mu g/m3$ to $33.60~\mu g/m3$ which are within the statutory limits in each case. The mitigation measures undertaken in the mine for control of air pollution are given below.

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

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

7.4.2 CUMULATIVE IMPACT ON SOCIO-ECONOMIC ENVIRONMENT

The mining operations in the 3 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 7.5 SOCIO ECONOMIC BENEFITS FROM 3 MINES

	Employment	Project Cost	CER
P1	20	Rs. 79.08 Lakhs	Rs.3.0 Lakhs
P2	20	Rs.96.26 Lakhs	Rs.3.0 Lakhs
Р3	21	Rs.41.05 Lakhs	Rs.2.0 Lakhs
Total	61	Rs. 216.39 Lakhs	Rs.8.0 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 plain terrain. The rock type noticed in the lease area is Charnockite which contains mostly Quartz and Feldspar with some ferromagnesian.
- Since the formation is of homogeneous rock type probability of slope failure is low and can be avoided if proper measures are adopted.
- There will be a 7.5m safety zone which will form a ridge which can also take care of the top section and as such no risk is envisaged on this front.

Mitigation Measures

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



8 PROJECT BENEFITS

The project area is located on Government 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 Tmt. M. Parimala will create direct employment opportunity for 20 local people. The PP has proposed CER amount of Rs. 3.0 Lakhs for surrounding schools' development.



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 vide TOR identification No. TO25B0108TN5292193N/2025 Dated: 25.07.2025. Hence not applicable.



10ENVIRONMENTAL 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

The Project Proponent – TMT. M. Parimala 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	Mitigation Measures	
Parameter		
Air	Wet drilling to suppress the dust emission from drill machine	
	Regular water sprinkling on haulage road through fixed water	
	sprinkler.	
	1.5 m3/day of water will be used for dust suppression.	
	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	No major river is found nearby the lease-applied area. Odai passing at	
	92m in North direction, Odai passing at 198m in North Direction, Odai	
	passing at 224m in South West Direction, Odai passing at 294m in	
	South East Direction, Vaigai River is situated at a distance of 1.8km in	
	North Direction, Periyar Main Canal is situated at a distance of 2.0km	
	in North Direction, Mavuttu Odai passing at 3.5km in North West	
	Direction, Varaha River is situated at a distance of 4.4km in North	
	Direction, Vaigai Dam is situated at a distance of 6.2km in North West	
	Direction. 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 35 m maximum	
	below ground level, the water table in the area is 60 m below ground	
	level, hence the project will not intersect the ground	
	water table during entire quarry period.	
Water	The required water of 4.0 KLD will be procured from outside agencies	
Consumption and	initially and later rainwater harvested in the mine pit shall be used	
Wastewater	other than drinking purpose.	
generation	Domestic wastewater generation of 1.0 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 (7.5 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.	
Land	There is no change will be in the land use pattern as mentioned in the	
Environment	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 /	There is no waste anticipated in this rough stone Quarry. The entire	
Overburden	quarried minerals will be utilized.	
Biological	During mining, three-layer thick plantation will be carried out around	
Environment	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 IV	

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.



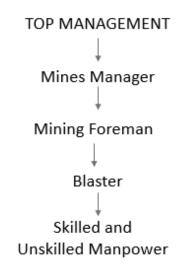


Figure 10.1 Organization Chart

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

			Recurring
Activities	Mitigation Measure	Capital cost	Cost per
			Annum
Air	Compaction, gradation and drainage on	0.08	0.08
Environment	both sides for Haulage Road		
	Fixed Water Sprinkling Arrangements +	5.00	0.25
	Water sprinkling by own water tankers		
	Wet drilling procedure / latest eco-friendly	0.10	0.02
	drill machine with separate dust extractor		
	unit		
	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	0.04	0.00
	Regular monitoring of exhaust fumes as per RTO norms	0.00	0.05



	Regular sweeping and maintenance of	0.00	0.50
approach roads for at least about 200 m			
from ML Area			
	Installing wheel wash system near	2.00	0.05
	gate of quarry		
	Sub-Total (A)	7.22	1.10
	vision for domestic waste collection and	0.20	0.10
Waste	disposal through authorized agency		
Management	Installation of dust bins	0.05	0.02
	0.25	0.12	
Mine Closure	Plantation inside ML area (410 Nos.)	0.41	0.08
	Sub-Total (C)	0.41	0.08
	Size 6' X 5' with blue background and	0.05	0.01
Implementation white letters as mentioned in MoM			
of EC, Mining Appendix II by the SEAC TN			
Plan & DGMS Air, Water, Noise and Soil Quality 0.00 0		0.50	
Condition	Sampling every 6 Months for Compliance		
	Report of EC Conditions		
	1		



Sub-Total (D) Grant Total (A+B+C+D)		0.70 8.58	1.99	
			0.70	
	mines and mine entrance			
	Installation of CCTV cameras in the	0.15	0.02	
	deployed for traffic management			
	transport routes. Flaggers will be			
	No parking will be provided on the	0.25	0.01	
	Signage & boards for safety precautions	0.05	0.01	
	First Aid facility Provision	0.00	0.03	
	Health checkup for workers will be provisioned	0.00	0.10	
	Protective Equipment's			
	Workers will be provided with Personal	0.20	0.02	

Total EMP Cost for 5 years is 19.58 lakhs

i.e., Rs.8.58 Lakhs of Capital Cost + Rs.11.00 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.



11. SUMMARY AND CONCLUSION

11.1 INTRODUCTION

This EIA Report is prepared for TMT. M. Parimala Rough Stone Quarry over an extent of 1.60.0 Ha. Government land in S. F. No. 1432/3 (Part) of Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, Tamil Nadu in compliance with ToR obtained vide TOR Identification no. TO25B0108TN5292193N, Dated: 25.07.2025.

Although the individual lease area of this project is less than 5 hectares, no existing Quarry within a 500-meter radius, along with this subject project, add up to more than 5 hectares i.e. 5.27.5 Ha. A map showing the existing and proposed quarry located within 500m radius is given in Figure 1.1.

S.No	Name of the Quarry Owner	S.F. Nos & Village	Lease Period	Area
a. Aba	ndoned Quarry- Nil			
b. Exis	sting Quarry- Nil			
c. Prop	oosed Quarry			
1.	Tvl.Vannathiparai Kalieswari	1432/3(Part)	-	1.60.0 Ha
	Kalludaikum Magalir Sangam,	Thimmarasanaickanur		
	Tmt.M.Parimala (President)	Bit-2 Village		
	(Register No.61/2021), South			
	Street, Rajagopalanpatti,			
	Andipatti Taluk, Theni District –			
	625 536.			



2.	Tvl.Vannathiparai Nagammal	1619 (Part)	-	2.50.0 Ha
	Kalludaikum Magalir Sangam,	Thimmarasanaickanur		
	Tmt.T.Thavamani (President)	Bit-2 Village		
	(Register No.62/2021), South			
	Street, Rajagopalanpatti,			
	Andipatti Taluk,Theni District –			
	625 536.			
3.	Thiru.Murugan, S/o. Rengasamy,	1613/3C, 1655/2	-	1.17.5
	North Street, T.Rajagopalapantti,	Thimmarasanaickanur		
	Andipatti Taluk,	Bit-2 Village		
	Theni District			
Total Area Under Cluster				5.27.5Ha

11.2 PROJECT DESCRIPTION

Table 11.1 Salient Features of the Project

Description	Salient Feature
Name of the Project	Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,
	Tmt.M.Parimala(President)
Location of the Project	S. F. No. 1432/3(Part) of ThimmarasanaickanurBit-2 Village,
	Andipatti Taluk, Theni District.
Latitude & Longitude	Latitude: 10°01'31.08"N to 10°01'37.17"N
	Longitude: 77°38'22.55"E to 77°38'27.31"E
Toposheet No.	58F/12



ML Area	1.60.0Ha
Type of Land	Government Land
Geological Resource	Rough Stone - 3,42,645 m3
Mineable Reserves	Rough Stone - 1,52,260 m3
Proposed Production for first Five years	1,52,260m3 of Rough Stone upto a depth of 35m
	below ground level
Life of the mine	First 5 years
Proposed depth of mining	35 m bgl
Method of Mining	Opencast manual method of mining without
	blasting.
Proposed bench height and width	Bench Height & Width – 5m.
	There is no overburden anticipated during the entire
Waste Generated & its management	Rough Stone quarrying operation. The excavated
waste deficiated & its management	rough stone will be manually dressed into small
	building stones for foundation
	purpose.
	The proposed bench height & width is 5.0m
Bench parameters	respectively and the number of proposed benches is
	7.
Water Requirement & source	Total – 4.0 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	20 Nos
Total Project Cost	Rs.79.08 Lakhs
EMP cost (in Lakhs).	Rs.19.58 Lakhs



CER cost (in Lakhs).	Rs.3.00 Lakhs
Nearest Highway	NH-85: Madurai – Bodinaickanur Road – 2.3 km S SH-101: Devathanapatti – Varusanadu Road – 4.8
	km NW
Nearest Railway Station	The Nearest Railway line is Andipatti which is about
	3.6 Km on Southern side of the area.
Nearest Airport	Madurai International Airport – 53 km SE
Nearest Major Water bodies	Odai-92m(N),
	Odai-198m (N),
	Odai-224m(SW),
	Odai 294m(SE),
	VaigaiRiver-1.8km (N),
	PeriyarMainCanal–2.0km (N),
	MavuttuOdai-3.5km(NW),
	VarahaRiver-4.4km(N),
	Vaigai Dam-6.2km(NW)
Environmental sensitive areas,	NIL within 10 km radius
Protected areas as per Wildlife	
Protection Act, 1972 (Tiger reserve,	
Elephant reserve, Biospheres, National	
parks, Wildlife sanctuaries, community	
reserves and conservation reserves)	
NBWL Clearance / Conservation Measures	Applicable Srivilliputhur Megamalai Tiger Reserve - 8.7 km
	(S)
Reserved / Protected Forests	Andipatti Northern Block R.F. – 1.4 km (E)
	Andipatti Southern Block R.F. – 3.8 km (SE)



	Rajadani R.F. – 8.5 km (E)	
Nearest Village	Nallakaruppathevanpatti – 400 m NE,	
	T.Sedapatti – 700 m SE,	
	Vegavadiashramam – 1.6 km NW,	
	T.Renganavaram – 1.8 km SW	
	Thimmarasanaickanur Bit-2 – 3.6 km SE	
Seismic Zone	Zone II	

11.3 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



11.3.1 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	7.92	2.48
2	Crop land	114.65	36.03
3	Fallow land	29.12	8.87
4	Land with scrub	18.96	5.56
5	Land without scrub	41.99	13.19
6	Existing Quarry	6.27	1.97
7	Plantations	12.78	4.01
8	Hill & Forest	63.57	19.98
9	Plantations	12.78	4.01
10	Water bodies	22.86	7.91
	Total Area	330.9	100.0

Source: Survey of India Toposheet and Landsat Satellite Imagery

11.3.2 SOIL CHARACTERISTICS

Results of the soil samples show that the pH values were found to be 6.57 to 7.86 and Electrical Conductivity values were ranging between 72.64 – 162.7 µmhos/cm. Soils are generally Silt Loam. Organic matter values were ranging between 0.64 – 1.39 %. Total Nitrogen values were ranging between 226–632 mg/kg. Phosphorus values were ranging between 0.92 – 2.11 µg/g. Potassium values were ranging between 524 – 890 mg/kg. Sodium values were ranging between 355 – 1070 mg/kg. Total Sulphate values were observed to be BDL. The soil quality data for the 3 samples collected and analyzed are provided in Table no – 3.14.



11.3.3 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 at 5 locations as per prescribed guidelines/ methods. As per the monitoring data, the PM₁₀ values were in the range of $45.0 - 58.9 \,\mu\text{g/m3}$. PM_{2.5} values were in the range of $20.7 - 27.0 \,\mu\text{g/m3}$. SO₂ levels were ranging from $4.7 - 6.8 \,\mu\text{g/m3}$. NO₂ levels were ranging from $9.3 - 11.9 \,\mu\text{g/m3}$. 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 $- 1144 \,\mu\text{g/m3}$).

11.3.4 WATER ENVIRONMENT

Surface Water

The pH varied from 7.86 to 7.92 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 118 to 140 mg/l. Chloride varied between 32.4 mg/l and 35.7 mg/l. Nitrates varied from BDL(DL-1.0) to 1.65 mg/l, while sulphates varied from 14.8 to 15.9 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 7.21 to 7.93, Chlorides Ranges From 125 - 375 mg/l, Sulphates value found to be between 32.0 - 154 mg/l, Fluoride Ranges low in lease area i.e. 0.29 - 0.52, Hardness varies from 171 - 576 mg/l, and Total dissolved solid 442 - 860 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.

11.3.5 NOISE ENVIRONMENT

From the table it is observed that the day Equivalent Noise (Leq-d) level were ranging from 46.2 to 50.3 dB(A) and Night Equivalent Noise (Leq-n) level were ranging from 38.2 to 43.3 dB(A). Day and Night Equivalent Noise (Leq-n) level were ranging from 45.1 to 49.0 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.



11.3.6 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.

11.3.7 SOCIO-ECONOMIC ENVIRONMENT

An attempt has been made to assess the impact of the proposed mining project at Thimmarasanaickanur Bit-2 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.

11.4 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 1.17.0 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 (0.41.0 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
- Washouts from surface exposure or working areas
- Impact on Surface Water Resources
- Impact on Ground water
- Impact on Water Quality
- *

- Odai–92m(N), Odai–198m (N), Odai– 224m(SW), Odai 294m(SE), Vaigai River– 1.8km (N), Periyar Main Canal–2.0km (N), Mavuttu Odai–3.5km(NW), Varaha River–4.4km(N), Vaigai Dam–6.2km(NW)
- 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 (4.0 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 sump with each capacity 2500 Cu.m proposed to harvest 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.
- 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.

- Using Wet drilling methods, Allowing drilling only with PPE,
- 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 and 7.5m 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;
- 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.

Biological Environment

- Direct impacts include land clearance and excavation causing destruction of flora and fauna and loss of habitats.
- 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.



- Indirect impacts include habitat degradation due to noise, dust, and human activity.
- The core zone or buffer zone does not encompass any threatened flora or fauna species.

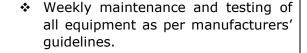
Socio-Economic Environment

- 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 20 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.





- 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.

11.5 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.

11.6 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. 8.58 Lakhs and the recurring cost of Rs. 11.0 Lakhs have been allocated under the EMP budget which includes Environmental Monitoring Cost.

11.7 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 TO25B0108TN5292193N/2025 Dated: 25.07.2025. 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 one existing and this proposed quarries within the 500m radius along with this subject project 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 quarry 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 79 trips per day. The existing road can absorb this additional traffic due to this project.

The proposed Quarries (3 Nos) will provide direct employment opportunities for 61 people.

The proposed Quarries (3 Nos) has allocated Rs. 8.0 Lakhs as the CER budget and this proposed project has allocated Rs.3.0 Lakhs.

11.8 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 20 people directly. Local people will be hired for unskilled labour.
- > Through CSR, nearby schools, hospitals will be benefitted.

11.9 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/23-26/SA 0241. The registered office of Global Mining Solutions is at Plot No.6, S.F.No.13/2 A2, VS City, RC Chettypatty, Kottamettupatty, Omalur, Salem, Tamilnadu-636455.

Declaration by Experts contributing to the proposed Rough Stone Quarry over an extent of 1.60.0 Ha Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, Tamil Nadu.

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

EIA Coordinator Name: Manikandan Manickam

Trila

Signature & Date

Period of involvement: March to May 2025.

Contact information:

M/s Global Mining Solutions

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



Kottamettupatty, Omalur,

Salem, Tamil Nadu – 636 455.

S. No.	Functional areas	Name of the expert/s	Involvement (period and task**)	Signature and Date
1	AP	Dhanalakshmi Ramanathan	Assessment of existing air quality, Impact of the project on ambient air and suggested mitigation measures for air pollution. Period: March to May 2025	R. Dhams_
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	L'Alinej
3	SHW	Ramadoss N	Assessment of waste generated from the project, suggested waste management practices. Period: March to May 2025	C ROM!



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	ch. s. thy
5	ЕВ	Saravanan S	Baseline data collection of related to ecology of the area. Period: March to May 2025	Caravana -
6	HG	Ravinthiran N	Hydrogeological feature of the area. Ground water depth and impact of project on ground water of the area. Period: March to May 2025	as a state of the
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 to May 2025	T Similalte



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 to May 2025.	R. Dhans
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.	T Similalte
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.	Porashant.
11	SC	Shisupal Sing	Soil monitoring, secondary data collection on soil type, soil management	Droupy State.



			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.	of men



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

				TM- FAE:		
S. No	Name of TM (FAE)	Functional Area	Approved FAE (to work under)	Period of involvement	Type of work	Signature
	Kamaraj S	HG	Ashok Kumar Rajagopal	Period: March to May 2025.	Associated with Experts in studying hydrogeological pattern of study area, Studying ground water and the impact of the project on ground water	3. Kommed. 2
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.	his
3	Mownica Balaji	NV	Dhanalakshmi Ramanathan		Associated with the expert team in suggesting control	



		АР	Dhanalakshmi Ramanathan	Period: March to May 2025.	measures for noise and Ground Vibration. Associated with expert team in assessing existing air quality, impact of the project on ambient air and suggesting mitigation measures for air pollution	Mounica.B
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	Q. Salasua
		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.	u Tell
		HG	Ashok Kumar Rajagopal		Associated with Experts in studying hydro-geology pattern of study area, studying	M. Charles



1	1		1	¬		ı
					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.	3. rame =
7	Prabu M	Geo	Valliappan Meyyappan	Period: March to May 2025.	Associated with Experts and involved in Field Investigations, Mapping /Georeferencing	H. Perus
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.	& Ding



9	Dhanalakshmi Ramanathan	AQ	Srilatha Thiruveedhula	Period: March to May 2025	Involved with Expert team and involved in calculating air emission values using Meteorological data and Providing inputs for running modelling (ISCT3, AERMOD).	R. Dhams_
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	min
		WP	Abirami Kaliyaperumal		Involved in the identification of source of water and waste generation, suggesting treatment for safe disposal of wastewater	100



> ANNEXURE-1



File No: 12270

Government of India

Ministry of Environment, Forest and Climate Change (Issued by the State Environment Impact Assessment Authority(SEIAA), TAMIL NADU)



Dated 25/07/2025



To,

Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam

Tmt.M.Parimala (President), (Register No.61/2021), South Street, Rajagopalanpatti, Andipatti Taluk,

Theni District , TAMIL NADU- 625536 manikandan978772@gmail.com

Subject:

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

Sir/Madam,

Sub: SEIAA, Tamil Nadu – Terms of Reference along with Public Hearing (ToR) for the Proposed Rough Stone Quarry over an extent of 1.60.0Ha of S.F. No. 1432/3 (Part) of Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, Tamil Nadu by Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt.M.Parimala (President) – "B1" and Schedule S.No. 1 (a) – ToR issued along with Public Hearing- preparation of EIA report – Regarding.

Ref: 1. Online proposal No. SIA/TN/MIN/539887/2025, Dated: 31.05.2025.

- 2. Your application submitted for Terms of Reference dated: 05.06.2025.
- 3. Minutes of the 585th Meeting of SEAC held on 03.07.2025.
- 4. Minutes of the 856th Meeting of Authority held on 21.07.2025.
- 2. The particulars of the proposal are as below:

(i) **TOR Identification No.** TO25B0108TN5292193N

(ii) File No. 12270 (iii) Clearance Type TOR (iv) Category B1

(v) **Project/Activity Included Schedule No.** 1(a) Mining of minerals

Proposed Rough stone Quarry of Tvl. Vannathiparai

(vii) Name of Project Kalieswari Kalludaikum Magalir Sangam,

Tmt.M.Parimala (President)

(viii) Name of Company/Organization

VANNATHIPARAI KALEESWARI
KALUDAIKKUM WOMEN SHG

(ix) Location of Project (District, State) THENI, TAMIL NADU

SIA/TN/MIN/539887/2025 Page 1 of 25

(x) Issuing AuthoritySEIAA(xi) Applicability of General Conditionsno(xii) Applicability of Specific Conditionsno

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 21.07.2025. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B,] are available on PARIVESH portal which can be accessed by scanning the QR Code above.
- 3.The State Expert Appraisal Committee (SEAC), based on the information & clarifications provided by the project proponent and after detailed deliberations on all technical aspects recommended the proposal for grant of Terms of Reference with public hearing under the provision of EIA Notification, 2006 and as amended thereof subject to the stipulation of specific and general conditions as detailed in Annexure (2).
- 4.The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification,2006 & further amendments thereto and after accepting the recommendations of the SEAC hereby decided to issue the following Terms of Reference with public hearing for instant proposal of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam under the provisions of EIA Notification, 2006 and as amended thereof.
- 5. The Ministry/SEIAA-TN reserves the right to stipulate additional conditions, if found necessary.
- 6. The Terms of Reference with public hearing to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/Regulations or Statutes, as applicable, to the project.
- 7. This issues with the approval of the Competent Authority.
- 8. The TORs with public hearing prescribed shall be valid for a period of three years from the date of issue, for submission of the EIA/EMP report as per OM No. J-11013/41/2006-IA-II(I)(part) dated 29th August, 2017.

Copy To

- 1. The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
- 2. The Additional Chief Secretary to Government, Environment and Forests Department, Tamil Nadu.
- 3. The Additional Chief Secretary to Government, Natural Resources Department, Tamil Nadu.
- 4. The Additional Principal Chief Conservator of Forests, Regional Office (SZ), 34, HEPC Building, 1st& 2nd Floor, Cathedral Garden Road, Nungambakkam, Chennai 34.
- 5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
- 6. The Chair Person, TNPC Board, 76, Mount Salai, Guindy, Chennai-32
- 7. The District Collector, Theni District,
- 8. The Commissioner of Geology and Mines, Guindy, Chennai-32
- 9. Assistant Director, Department of Geology & Mining, Theni District,
- 10. EI Division, Ministry of Environment & Forests, Paryavaran Bhawan, New Delhi.
- 11. File Copy.

Annexure 1

Specific Terms of Reference for (Mining Of Minerals)

1. Seiaa Specific Conditions:

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S. No	Terms of Reference
1.1	The authority noted that the subject was placed in the 585th SEAC-II meeting held on 03.07.2025. After detailed discussions, the Authority accepts the recommendation of SEAC-II and decided to grant Terms of Reference (ToR) along with Public Hearing for the quantity of 1,52,260m3 of Rough Stone up to the depth of 35m BGL. The annual peak production is 30,565m3 of Rough Stone as per the approved mining plan, under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC-II & normal conditions & the conditions mentioned in Annexure of this minutes.

2. Seac Conditions - Standard

S. No	Terms of Reference
	TERMS OF REFERENCE (ToR) FOR GRANITE / ROUGH STONE QUARRY
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

SIA/TN/MIN/539887/2025 Page 3 of 25

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

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S. No	Terms of Reference
	38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation. 39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given. 40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc. 41. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB. 42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine. 43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

3. Seac Conditions - Site Specific

S. No	Terms of Reference
3.1	1. A Cluster Management Committee (CMC) shall be constituted including all the mines in the cluster as Committee Members for the effective management of the mining operation in the cluster through systematic & scientific approach with appointment of statutory personnel, appropriate environmental monitoring, good maintenance of haul roads and village/panchayat roads, authorized blasting operation etc. The PP shall submit the following details in the form of an Affidavit during the EIA appraisal: (i) Copy of the agreement forming CMC. (ii) The Organisation chart of the Committee with defining the role of the members (iii) The 'Standard Operating Procedures' (SoP) executing the planned activities. 2. The Boundary pillars to be erected as per the mine rules and the evidence should be submitted along with the EIA report. 3. Since waterbodies are situated nearby, the PP shall carry out the hydrological study including the details of waterflow pattern to determine the impacts of the mining operation in the waterbodies. 4. The details of enumeration of structures including schools, colleges, primary health centers should be submitted along with the EIA report. 5. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & up to 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc. and spell out the mitigation measures to be proposed for the protection of the above structures, if any during the quarrying operations. 6. The proponent shall furnish photographs of adequate fencing; garland drainage built with siltation tank & green belt along the periphery including replantation of existing trees; maintaining the safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan. 7. The Proponent shall carry out Bio diversity study as a part of EIA study and the same shall be included in the Report.

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S. No	Terms of Reference
	stating to abide the EMP for the entire life of mine. 9. The PP shall carry out the comprehensive studies on the cumulative environmental impacts of the existing & proposed quarries which included drilling & blasting, loading & hauling on the surrounding village and structures. 10. The PP shall prepare a conceptual action plan accommodating the inclusion of haul road accessibility keeping the benches intact, by ensuring the slope stability of the working benches to be constructed and existing quarry wall. 11. The PP shall install the CCTV camera for the continuous surveillance of mining activity & furnish the photographic/videographic evidence along with the EIA report.

4. Seiaa Standard Conditions:

S. No	Terms of Reference
4.1	Cluster Management Committee 1. Cluster Management Committee shall be framed which must include all the proponents in the cluster as members including the existing as well as proposed quarry. 2. The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc., 3. The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease and the same shall be updated every year to the AD/Mines. 4. Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network. 5. The committee shall deliberate on risk & emergency management plan, fire safety & evacuation plan and sustainable development goals pertaining to the cluster in a holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan. 6. The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the Environmental policy devised shall be given in detail in the EIA Report. 7. The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner. 8. The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public in the vicinity. Agriculture & Agro-Biodiversity 9. Impact on surrounding agricultural fields around the project site. 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 shall committed mentioned in EMP. 12. The Environmental I

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S. No	Terms of Reference
	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.
	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
	Mine Closure Plan 32. Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued. EMP 33. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued and the scope for achieving SDGs.
	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.

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

Standard Terms of Reference for (Mining of minerals)

1.

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

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S. No	Terms of Reference
	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 noncompliances / 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 Expert Appraisal Committees
1.13	Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished
1.14	Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated
1.15	The vegetation in the RF / PF areas in the study area, with necessary details, should be given
1.16	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted
1.17	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/

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S. No	Terms of Reference
	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
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

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S. No	Terms of Reference
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 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

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S. No	Terms of Reference
	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 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

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S. No	Terms of Reference
	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



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A. STANDARD TERMS OF REFERENCE

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

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- 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.

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- 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

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- 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.

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- 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

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- 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

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- 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.

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- 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.

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- 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

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- 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.

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- b. All documents may be properly referenced with index, page numbers and continuous page numbering.
- c. Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.
- d. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF& CC vide O.M. No. J-11013/41/2006-IA.II (I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.
- e. The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India (QCI)/National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. In this regard circular no F. No.J -11013/77/2004-IA-II(I) dated 2nd December, 2009, 18th March 2010, 28th May 2010, 28th June 2010, 31st December 2010 & 30th September 2011 posted on the Ministry's website http://www.moef.nic.in/ may be referred.
 - After preparing the EIA (as per the generic structure prescribed in Appendix-III of the EIA Notification, 2006) covering the above-mentioned points, the proponent willtake further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.
 - The final EIA report shall be submitted to the SEIAA, Tamil Nadu for obtaining Environmental Clearance.
 - The TORs with public hearing prescribed shall be <u>valid for a period of</u> 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.

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ANNEXURE-2

அனுப்புநர் மாவட்ட ஆட்சித்தலைவர், தேனி. பெறுநர்: திருமதி.ம.பரிமளா,தலைவி, தி/ள்.வண்ணாத்திபாறை காளீஸ்வரி கல்லுடைக்கும் மகளிர் சங்கம், (பதிவு எண்.61/2021), தெற்கு தெரு, இராஜகோபாலன்பட்டி, ஆண்டிபட்டி வட்டம், தேனி மாவட்டம்.625536..

ANDEXUME

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ந.க.எண்.104/கனிமம்/2024, நாள்:09.12.2024.

பொருள்:

கனிமங்களும், குவாரிகளும் - சிறுவகைக் கனிமம் - உடைகல் - தேனி மாவட்டம் - ஆண்டிபட்டி வட்டம் - திம்மரசநாயக்கனூர் பிட்-2 கிராமம் - அரசு புறம்போக்கு புல எண்.1432/3 (பகுதி) - விஸ்தீரணம் 1.60.0 ஹெக்டேர் பரப்பில் தி/ன்.வண்ணாத்திபாறை காளீஸ்வரி கல்லுடைக்கும் மசுளிர் சங்கம் விண்ணப்பித்தது - முன்னுரிமை அடிப்படையில் நேரடிகற்குவாரி குத்தகை உரிமம் வழங்க சிறப்பு குழுவால் தேர்வு செய்யப்பட்டது - குத்தகை தொகையினை உறுதி செய்து - முதல் தவணை குத்தகை தொகையை செலுத்தப்பட்டது - ஏற்பளிக்கப்பட்ட சுரங்க திட்டம் மற்றும் சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் ஒப்புதல் பெற்று சமர்பிக்க கோருதல் - தொடர்பாக.

பரர்வை:

- 1. வருவாய் கோட்டாட்சியர், பெரியகுளம் கடிதம் ந.க.எனர்.6973/2023/அ6, நாள்:17.11.2023..
- 2. **மாவட்ட வன அலுவலர், தேனி, தேனி வனக்கோட்டம்,** தேனி. கடிதம் எண்.12122/2023/டி, நாள்:05.01.2024.
- தேனி மாவட்ட அரசிதழ் சிறப்பு வெளியீடு எண்.3, நாள்:19.01.2024.
- திருமதி.ம.பரிமளா,தலைவி, தி/ள்.வண்ணாத்திபாறை காளீஸ்வரி கல்லுடைக்கும் மகளிர் சங்கம், (பதிவு எண்.61/2021), தெற்கு தெரு, இராஐகோபாலன்பட்டி, ஆண்டிபட்டி வட்டம், தேனி மாவட்டம். விண்ணப்பம் நாள்:07.02.2024.
- 5. சிறப்புக்குழு (Special Committee) கூட்ட அறிக்கை நாள்.12.07.2024.
- 6. குறிப்பாணை ந.க.எண்.104/களிமம்/2024, நாள்:05.09.2024.

பார்வை 1 மற்றும் 2-ல் காணும் பரிந்துரை அறிக்கையின்படி, பார்வை 3-ல் காணும் தேனி மாவட்ட அரசிதழ் சிறப்பு வெளியீடு எண்.3, நாள்:19.01.2024-ல் தேனி மாவட்டம், ஆண்டிபட்டி வட்டம், திம்மரசநாயக்கனூர் பிட்-2

MILLABORIO

கிராமம், அரசு புறம்போக்கு புல எண்.1432/3 (பகுதி) விஸ்தீரணம் 1.60.0 மொல்கியாட்டு பரப்பில் மகளிர் சங்கங்களுக்கு நேரடி குவாரி குத்தகை உரிமம் வழங்க விண்ணப்பங்கள் மாலி வரவேற்கப்பட்டது. அதனை தொடர்ந்து, பார்வை 4-ல் காணும் தி/ன்.வண்ணாத்தியாறை காளீஸ்வரி கல்லுடைக்கும் மகளிர் சங்கமானது தேனி மாவட்டம், ஆண்டிபட்டி வட்டம், திம்மரசநாயக்களூர் பிட்-2 கிராமம், அரசு புறம்போக்கு புல எண்.1432/3 (பகுதி) விஸ்தீரணம் 1.60.0 ஹெக்டேர் பரப்பு கல்குவாரிக்கு விண்ணப்பம் செய்தது.

பார்வை 5-ல் காணும், மாவட்ட ஆட்சித்தலைவர் அவர்களின் தலைமையில் ஆண்டிபட்டி வட்டம். தேனி மாவட்டம், அமைக்கப்பட்ட சிறப்புக்குழுவான<u>து</u>, அரசு புறம்போக்கு புல எண்.1432/3 (பகுதி) திம்மரசநாயக்களூர் பிட்-2 கிராமம், குவாரிப்பணி செய்ய ஹெக்டேர் பாப்பில் உடைகல் விஸ்கீரணம் 1.60.0 தி/ன்.வண்ணாத்திபாறை காளீஸ்வரி கல்லுடைக்கும் மகளிர் சங்கத்தினருக்கு 5 (ஐந்து) ஆண்டுகளுக்கு கற்குவாரி குத்தகை உரிமம் வழங்க பரிந்துரை செய்யப்பட்டது.

அதனை. தொடர்ந்து, பார்வை 6-ல் காணும் குறிப்பாணையில், தமிழ்நாடு சிறுகனிம் சலுகை விதிகள்,1959, விதி எண்.8 (10-A) (C)-ன்படி 50% குத்தகை தொகை ரு.22,00,000/-ஐ நாள்கு சம தவணைகளில் முதல் தவணை குத்தகைத் தொகை ரு.5,50,000/-ஐ செலுத்தி அசல் சலானை சமர்ப்பிக்குமாறு கேட்டுக்கொள்ளப்பட்டது. அதன் பின்னர், மேற்படி சங்கத்தினர் முதல் தவணைத் தொகை ரு.5,50,000/-யினை சலான் எண்.20240916011424, நாள்:20.09.2024-ன்படி செலுத்தி சமர்ப்பித்துள்ளனர்.

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எனவே, வருவாய் கோட்டாட்சியர், பெரியகுளம், மாவட்ட வன அலுவலர், தேனி மற்றும் சிறப்பு குழுவின் பரிந்துரை அறிக்கையின் அடிப்படையில், விண்ணப்பதாரர் தி/ன்.வண்ணாத்தியாறை காளீஸ்வரி கல்லுடைக்கும் மகளிர் சங்கத்தினருக்கு தேனி மாவட்டம், ஆண்டிபட்டி வட்டம், திம்மரசநாயக்கனூர் பிட்-2 கிராமம், அரசு புறம்போக்கு புல எண்.1432/3 (பகுதி) விஸ்தீரணம் 1.60.0 ஹெக்டேர் சாதாரண உடைகற்கள் வெட்டியெடுத்து குவாரிப்பணி செய்ய தமிழ்நாடு சிறுகனிம் சலுகை விதிகள் 1959-ம் விதி 8 (10-A) (b) (iii)-ன்படி 5 (ஐந்து) ஆண்டுகளுக்கு கற்குவாரி உரிமம் வழங்குவதற்குரிய தகுதியான நிலப்பரப்பாக கருதி குவாரி உரிமம் வழங்க ஏதுவாக 1959-ம் வருடத்திய தமிழ்நாடு சிறுகனிம் விதிகள், விதி எண்.41-ன்படி ஏற்பளிக்கப்பட்ட சுரங்கத் திட்டத்தினை 90 தினங்களுக்குள்ளும் அதனை தொடர்ந்து, 1959-ம் வருடத்திய தமிழ்நாடு சிறுகனிம் விதிகள், விதி எண்.42-ன்படி மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு அணையத்தின் இசைவினையும் பெற்று சமர்பிக்க வேண்டும்.

OLAN AP

ASST. DIRECTOR

நிபந்தனைகள்:

- நனைகள்: அருகிலுள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டரும், அரசு புறம்போக்கு நிலங்களுக்க 10 மீட்டரும் பாதுகாப்பு இடைவெளி விட்டு குவாரிப் பணி மேற்கொள்ள வேண்டும்.
- அருகிலுள்ள பட்டாதாரர்களுக்கு எவ்வித இடையூறுமின்றி / அருகிலுள்ள பட்டா மற்றும் அரசு புலங்களில் எவ்வித ஆக்கிரமிப்பும் இன்றி குவாரிப்பணி மேற்கொள்ள வேண்டும்.
- கற்குவாரி குத்தகை உரிமம் பெறுவதற்கு முன்பாக ஆணையர், புவியியல் மற்றும் சுரங்கத்துறை, சென்னை அவர்களின் கடிதம் ந.க.எண்.2921/எம்.எம்.4/2016, நாள்:09.03.2021-ல் தெரிவிக்கப்பட்டுள்ளவாறு குத்தகைதாரர் குவாரிபணி தொடங்குவதற்கு முன்னர் உரிமம் வழங்கப்பட்ட எல்லைகளை DGPS முறையில் அளவீடு செய்து குறுந்தட்டில் பதிவு செய்து அறிக்கையாக சமர்ப்பிக்க வேண்டும்.

ஒம். (XXXXXXXXXXXXX) மாவட்ட ஆட்சித்தலைவர், தேனி.

ASST PARECTOR
GEOLOGY
& MINING, THEN

<u>/உ.ந.உ.ப./</u>

மாவட்ட ஆட்சித்தலைவருக்காக, சேனி.

2/12/2024



From Thiru.S.Krishna Mohan, Assistant Director, Dept.of Geology and Mining, Theni.

To,
Tvl.Vannathiparai Kalieswari
Kalludaikum Magalir Sangam
(Reg.No.61/2021),
President:Tmt.M.Parimala,
South Street, Rajagopalanpatti,
Andipatty, Theni District.

Roc. No. 104/Mines/2024, dated. 02.04.2025

Sir,

Mines and Minerals - Minor Mineral - Rough Stone -Sub: Theni District Andipatty Taluk Thimmarasanayakkanur Bit-2 Village Poramboke Land - in S.F. Nos. 1432 (Part) - Over an extent of 1.60.00 Hects - Quarry lease application preferred by Tvl. Vannathiparai Kalieswari Kalludaikum Magalir (Reg.No.61/2021), Sangam President:Tmt.M.Parimala Precise communicated -Draft Mining Plan submitted Approval accorded -Regarding.

Ref:

- 1. Theni District Gazette Extraordinary Notification, No.3, dated:09.01.2024.
- 2. lease application preferred Ouarry Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam (Reg.No.61/2021), President:Tmt.M.Parimala, South Street. Rajagopalanpatti, Andipatty, Theni District, application dated.07.02.2024.
- 3. Special Committee Report, daetd:12.07.2024.
- 4. District Collector, Theni Precise area communication letter Roc No. Rc.No.104/Mines/2023, Dated:09.12.2024.
- 5. Mining Plan dated Nil received on 11.02.2025 from Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam (Reg.No.61/2021).

In the reference 1st cited, the District Gazette Extraordinary Notification No.3, dated.09.01.2024 was issued by the District Collector for inviting application from the SGSY Groups registered under the Tamil Nadu Co-operative Act, 1983 or under Societies Act, 1975 and Societies formed by the released bonded laborers under rule 8(10)(A) of Tamil Nadu Minor Mineral Concession Rules, 1959 for direct grant of quarry lease for quarrying rough stone in Government poramboke land.

- 2) Based on the Gazette notification, the applicant Sangam Magalir Kalludaikum Kalieswari Tvl.Vannathiparai (Reg.No.61/2021) submitted an application on 07.02.2024 with a request to grant of rough stone quarry lease in Government poramboke land in 1.60.00 of extent an over (Part). S.F.No.1432 Thimmarasanayakkanur Bit-2 Village, Andipatty Taluk for a period of five years under rule 8(10-A) of Tamil Nadu Minor Mineral Concession Rules, 1959.
- 3) After examining the application, the special committee has furnished its recommendation to the District Collector to grant quarry lease to applicant Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam (Reg.No.61/2021) to quarry rough stone in S.F.No.1432 (Part), over an extent of 1.60.00 Hects of Thimmarasanayakkanur Bit-2 Village, Andipatty Taluk for a period of five years.
- 4) Based on the recommendation of the Special Committee vide letter 3rd cited, the precise area was communicated by the District Collector vide reference 4th cited to applicant Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam (Reg.No.61/2021) with a direction to submit the mining plan before the SEIAA Clearance within the stipulated time to obtain SEIAA Clearance for grant of rough stone quarry lease in Hects 1.60.00 of extent an over S.F.No.1432 (Part), Village, Andipatty Taluk and Theni Thimmarasanayakkanur Bit-2 District.
- 5) In response to the precise area communicated, the applicant has submitted three copies of draft Mining Plan duly prepared by a Qualified Person and requested for approval of the same vide reference 5th cited.
- 6) The draft Mining Plan submitted by the applicant has been examined in detail. The applicant has proposed to produce 1,52,260 cbm of Rough stone up to a depth of 35 meters from the surface level for a period of 5 years. All the conditions stipulated in the precise area communicated have been incorporated in the Mining Plan.
- 7) In exercise of the powers vested under sub rule (2) and (5) of Rule 41 of Tamil Nadu Minor Mineral Concession Rules, 1959, I hereby approve the mining plan subject to the following conditions:-

- The mining plan is approved without prejudice to any i. other order or direction from any court of contempt jurisdiction.
- The mining plan is approved without prejudice to any ii. other Law applicable to the quarry lease from time to time whether such laws are made by the Central Government, State Government or any other authority.
- The approval of the mining plan does not in any way iii. imply the approval of the Government in terms of any Mines and other provisions of the (Development and Regulation) Act 1957, or any other connected laws including Forest (Conservation) Act, 1980, Forest Conservation Rules, 1981, Environment Protection Act, 1980, Indian Explosives Act, 1884 (Central Act IV of 1884) and the Rules made there under and the Tamil Nadu Minor Mineral Concession Rules, 1959.
- The applicant is entitled for production of 1,52,260 iv. cbm of Rough stone for a period of 5 years as per Mining plan.
- Quarrying operations should be carried out in accordance with the Approved Mining Plan.
- A safety distance of 7.5 meters should be provided to vi. the adjoining patta lands.
- A safety distance of 10 meters should be provided to vii. the adjoining Government poramboke lands.
- No hindrance shall be caused to the adjacent pattadars viii. lands, Government poramboke odai and public while carrying out quarrying operations.
 - Environmental Clearance should be obtained from the ix. State Level Environment Impact Assessment Authority, Chennai.
- 8) As directed by the District Collector, Theni in the reference 4th cited, you are hereby requested to produce Environmental Clearance obtained from the State Level Environment Impact Assessment Authority (SEIAA), Chennai as applicable under Rule 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 for grant of quarry lease, in respect MOLOY. Lato of the precise area communicated.

Encl: Approved Mining plan.

Assistant birector. Dept. of Geology and Mining, Theni.



APPROVAL MINING PLAN

MINING PLAN FOR THIMMARASANAICKANUR BITROUGH 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

THENI

TALUK

ANDIPATTI

VILLAGE

THIMMARASANAICKANUR BIT-2

GEOLOGY

& MINING. THEN

S.F.NO

1432/3(PART)

EXTENT

1.60.0Ha

FOR

APPLICANT

Tvl. Vannathiparai Kalieswari Kalludaikum

Magalir Sangam,

Tmt.M.Parimala (President),

(Register No.61/2021),

South Street, Rajagopalanpatti,

Andipatti Taluk, Theni District - 625 536.

PREPARED BY

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

Qualified Person

No.93/36E2, Subramaniyar Kovil Street,

Omalur Taluk, Salem District,

Tamil Nadu, Pin-636 455.

Mobile: 97502 23535 & 94446 54520.

ECO-FRIENDLY



SUSTAINABILITY



SAFETY

















(PPE)

Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,

Tmt.M.Parimala (President),

(Register No.61/2021),

South Street, Rajagopalanpatti,

Andipatti Taluk, Theni District – 625 536.



CONSENT LETTER FROM THE APPLICANT

The Mining Plan in respect of **Rough Stone** quarry over an extent of 1.60.0hectares of Government land in S.F.No.1432/3(Part) of Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, Tamil Nadu State has been prepared by

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

Qualified Person

I request the Assistant Director, Department of Geology and Mining, Theni 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

No.93/36E2, Subramaniyar Kovil Street,

Omalur Taluk, Salem District,

Tamil Nadu, Pin code-636 455.

Mobile:97502 23535 & 94446 54520.

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

> Signature of the Applicant For Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,

> > UMOJAHUMA.

M.Parimala (President),

Place: Theni Date: 10.12.2024



Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam,

Tmt.M.Parimala (President),

(Register No.61/2021),

South Street, Rajagopalanpatti,

Andipatti Taluk, Theni District - 625 536.

DECLARATION

The Mining Plan in respect of **Rough Stone** quarry over an extent of 1.60.0hectares of Government land in S.F.No.1432/3(Part) of Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, Tamil Nadu State has been prepared with my consultation and I have understood the contents and agree to implement the same in accordance with the Mining Laws.

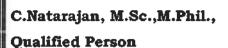
Signature of the Applicant For Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,

+ M. W. D. DOMM

M.Parimala (President),

Place: Theni

Date: 10.12.2024



No.93/36E2, Subramaniyar Kovil Street,

Omalur Taluk, Salem District,

Tamil Nadu, Pin code-636 455.

Mobile:97502 23535 & 94446 54520.



<u>CERTIFICATE</u>

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 1.60.0hectares of Government land in S.F.No.1432/3(Part) of Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, Tamil Nadu State applied by Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam, for fresh quarry lease.

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

Certified

Signature of Qualified Person.

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

Qualified Person

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

Place: Salem

Date: 11.12.2024



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

Qualified Person

No.93/36E2, Subramaniyar Kovil Street,

Omalur Taluk, Salem District,

Tamil Nadu, Pin code-636 455.

Mobile:97502 23535 & 94446 54520.

CERTIFICATE

Certified that, in preparation of Mining Plan for **Rough Stone** quarry over an extent of 1.60.0hectares of Government land in S.F.No.1432/3(Part) of Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, Tamil Nadu State for Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam, covers all the provisions of Mines Act, Rules, and Regulations etc made there under and whenever specific permission are required, the applicant will approach the Director General of Mines Safety, Chennai. The standards prescribed by DGMS in respect of Mines Health will be strictly implemented.

Certified

Signature of Qualified Person.

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

Qualified Person

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

Place: Salem

Date: 11.12.2024

M-My DOMO



CERTIFICATE

Certified that I, C.Natarajan, residing at No.93/36 E2, Subramaniyar Kovil Street, Omalur Taluk, Salem District, Tamil Nadu, Pin Code-636 455. 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 1.60.0Ha of (Government land) in S.F.No.1432/3(Part) of Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District, by Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam, 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.,
Oualified Person

Place: Salem

Date: 11.12.2024

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LIST OF PLATES

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MINING PLAN FOR MINOR MINERALS

ROUGH STONE

Over an extent of 1.60.0hectares of Government land in S.F.No.1432/3(Part) of Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni District,

Tamil Nadu State.

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

1.0 Introduction and Executive Summary;

- The present Mining Plan is prepared for Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt.M.Parimala (President), (Register No.61/2021), South Street, Rajagopalanpatti, Andipatti Taluk, Theni District - 625 536.
- 2. The application was processed by the District Collector, Theni and passed an order vide Rc.No.104/Kanimam/2024 dated 09.12.2024 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 1.60.0hectares of Government lands in S.F.No.1432/3(Part) of Thimmarasanaickanur Bit-2 Village, Andipatti Taluk, Theni 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) A safety distance of 7.5m to the adjoining patta lands and 10m should be provided to the Government poramboke lands while quarry operations.
 - b) The applicant should not cause any hindrance to adjoining patta lands and Government lands while quarry operations.

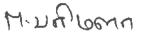
WARPOMU

- c) The applicant should submit the DGPS survey report before the grand quarry lease as per As per the letter received from the Director of Geology and Mining, Chennai, vide letter R.c.no.2921/M.M.4/2016 dated 09.03.2021, the applicant should conduct DGPS survey and the boundary co-ordinates report submit along with CD.
- The applicant intends the Rough stone to use only for Basement stones and not use for any crushing units.
- 5. Geological Resources is estimated at 3,42,645m³ of Rough stone and Mineable Reserves is estimated at 1,52,260m³ of Rough Stone and after leaving necessary safety distance from the lease boundary as indicated in the precise area letter and relevant mining laws in force.
- 6. Production Schedule is proposed production of 1,52,260m³ of Rough Stone for the period of five years.
- The applicant ensured that, child labours under 18 years of age will not be engaged for quarrying operation.
- 8. The applicant ensure that will engage should have valid certified persons (Mines Manager, Foreman, Mate) during quarrying operation.
- 9. Environmental parameters,
 - i) The area does not attract the Forest Conservation Act, 1980 as there is no forest around 1.4km radius.
 - ii) There is no interstate boundary around 10kms radius.
 - iii) There is no wild life animal sanctuary within 8.7Kms 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).



- 10. Environmental measures to be adopted shall be,
 - i) Dust Control at source while drilling and excavation,
 - ii) Dust suppression at loading point and transport haul roads,
 - iii) Noise Control in HEMM Operation, 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.



BYI	POLIMBUR OVINERA BUL		ASST. DIRECT
a.	CUTIVE SUMMARY: Name of the Village Panchayat	:	Thimmarasanaickanur Bit-2
b.	Name of the Panchayat Union	1	Andipatti
c.	The proposed total Minable Reserves		1,52,260m ³ of Rough Stone,
d.	The proposed quantity of reserves (level of production) for Five years to be mined is (Recoverable reserves)	:	1,52,260m ³ of Rough Stone,
e.	Total extent of the area	:	1.60.0Ha
f.	Proposed Period of mining	:	Five Years
g.	Existing depth	:	15m below ground level
h.	Proposed Depth of mining	3	35m (below ground level) for the proposed mining plan.
i.	Method of mining/level of mechanization	:	Opencast Manual method of Mining with a bench height of 5m and bench width of 5m is proposed.
j.	Types of Machineries used in the quarry	576	Machineries like Tractor mounted compressor attached with Jack hammers are proposed to deploy for quarrying operation.
k.	Cost of the Project A. Fixed Assets Cost B. Operational Cost C. EMP Cost		Rs. 25,00,000/- Rs. 31,50,000/- Rs. 5,00,000/- Total Project cost(A+B+C)=Rs.61,50,000/- I by Nine corners and the coordinates are

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

Co- ordinates

Distance between the

Corners	Co- or	dinates Distance between		between the	
Corners	Latitude	Longitude		cor	ners
1	10° 01′ 32.29″N	77° 38′ 22.55″E	1-2	=	88.0m
2	10° 01′ 35.08″N	77° 38′ 23.22″E	2-3		37.6m
3	10° 01' 36.29"N	77° 38' 23.37"E	3-4	=	27.4m
4	10° 01' 37.08"N	77° 38′ 23.78″E	4-5	=	17.2m
5	10° 01' 37.17"N	77° 38' 24.34"E	5-6	=	101.8m
6	10° 01' 35.67"N	77° 38′ 27.31″E	6-7	==	152.8m
7	10° 01′ 31.08″N	77° 38' 25.39"E	7-8	18:	12.0m
8	10° 01′ 31.17″N	77° 38′ 25.01″E	8-9	=	57.2m
9	10° 01′ 32.49″N	77° 38′ 23.68″E	9-1	=	35.0m

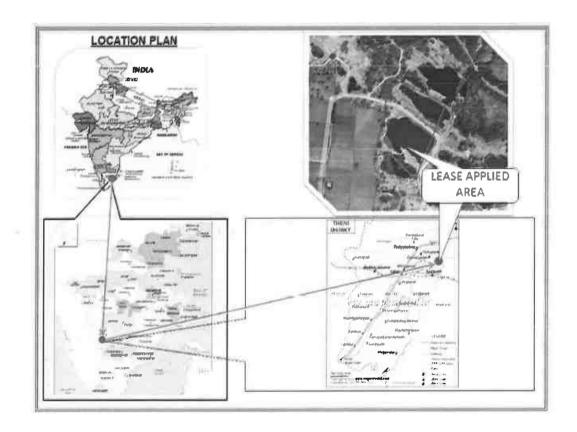


Z.O GOHOLAL LILLOTHIACION.	2.0	General	Information:	
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Kalieswari Kalludaikum
President),
021), South Street,
25 536.
214
welfare society
munication letter received
trict Collector, Theni
/Kanimam/2024 dated
ctor, Theni, has grant of
re years.
:.,M.Phil.,
amaniyar Kovil Street,
em District,
36 455.
35 & 94446 54520.



S.No	Details of the Area:				
1	Corner Coordinates	Latitude : 10°01'31.08"N to 10°01'37.17"N Longitude : 77°38'22.55"E to 77°38'27.31"E			
2	Toposheet Number	58 F /12			
3	The altitude of the area	284m (MSL)			
4	Extent	1.60.0Ha			
5	Survey No	1432/3(Part)			
6	Village	Thimmarasanaickanur Bit-2			
7	Taluk	Andipatti			
8	District	Theni			
9	State	Tamil Nadu			



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			# x / a
a.	Classification of the Area	:	Government poramboke land
	(Ryotwari / poramboke /		
	others)		^
b.	Ownership / Occupancy of	:	It is Government land the applicant has
	the Applied area (Surface		obtained tender from the Government Please
	rights)		refer annexure no –I and IA.
c.	Toposheet No. with	:	Topo Sheet No: 58 F /12
	Latitude and	:	Latitude : 10°01'31.08"N to 10°01'37.17"N
	Longitude	:	Longitude: 77°38'22.55"E to 77°38'27.31"E
d.	Existence of Public Road /	:	There is an existing road from the area leads
	Railway line if any nearby the		to Anaikaraipatti - Shelkarpatti village road on
	area and approximate		southeastern side of the area.
	distance		The Nearest Railway line is Madurai to
			Bodinaickkanur line which is about 2.8Km on
			Southeastern side of the area.



SATELLITE IMAGERY OF THE LEASE APPLIED AREA





TOPOGRAPHICAL VIEW OF THE LEASE APPLIED AREA

Fig. Location of the lease Applied Area



4.0	Ge	ology and Mineral Re	ser	ves:
	a.	Topography	:	 The area applied for quarry lease is exhibits almost plain topography covered by rough stone formation. The massive Gneissic Rock formation is noticed right from the surface and sloping towards Southeastern side of the area, the altitude of the area is above 284m (maximum) from MSL. No major river is found nearby the lease applied area. Water table is found at a depth of 60m in summer and 57m 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 Gneissic Rock which contains mostly Quartz and Feldspar with some ferromagnesian minerals. The Gneissic Rock is part of peninsular Gneisses, a high grade metamorphic rock. The strike of the Gneissic Rock formation is N40°E-S40°W with vertical dipping. The general geological succession of the area is given as under.

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				AGE Recent Unconformity Archaean One of the content
				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.

a. Geological Resources

The quarrying is restricted up to a depth of 35m (below ground level) only. availability of resources is given below.

7D 1		3.7	- 4
Tan	ıe	No	- 1

				Table	No-1	
Section	in (m) in (m) in (m)		Depth in (m)	Volume in m ³	Geological Resources of Rough stone in m ³	
	I	10	18	5	900	900
	II	10	18	5	900	900
XY-AB	III	10	18	5	900	900
	IV	57	120	5	34200	34200
	V	57	120	5	34200	34200
	VI	57	120	5	34200	34200
	VII	57	120	5	34200	34200
			Total	139500		
	I	9	119	5	5355	5355
	II	9	119	5	5355	5355
	III	9	119	5	5355	5355
XY-CD	IV	9	119	5	5355	5355
A1-CD	V	9	119	5	5355	5355
	VI	9	119	5	5355	5355
	VII	9	119	5	5355	5355
			Total	-		37485



		Grand	l Total			342645	
			Total		165660		
	VII	75	109	5	40875	40875	
	VI	75	109	5	40875	40875	
AI-Er	V	75	109	5	40875	40875	
XY-EF	IV	75	109	5	40875	40875	
	III	8	18	5	720	720	
	II	8	18	5	720	720	
	I	8	18	5	720	720	13

The Geological Resources of Rough stone

3,42,645m³

b. Already excavated

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

Table No-2

Pit No	length (Max) in(m)	Width (Max) in (m)	Depth (Max) in (m)
II	96	38	15m Below ground level
II	85	70	15m Below ground level

c. Available Mineable Reserve

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

Table No-3

				Table	VO-3	
Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Volume in m³	Mineable Reserves of Rough stone in m ³
	IV	42	93	5	19530	19530
	V	37	83	5	15355	15355
XY-AB	VI	32	73	5	11680	11680
	VII	27	63	5	8505	8505
			Total	55070		
	I	9	102	5	4590	4590
	II	9	92	5	4140	4140
	III	9	82	5	3690	3690
	IV	9	72	5	3240	3240
XY-CD	V	9	62	5	2790	2790
	VI	9	52	5	2340	2340
	VII	9	42	5	1890	1890
			Total	1		22680
	IV	63	81	5	25515	25515
	V	58	71	5	20590	20590
XY-EF	VI	53	61	5	16165	16165
	VII	48	51	5	12240	12240
			Total			74510
		Grand	Total			152260

The Available mineable reserve is computed as 1,52,260m³ of Rough stone upto a depth of 35m (below ground level) only.

Mining: Method of Mining Mode of Working	(4)	 Opencast method of manual method of mining with 5m height, 5m width of the bench. 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)
Method of Mining		 Opencast method of manual method of mining with 5m height, 5m width of the bench. 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
		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
Mode of Working		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
Mode of Working		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
Mode of Working		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
Mode of Working		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
Mode of Working		relaxation to the provisions of the above regulation from the Director of mines safety for which necessary
Mode of Working		from the Director of mines safety for which necessary
Mode of Working		
Mode of Working		provision is available with the regulation 106 (2) (b)
Mode of Working		
Mode of Working		of MMR-1961, under Mine Act-1952.
	•	The rough stone is proposed to quarry 5m bench height,
		5m width with conventional opencast manual mining
		method.
		The Rough stone quarry specifically used only for
		Basement stones and not for any crushing industries.
		The quarry operation involves Manual jackhammer
		drilling, and transportation of Rough building stone to
		the needy Residential & Industrial customers.
		The removed mass is manually dressed into small
		building stones for foundation purpose and then loaded
		manually into tippers for transportation to the needy
		customers.
Proposed bench	2	
height & Width	2.50	5m and bench width of 5m.
Details of	:	There is no overburden anticipated during the entire
Overburden /		Rough Stone quarrying operation. The excavated rough
, Mineral		stone will be manually dressed into small building
Production		stones for foundation purpose.
proposed for the		
h D	etails of everburden / Iineral	eight & Width Petails of : Everburden / Iineral roduction roposed for the



The Yearwise Production and Development Table

				Table	e No -4		-
Year	Section	Bench	Length	Width	Depth	Volume	Mineable Reserves
			in (m)	in (m)	in (m)	in m³	of Rough stone in m
	XY-AB	IV	42	93	5	19530	19530
		I	9	102	5	4590	4590
I	XY-CD	II	9	92	5	4140	4140
		III	5	82	5	2050	2050
			30310				
Π	XY-CD	III	4	82	5	1640	1640
	AI-CD	IV	9	72	5	3240	3240
	XY-EF	IV	63	81	5	25515	25515
			30395				
	XY-EF	V	58	71	5	20590	20590
111	XY-CD	V	9	62	5	2790	2790
III	XY-AB	V	17	83	5	7055	7055
			30435				
	377.40	V	20	83	5	8300	8300
	XY-AB	VI	32	73	5	11680	11680
IV	XY-CD	VI	9	52	5	2340	2340
	XY-EF	VI	27	61	5	8235	8235
			30555				
	XY-EF	VI	26	61	5	7930	7930
	AI-EF	VII	48	51	5	12240	12240
V	XY-CD	VII	9	42	5	1890	1890
	XY-AB	VII	27	63	5	8505	8505
			Tot	al			30565
	111	G	rand Tot	al			152260

The applicant has proposed to carry out 1,52,260m³ of Rough stone upto a depth of 35m (below ground level) for the period of five years.

5.5		Ma use	chineries to	be					
	a.	Dri	lling		٠	Only jack ha	ammer drilling	will be u	sed
	S	.No	Туре	Nos	3	Dia Hole mm	Size Capacity	Make	Motive power
	1 Jack hammer		Jack hammer 1		32	32	1.2m to 6m	Atlas	Compressed
							Copco	air	
		2	Compressor	1			-	Atlas	Diesel Drive
								Capco	

	b.	Loading		Man	ual loading	(considera	ble Rough st				
		o		1	_	•	oe loaded by Hired				
			*	l.	end loader lil						
	c.	Transportation	:	Tippe	er 2Nos (5/10	Ts) capacity.					
5.6		Disposal of	:	There	e is no over	burden anti	icipated during the				
		Overburden		entir	e Rough Ston	e quarrying o	operation.				
5.7		Brief Note on		С	onceptual Mi	ning Plan is	s prepared with an				
		Conceptual Mining		objec	t of five year	s of system	atic development of				
		Plan for the entire		benc	h lay outs,	selection of	ultimate pit limit,				
		lease period		deptl	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,							
				Ųlt	imate Pit dime	ension (M) er Period	nd of Mining plan				
				Pit	Length	Width	Depth(max)				
				No	(max) in (m)	(Avg) in (m)	in(m)				
				I	124	94	35m (below ground level)				
				Ai	fforestation h	as been pro	posed on all along				
				the b	oundary barr	ier by plantir	ng trees.				
		-		A1	l the baselin	ne informatio	on studies like Air				
				Qual	ity monitor	ing, Noise	and Vibration				
				moni	toring, Water	Analysis stu	adies will be carried				
				out e	very year as p	er the MOEI	F norms.				

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6.0	Blasting:		Tre TOR
6.1	Blasting Pattern	1	Not applicable
6.2	Types of Explosives	1,	There is no Blasting proposed for the rough stone operation.
6.3	Measures proposed to minimize ground vibration due to blasting	•	Not applicable
6.4	Storage of Explosives and safety measures to be taken while blasting.	4	Not applicable

7.0	Mine Drainage:		
7.1	Depth of Water table	:	The ground water table is reported as 60m
			below ground level. In the proposed mining
			plan only 35m (below ground level) depth has
			been envisaged as workable depth for safe &
			economic quarrying for the entire lease period.
			Hence the quarrying operation may not affect
			the ground water.
7.2	Arrangement and Places	:	The ground water may not rise immediately in
	where the mine water is		this type of mining. However, the rain water
	finally proposed to be		percolation and collection of water from the
	discharged		seepage shall be less than 300lpm and it shall
			be pumped about periodically by a stand by
			diesel powered Centrifugal pump motivated
			with 7.5H.P.Motor. The quality of water is
			potable and it is not contaminated with any
			hazardous things. Hence, water stored in the
			quarry pit will be pumped into the adjacent
			agricultural fields. Further the water stored in
			the old pit will also be used for plantation
			purposes
-		-	



8.0	Other Permanent Structu	res	
8.1	Habitations / Village	:	There are no habitations within a radius o 300m.
8.2	Power lines (HT/LT)	12	There is no Power lines (HT/LT) within a
0.2	Tower Intes (1117 D1)	•	radius of 50m.
8.3	Water bodies (River, Pond,	:	There is two seasonal odai passing or
	Lake, Odai, Channel etc)		Northeastern and Western side and is 100m
			and 230m away from the area.
8.4	Archeological / Historical	:	There are no Archeological / Historica
	Monuments		Monuments within a radius of 300m.
8.5	Road (NH, SH, Village Road	;	The National Highway (NH-85) Madurai
e	etc)		Bodinaickanur is about 2.3km on Southern
	-		side of the area.
			The State Highway (SH-101) Devathanapatti
			Varusanadu is about 4.8Km on Northwester
			side of the area.
8.6	Places of Worship	:	There are no Places of Worship within a radiu
			of 50m.
8.7	Reserved Forest / Forest /	:	There is no Reserved Forest, Wild Life
	Social Forest / Wild Life		Sanctuary within a radius of 1Km.
	Sanctuary etc.,		
8.8	Any Interstate Border,	:	There are No inter State border within a radiu
	Protected areas under the		of 10kms.
	Wild Life (Protection) Act,		
	1972, Critically Polluted		
	Areas as Identified by		
	Central Pollution Control		¥
	Board and Notified Eco		
	sensitive areas		
8.9	Any Other Structures	:	Nil



Employment Potential & Welfare Measures: 9.0 Employment Potential (Management & Supervisory personal) 9.1 The proposed organization chart **QUARRY OWNER** UNSKILLED/LABOUR SKILLED SEMI-SKILLED Mines Manager / Foreman Driver Mate/Operator/ Musdoor Mechanic Skilled 1 No. Mines Manager 1. 2 No. Foreman / Mate 2 No. Operator 1 No. Mechanic Semi-skilled Driver 2 No. 2. 12Nos Unskilled Labours 3. Total = 20Nos Allowing 10% absentee, the no. of men of roll will be around 18. 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 Packaged drinking water is available from the Drinking Water vendors nearby approved water in T.Sedapatti village which is about 700m Southeastern side of the area. Semi-permanent latrines & urinals shall Sanitary facilities 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.

			1/1/16
С	. First Aid Facility	;	First aid kits are kept in Mines office room, in
			of such eventualities the victim will be given first
			aid immediately at the site and injured person will
		١.	be taken to the hospital. Hospital is available at
			distance of 3.5Km (SW) in Andipatti the competent
			and Statutory foreman/ permit manager will be in
			charge of first aid.
d	. Labour Health	1	As per Mines Rule, Periodic medical examination
			related to occupational health safety will be
			conducted to all the workers in applicant's own
			cost.
е	. Precautionary safety	v m	easures to the Labourers:

Safety provisions like helmet, goggles, safety shoes, Dust mask, Ear muffs etc., have to be provided as per the circulars and amendments made for Mine labours under the guidance of DGMS being a mechanized operation.

Necessary training will be conducted once in a year to all the employees with the help of qualified and experienced officers to train about the safe and systematic quarrying operation.



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100	B			PART - B
10.0 I	Environmental Mar Existing Land	uagen Use	ne:	1. The area is exhibits almost plain
10.1	Pattern	000	•	topography covered by rough stone
				formation.
				2. Quarrying operation is proposed up to a
				depth of 35m (below ground level) for the
				proposed mining plan period.
				3. Fluctuation of Water table in this area is in
				between 60m and 57m 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. Land Use Present during the
				No. (Ha) quarrying period
				1. Quarrying Pit 0.96.0 1.17.0
			П	2. Infrastructure Nil 0.01.0
			į.	3. Roads 0.01.0 0.01.0 4. Green Belt Nil 0.41.0
				5. Unutilized 0.63.0 Nil
100				Total = 1.60.0 1.60.0
10.2	Water Regime		•	-
				60m and presently, in the proposed mining plan
				only 35m (below ground level) depth has been
				envisaged as workable depth for safe & economic
				quarrying for the entire lease period. hence, it
				will not affect the ground water depletion of this
				area.
10.3	Flora and Fauna			Except acacia bushes, no other valuable trees
				are noticed in the applied area. Further, neither
				flora of botanical interest nor fauna of zoological
				interest is noticed in this area.
10.4	Climatic conditions	s	100	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.
				

	1		ASST. DIRECTION & MINUNG,
10.5	Human Settlement	1	The nearest habitations with the population given as under.
			S. Name of the No Village Approximate distance & Direction from lease applied area
			1. Nallakaruppathevan patti 400m - NE 400
			2. T.Sedapatti 700m - SE 450 3. Vegavadiashramam 1.6Km- NW 250
			4. T.Renganavaram 1.8Km – SW 300
10.6	Plan for Air, Dust Suppression Plan for Noise Control		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. Quarrying of Rough Stone will be carried out by drilling and excavation without blasting by using 0.90 Cu.m Excavator and 5/10 (Ts) Trucks, 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. No where the noise level should exceed the permissible limit of 80db during the quarry working hours.
10.8	Environmental Impact Assessment Statement Describing Impact on mining on the next Five years	40	The mining plan proposed is for a small production of Rough stone without involving 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.

			The state of the s	OLOGY			
				ING, TH			
10.9	Proposal for Waste	1	There is no waste anticipated in this rough	DR (G			
	Management		quarry operation.				
10.10	Proposal of	:	In the proposed mining plan 35m (below ground	1			
	Reclamation of Land		level) depth has been envisaged as workable				
	affected during mining		depth for safe & economic mining during the	L			
	activities and at the		lease period. Hence, after quarry reaches				
	end of mining.		ultimate pit limit (for this lease period) of 35m				
			depth, fencing will be constructed around the				
			quarried pits to prevent inherent entry of the				
			public and cattle.				
10.11	Program for	:	The 7.5m and 10m safety distance along the				
	Afforestation		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 4100Sqm area is proposed to use				
			under afforestation by planting 492nos 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.				
0.12	Proposed Financial Estimate / Budget for (EMP) Environment Management						
	A.Fixed Asset Cost:						
	1. Land Cost		Rs. 22,00,000				
		*					
		**	Rs.1,00,000				
	and accessories	**	Rs.1,00,000				
	3. Labour Shed	9	Rs.1,00,000				
	4. Sanitary Facility		13.1,00,000				
	Total=		Rs. 25,00,000/-				
	B.Operational Cost:			Ī			
	1. Machineries	30.0	Rs.30,00,000-				
	2. Fencing cost	**	Rs. 1,50,000				
	Total		Rs.31,50,000/-	II.			

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(A+B+C) CSR Cost(2% of Total Project Cost)	200	Rs. 1,23,000/-		
Total Project Cost	5	Rs. 61,50,000/-		
5. Afforestation Total =	*	Rs. 5,00,000/-		
4. Water sprinkling	*	Rs. 80,000/-		
3. Safety kids	***	Rs. 1,00,000/-		
2. Sanitary Arrangements	33	Rs. 50,000/-		
facility	· (*)	Rs. 50,000/-		
1. Drinking water	·	Rs.1,00,000/-		
Expenditure				
	*	Ground vibration test	=	Rs. 20,000/-
		Noise Monitoring	=	
		Air Quality Sampling Water Quality Sampling	_	Rs. 40,000/- Rs. 40,000/-
C.EMP Cost:		Budget Provision for the	entire	quarrying personal on

11.0 Mine Closure Plan:

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



(i) Permission will be obtained from the District Mines Office to extra 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

Place : Salem

Date : 11.12.2024

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

Qualified Person

This Mining Plan is approved based on incorporation of the particulars specified under guidelines given by the commissioner of Geology and Mining (I/c) Roc. No. 3868/LC/2012 Dated 19-11-2012

Assistant Director Geology and Mining Theni This Mining Plan is approved subjeto the condition / Stipulated ar indicated in the Mining Plan Approvation Roc. No: 100 | Mining Plan Approvation | Dated: 02-9-2024

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ASST. DIRECTOR
GEOLOGY
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அனுப்புநர் மாவட்ட ஆட்சித்தலைவர், தேனி. பெறுநர்: திருமதி.ம.பரிமளா,தலைவி, தி/ள்.வண்ணாத்திபாறை காளீஸ்வரி கல்லுடைக்கும் மகளிர் சங்கம், (பதிவு எண்.61/2021), தெற்கு தெரு, இராஜகோபாலன்பட்டி, ஆண்டிபட்டி வட்டம், தேனி மாவட்டம்.625536..

ANDEXUME

ASST. DIRECTOR
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ந.க.எண்.104/கனிமம்/2024, நாள்:09.12.2024.

பொருள்:

கனிமங்களும், குவாரிகளும் - சிறுவகைக் கனிமம் - உடைகல் - தேனி மாவட்டம் - ஆண்டிபட்டி வட்டம் - திம்மரசநாயக்கனூர் பிட்-2 கிராமம் - அரசு புறம்போக்கு புல எண்.1432/3 (பகுதி) - விஸ்தீரணம் 1.60.0 ஹெக்டேர் பரப்பில் தி/ன்.வண்ணாத்திபாறை காளீஸ்வரி கல்லுடைக்கும் மசுளிர் சங்கம் விண்ணப்பித்தது - முன்னுரிமை அடிப்படையில் நேரடிகற்குவாரி குத்தகை உரிமம் வழங்க சிறப்பு குழுவால் தேர்வு செய்யப்பட்டது - குத்தகை தொகையினை உறுதி செய்து - முதல் தவணை குத்தகை தொகையை செலுத்தப்பட்டது - ஏற்பளிக்கப்பட்ட சுரங்க திட்டம் மற்றும் சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் ஒப்புதல் பெற்று சமர்பிக்க கோருதல் - தொடர்பாக.

பரர்வை:

- 1. வருவாய் கோட்டாட்சியர், பெரியகுளம் கடிதம் ந.க.எண்.6973/2023/அ6, நாள்:17.11.2023..
- 2. **மாவட்ட வன அலுவலர், தேனி, தேனி வனக்கோட்டம்,** தேனி. கடிதம் எண்.12122/2023/டி, நாள்:05.01.2024.
- தேனி மாவட்ட அரசிதழ் சிறப்பு வெளியீடு எண்.3, நாள்:19.01.2024.
- திருமதி.ம.பரிமளா,தலைவி, தி/ள்.வண்ணாத்திபாறை காளீஸ்வரி கல்லுடைக்கும் மகளிர் சங்கம், (பதிவு எண்.61/2021), தெற்கு தெரு, இராஐகோபாலன்பட்டி, ஆண்டிபட்டி வட்டம், தேனி மாவட்டம். விண்ணப்பம் நாள்:07.02.2024.
- 5. சிறப்புக்குழு (Special Committee) கூட்ட அறிக்கை நாள்.12.07.2024.
- 6. குறிப்பாணை ந.க.எண்.104/களிமம்/2024, நாள்:05.09.2024.

பார்வை 1 மற்றும் 2-ல் காணும் பரிந்துரை அறிக்கையின்படி, பார்வை 3-ல் காணும் தேனி மாவட்ட அரசிதழ் சிறப்பு வெளியீடு எண்.3, நாள்:19.01.2024-ல் தேனி மாவட்டம், ஆண்டிபட்டி வட்டம், திம்மரசநாயக்கனூர் பிட்-2

MUNABORIO

கிராமம், அரசு புறம்போக்கு புல எண்.1432/3 (பகுதி) விஸ்தீரணம் 1.60.0 மொல்கியாட்டு பரப்பில் மகளிர் சங்கங்களுக்கு நேரடி குவாரி குத்தகை உரிமம் வழங்க விண்ணப்பங்கள் மாலி வரவேற்கப்பட்டது. அதனை தொடர்ந்து, பார்வை 4-ல் காணும் தி/ன்.வண்ணாத்தியாறை காளீஸ்வரி கல்லுடைக்கும் மகளிர் சங்கமானது தேனி மாவட்டம், ஆண்டிபட்டி வட்டம், திம்மரசநாயக்களூர் பிட்-2 கிராமம், அரசு புறம்போக்கு புல எண்.1432/3 (பகுதி) விஸ்தீரணம் 1.60.0 ஹெக்டேர் பரப்பு கல்குவாரிக்கு விண்ணப்பம் செய்தது.

பார்வை 5-ல் காணும், மாவட்ட ஆட்சித்தலைவர் அவர்களின் தலைமையில் ஆண்டிபட்டி வட்டம். தேனி மாவட்டம், அமைக்கப்பட்ட சிறப்புக்குழுவான<u>து</u>, அரசு புறம்போக்கு புல எண்.1432/3 (பகுதி) திம்மரசநாயக்களூர் பிட்-2 கிராமம், குவாரிப்பணி செய்ய ஹெக்டேர் பாப்பில் உடைகல் விஸ்கீரணம் 1.60.0 தி/ன்.வண்ணாத்திபாறை காளீஸ்வரி கல்லுடைக்கும் மகளிர் சங்கத்தினருக்கு 5 (ஐந்து) ஆண்டுகளுக்கு கற்குவாரி குத்தகை உரிமம் வழங்க பரிந்துரை செய்யப்பட்டது.

அதனை. தொடர்ந்து, பார்வை 6-ல் காணும் குறிப்பாணையில், தமிழ்நாடு சிறுகனிம் சலுகை விதிகள்,1959, விதி எண்.8 (10-A) (C)-ன்படி 50% குத்தகை தொகை ரூ.22,00,000/-ஐ நாள்கு சம தவணைகளில் முதல் தவணை குத்தகைத் தொகை ரூ.5,50,000/-ஐ செலுத்தி அசல் சலானை சமர்ப்பிக்குமாறு கேட்டுக்கொள்ளப்பட்டது. அதன் பின்னர், மேற்படி சங்கத்தினர் முதல் தவணைத் தொகை ரூ.5,50,000/-யினை சலான் எண்.20240916011424, நாள்:20.09.2024-ன்படி செலுத்தி சமர்ப்பித்துள்ளனர்.

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எனவே, வருவாய் கோட்டாட்சியர், பெரியகுளம், மாவட்ட வன அலுவலர், தேனி மற்றும் சிறப்பு குழுவின் பரிந்துரை அறிக்கையின் அடிப்படையில், விண்ணப்பதாரர் தி/ன்.வண்ணாத்தியாறை காளீஸ்வரி கல்லுடைக்கும் மகளிர் சங்கத்தினருக்கு தேனி மாவட்டம், ஆண்டிபட்டி வட்டம், திம்மரசநாயக்கனூர் பிட்-2 கிராமம், அரசு புறம்போக்கு பூல எண்.1432/3 (பகுதி) விஸ்தீரணம் 1.60.0 ஹெக்டேர் சாதாரண உடைகற்கள் வெட்டியெடுத்து குவாரிப்பணி செய்ய தமிழ்நாடு சிறுகனிம் சலுகை விதிகள் 1959-ம் விதி 8 (10-A) (b) (iii)-ன்படி 5 (ஐந்து) ஆண்டுகளுக்கு கற்குவாரி உரிமம் வழங்குவதற்குரிய தகுதியான நிலப்பரப்பாக கருதி குவாரி உரிமம் வழங்க ஏதுவாக 1959-ம் வருடத்திய தமிழ்நாடு சிறுகனிம் விதிகள், விதி எண்.41-ன்படி ஏற்பளிக்கப்பட்ட சுரங்கத் திட்டத்தினை 90 தினங்களுக்குள்ளும் அதனை தொடர்ந்து, 1959-ம் வருடத்திய தமிழ்நாடு சிறுகனிம் விதிகள், விதி எண்.42-ன்படி மாநில குற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் இசைவினையும் பெற்று சமர்பிக்க வேண்டும்.

OLAN AP

ASST. DIRECTOR

நிபந்தனைகள்:

- நனைகள்: அருகிலுள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டரும், அரசு புறம்போக்கு நிலங்களுக்க 10 மீட்டரும் பாதுகாப்பு இடைவெளி விட்டு குவாரிப் பணி மேற்கொள்ள வேண்டும்.
- அருகிலுள்ள பட்டாதாரர்களுக்கு எவ்வித இடையூறுமின்றி / அருகிலுள்ள பட்டா மற்றும் அரசு புலங்களில் எவ்வித ஆக்கிரமிப்பும் இன்றி குவாரிப்பணி மேற்கொள்ள வேண்டும்.
- கற்குவாரி குத்தகை உரிமம் பெறுவதற்கு முன்பாக ஆணையர், புவியியல் மற்றும் சுரங்கத்துறை, சென்னை அவர்களின் கடிதம் ந.க.எண்.2921/எம்.எம்.4/2016, நாள்:09.03.2021-ல் தெரிவிக்கப்பட்டுள்ளவாறு குத்தகைதாரர் குவாரிபணி தொடங்குவதற்கு முன்னர் உரிமம் வழங்கப்பட்ட எல்லைகளை DGPS முறையில் அளவீடு செய்து குறுந்தட்டில் பதிவு செய்து அறிக்கையாக சமர்ப்பிக்க வேண்டும்.

ஒம். (XXXXXXXXXXXXX) மாவட்ட ஆட்சித்தலைவர், தேனி.

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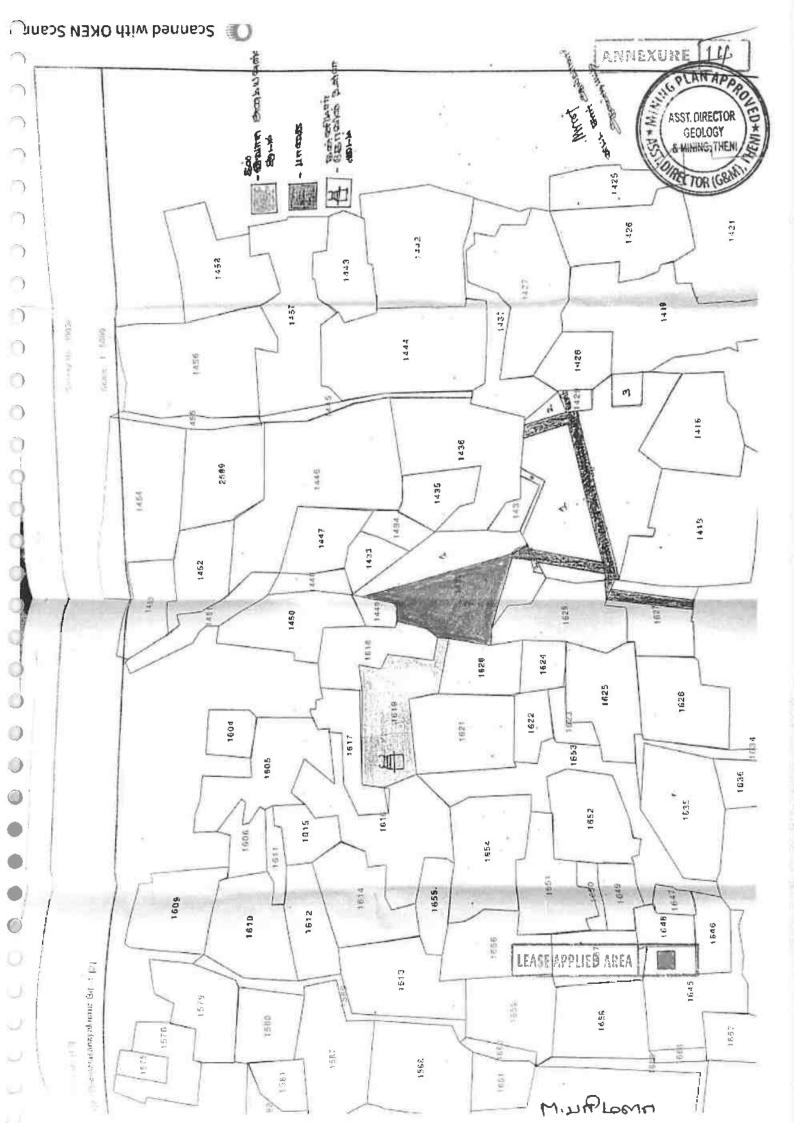
<u>/உ.ந.உ.ப./</u>

மாவட்ட ஆட்சித்தலைவருக்காக, சேனி.

09/12/2024

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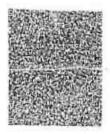
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பதிவேட்டு என்/ Enrolment No.: 2193/12211/90556

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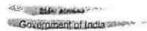


உங்கள் ஆதார் எண் / Your Aadhaar No. :

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எனது ஆதார், எனது அடையாளம்







பரிமன் மகேத்திரன் Parimale Mahendran பிறத்த நான்/DOB: 27/04/1990 Com FEMALE

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8.5.5 (Art.)

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- அர்பு அர்பு பர்வத்திற்கான சான்று நடியுறின்றுக்கு அல்ல
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- இது எலக்ட்ராளிக் செயல்முறை மூலம் தயாரிக்கப்பட்ட கடித்வாகும்.

INFORMATION

- Addhaar is a proof of identity, not of citizenship.
- a Verify identity using Secure QR Code/ Offline XML/ Critice Authentication.
- This is electronically generated letter.
 - இசம் பெடு முன்னத்திரை சேஷ்தோர்ளானுர்
 - பல்வேறு அரசு மற்றும் அரசு சாரா சேவைகள்ள என்றில் பேற ஆதார் உதவுகிறது
 - த உங்கள் மேசுபைல் கண் மற்றும் மின்னஞ்சல் ஐடியை ஆதாநில் புதுப்**பிக்கவு**ம்
 - த சட்டும் செய்வியை படன்படுத்தி உங்கள் ஸ்மார்ட் போளின் ஆதாரை எடுத்துச் செல்லுங்கள
 - Azdhezr is valid throughout the country.
 - Aadhaar helps you avail various Government. and non-Government services easily.
 - Keep your mobile number & email IO updated in Aadhaar.
 - Carry Aadhaar in your smart phone -- use mAadhaar App.



M. LA LOMA

CHETTINAD CEMENT CORPORATION

(Regd. Office: RANI SEETHAI HALL BUILDING IV & V FLOORS, 603, ANNA SALAI, MADRAS-500) WORKS OFFICE: PULIYUR.

21144 PHONE 22744

PHONE 22744 KARUR 21745

GRAM "CEMENT" Pultyur C.F.

Telex: 0458-215. STD Code; 04324

0

All Con-Kumararaja PutiyUR CEMENT (Karur Talu

ANNEXURE WILL

LTD.,

22" September, 1987.

ASST. DIRECTOR

den GEDLOGY

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

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.
	any one can give been large any any
Total.	- 2,750 T
	100 AND THE REAL PROPERTY AND THE REAL

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.

M. WALLOMO



Faculty of Science

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

Given under the seal of the University.

Annamalainagar M. U. D. Doro

A. Chambookho Vico. Chancoller.

Ath December 1976 .

THENI DISTRICT - 625 536 TOPO SHEET NO DISTRICT : THENI. PREPARED BY APPLICANT: PLATE NO: EXTENT S.F.NO 77°38'27.31"E Palk Orattanad RAMANATHAPURAM Gulf of Mannar Pattu Devipatinam antangi • laiyanku Manamadura SIVAGANGA TRUCHCHIRAPPA Sattankulam Kulasekarapattanam Sayalkud Kayalpattinam Thruchchendur ariyapatt Sanarpatt Tisalyanvila Radhapuram /IRUDUNAGAR# DIND DINDIG Oddanchatram N... 17. 10.0 Palanif Charaptiran Uthamapa Kodaikkana Periyakulam Z H Cambam Kalakkac Ambasamur ■ Udavaq Munda BATHANAMIFITTA Anaimaia Anai Mudi PAINAVU DORKI Pon Mudi Pirmed Munnar Sabarimala ottarakara COMBATORE Kovalan KOTTAYAM VANANTHAPU Malampuzha Kaladi PALAKK Vaikar RISSUR KOLLAR RAINE 3.SS 77°38'22 M. Fry POWL



DATE OF SURVEY: 10.12.2024

CALLUDAIKKUM MAGALIR SANGAM. SOUTH STREET, RAJAGOPALANPATTI I'VL VANNATHIPAKAI KALISHWAKI TMT M PARIMALA (PRESIDENT) (REGISTER NO.61/2021), ANDIPATHTALUK

QUARRY LEASE APPLIED AREA:

: 1432/3(PART). : 1.60.0Ha,

VILLAGE: THIMMARASANAICKANUR BIT-2, TALUK : ANDIPATTI,

INDEX

Q. L. APPLIED AREA:

: 58 F / 12

LATITUDE :10°01'31.08"N to 10°01'37.17"N

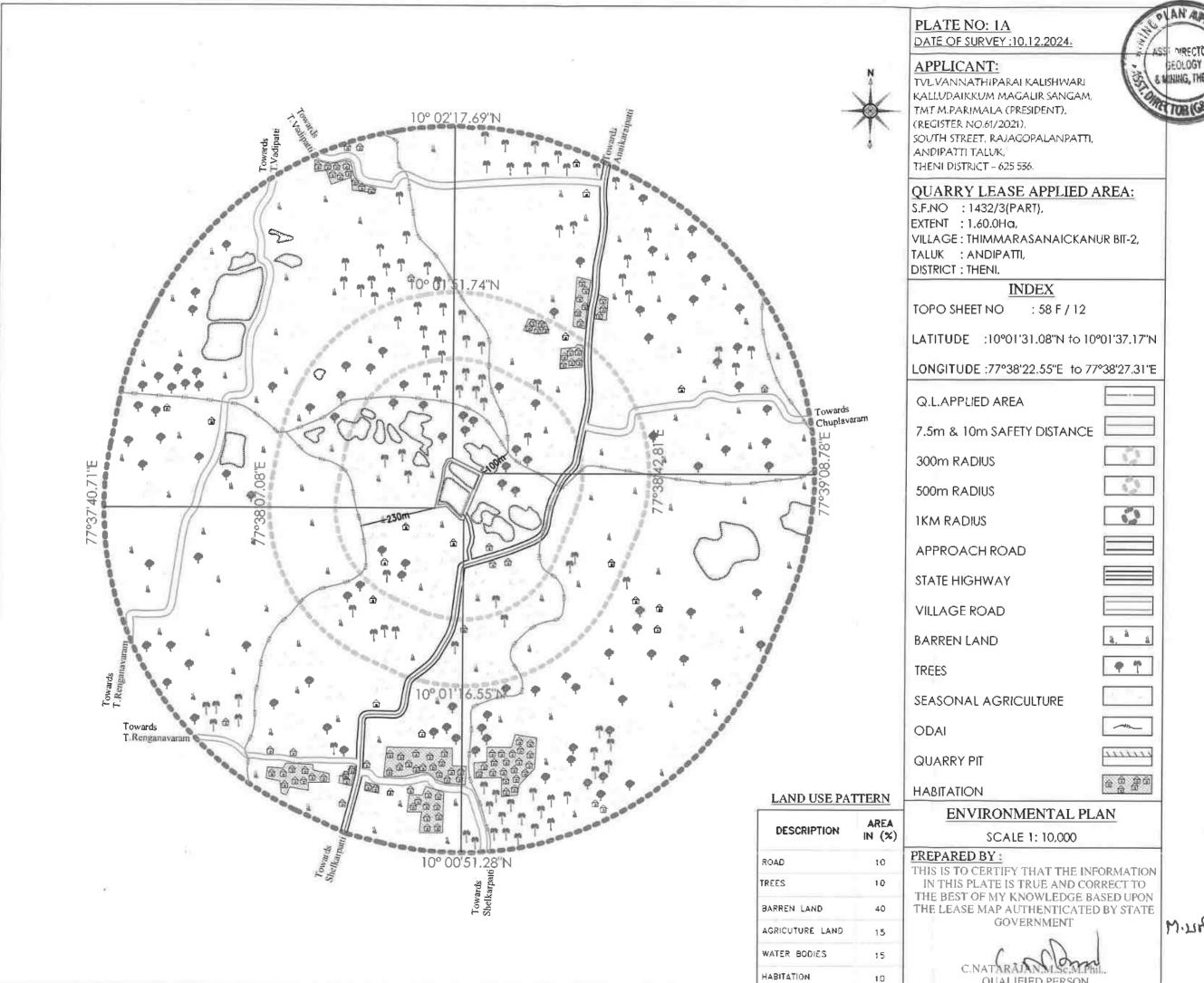
LONGITUDE:77°38'22.55"E to 77°38'27.31"E

LOCATION PLAN

NOT TO SCALE

THIS IS TO CERTIFY TH IN THIS PLATE IS TR THE BEST OF MY KN THE LEASE MAP AU 200

ANAPA GEOLOGY MINING, THE QUALIFIE CNATARAJA



MUND BULL

QUALIFIED PERSON

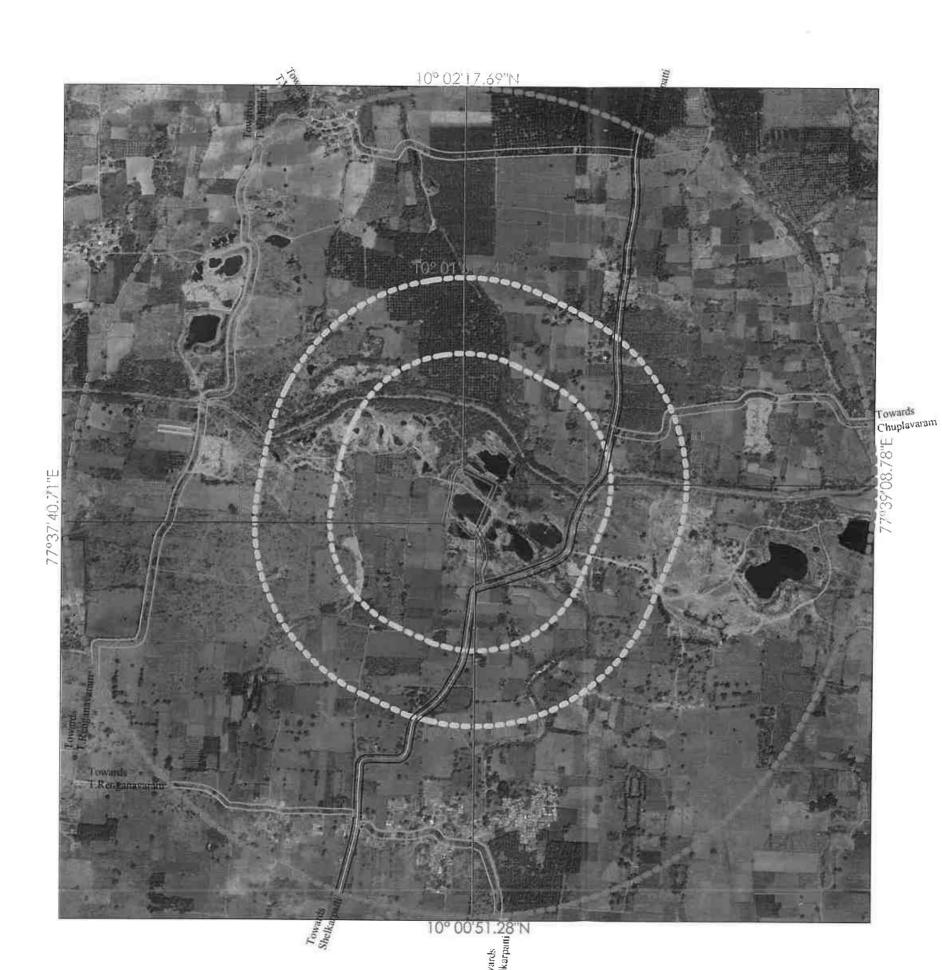




PLATE NO: 1B
DATE OF SURVEY: 10.12.2024

APPLICANT:

TVL VANNATHIPARAI KALISHWARI KALLUDAIKKUM MAGALIR SANGAM, TMTIMIPARIMALA (PRESIDENT), (REGISTER NO.61/2021), SOUTH STREET, RAJAGOPALANPATTI, ANDIPATTI TALUK, THENI DISTRICT - 625 536.

QUARRY LEASE APPLIED AREA:

S.F.NO : 1432/3(PART), EXTENT : 1.60.0Ha,

VILLAGE: THIMMARASANAICKANUR BIT-2,

TALUK : ANDIPATTI, DISTRICT : THENI.

INDEX

TOPO SHEET NO : 58 F / 12

LATITUDE :10°01'31.08"N to 10°01'37.17"N

LONGITUDE :77°38'22.55"E to 77°38'27.31"E

7.5m & 10m SAFETY DISTANCE

300m RADIUS

. 8.0

500M RADIUS



APPROACH ROAD

VILLAGE ROAD

STATE HIGHWAY



TEBELLE IVALIDERT IV

SCALE 1: 10,000

PREPARED BY:

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

QUALIFIED PERSON

PLATE NO-I C **DATE OF SURVEY: 10.12.2024**

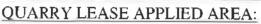


APPLICANT:

TVL.VANNATHIPARAI KALISHWARI KALLUDAIKKUM MAGALIR SANGAM, TMT.M.PARIMALA (PRESIDENT), (REGISTER NO.61/2021). SOUTH STREET, RAJAGOPALANPATTI,

ANDIPATTI TALUK,

THENI DISTRICT - 625 536.



S.F.NO : 1432/3(PART), EXTENT : 1.60.0Ha,

VILLAGE: THIMMARASANAICKANUR BIT-2,

TALUK : ANDIPAΠΙ,

DISTRICT: THENI.

INDEX

TOPO SHEET NO : 58 F / 12

LATITUDE :10°01'31.08"N to 10°01'37.17"N

LONGITUDE:77°38'22.55"E to 77°38'27.31"E

Q.L.APPLIED AREA

10KM RADIUS



TOPO SKETCH OF QUARRY LEASE

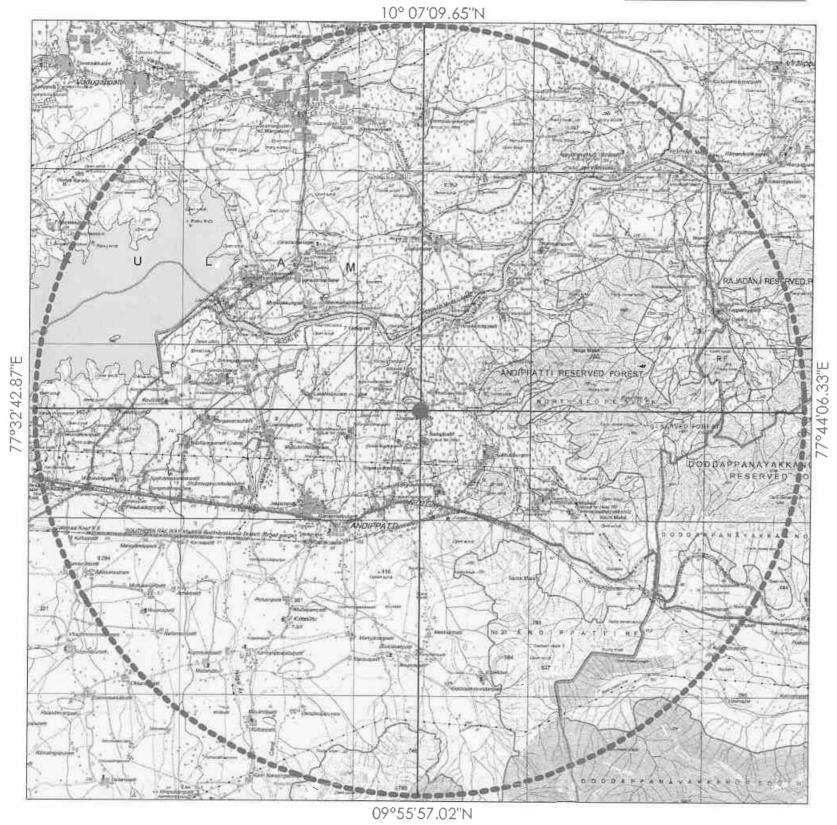
APPLIED AREA FOR

10Km RADIUS

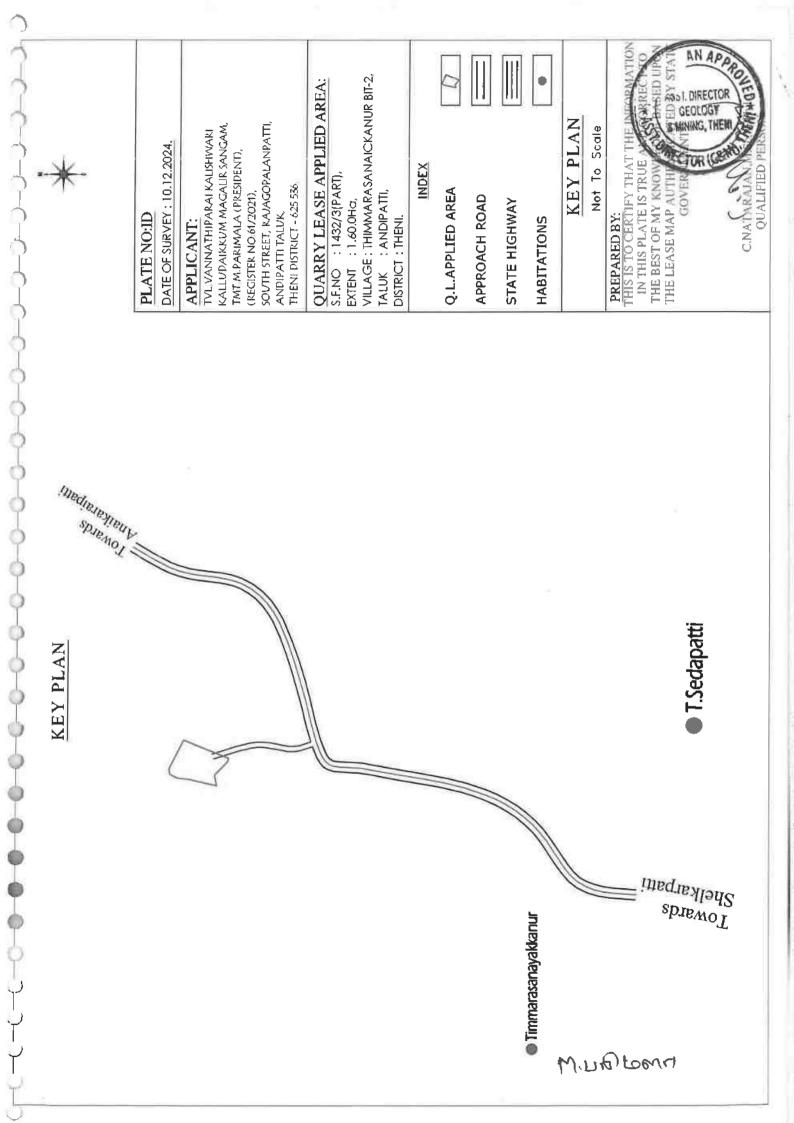
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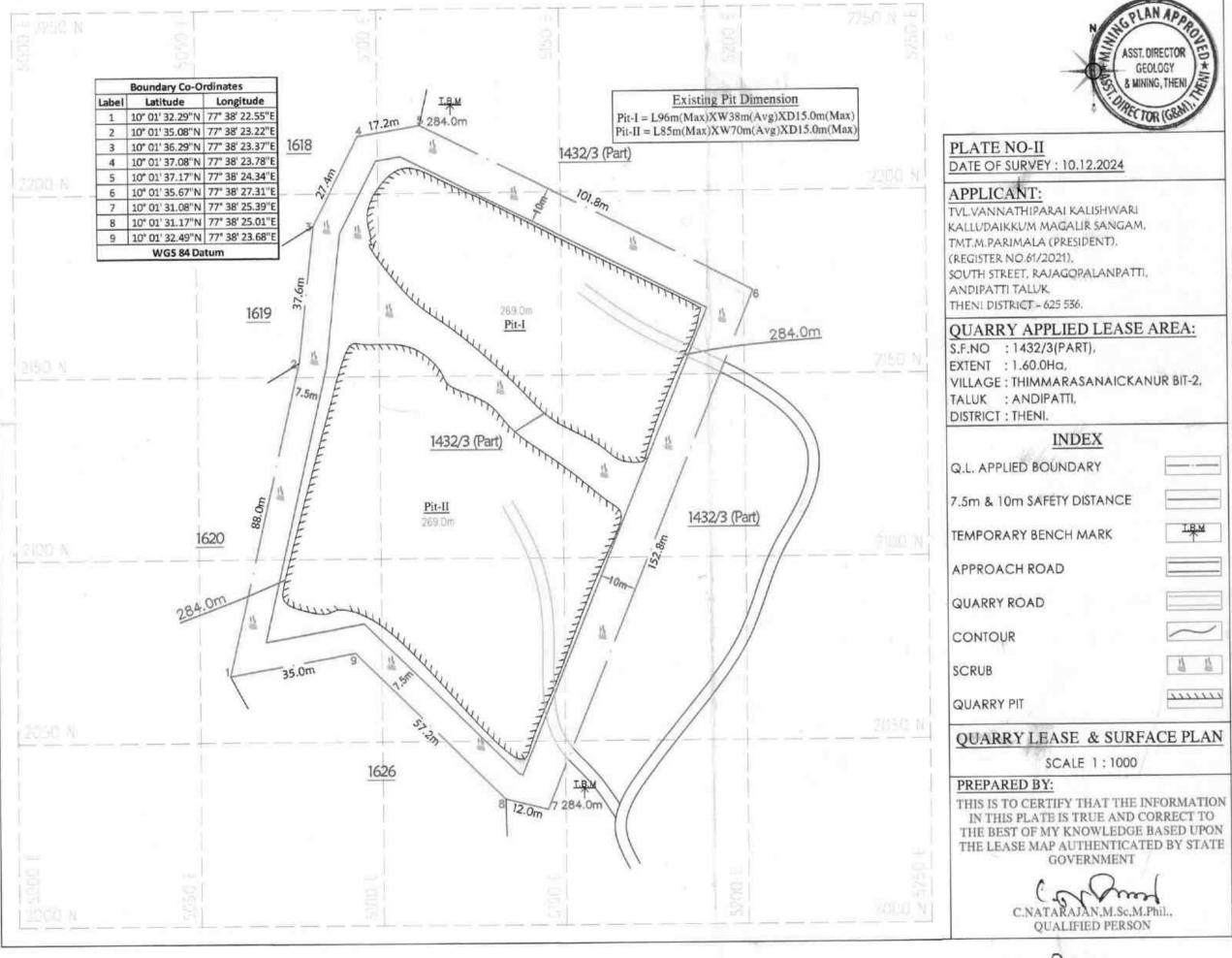
THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT

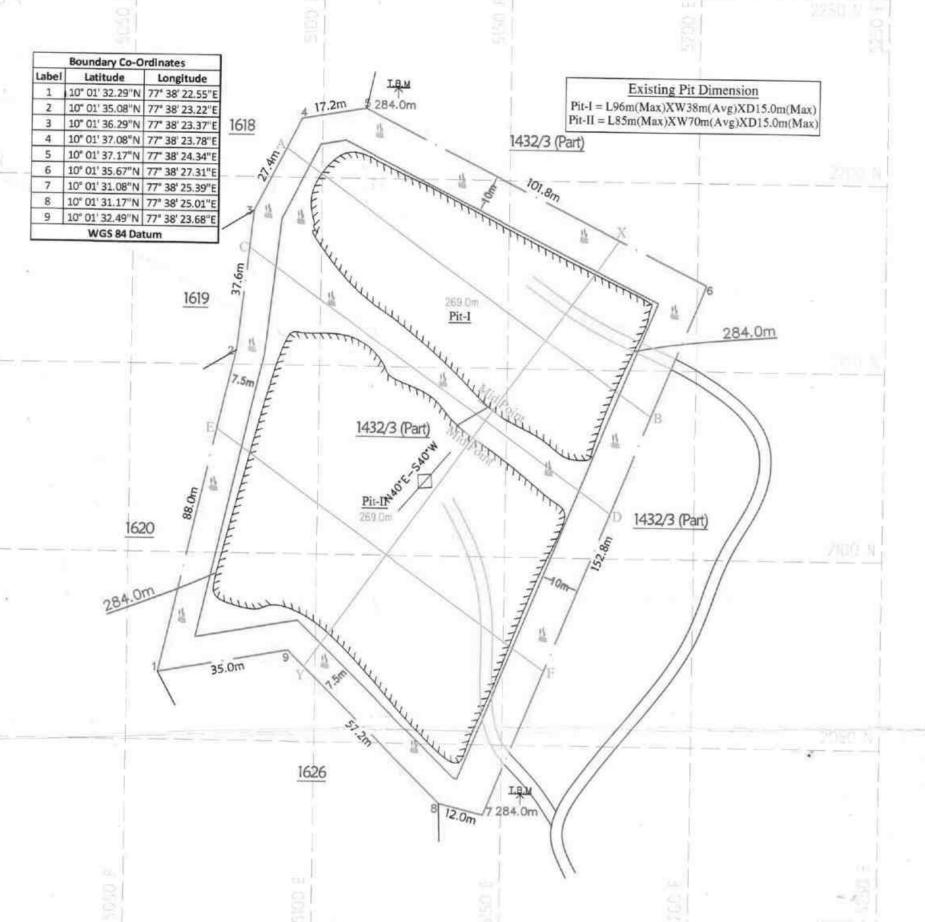
QUALIFIED PERSON



M. NB GEMI









		Ge	ological R	esources	Seattle.	
section	Bench	length in (m)	Width in (m)	Depth in (m)	Volume m3	Geological Resources of Rough Stone in m3
,	1	10	18	5	900	900
	Н	10	18	5	900	900
	III	10	18	5	900	900
XY-AB	IV	57	120	5	34200	34200
	V	57	120	5	34200	34200
1	VI	57	120	5	34200	34200
	VII	57	120	5	34200	34200
			Total			139500
	11	9	119	5	5355	5355
	11	9	119	5	5355	5355
L	111	9	119	5	5355	5355
XY-CD -	IV	9	119	5	5355	5355
.,	V	9	119	5	5355	5355
	VI	9	119	5	5355	5355
	VII	9	119	5	5355	5355
			Total			37485
	1	8	18	5	720	720
	11	8	18	5	720	720
	111	8	18	5	720	720
(Y-EF	IV	75	109	5	40875	40875
M-Er	٧	75	109	5	40875	40875
	VI	75	109	5	40875	40875
	VII	75	109	5	40875	40875
			Total			165660
		Grand '	Total			342645

	K.				SE	CTIO	N A	LON	G X	-Y					12					S	ECT	ION	ALO	NG A	A-B			
	-10m- -10m- -10m-				M	9m	(+ 1) + 1	int						-8m-+	279 Om 274 Om	279 Om - 274 Om -	A OLB -8m- +											-10m- +
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n _	+	+	+	40	+	+	9m	4	+	4	+				20.	-	_			109m		-301		26	-	-50
										- 11			249.0m	249.0m -	*	+	+	100	+	*	+	4	+	+	+ 1	249

PLATE NO-III

DATE OF SURVEY: 10.12.2024

APPLICANT:

TVL.VANNATHIPARAI KALISHWARI KALLUDAIKKUM MAGALIR SANGAM, TMT.M.PARIMALA (PRESIDENT). (REGISTER NO.61/2021), SOUTH STREET, RAJAGOPALANPATTI, ANDIPATTI TALUK, THEN! DISTRICT - 625 536.

QUARRY APPLIED LEASE AREA:

S.F.NO : 1432/3(PART),

EXTENT : 1.60.0Ha,

VILLAGE: THIMMARASANAICKANUR BIT-2,

TALUK : ANDIPATTI,

DISTRICT : THENI.

INDEX Q.L. APPLIED BOUNDARY 7.5m & 10m SAFETY DISTANCE TEMPORARY BENCH MARK

APPROACH ROAD

QUARRY ROAD

CONTOUR SCRUB

111111

 $+ + \mp$

QUARRY PIT

ROUGH STONE

STRIKE & DIP

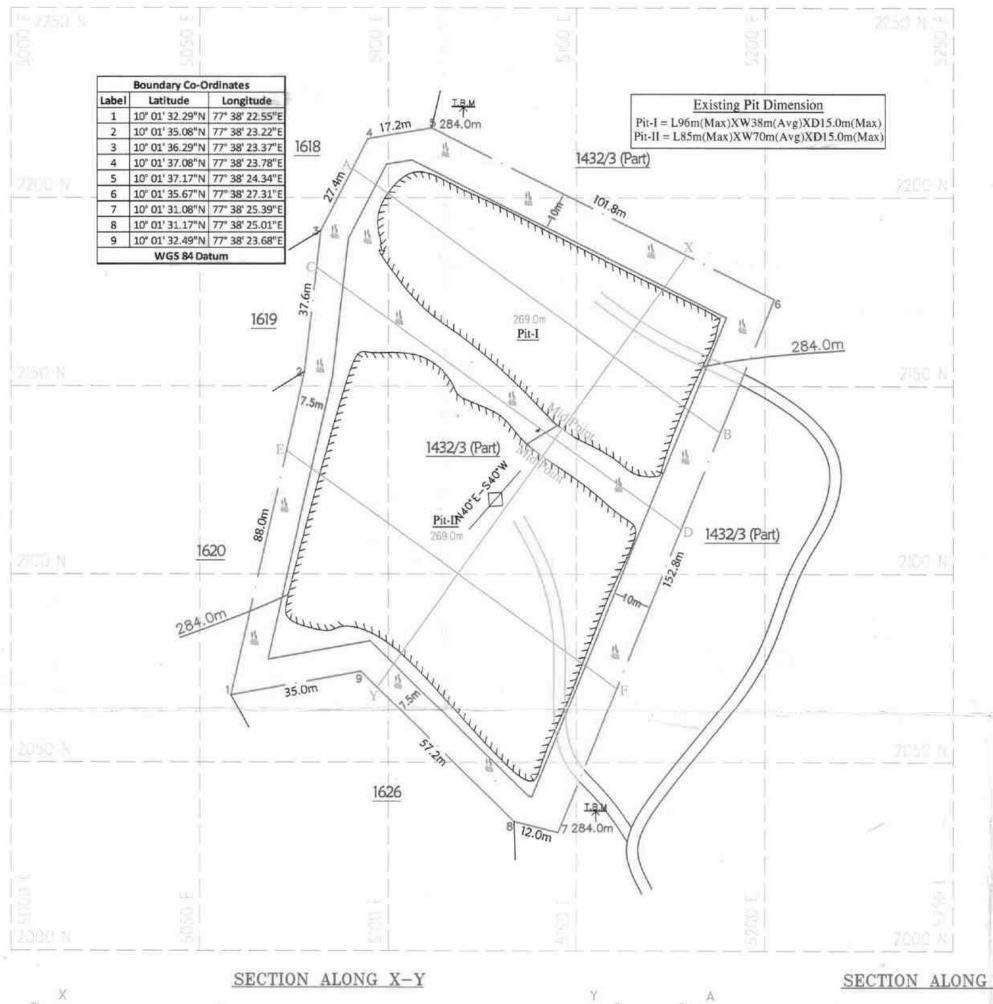
TOPOGRAPHY, GEOLOGICAL PLAN & SECTIONS

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

PREPARED BY:

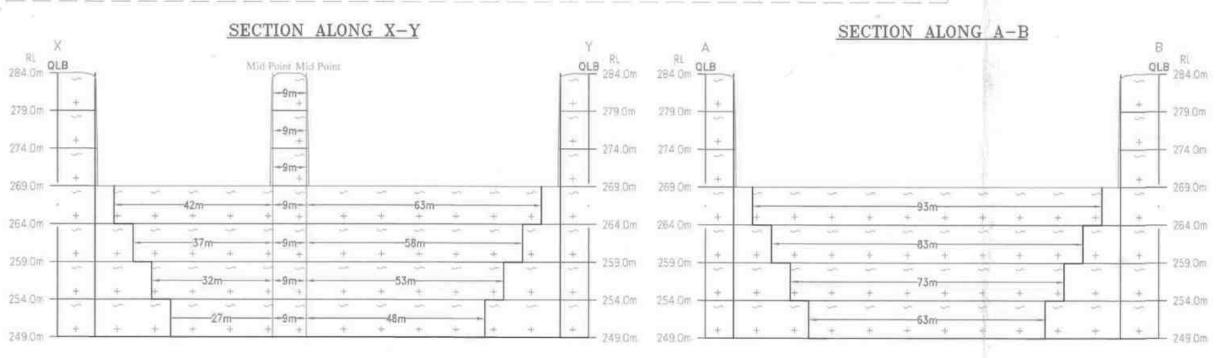
THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT







		N	lineable Re	eserves		
section	Bench	length in (m)	Width in (m)	Depth in (m)	Volume m3	Mineable Reserves Rough Stone in m3
	IV	42	93	5	19530	19530
	V	37	83	5	15355	15355
XY-AB	VI	32	73	5	11680	11680
	VII	27	63	5	8505	8505
		-	Total			55070
	1	9	102	5	4590	4590
	ec. II	9	92	5	4140	4140
	_111	9	82	5	3690	3690
XY-CD	IV	9	72	5	3240	3240
A1-CD	V	9	62	5	2790	2790
	VI	9	52	5	2340	2340
	VII	9	42	5	1890	1890
			Total			22680
	IV	63	81	5	25515	25515
*	V	58	71	5	20590	20590
XY-EF	VI	53	61	5	16165	16165
	VII	48	51	5	12240	12240
			Total			74510
		Grand	Total			152260



				S	ECT	ION	ALO	NG (C-D						Г			SEC	TIO	N AL	ONG	E-1	F			
RI QI	В											C	PLB RL 284.0m	Rt 284 Dm	LB										Q	LB RL 284 On
	100	200	97	30	95	100	02m			1,44	100	100			-										-	240.50
.Om -	+	+	+	+	47	+	+	+	+	_ +	+	+	279.0m	279 Dm -	+										+	200.0
OIII	-	10		-	-	10	02	9	**	9	-	-	278,030	57.9:081.5		1									100	- 279.Dr
	+	-	+	+	+	+	9201	+	14	+	+	+	- may w	0000	+										+	ratings
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	+	141	+	+	+	+	82m +	14	+	+	+	+			+										=	
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Om _	+	#	+	+	+	+	42m +	+	+	+	+	à	249.0m	249.0m -	+	+	+	+	+0	-51m	+	9	+	+	-1:	249.01

PLATE NO-IV

DATE OF SURVEY: 10.12.2024

APPLICANT:

TVL.VANNATHIPARAI KALISHWARI KALLUDAIKKUM MAGALIR SANGAM, TMT.M.PARIMALA (PRESIDENT), (REGISTER NO.61/2021), SOUTH STREET, RAJAGOPALANPATTI, ANDIPATTI TALUK.

THENI DISTRICT - 625 536.

QUARRY APPLIED LEASE AREA:

S.F.NO : 1432/3(PART),

EXTENT : 1.60.0Ha,

VILLAGE: THIMMARASANAICKANUR BIT-2,

TALUK : ANDIPATTI,

DISTRICT: THENI.

INDEX

Q.L. APPLIED BOUNDARY

7.5m & 10m SAFETY DISTANCE

TEMPORARY BENCH MARK

APPROACH ROAD

QUARRY ROAD

CONTOUR

SCRUB

QUARRY PIT

ROUGH STONE

STRIKE & DIP

MINEABLE PLAN & SECTIONS

1111111

+ + +

N

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

PREPARED BY:

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



M. Hyloma



1432/3 (Part)

284.0m

Latitude

WGS 84 Datum

1619

Pit4

1432/3 (Part)



			Yearwis	e Product	on		Yearwise
Year	section	Bench	length in (m)	Width in (m)	Depth in (m)	Volume m3	Production of Rough Stone in m3
	XY-AB	IV	42	93	5	19530	19530
	AI-AU	1	9	102	5	4590	4590
1	XY-CD	11	9	92	5	4140	4140
4.	AT CO	III	5	82	5	2050	2050
				otal	***************************************		30310
		101	4	82	5	1640	1640
	XY-CD	IV	9	72	5	3240	3240
11	XY-EF	IV	63	81	5	25515	25515
	X1-EF	14		otal			30395
	XY-EF	V	58	71	5	20590	20590
	XY-CD	v	9	62	5	2790	2790
111	XY-AB	v	17	83	5	7055	7055
	AT-AD		1	otal			30435
	_	V	20	83	5	8300	8300
	XY-AB	VI	32	73	5	11680	11680
IV	XY-CD	VI	9	52	5	2340	2340
10	XY-EF	VI	27	61	5	8235	8235
	X1-EF	V.1		otal			30555
-	- 1	VI	26	61	5	7930	7930
	XY-EF	VII	48	51	5	12240	12240
V	VV CD	VII	9	42	5	1890	1890
V	XY-CD	VII	27	63	5	8505	8505
	XY-AB	VII		Total			30565
-			Grand To				152260

1st yr Proposed area to be Quarried 2nd yr Proposed area to be Quarried 3rd yr Proposed area to be Quarried 4th yr Proposed area to be Quarried 5th yr Proposed area to be Quarried Proposed area to be Planted - &

VILLAGE: THIMMARASANAICKANUR BIT-2. TALUK : ANDIPATTI,

DISTRICT : THENI.



Q.L. APPLIED BOUNDARY

7.5m & 10m SAFETY DISTANCE

TEMPORARY BENCH MARK

APPROACH ROAD

ROUGH STONE

YEARWISE DEVELOPMENT & PRODUCTION PLAN & SECTIONS

11111

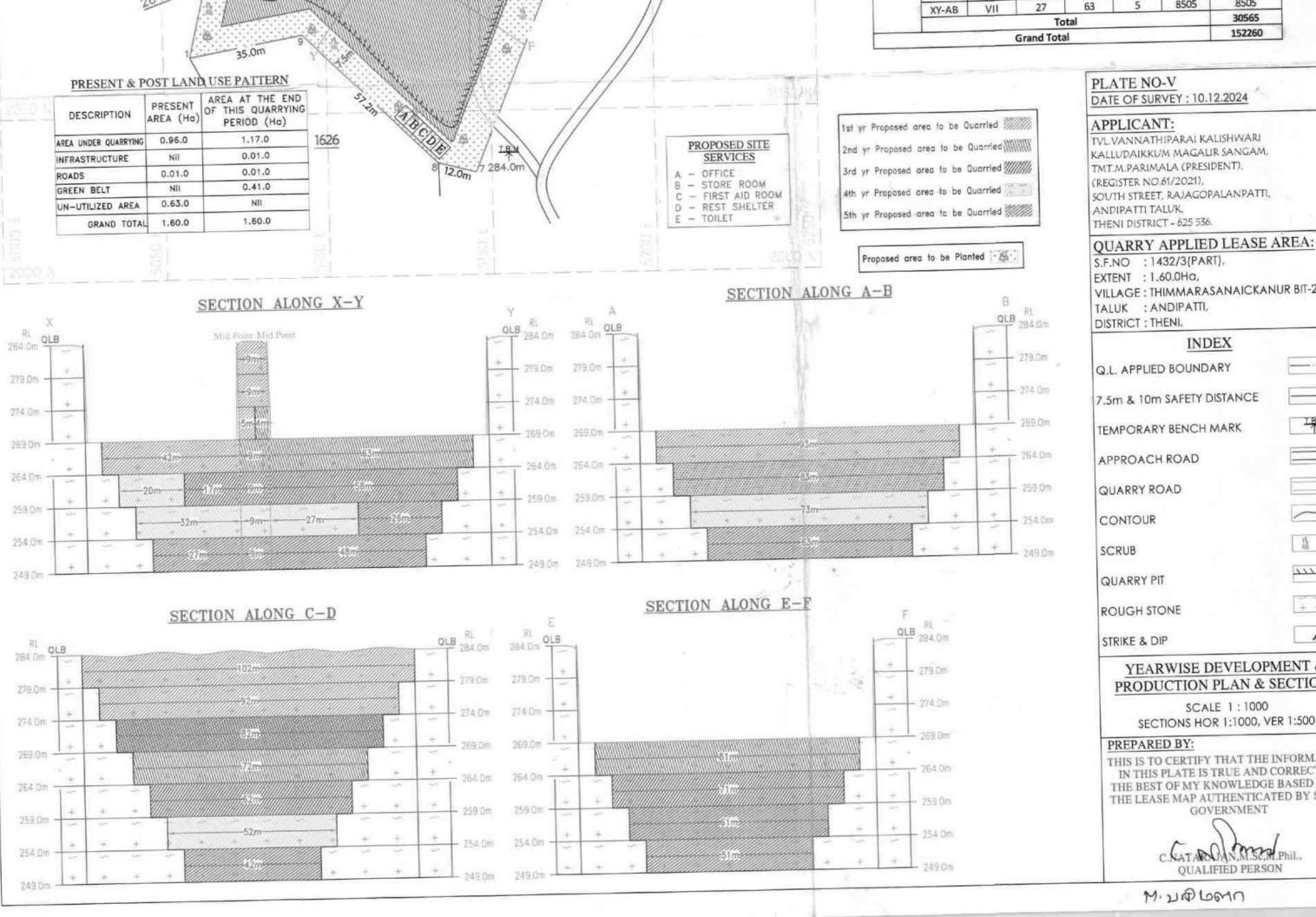
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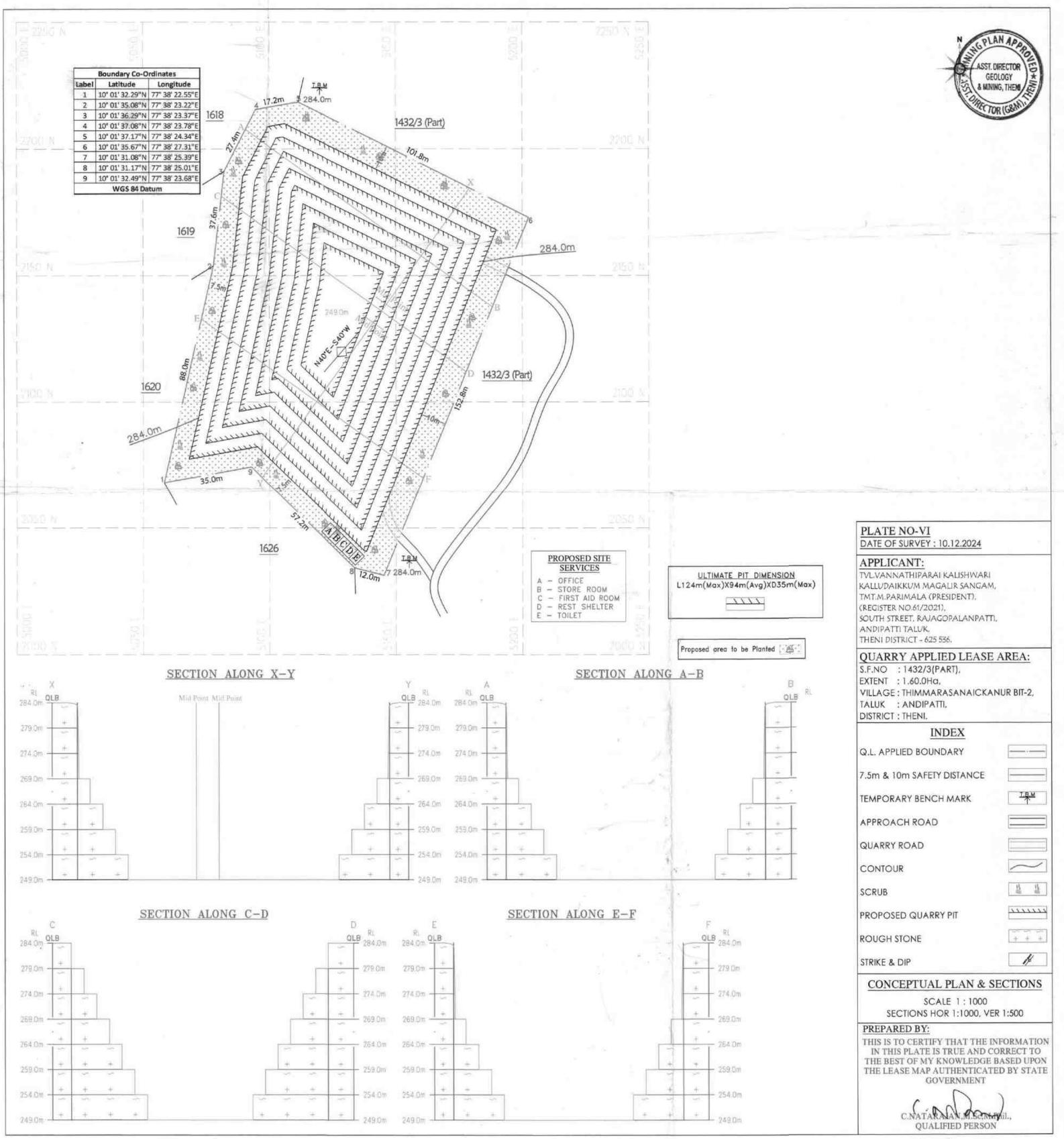
SCALE 1:1000 SECTIONS HOR 1:1000, VER 1:500

PREPARED BY:

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







M. UA LOFTIN

> ANNEXURE-4

From

Assistant Director, Geology and Mining, Theni. To

The Chairman, State level Environment Impact Assessment Authority, 3rd floor, Panagal Maligai, No.1, Jeenis Road, Saidapet, Chennai.

Roc. No.104/Mines/2023, dated.22.05.2025

sir,

Sub: Mines and Minerals - Minor Mineral - Rough Stone -District -Andiaptty Taluk Thimmarasanayakkanur Bit-2 Village - Govt. Poramboke Land - in S.F. Nos.1432 (Part) - Over an extent of 1.60.00 Hects - Quarry lease application preferred by Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam (Reg.No.61/2021), President:Tmt.M.Parimala -Precise area communicated - Draft Mining Plan submitted - Precise area communicated - Draft Mining Plan submitted - Approval accorded - 500 meter radius quarry details -Requested - Regarding ...

Ref:

- Theni District Gazette Extraordinary Notification, No.3, dated:09.01.2024.
- 2. Quarry lease application preferred Tvl. Vannathiparai Kalieswari Kalludaikum Magalir (Reg.No.61/2021), Sangam President:Tmt.M.Parimala. South Street. Rajagopalanpatti, Andipatty, Theni District. application dated.07.02.2024.
- Special Committee Report, daetd:12.07.2024.
- 4. District Collector, Theni Precise area communication letter Roc No. Rc.No.104/Mines/2023, Dated:09.12.2024.
- Mining Plan dated Nil received on 11.02.2025 from Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam (Reg.No.61/2021).

In the reference 1st cited, Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam (Reg.No.61/2021), President:Tmt.M.Parimala has preferred an application for the grant of quarry lease to quarry Rough Stone in S.F.Nos.1432 (Part) over an extent of 1.60.00 Hects of Thimmarasanayakkanur Bit-2 Village, Andiaptty Taluk under Rule 19 of Tamil Nadu Minor Mineral Concession Rules, 1959.

Based on reports and recommendations of the Revenue Divisional Officer, Periyakulam and Assistant Director, Department of Geology and Mining, Theni precise area was communicated by the Assistant Director to Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam (Reg.No.61/2021) with a direction to submit the draft mining plan as stipulated in rule 41 of Tamil Nadu Minor Mineral Concession Rules, 1959.

Accordingly, Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam (Reg.No.61/2021), President:Tmt.M.Parimala has submitted the draft Mining Plan and the same has been approved on 02.04.2025. In this connection the applicant has requested to furnish the details of quarry lease situated within 500 mts radius from the subject quarry for obtaining Environmental Clearance from the State Level Environment Impact Assessment Authority.

In this connection it is informed that the following existing and abandoned quarries are located within 500 mts radius distance from the proposed area for clearance.

A. Existing Quarries

1.			-N	lil-		
S. No.	Name of the owner	Village and Taluk	S.F. No.	Extent (in Hects)	Collector's / Assistant Director, (Mines) Proc No.& Date.	Lease Period

B. Abandoned/Expired Quarries

S. No	Name of the owner	Village and Taluk	S.F. No.	Extent (in Hects)	Collector's Proc No.& Date.	Lease Period
1.			-Nil-			

C. Present Proposed Quarries

S. No.	Name of the owner	Village and Taluk	S.F.No.	Extent (in Hects)	
1.	Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam (Reg.No.61/2021),	Thimmarasanayakkanu r Bit-2 Village	1432 (Part)	1,60.00 Hects.	

	President:Tmt.M.Parimala, No.2, North Street, Rajagopalanpati, Thimmarasanayakkanur Village, Andiaptty Taluk, Theni District	Andiaptty Taluk		5 1
2.	Tvl.Vannathiparai Nagammal Kalludaikum Magalir Sangam (Reg.No.62/2021), President:Tmt.T.Thavamani, No.2, North Street, Rajagopalanpati, Thimmarasanayakkanur Village, Andipatty Taluk, Theni District	Thimmarasanayakkanu r Bit-2 Village - Andipatty Taluk	1619 (Part)	2.50.00 Hects.
3.	R.Murugan, S/o.Rengasamy, North Street, T.Rajagopalanpatti, Andipatty Taluk, Theni District.	Thimmarasanayakkanu r Bit-2 Village - Andipatty Taluk	1613/3C2, 1655/2	1.17.50 Hects.

Assistant Director, Geology and Mining, Theni.

22/04/2017

> ANNEXURE-5

LOCATION OF THE QUARRY LEEASE APPLIED AREA



TVL VANNATHIPARAI KALIESWARI KALLUDAIKUM MAGALIR SANGAM

NAME OF THE APPLICANT M.PARIMALA(PRESIDENT)

DISTRIC THEM TALUK ANDIPATTI

VILLAGE THIMMARASANAYAKKANUR BIT-2

S.F.NOS 1432/3(PART) EXTENT 1.60.0Ha

Place:

Date:

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85000 longitelis semiguag onelis குமிற்கு சொய்கிக்களி மட்டி கிறாமம் அல எணி. 1432/3 - வி மைய் நாணம் 1.60.00 மெற்க வெர்ஸ் (மக்கு) உள்ள குடித்தில் வண்ணாத்தியாறை காவுல்லாற ஆலிலானா ஆகும் பகையூ உழுவர் January M millions or official someway som orders orders उत्पारण जातमानुस्ता ह्याळ्याचे एक्स ठास्त्रस्त्राचा भेजसूर्व्हीकाळ्यास् சிற்றி 300 பி சுற்றவாகவி ககாவவிகள் 4ராதனை சின்னாவகள் பகினக்கபம் மற்றம் தாங்களைக்கப்பட்ட இடியடையு ഥത്തെങ്ക് ചുളുത്തിയാത വെയ്യുള്ളിയാൽ നായാവി തു ठाइमाञान्त्रकार्मिकान्याम् ।

> இராம் ஆய்வாக அரோர் இராம் ஆய்வாக அனிஅவர்

> ANNEXURE-6

அனுப்புநர் மாவட்ட ஆட்சித்தலைவர், தேனி. பெறுநர்: திருமதி.ம.பரிமளா,தலைவி, தி/ள்.வண்ணாத்திபாறை காளீஸ்வரி கல்லுடைக்கும் மகளிர் சங்கம், (பதிவு எண்.61/2021), தெற்கு தெரு, இராஜகோபாலன்பட்டி, ஆண்டிபட்டி வட்டம், தேனி மாவட்டம்.625536..

ANDEXUME

ASST. DIRECTOR
GEOLOGY
A MINING. THEM

ந.க.எண்.104/கனிமம்/2024, நாள்:09.12.2024.

பொருள்:

கனிமங்களும், குவாரிகளும் - சிறுவகைக் கனிமம் - உடைகல் - தேனி மாவட்டம் - ஆண்டிபட்டி வட்டம் - திம்மரசநாயக்கனூர் பிட்-2 கிராமம் - அரசு புறம்போக்கு புல எண்.1432/3 (பகுதி) - விஸ்தீரணம் 1.60.0 ஹெக்டேர் பரப்பில் தி/ன்.வண்ணாத்திபாறை காளீஸ்வரி கல்லுடைக்கும் மசுளிர் சங்கம் விண்ணப்பித்தது - முன்னுரிமை அடிப்படையில் நேரடிகற்குவாரி குத்தகை உரிமம் வழங்க சிறப்பு குழுவால் தேர்வு செய்யப்பட்டது - குத்தகை தொகையினை உறுதி செய்து - முதல் தவணை குத்தகை தொகையை செலுத்தப்பட்டது - ஏற்பளிக்கப்பட்ட சுரங்க திட்டம் மற்றும் சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் ஒப்புதல் பெற்று சமர்பிக்க கோருதல் - தொடர்பாக.

பரர்வை:

- 1. வருவாய் கோட்டாட்சியர், பெரியகுளம் கடிதம் ந.க.எண்.6973/2023/அ6, நாள்:17.11.2023..
- 2. **மாவட்ட வன அலுவலர், தேனி, தேனி வனக்கோட்டம்,** தேனி. கடிதம் எண்.12122/2023/டி, நாள்:05.01.2024.
- தேனி மாவட்ட அரசிதழ் சிறப்பு வெளியீடு எண்.3, நாள்:19.01.2024.
- திருமதி.ம.பரிமளா,தலைவி, தி/ள்.வண்ணாத்திபாறை காளீஸ்வரி கல்லுடைக்கும் மகளிர் சங்கம், (பதிவு எண்.61/2021), தெற்கு தெரு, இராஐகோபாலன்பட்டி, ஆண்டிபட்டி வட்டம், தேனி மாவட்டம். விண்ணப்பம் நாள்:07.02.2024.
- 5. சிறப்புக்குழு (Special Committee) கூட்ட அறிக்கை நாள்.12.07.2024.
- 6. குறிப்பாணை ந.க.எண்.104/களிமம்/2024, நாள்:05.09.2024.

பார்வை 1 மற்றும் 2-ல் காணும் பரிந்துரை அறிக்கையின்படி, பார்வை 3-ல் காணும் தேனி மாவட்ட அரசிதழ் சிறப்பு வெளியீடு எண்.3, நாள்:19.01.2024-ல் தேனி மாவட்டம், ஆண்டிபட்டி வட்டம், திம்மரசநாயக்கனூர் பிட்-2

MUNADOMA

கிராமம், அரசு புறம்போக்கு புல எண்.1432/3 (பகுதி) விஸ்தீரணம் 1.60.0 மொட்டு பரப்பில் மகளிர் சங்கங்களுக்கு நேரடி குவாரி குத்தகை உரிமம் வழங்க விண்ணப்பங்கள் மாலே வரவேற்கப்பட்டது. அதனை தொடர்ந்து, பார்வை 4-ல் காணும் தி/ன்.வண்ணாத்தியாறை காளீஸ்வரி கல்லுடைக்கும் மகளிர் சங்கமானது தேனி மாவட்டம், ஆண்டிபட்டி வட்டம், திம்மரசநாயக்களூர் பிட்-2 கிராமம், அரசு புறம்போக்கு புல எண்.1432/3 (பகுதி) விஸ்தீரணம் 1.60.0 ஹெக்டேர் பரப்பு கல்குவாரிக்கு விண்ணப்பம் செய்தது.

பார்வை 5-ல் காணும், மாவட்ட ஆட்சித்தலைவர் அவர்களின் தலைமையில் ஆண்டிபட்டி வட்டம். தேனி மாவட்டம், அமைக்கப்பட்ட சிறப்புக்குழுவான<u>து</u>, அரசு புறம்போக்கு புல எண்.1432/3 (பகுதி) திம்மரசநாயக்களூர் பிட்-2 கிராமம், குவாரிப்பணி செய்ய ஹெக்டேர் பாப்பில் உடைகல் விஸ்கீரணம் 1.60.0 தி/ன்.வண்ணாத்திபாறை காளீஸ்வரி கல்லுடைக்கும் மகளிர் சங்கத்தினருக்கு 5 (ஐந்து) ஆண்டுகளுக்கு கற்குவாரி குத்தகை உரிமம் வழங்க பரிந்துரை செய்யப்பட்டது.

அதனை. தொடர்ந்து, பார்வை 6-ல் காணும் குறிப்பாணையில், தமிழ்நாடு சிறுகனிம் சலுகை விதிகள்,1959, விதி எண்.8 (10-A) (C)-ன்படி 50% குத்தகை தொகை ரூ.22,00,000/-ஐ நாள்கு சம தவணைகளில் முதல் தவணை குத்தகைத் தொகை ரூ.5,50,000/-ஐ செலுத்தி அசல் சலானை சமர்ப்பிக்குமாறு கேட்டுக்கொள்ளப்பட்டது. அதன் பின்னர், மேற்படி சங்கத்தினர் முதல் தவணைத் தொகை ரூ.5,50,000/-யினை சலான் எண்.20240916011424, நாள்:20.09.2024-ன்படி செலுத்தி சமர்ப்பித்துள்ளனர்.

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எனவே, வருவாய் கோட்டாட்சியர், பெரியகுளம், மாவட்ட வன அலுவலர், தேனி மற்றும் சிறப்பு குழுவின் பரிந்துரை அறிக்கையின் அடிப்படையில், விண்ணப்பதாரர் தி/ன்.வண்ணாத்தியாறை காளீஸ்வரி கல்லுடைக்கும் மகளிர் சங்கத்தினருக்கு தேனி மாவட்டம், ஆண்டிபட்டி வட்டம், திம்மரசநாயக்கனூர் பிட்-2 கிராமம், அரசு புறம்போக்கு பூல எண்.1432/3 (பகுதி) விஸ்தீரணம் 1.60.0 ஹெக்டேர் சாதாரண உடைகற்கள் வெட்டியெடுத்து குவாரிப்பணி செய்ய தமிழ்நாடு சிறுகனிம் சலுகை விதிகள் 1959-ம் விதி 8 (10-A) (b) (iii)-ன்படி 5 (ஐந்து) ஆண்டுகளுக்கு கற்குவாரி உரிமம் வழங்க ஏதுவாக 1959-ம் வருடத்திய தகிழ்நாடு சிறுகனிம் விதிகள், விதி எண்.41-ன்படி ஏற்பளிக்கப்பட்ட சுரங்கத் திட்டத்தினை 90 தினங்களுக்குள்ளும் அதனை தொடர்ந்து, 1959-ம் வருடத்திய தமிழ்நாடு சிறுகனிம் விதிகள், விதி எண்.41-ன்படி ஏற்பளிக்கப்பட்ட சுரங்கத் திட்டத்தினை 90 தினங்களுக்குள்ளும் அதனை தொடர்ந்து, 1959-ம் வருடத்திய தமிழ்நாடு சிறுகனிம் விதிகள், விதி எண்.42-ன்படி மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு அணையத்தின் இசைவினையும் பெற்று சமர்பிக்க வேண்டும்.

OLAN AP

ASST. DIRECTOR

நிபந்தனைகள்:

- நனைகள்: அருகிலுள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டரும், அரசு புறம்போக்கு நிலங்களுக்க 10 மீட்டரும் பாதுகாப்பு இடைவெளி விட்டு குவாரிப் பணி மேற்கொள்ள வேண்டும்.
- அருகிலுள்ள பட்டாதாரர்களுக்கு எவ்வித இடையூறுமின்றி / அருகிலுள்ள பட்டா மற்றும் அரசு புலங்களில் எவ்வித ஆக்கிரமிப்பும் இன்றி குவாரிப்பணி மேற்கொள்ள வேண்டும்.
- கற்குவாரி குத்தகை உரிமம் பெறுவதற்கு முன்பாக ஆணையர், புவியியல் மற்றும் சுரங்கத்துறை, சென்னை அவர்களின் கடிதம் ந.க.எண்.2921/எம்.எம்.4/2016, நாள்:09.03.2021-ல் தெரிவிக்கப்பட்டுள்ளவாறு குத்தகைதாரர் குவாரிபணி தொடங்குவதற்கு முன்னர் உரிமம் வழங்கப்பட்ட எல்லைகளை DGPS முறையில் அளவீடு செய்து குறுந்தட்டில் பதிவு செய்து அறிக்கையாக சமர்ப்பிக்க வேண்டும்.

ஒம். (XXXXXXXXXXXXX) மாவட்ட ஆட்சித்தலைவர், தேனி.

ASST PARECTOR
GEOLOGY
& MINING, THEN

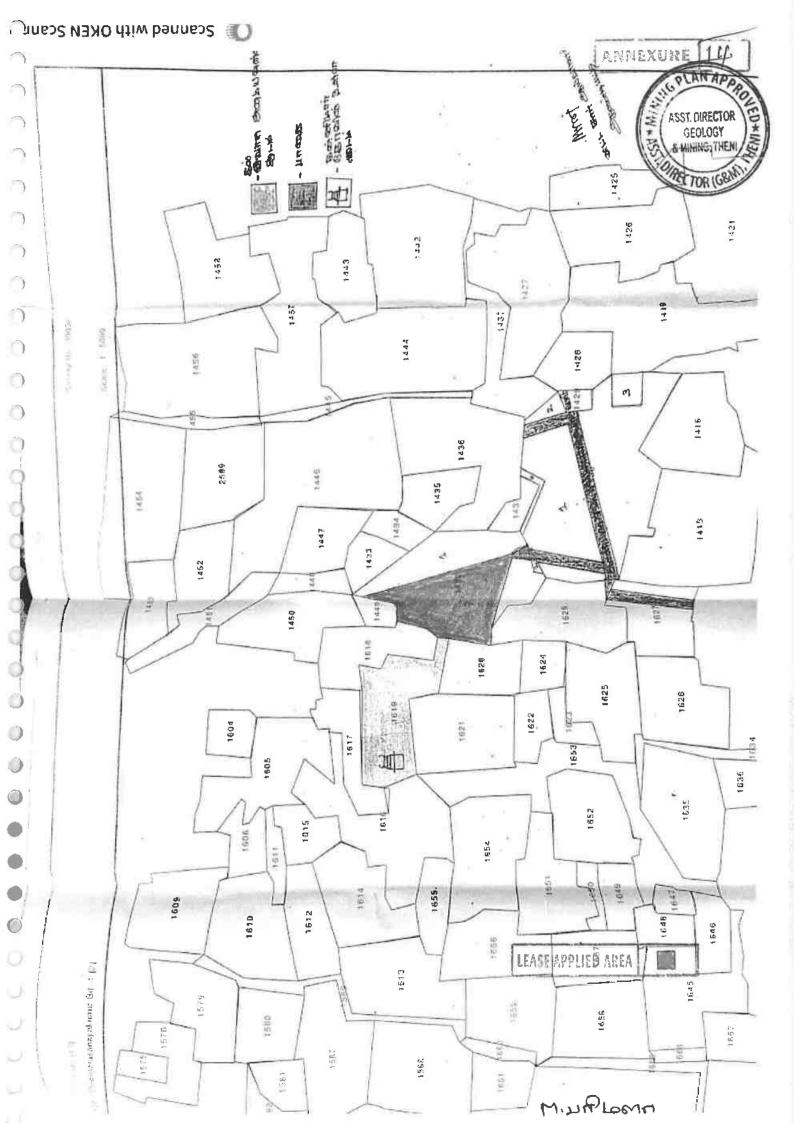
/உ.ந.உ.ப./

மாவட்ட ஆட்சித்தலைவருக்காக, தேனி.

09/12/2024

Survey No : 1432 CHNEXURE District: Theni HUPLAN'ADO Area: Hect 04 Ares 77.50 Taluk: Aundipatti [13] ASST. DIRECT Village: Thimmarasanayanur Bit-2 [202] Scale: 1:2000 OFRECTOR (G 1450 1448 1449 1618 1433 40.2 1619 1620 1434 1435 1436 0.8 1626 1431 130.4 1430 LEASE APPLIED AREA 45.6 188 4 73 8 0 131.4 115.2 G 116.0 CollabLand : National Informatics Centre

0



ANNEXURE-7



Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/	1889		Report Dat	te. 17.03.2025		
_			•				
Customer Name & Address (Pr			Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala				
			(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,				
		-	AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Description A			AMBIENT AIR QUALITY				
Sampling Procedure			IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines				
Sample Location A1		A1-P	A1-Project site core zone				
Positioned height of Sampler		1.5 N	1.5 M above Ground Level				
Customer Refere	ence	By N	Mail	Sampling Duration	24 hrs		
Sample Reference No		SAR	RL/A/CHE-1889	Sample Received on	10.03.2025		
Sample Collected by		LAE	BORATORY	Test Commenced on	10.03.2025		
Sample Collected on		04.0	3.2025	Test Completed on	17.03.2025		
Temperature		36°C	C	Relative Humidity	25%		
Sample Conditio	n	Fit f	or Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	58.1	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	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	12.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL(D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

Please Contact:

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SARL/25/1890

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TEST REPORT

1	1		
	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala		
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,		
	AndipattiTaluk, Theni District, 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-Anaikaraipatti village		
Positioned height of Sampler	1.5 M above Ground Level		

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1890	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	$\mu g/m^3$	49.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	24.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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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17.03.2025



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TEST REPORT

Report No.	SAR	L/25/1891			Report Date.	17.03.2025		
			Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala					
Customer Name & Address			(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State					
Sample Descript	ion	-	BIENT AIR QUALITY					
Sampling Proceed	1					PCB Guide lines		
Sample Location	1	A1-I	1-Project site core zone					
Positioned height of Sampler 1.5 M above Ground Level								
	_	•						
Customer Refere	ence	By	Mail	Sampling Du	ration	24 hrs		
Sample Reference	ce No	SAF	RL/A/CHE-1891	Sample Rece	eived on	10.03.2025		
Sample Collecte	d by	LAI	BORATORY	Test Comme	nced on	10.03.2025		
Sample Collecte	d on	05.0	3.2025	Test Comple	ted on	17.03.2025		
Temperature		36°0	6°C Relative Humidity 27%			27%		
Sample Condition	n	Fit f	Fit for Analysis					
C								

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	56.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	26.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ 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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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SARL/25/1892

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TEST REPORT

		nathiparai Kalieswari Kalludaikum Ma			
Customer Name & Address		rt),Of Thimmarasanaickanur Bit- 2 V	illage,		
		AndipattiTaluk, Theni District, 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-Anaikaraipatti village				
Positioned height of Sampler	1.5 M above Ground Level				
Customer Reference	By Mail	Sampling Duration	24 hrs		
Sample Reference No	SARL/A/CHE-1892	Sample Received on	10.03.2025		
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025		
Sample Collected on	05.03.2025	Test Completed on	17.03.2025		
Temperature	34°C	Relative Humidity	28%		
Sample Condition	Fit for Analysis	-			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	44.7	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	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ 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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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17.03.2025



Positioned height of Sampler

SARL/25/1893

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TEST REPORT

	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala	
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,	
	AndipattiTaluk, Theni District, 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-Theppathupatty Village	

1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1893	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	μ g/m ³	42.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	20.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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17.03.2025



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TEST REPORT

Report No.	SARL/25/1894		F	Report Date.	17.03.2025	
Customer Name & A		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,				
Customer Tvame & F		pattiTaluk, Theni District, Ta		anui Dit- 2 viiiagi	·,	
Sample Description	AM	BIENT AIR QUALITY				
Sampling Procedure	IS –	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines				
Sample Location	A4-'	A4-T. Vadipatty Village				
Positioned height of	Sampler 1.5 l	1.5 M above Ground Level				
	·					
Customer Reference	Ву	Mail	Sampling Du	ration	24 hrs	
Sample Reference N	o SAl	RL/A/CHE-1894	Sample Recei	ved on	10.03.2025	
Sample Collected by	LA	BORATORY	Test Commen	nced on	10.03.2025	
Sample Collected on	06.0)3.2025	Test Complete	ed on	17.03.2025	
Temperature	36°	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	$\mu g/m^3$	42.3	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	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

Page 6 of 14



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TEST REPORT

		Report Date.	17.03.2025	
Customer Name & Address Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M.l. (President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
AN	AMBIENT AIR QUALITY			
e IS	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines			
A5	A5-Thoppampatti Village			
f Sampler 1.5	M above Ground Level			
-				
e By	/ Mail	Sampling Duration	24 hrs	
No SA	ARL/A/CHE-1895	Sample Received on	10.03.2025	
y L	ABORATORY	Test Commenced on	10.03.2025	
n 06	5.03.2025	Test Completed on	17.03.2025	
36	6°C Relative Humidity 26%		26%	
Fi	Fit for Analysis			
•	<u>.</u>			
	Address (Property And	Address (President), At S.F.No.1432/3 (President), And District, The Ambient of Sare and State (Part – 14: 2000) A5-Thoppampatti Village f Sampler 1.5 M above Ground Level By Mail No SARL/A/CHE-1895 y LABORATORY n 06.03.2025 36°C	AndipattiTaluk, Theni District, Tamil Nadu State AMBIENT AIR QUALITY IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), G A5-Thoppampatti Village f Sampler I.5 M above Ground Level By Mail Sampling Duration No SARL/A/CHE-1895 Sample Received on y LABORATORY Test Commenced on n 06.03.2025 Test Completed on 36°C Relative Humidity	

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	48.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	22.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/18	396	Report Date.	17.03.2025	
Customer Name	& Address		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village,		
		AndipattiTaluk, Theni Distric	t, Tamil Nadu State		
Sample Descript	ion	AMBIENT AIR QUALI	TY		
Sampling Proced	ure	IS – 5182 (Part – 14: 200	00 & Part – V: Reaffirmed - 2003),	CPCB Guide lines	
		•			
Sample Location		A3-Nedungur village			
Positioned heigh	t of Sampler	1.5 M above Ground Lev	vel		
Customer Refere	nce	By Mail	Sampling Duration	24 hrs	
Sample Reference	e No	SARL/A/CHE-1896	Sample Received on	10.03.2025	
Sample Collected	d by	LABORATORY	Test Commenced on	10.03.2025	
Sample Collected	d on	07.03.2025	Test Completed on	17.03.2025	
Temperature		36°C	36°C Relative Humidity 27%		
Sample Condition Fi		Fit for Analysis	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	45.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	21.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ 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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/1897			Report Date.	17.03.2025
Customer Name & A	Address (Pres	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description	AM	BIENT AIR QUALITY	7		
Sampling Procedure	IS –	5182 (Part - 14: 2000 d	& Part – V: Reaffir	med - 2003), CI	PCB Guide lines
Sample Location	A4-	Γ. Vadipatty Village			
Positioned height of	Sampler 1.5	M above Ground Level			
Customer Reference	By	Mail	Sampling Du	ıration	24 hrs
Sample Reference N		RL/A/CHE-1897	Sample Rece		10.03.2025
Sample Collected by		BORATORY	Test Comme		10.03.2025
Sample Collected on	Sample Collected on 07.03.2025 Test Comp		Test Comple	ted on	17.03.2025
Temperature	36°	36°C Relative Hu		nidity	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	$\mu g/m^3$	38.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	17.6	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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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SARL/25/1898

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TEST REPORT

*	*
	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Thoppampatti Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1898	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	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	$\mu g/m^3$	44.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	20.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m ³	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Channal - 45 on *** END OF THE REPORT***

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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17.03.2025



Temperature Sample Condition

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TEST REPORT

Report No.	SARL/25/189	9	Report Da	te. 17.03.2025
Customer Name	& Address		nathiparai Kalieswari Kalludaikum N art),Of Thimmarasanaickanur Bit- 2 amil Nadu State	
Sample Descript	ion	AMBIENT AIR QUALITY	<i>T</i>	
Sampling Proceed	lure	IS – 5182 (Part – 14: 2000	& Part – V: Reaffirmed - 2003	3), CPCB Guide lines
Sample Location	1	A6-Andipatti Village		
Positioned heigh	t of Sampler	1.5 M above Ground Level		
Customer Refere	ence	By Mail	Sampling Duration	24 hrs
Sample Reference	e No	SARL/A/CHE-1899	Sample Received on	10.03.2025
Sample Collecte	d by	LABORATORY	Test Commenced on	10.03.2025
Sample Collecte	d on	08.03.2025	Test Completed on	17.03.2025
Temperature		36°C	Relative Humidity	28%

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	51.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	24.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd



Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

Please Contact:

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Fit for Analysis

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TEST REPORT

Report No.	SARL/25/19	000	Report Date.	17.03.2025	
Customer Name & Address Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt.! (President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State					
Sample Descript	ion	AMBIENT AIR QUALITY			
Sampling Proced	lure	IS – 5182 (Part – 14: 200	0 & Part – V: Reaffirmed - 2003), C	CPCB Guide lines	
Sample Location	l	A7-T.Renganavaram village			
Positioned heigh	t of Sampler	1.5 M above Ground Lev	el		
Customer Refere	ence	By Mail	Sampling Duration	24 hrs	
Sample Reference	e No	SARL/A/CHE-1900	Sample Received on	10.03.2025	
Sample Collected	d by	LABORATORY	Test Commenced on	10.03.2025	
Sample Collected	d on	08.03.2025	Test Completed on	17.03.2025	
Temperature		36°C	1		
Sample Conditio	n	Fit for Analysis			
G					

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	54.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	25.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/190	1		Report Date.	17.03.2025	
Customan Nama 9	A 44	Rough Stone Quarry Of Tvl. Va				
Customer Name &	Address	(President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Descriptio	on	AMBIENT AIR QUALIT				
Sampling Procedu		IS – 5182 (Part – 14: 200		med - 2003), C	PCB Guide lines	
1 8		- (/, -		
Sample Location		A6-Andipatti Village				
Positioned height	of Sampler	1.5 M above Ground Lev	el			
	<u>-</u>					
Customer Referen	ce	By Mail	Sampling D	uration	24 hrs	
Sample Reference	No	SARL/A/CHE-1901	Sample Reco	eived on	10.03.2025	
Sample Collected	by	LABORATORY	Test Comme	enced on	10.03.2025	
Sample Collected	on	09.03.2025	Test Comple	eted on	17.03.2025	
Temperature		35°C	Relative Hu	midity	32%	
Sample Condition		Fit for Analysis	•			
C						

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	54.3	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	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	12.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst. Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/190)2	Report Date	17.03.2025	
			·		
			nathiparai Kalieswari Kalludaikum Ma		
Customer Name	& Address		art),Of Thimmarasanaickanur Bit- 2 Vi	illage,	
a 1.5	•	AndipattiTaluk, Theni District, T			
Sample Descript		AMBIENT AIR QUALITY			
Sampling Proceed	lure	IS - 5182 (Part – 14: 2000)	& Part – V: Reaffirmed - 2003)	, CPCB Guide lines	
Sample Location	1	A7-T.Renganavaram villag	e		
Positioned heigh	t of Sampler	1.5 M above Ground Level			
		T			
Customer Refere	ence	By Mail	Sampling Duration	24 hrs	
Sample Reference	ce No	SARL/A/CHE-1902	Sample Received on	10.03.2025	
Sample Collecte	d by	LABORATORY	Test Commenced on	10.03.2025	
Sample Collecte	d on	09.03.2025	Test Completed on	17.03.2025	
Temperature	·	35°C	Relative Humidity	32%	
Sample Condition	on	Fit for Analysis			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	56.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	26.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	12.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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SARL/25/1943

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416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Andipatti Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1943	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	49.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	22.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified 2



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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Page 1 of 14

24.03.2025



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TEST REPORT

Report No.	SARL/25/1944		Rep	ort Date.	24.03.2025
Customer Name & A	Address (Pres	th Stone Quarry Of Tvl.Vani ident), At S.F.No.1432/3 (Pa pattiTaluk, Theni District, T	art),Ôf Thimmarasanaickanı		
Sample Description	AM	BIENT AIR QUALITY	7		
Sampling Procedure	e IS –	5182 (Part – 14: 2000	& Part – V: Reaffirmed	d - 2003), C	PCB Guide lines
Sample Location	A7-	T.Renganavaram villag	e		
Positioned height of	Sampler 1.5	M above Ground Level			
	·				
Customer Reference	e By	Mail	Sampling Durat	ion	24 hrs
Sample Reference N	No SA	RL/A/CHE-1944	Sample Receive	d on	17.03.2025
Sample Collected by	y LA	BORATORY	Test Commence	ed on	17.03.2025
Sample Collected or	n 11.0	03.2025	Test Completed	on	24.03.2025
Temperature	36°	С	Relative Humid	ity	30%
Sample Condition	Fit	for Analysis			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	49.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	22.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified 2



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

END OF THE REPORT
Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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SARL/25/1945

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416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Report Date.

24.03.2025

	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Andipatti Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1945	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	$\mu g/m^3$	51.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	23.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	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

For Shrient Analytical and Research Labs Pvt. Ltd





Authorized Signatory
S. BALAMURUGAN
END OF THE REPORT*

Aust. Technical Manager

Please Contact:

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/	1946			Report Date.	24.03.2025
	•		•			
Customer Name	& Address	(Presi	dent), At S.F.No.14	Vl.Vannathiparai Kalieswari 32/3 (Part),Of Thimmarasana strict, Tamil Nadu State		
Sample Descript	AMI	AMBIENT AIR QUALITY				
Sampling Proceed	dure	IS –	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines			
Sample Location	1	A7-1	A7-T.Renganavaram village			
Positioned heigh	nt of Sampler	1.5 N	1.5 M above Ground Level			
				1		
C + D C		D 1	Af '1	l C 1' 1	· ·	2.4.1

By Mail	Sampling Duration	24 hrs
SARL/A/CHE-1946	Sample Received on	17.03.2025
LABORATORY	Test Commenced on	17.03.2025
11.03.2025	Test Completed on	24.03.2025
36°C	Relative Humidity	30%
Fit for Analysis		
	SARL/A/CHE-1946 LABORATORY 11.03.2025 36°C	SARL/A/CHE-1946 Sample Received on LABORATORY Test Commenced on 11.03.2025 Test Completed on 36°C Relative Humidity

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	$\mu g/m^3$	51.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	23.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

END OF THE REPORT

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

Please Contact:

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Temperature Sample Condition

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/194	7	Report Da	ate. 24.03.20)25		
Customer Name	& Address		nathiparai Kalieswari Kalludaikum rt),Of Thimmarasanaickanur Bit- 2 amil Nadu State		nt.M.Parimala		
Sample Descript	ion	AMBIENT AIR QUALITY	MBIENT AIR QUALITY				
Sampling Proceed	lure	IS - 5182 (Part - 14: 2000 a	& Part – V: Reaffirmed - 200	3), CPCB Guide	e lines		
Sample Location	1	A3-Theppathupatty Village					
Positioned heigh	t of Sampler	1.5 M above Ground Level					
Customer Refere	ence	By Mail	Sampling Duration	24 hrs			
Sample Reference	ce No	SARL/A/CHE-1947	Sample Received on	17.03.202	.5		
Sample Collecte	d by	LABORATORY	Test Commenced on	17.03.202	5		
Sample Collecte	d on	13.03.2025	Test Completed on	24.03.202	.5		
Temperature		37°C	Relative Humidity	23%			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	44.7	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	$\mu g/m^3$	6.7	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

For Shrient Analytical and Research Labs Pvt. Ltd

END OF THE REPORT*

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

Please Contact:

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Fit for Analysis

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> LAB SERVICES FOR: Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/	1948		Report Date.	24.03.2025
Customer Name & Address (Presi		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, and patti Taluk, Theni District, Tamil Nadu State			
Sample Descript	ion	-	MBIENT AIR QUALITY		
Sampling Proceed	lure	IS –	- 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines		
				·	
Sample Location A4-7			-T. Vadipatty Village		
Positioned height of Sampler 1.5 M			I above Ground Level		

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1948	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	$\mu g/m^3$	44.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	20.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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

Please Contact:

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Temperature Sample Condition

Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/194	9	Report Da	ite. 24.03.2025			
Customer Name	& Address		nathiparai Kalieswari Kalludaikum M art),Of Thimmarasanaickanur Bit- 2 amil Nadu State				
Sample Descript	ion	AMBIENT AIR QUALITY	MBIENT AIR QUALITY				
Sampling Proceed	lure	IS – 5182 (Part – 14: 2000	& Part – V: Reaffirmed - 200	3), CPCB Guide lines			
Sample Location	1	A5-Thoppampatti Village					
Positioned heigh	t of Sampler	1.5 M above Ground Level					
Customer Refere	ence	By Mail	Sampling Duration	24 hrs			
Sample Reference	ce No	SARL/A/CHE-1949	Sample Received on	17.03.2025			
Sample Collecte	d by	LABORATORY	Test Commenced on	17.03.2025			
Sample Collecte	d on	13.03.2025	Test Completed on	24.03.2025			
Temperature		37°C	Relative Humidity	23%			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	55.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	25.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	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

For Shrient Analytical and Research Labs Pvt. Ltd

END OF THE REPORT*

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/1950		Repo	ort Date.	24.03.2025
	Ro	ough Stone Quarry Of Tyl Van	nathinarai Kalieswari Kalluda	ikum Magali	r Sangam Tmt M Parimala
Customer Name & Address		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description	A	MBIENT AIR QUALITY	Y		
Sampling Procedure	e IS	- 5182 (Part - 14: 2000	& Part – V: Reaffirmed	- 2003), C	PCB Guide lines
				•	
Sample Location	A.	A3-Theppathupatty Village			
Positioned height of	f Sampler 1	1.5 M above Ground Level			
	<u>-</u>				
Customer Reference	e B	y Mail	Sampling Duration	on	24 hrs
Sample Reference N	No S.	ARL/A/CHE-1950	Sample Received	on	17.03.2025
Sample Collected b	y L	ABORATORY	Test Commenced	on	17.03.2025
Sample Collected o	n 14	4.03.2025	Test Completed of	n	24.03.2025
Temperature		6°C	Relative Humidit	у	30%
Sample Condition		Fit for Analysis			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	42.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	20.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified 12

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/1951		Report Date.	24.03.2025	
Customer Name & Address (1		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description		MBIENT AIR QUALITY			
Sampling Procedure	I	S – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines			
Sample Location		4-T. Vadipatty Village			
<u> </u>		.5 M above Ground Level	1 2 0		

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1951	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	$\mu g/m^3$	41.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	19.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m ³	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

END OF THE REPORT

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

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SARL/25/1952

Shrient Analytical and Research Labs Pvt. Ltd

TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, 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-Thoppampatti Village				
Positioned height of Sampler	1.5 M above Ground Level				
Customer Reference	By Mail	Sampling Duration	24 hrs		
Sample Reference No	SARL/A/CHE-1952	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	$\mu g/m^3$	45.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	21.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	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/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Research 45 by ***END OF THE REPORT***

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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24.03.2025



SARL/25/1953

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Project site core zone
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1953	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	15.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis	•	

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	53.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	24.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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The character of the Report ***

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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24.03.2025



Sampling Procedure

SARL/25/1954

Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY

IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1955	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	$\mu g/m^3$	52.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	25.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	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/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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24.03.2025



416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/1955			Report Date.	24.03.2025	
Customer Name & Address		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,				
~		pattiTaluk, Theni District, Tar	mil Nadu State			
	Sample Description AMBIENT AIR QUALITY					
Sampling Procedure	IS –	5182 (Part – 14: 2000 &	k Part – V: Reaffir	med - 2003), CI	PCB Guide lines	
Sample Location	A1-	A1-Project site core zone				
Positioned height of	Sampler 1.5	Sampler 1.5 M above Ground Level				
Customer Reference	Ву	Mail	Sampling Du	uration	24 hrs	
Sample Reference N	o SA	RL/A/CHE-1955	Sample Rece	eived on	17.03.2025	
Sample Collected by	LA	BORATORY	Test Comme	enced on	17.03.2025	
Sample Collected on		03.2025	Test Completed on		24.03.2025	
Temperature	35°	°C Relative Humidity 30%		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	$\mu g/m^3$	24.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	5	SARL/25/1956		Report Date	e. 24.03.2025		
Customer Name & Address (Pr		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State					
Sample Descript	tion	A	AMBIENT AIR QUALITY				
Sampling Proceed	dure	IS	S – 5182 (Part – 14: 2000	& Part – V: Reaffirmed - 2003), CPCB Guide lines		
Sample Location		A	A2-Anaikaraipatti village				
Positioned height of Sampler 1.5 M above Ground Level							
		-					
Customer Refere	ence	E	By Mail	Sampling Duration	24 hrs		
Sample Reference	ce No	S	ARL/A/CHE-1956	Sample Received on	17.03.2025		
Sample Collecte	d by	I	ABORATORY	Test Commenced on	17.03.2025		
Sample Collected on		1	16.03.2025 Test Completed on		24.03.2025		
m .	Å		30%				
Temperature		-					

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	48.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	23.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/1	997			Report Date.	31.03.2025	
Customer Name & Address		(Presi	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Descript	tion						
Sampling Proceed	dure	IS –	5182 (Part – 14: 2000 -	& Part – V: Reaffi	rmed - 2003), C	PCB Guide lines	
Sample Location		A1-F	A1-Project site core zone				
Positioned height of Sampler			1.5 M above Ground Level				
Customer Refere	ence	By l	Mail	Sampling D	uration	24 hrs	
Sample Reference	ce No	SAF	RL/A/CHE-1997	Sample Rec	eived on	24.03.2025	
Sample Collecte	d by	LAF	BORATORY	Test Comm	enced on	24.03.2025	
Sample Collecte	d on	18.0	3.2025	Test Compl	eted on	31.03.2025	
Temperature		36°0	C	Relative Hu	midity	25%	
Sample Condition	on	Fit f	or Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	53.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m³	24.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL(D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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SARL/25/1998

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TEST REPORT

G	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, 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-Anaikaraipatti village

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

Customer Reference By Mail		Sampling Duration	24 hrs		
Sample Reference No	SARL/A/CHE-1998	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	Parameters Protocol		Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	49.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	23.6	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	μg/m³	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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Page 2 of 14

31.03.2025



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TEST REPORT

Report No.		SARL/25/199	9			Report Date.	31.03.2025
Customer Name & Address		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State					
Sample Description	on		AMBI	ENT AIR QUALIT	Y		
Sampling Proced	ure		IS - 51	82 (Part - 14: 2000	& Part – V: Reaffi	rmed - 2003), Cl	PCB Guide lines
Sample Location			A1-Project site core zone				
Positioned height	of	Sampler	1.5 M above Ground Level				
Customer Refere	nce		By Ma	uil	Sampling D	Ouration	24 hrs
Sample Reference	e N)	SARL	/A/CHE-1999	Sample Rec	ceived on	24.03.2025
Sample Collected	l by		LABC	RATORY	Test Comm	enced on	24.03.2025
Sample Collected	lon		19.03.	2025	Test Compl	leted on	31.03.2025
Temperature			36°C	PC Relative Humidity 27%		27%	
Sample Condition		Fit for Analysis					

S. No.	Parameters	Parameters Protocol U		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	μg/m ³	23.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/200	00	Report Date.	31.03.2025		
Customer Name & Address		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State				
Sample Descript	ion	AMBIENT AIR QUALITY	<u> </u>			
Sampling Proceed	dure	IS – 5182 (Part – 14: 2000	& Part – V: Reaffirmed - 2003),	CPCB Guide lines		
Sample Location	1	A2-Anaikaraipatti village				
Positioned heigh	nt of Sampler	1.5 M above Ground Level				
Customer Refere	ence	By Mail	Sampling Duration	24 hrs		
Sample Reference	ce No	SARL/A/CHE-2000	Sample Received on	24.03.2025		
Sample Collecte	d 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	Parameters Protocol		Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀) IS:5182: Part 23:2006		μg/m³	47.1	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	$\mu g/m^3$	5.0	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

For Shrient Analytical and Research Labs Pvt. Ltd



Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

END OF THE REPORT

Please Contact:

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TEST REPORT

Report No.	SARL/25/2001		Report Date.	31.03.2025		
Customer Name & Address		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Description	AN	AMBIENT AIR QUALITY				
Sampling Procedure		S – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines				
Sample Location	A3	A3-Theppathupatty Village				
Positioned height of Sampler		1.5 M above Ground Level				

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2001	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	Parameters Protocol		Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	$\mu g/m^3$	43.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	20.3	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	μg/m³	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

END OF THE REPORT

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

Please Contact:

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Temperature

Sample Condition

SARL/25/2002

36°C

Fit for Analysis

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Report 10.	2002	Report Da	C. 51.03.2020			
		3	·			
	Rough Stone Quarry Of	Tvl.Vannathiparai Kalieswari Kalludaikum M	Iagalir Sangam,Tmt.M.Parimala			
Customer Name & Address		32/3 (Part),Of Thimmarasanaickanur Bit- 2 V	Village,			
	AndipattiTaluk, Theni Di					
Sample Description	AMBIENT AIR QU	ALITY				
Sampling Procedure	IS – 5182 (Part – 14:	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines				
Sample Location	A4-T. Vadipatty Vill	age				
Positioned height of Sampler	1.5 M above Ground	Level				
Customer Reference	By Mail	Sampling Duration	24 hrs			
Sample Reference No	SARL/A/CHE-2002	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			

S. No.	Parameters	Parameters Protocol		Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	38.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	17.4	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	$\mu g/m^3$	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Relative Humidity

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Chescal - 43 by ***END OF THE REPORT***

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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31.03.2025

27%



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TEST REPORT

Report No.	SARL/25/	2003		Report Da	te. 3	31.03.2025	
		_					
C / N	0 4 1 1			nathiparai Kalieswari Kalludaikum M		ngam,Tmt.M.Parimala	
Customer Name	& Address		At S.F.No.1432/3 (P lluk, Theni District, T	art),Of Thimmarasanaickanur Bit- 2 ' 'amil Nadu State	Village,		
Sample Descripti	on		T AIR QUALITY				
Sampling Proced				& Part – V: Reaffirmed - 2003	3), CPC	B Guide lines	
		•	•				
Sample Location		A5-Thopp	A5-Thoppampatti Village				
Positioned height	t of Sampler	1.5 M abo	1.5 M above Ground Level				
Customer Refere	nce	By Mail		Sampling Duration	24	hrs	
Sample Reference	e No	SARL/A	/CHE-2003	Sample Received on	24	.03.2025	
Sample Collected	l by	LABORA	ATORY	Test Commenced on	24	.03.2025	
Sample Collected	d on	20.03.202	25	Test Completed on	31	.03.2025	
Temperature		36°C	Relative Humidity 27%		¹ %		
Sample Conditio	n	Fit for A	nalvsis			•	

S. 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	μg/m ³	21.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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TEST REPORT

Report No.	SARL/25/2004		Report Date.	31.03.2025		
Customer Name & Address		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State				
Sample Description	n AN	IBIENT AIR QUALITY	r			
Sampling Procedure		IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines				
			·			
Sample Location	A3	A3-Theppathupatty Village				
Positioned height o	f Sampler 1.5	1.5 M above Ground Level				
	*					
Customer Reference	e By	Mail	Sampling Duration	24 hrs		
Sample Reference No		RL/A/CHE-2004	Sample Received on	24.03.2025		
Sample Collected by		BORATORY	Test Commenced on	24.03.2025		
Sample Collected on		.03.2025	Test Completed on	31.03.2025		
Temperature		°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	$\mu g/m^3$	43.8	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	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	7.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.		SARL/25/200)5			Report Date.	31.03.2025	
Customer Name & Address		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala						
		(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,						
				tiTaluk, Theni District, T				
Sample Descript	ion		AMBI	ENT AIR QUALIT`	<u>Y</u>			
Sampling Proceed	dure		IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines					
				,				
Sample Location		A4-T. Vadipatty Village						
Positioned height of Sampler		1.5 M above Ground Level						
Customer Reference			By M	ail	Sampling D	uration	24 hrs	
Sample Reference No		SARI	/A/CHE-2005	Sample Rec	eived on	24.03.2025		
Sample Collected by		LABO	ORATORY	Test Comm	Test Commenced on 24.0			
Sample Collected on		21.03	2025	Test Completed on 31.03.202		31.03.2025		
Temperature			36°C	PC Relative Humidity		ımidity	28%	
Sample Condition		Fit for Analysis						

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	42.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	19.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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Sample Condition

Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/200	6	Report Da	te. 31.03.2025
Customer Name	& Address		nathiparai Kalieswari Kalludaikum M art),Of Thimmarasanaickanur Bit- 2 Y amil Nadu State	
Sample Description AMBIENT AIR QUALITY				
Sampling Proced	lure	IS - 5182 (Part - 14: 2000	& Part – V: Reaffirmed - 2003	3), CPCB Guide lines
Sample Location	1	A5-Thoppampatti Village		
Positioned heigh	t of Sampler	1.5 M above Ground Level		
Customer Refere	ence	By Mail	Sampling Duration	24 hrs
Sample Reference	ce No	SARL/A/CHE-2006	Sample Received on	24.03.2025
Sample Collected	d by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected	d on	21.03.2025	Test Completed on	31.03.2025
Temperature		36°C	Relative Humidity	26%

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	50.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	23.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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



Fit for Analysis

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

Please Contact:

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TEST REPORT

Report No.	SARL/25/2007		Re	port Date.	31.03.2025	
		_				
Customer Name & Address		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Description		BIENT AIR QUALITY				
Sampling Procedure	IS –	5182 (Part – 14: 2000 &	& Part – V: Reaffirme	ed - 2003), CF	PCB Guide lines	
Sample Location	A6-	A6-Andipatti Village				
Positioned height of	Sampler 1.5	1.5 M above Ground Level				
Customer Reference	Ву	Mail	Sampling Dura	tion	24 hrs	
Sample Reference N	o SA	RL/A/CHE-2007	Sample Receive	ed on	24.03.2025	
Sample Collected by	LA	BORATORY	Test Commenc	ed on	24.03.2025	
Sample Collected on	22.0	03.2025	Test Completed	d on	31.03.2025	
Temperature	36°	С	Relative Humio	lity	28%	
Sample Condition	Fit	Fit for Analysis				

S. 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	μg/m ³	25.3	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	μ g/m ³	12.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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

Please Contact:

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Page 11 of 14



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TEST REPORT

Report No.	SARL/25/20	08	Report Date	e. 31.03.2025
			nnathiparai Kalieswari Kalludaikum Ma	
Customer Name &	& Address		Part),Of Thimmarasanaickanur Bit- 2 V	illage,
		AndipattiTaluk, Theni District,		
Sample Description	on	AMBIENT AIR QUALIT	Ϋ́	
Sampling Procedu	ure	IS – 5182 (Part – 14: 2000	0 & Part – V: Reaffirmed - 2003)	, CPCB Guide lines
		,		•
Sample Location		A7-T.Renganavaram village		
Positioned height of Sampler		1.5 M above Ground Level		
Customer Referen	nce	By Mail	Sampling Duration	24 hrs
Sample Reference	e No	SARL/A/CHE-2008	Sample Received on	24.03.2025
Sample Collected	l 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 Fi		Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	52.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ 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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory S. BALAMURUGAN Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/2009)	Report Date	e. 31.03.2025		
Customer Name &		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt.M.Parimala (President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,				
Customer Name &		(President), At S.F.No.1432/3 (Pa AndipattiTaluk, Theni District, Ta		mage,		
Sample Description		AMBIENT AIR QUALITY				
Sampling Procedu		IS – 5182 (Part – 14: 2000 s	& Part – V: Reaffirmed - 2003)	, CPCB Guide lines		
		•				
Sample Location		A6-Andipatti Village				
Positioned height	of Sampler	1.5 M above Ground Level				
Customer Referen	ce	By Mail	Sampling Duration	24 hrs		
Sample Reference	No	SARL/A/CHE-2009	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	PC Relative Humidity 32%			
Sample Condition		Fit for Analysis				
9	·					

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	52.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	24.2	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	μ g/m ³	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/2010)	Report Date.	31.03.2025		
		<u></u>		·		
			nathiparai Kalieswari Kalludaikum Mag			
		(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,				
Camala Daganintia		AndipattiTaluk, Theni District, T AMBIENT AIR QUALITY				
Sample Description						
Sampling Procedu	re]	IS − 5182 (Part − 14: 2000 a	& Part – V: Reaffirmed - 2003),	CPCB Guide lines		
Sample Location		A7-T.Renganavaram village				
Positioned height	of Sampler	1.5 M above Ground Level				
Customer Referen	ce	By Mail	Sampling Duration	24 hrs		
Sample Reference	No	SARL/A/CHE-2010	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		
•		35°C	Relative Humidity 32%			
Sample Condition		Fit for Analysis	•			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	$\mu g/m^3$	55.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	25.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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 2



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

END OF THE REPORT
Please Contact:

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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SARL/25/2051

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,
Customer Name & Address	AndipattiTaluk, Theni District, 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-Andipatti Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2051	Sample Received on	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	$\mu g/m^3$	48.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	22.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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07.04.2025



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TEST REPORT

Report No.	SARL/25/2052	2	Report Date	. 07.04.2025
Customer Name &	Address	(President), At S.F.No.1432/3 (F	nnathiparai Kalieswari Kalludaikum Ma Part),Of Thimmarasanaickanur Bit- 2 Vi	
AndipattiTaluk, Theni District, Tamil Nadu State Sample Description AMBIENT AIR QUALITY				
Sampling Procedur		IS – 5182 (Part – 14: 2000	& Part – V: Reaffirmed - 2003)	, CPCB Guide lines
Sample Location A7-T.Renganavaram village				
Positioned height of	of Sampler	1.5 M above Ground Leve	1	
Customer Reference	ee	By Mail	Sampling Duration	24 hrs
Sample Reference	No	SARL/A/CHE-2052	Sample Received on	31.03.2025
Sample Collected b	ру	LABORATORY	Test Commenced on	31.03.2025
Sample Collected of	on	25.03.2025	Test Completed on	07.04.2025
Temperature		36°C	Relative Humidity	30%
Sample Condition		Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	57.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	26.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	12.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

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/25/20	053	Report D	ate.	07.04.2025	
			Tvl.Vannathiparai Kalieswari Kalludaikum			
Customer Name &	& Address	(President), At S.F.No.14 AndipattiTaluk, Theni D	432/3 (Part),Of Thimmarasanaickanur Bit-2	2 Village	,	
Sample Description	on	+ '	AMBIENT AIR QUALITY			
Sampling Procedu			IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines			
1 0			-			
Sample Location		A6-Andipatti Village				
Positioned height	of Sampler	1.5 M above Ground Level				
Customer Referen	ce	By Mail	Sampling Duration	1	24 hrs	
Sample Reference	No	SARL/A/CHE-2053	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	2	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	$\mu g/m^3$	50.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/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	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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

Research 45 pm

Authorized Signatory
S. BALAMURUGAN
END OF THE REPORT*

Aust. Technical Manager

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TEST REPORT

Report No.	SARL/25/20	054	Report Date.	07.04.2025
Customer Name	& Address		nathiparai Kalieswari Kalludaikum Magart),Of Thimmarasanaickanur Bit- 2 Vill amil Nadu State	
Sample Description AMBIENT AIR QUALITY				
Sampling Proceed	dure	IS – 5182 (Part – 14: 2000	& Part – V: Reaffirmed - 2003),	CPCB Guide lines
Sample Location	1	A7-T.Renganavaram villag	e	
Positioned heigh	nt of Sampler	1.5 M above Ground Level		
Customer Refere	ence	By Mail	Sampling Duration	24 hrs
Sample Reference	ce No	SARL/A/CHE-2054	Sample Received on	31.03.2025
Sample Collecte	d by	LABORATORY	Test Commenced on	31.03.2025
Sample Collecte	d on	26.03.2025	Test Completed on	07.04.2025
Temperature		37°C	Relative Humidity	21%
Sample Condition	on	Fit for Analysis		•

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	$\mu g/m^3$	52.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	24.4	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	μ 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

For Shrient Analytical and Research Labs Pvt. Ltd



Authorized Signatory S. BALAMURUGAN **END OF THE REPORT*** Asst.Technical Manager

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SARL/25/2055

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416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Report No.	2033	Report Date	7. 07:01:2023	
·		.		
Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description	AMBIENT AIR QUALITY	<i>T</i>		
Sampling Procedure	IS – 5182 (Part – 14: 2000	& Part – V: Reaffirmed - 2003)	, CPCB Guide lines	
_				
Sample Location	A3-Theppathupatty Village			
Positioned height of Sampler	1.5 M above Ground Level	·		
	•			
Customer Reference	By Mail	Sampling Duration	24 hrs	
Sample Reference No	SARL/A/CHE-2055	Sample Received on	31.03.2025	
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025	
Sample Collected on	27.03.2025	Test Completed on	07.04.2025	
Temperature	37°C	Relative Humidity	23%	
Sample Condition	Fit for Analysis		·	

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	44.6	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	$\mu g/m^3$	6.9	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/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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07.04.2025



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TEST REPORT

Report No. S	ARL/25/2056	Report Date. 07.04.2025		
		h Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala		
Customer Name & Address (President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,				
AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Description	AM	AMBIENT AIR QUALITY		
Sampling Procedure	IS –	5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines		
Sample Location	A4-7	Γ. Vadipatty Village		
Positioned height of Sar	mpler 1.5 l	M above Ground Level		

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2056	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	27.03.2025	Test Completed on	07.04.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	46.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m³	21.3	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	μg/m³	9.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/205	7	Report Date.	07.04.2025	
Customer Name & Address (Pre		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description		AMBIENT AIR QUALITY			
Sampling Procedure	Sampling Procedure IS		S – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines		
Sample Location A5		A5-Thoppampatti Village	-Thoppampatti Village		
Positioned height of Sampler 1.5		1.5 M above Ground Level	M above Ground Level		

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2057	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	$\mu g/m^3$	44.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	21.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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

END OF THE REPORT

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R Page 7 of 14



SARL/25/2058

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description	AMBIENT AIR QUALITY	7		
Sampling Procedure	IS – 5182 (Part – 14: 2000	& Part – V: Reaffirmed - 2003)), CPCB Guide lines	
Sample Location	A3-Theppathupatty Village			
Positioned height of Sampler	1.5 M above Ground Level			
	·			
Customer Reference	By Mail	Sampling Duration	24 hrs	
Sample Reference No	SARL/A/CHE-2058	Sample Received on	31.03.2025	
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025	
Sample Collected on	28.03.2025	Test Completed on	07.04.2025	
Temperature	36°C	Relative Humidity	30%	
Sample Condition	Fit for Analysis	•		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	43.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m³	20.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ 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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

Please Contact:

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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07.04.2025



416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/2	2059		Report Date.	07.04.2025
Customer Name & Address (Pre		(Presiden	ugh Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala esident), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, dipattiTaluk, Theni District, Tamil Nadu State		
			MBIENT AIR QUALITY		
Sampling Procedu	re	IS - 518	S – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines		
-					
Sample Location A		A4-T. V	4-T. Vadipatty Village		
Positioned height of Sampler 1.		1.5 M a	M above Ground Level		
1 obitioned neight (or sumpler	1.5 141 a	ore Grana Level		

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2059	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	28.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition Fit for Analysis			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	39.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	18.0	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	μg/m³	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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TEST REPORT

	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Thoppampatti Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2060	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	28.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	47.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	22.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

07.04.2025

Report Date.

Please Contact:

Report No.

SARL/25/2060

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SARL/25/2061

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416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description	AMBIENT AIR QUALITY	7		
Sampling Procedure	IS – 5182 (Part – 14: 2000	& Part – V: Reaffirmed - 2003)	, CPCB Guide lines	
Sample Location	A1-Project site core zone			
Positioned height of Sampler	1.5 M above Ground Level			
Customer Reference	By Mail	Sampling Duration	24 hrs	
Sample Reference No	SARL/A/CHE-2061	Sample Received on	31.03.2025	
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025	
Sample Collected on	29.03.2025	Test Completed on	07.04.2025	
Temperature	36°C	Relative Humidity	30%	
Sample Condition	Fit for Analysis	· •	·	

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	59.9	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	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	12.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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SARL/25/2062

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416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, 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-Anaikaraipatti village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2062	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	$\mu g/m^3$	42.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	20.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

07.04.2025

Report Date.

Please Contact:

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SARL/25/2063

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416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State				
Sample Description	AMBIENT AIR QUALITY				
Sampling Procedure	IS – 5182 (Part – 14: 2000 s	& Part – V: Reaffirmed - 2003)), CPCB Guide lines		
Sample Location	A1-Project site core zone				
Positioned height of Sampler	1.5 M above Ground Level				
Customer Reference	By Mail	Sampling Duration	24 hrs		
Sample Reference No	SARL/A/CHE-2063	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	$\mu g/m^3$	58.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	27.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	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/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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07.04.2025



SARL/25/2064

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

	Rough Stone Quarry Of Tvl. Vant	nathiparai Kalieswari Kalludaikum Ma	ngalir Sangam,Tmt.M.Parimala	
Customer Name & Address	(President), At S.F.No.1432/3 (Pa	art),Of Thimmarasanaickanur Bit- 2 V	illage,	
	AndipattiTaluk, Theni District, T	amil Nadu State		
Sample Description	AMBIENT AIR QUALITY	7		
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines			
Sample Location	A2-Anaikaraipatti village			
Positioned height of Sampler	1.5 M above Ground Level			
Customer Reference	By Mail	Sampling Duration	24 hrs	
Sample Reference No	SARL/A/CHE-2064	Sample Received on	31.03.2025	
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025	
Sample Collected on	30.03.2025	Test Completed on	07.04.2025	
Temperature	35°C	Relative Humidity	30%	
Sample Condition	Fit for Analysis			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	46.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	22.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ 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

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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07.04.2025



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TEST REPORT

Report No.		SARL/25/210	5		Report Date.	14.04.2025	
Customer Name	& A	ddress	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Descript	ion		AMBIENT AIR QUALITY				
Sampling Proce	dure		IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines				
Sample Location	1		A1-Project site core zone				
Positioned height of Sampler			1.5 M above Ground Level				
Customer Refer	ence		By Mail	Sampling I	Ouration	24 hrs	
Sample Referen	ce N	0	SARL/A/CHE-2105	Sample Re		07.04.2025	
Sample Collecte			LABORATORY	Test Comm	nenced on	07.04.2025	
Sample Collecte	d on		01.04.2025	Test Comp	leted on	14.04.2025	
Temperature			36°C	Relative H	umidity	25%	
Sample Condition Fit for Analysis							

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	61.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m³	28.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	13.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL(D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

Please Contact:

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

Page 1 of 14



Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/2106		Report Date.	14.04.2025	
Customer Name & Address		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village,			
	And	AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description	AM	AMBIENT AIR QUALITY			
Sampling Procedure	IS -	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines			
Sample Location		A2-Anaikaraipatti village			
Positioned height of Sampler		M above Ground Level			

Customer Reference	By Mail	Sampling Duration	24 hrs	
Sample Reference No	SARL/A/CHE-2106	Sample Received on	07.04.2025	
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025	
Sample Collected on	01.04.2025	Test Completed on	14.04.2025	
Temperature	36°C	Relative Humidity	25%	
Sample Condition Fit for Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	45.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m³	21.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd



Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2107		Report Da	ate.	14.04.2025	
Customer Name & A		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village,				
		pattiTaluk, Theni District,		, , , , , ,	-,	
Sample Description	AM	BIENT AIR QUALIT	Y			
Sampling Procedure	IS –	5182 (Part – 14: 2000	& Part – V: Reaffirmed - 200	03), Cl	PCB Guide lines	
					·	
Sample Location	A1-	A1-Project site core zone				
Positioned height of	Sampler 1.5	1.5 M above Ground Level				
	·					
Customer Reference	By	Mail	Sampling Duration		24 hrs	
Sample Reference N	lo SA	RL/A/CHE-2107	Sample Received on		07.04.2025	
Sample Collected by	LA	BORATORY	Test Commenced on		07.04.2025	
Sample Collected on		04.2025	Test Completed on		14.04.2025	
Temperature		С	Relative Humidity		27%	
Sample Condition		Fit for Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	66.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m³	30.4	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	$\mu g/m^3$	13.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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



Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

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SARL/25/2108

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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State			
Sample Description	AMBIENT AIR QUALITY	7		
Sampling Procedure	IS – 5182 (Part – 14: 2000	& Part – V: Reaffirmed - 2003)), CPCB Guide lines	
Sample Location	A2-Anaikaraipatti village			
Positioned height of Sampler	1.5 M above Ground Level			
Customer Reference	By Mail	Sampling Duration	24 hrs	
Sample Reference No	SARL/A/CHE-2108	Sample Received on	07.04.2025	
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025	
Sample Collected on	02.04.2025	Test Completed on	14.04.2025	
Temperature	34°C	Relative Humidity	28%	
Sample Condition	Fit for Analysis	•		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	43.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	20.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ 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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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14.04.2025



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TEST REPORT

Report No.	SARL/25/	2109		Report Date.	14.04.2025
		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,			
And		Andip	ndipattiTaluk, Theni District, Tamil Nadu State MBIENT AIR QUALITY		
			- 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines		
Sample Location	<u> </u>	A3-T	heppathupatty Village		
Positioned height of Sampler 1.5		1.5 N	M above Ground Level		

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2109	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	μ g/m ³	45.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	21.5	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	μg/m³	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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

END OF THE REPORT

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2110		1	Report Date.	14.04.2025	
		_				
Customer Name & Address (Pre		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State				
Sample Description	AM	BIENT AIR QUALITY				
Sampling Procedure	IS -	5182 (Part – 14: 2000 &	& Part – V: Reaffirm	ned - 2003), CF	PCB Guide lines	
Sample Location	A4-	A4-T. Vadipatty Village				
Positioned height of	Sampler 1.5	1.5 M above Ground Level				
Customer Reference	Ву	Mail	Sampling Du	ration	24 hrs	
Sample Reference N	o SA	RL/A/CHE-2110	Sample Rece	ived on	07.04.2025	
Sample Collected by	LA	BORATORY	Test Commer	nced on	07.04.2025	
Sample Collected on	03.	04.2025	Test Complet	ted on	14.04.2025	
Temperature	Temperature 36°C		Relative Hun	nidity	27%	
Sample Condition	Fit	Fit for Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	41.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	19.1	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	μ g/m ³	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Chercus 43 2 ***END OF THE REPORT***

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/21	11	Report Date.	14.04.2025	
		·			
Customer Name	er Addraga		nathiparai Kalieswari Kalludaikum Maga art),Of Thimmarasanaickanur Bit- 2 Villa		
Customer Name	& Address	AndipattiTaluk, Theni District, T		ige,	
Sample Descript	ion	AMBIENT AIR QUALITY	7		
Sampling Proceed	lure	IS – 5182 (Part – 14: 2000	& Part – V: Reaffirmed - 2003), 0	CPCB Guide lines	
Sample Location	l	A5-Thoppampatti Village			
Positioned heigh	t of Sampler	1.5 M above Ground Level			
Customer Refere	ence	By Mail	Sampling Duration	24 hrs	
Sample Reference	e No	SARL/A/CHE-2111	Sample Received on	07.04.2025	
Sample Collecte	d by	LABORATORY	Test Commenced on	07.04.2025	
Sample Collecte	d on	03.04.2025	Test Completed on	14.04.2025	
Temperature	·	36°C	Relative Humidity	27%	
Sample Condition	on	Fit for Analysis	·	·	

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	53.3	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	μ g/m ³	12.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

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SARL/25/2112

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TEST REPORT

Report No.	72112	Report Date	7. 110112025		
		nnathiparai Kalieswari Kalludaikum Ma			
Customer Name & Address		Part),Of Thimmarasanaickanur Bit- 2 V	illage,		
	AndipattiTaluk, Theni District,				
Sample Description	AMBIENT AIR QUALIT	Ϋ́			
Sampling Procedure	IS – 5182 (Part – 14: 2000	0 & Part – V: Reaffirmed - 2003)	, CPCB Guide lines		
	•				
Sample Location A3-Theppathupatty Village					
Positioned height of Sampler	1.5 M above Ground Level				
Customer Reference	By Mail	Sampling Duration	24 hrs		
Sample Reference No	SARL/A/CHE-2112	Sample Received on	07.04.2025		
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025		
Sample Collected on	04.04.2025	Test Completed on	14.04.2025		
Temperature	36°C	Relative Humidity	27%		
Sample Condition	Fit for Analysis	-			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	43.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	20.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ 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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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14.04.2025



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TEST REPORT

Report No.	SARL/25/2113			Report Date.	14.04.2025	
		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt.M.Parimala (President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,				
Sample Description		pattiTaluk, Theni District, BIENT AIR QUALIT				
Sampling Procedure	IS –	5182 (Part – 14: 2000) & Part – V: Reaffii	rmed - 2003), C	PCB Guide lines	
Sample Location Positioned height of		A4-T. Vadipatty Village 1.5 M above Ground Level				
Tostronea neight of	Sumpler 1.5 I	Tuoove Ground Leve				
Customer Reference	By	Mail	Sampling D	uration	24 hrs	
Sample Reference N	o SAl	RL/A/CHE-2113	Sample Rec	eived on	07.04.2025	
Sample Collected by	LA	BORATORY	Test Comme	enced on	07.04.2025	
Sample Collected on	04.0	04.2025 Test Completed on		eted on	14.04.2025	
Temperature	36°	C	Relative Hu	midity	28%	
Sample Condition	Fit	for Analysis		•		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	$\mu g/m^3$	45.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	20.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

END OF THE REPORT

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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SARL/25/2114

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

		nathiparai Kalieswari Kalludaikum Ma			
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,				
	AndipattiTaluk, Theni District, T				
Sample Description	AMBIENT AIR QUALITY				
Sampling Procedure	IS – 5182 (Part – 14: 2000 c	& Part – V: Reaffirmed - 2003)	, CPCB Guide lines		
	•	•	·		
Sample Location	A5-Thoppampatti Village	·	<u> </u>		
Positioned height of Sampler	1.5 M above Ground Level				
Customer Reference	By Mail	Sampling Duration	24 hrs		
Sample Reference No	SARL/A/CHE-2114	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	26%		
Sample Condition	Fit for Analysis	-			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	46.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	21.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ 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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory S. BALAMURUGAN Asst. Technical Manager

Please Contact:

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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14.04.2025



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TEST REPORT

Report No.	SARL/25/2	2115	Rej	ort Date.	14.04.2025	
Customer Name	& Address	(President), At S.F.No.	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Descript	ion	AMBIENT AIR QU				
Sampling Proced	ure	IS – 5182 (Part – 14	4: 2000 & Part – V: Reaffirmed	1 - 2003), C	PCB Guide lines	
		·		•		
Sample Location		A6-Andipatti Villa	A6-Andipatti Village			
Positioned heigh	t of Sampler	1.5 M above Groun	1.5 M above Ground Level			
		<u>. </u>				
Customer Refere	nce	By Mail	Sampling Durat	ion	24 hrs	
Sample Reference	e No	SARL/A/CHE-211	5 Sample Receive	d on	07.04.2025	
Sample Collected	d by	LABORATORY	Test Commence	ed on	07.04.2025	
Sample Collected	d on	05.04.2025	Test Completed	on	14.04.2025	
Temperature 36		36°C	Relative Humid	ity	28%	
Sample Condition Fig		Fit for Analysis	Fit for Analysis			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	55.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	25.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	13.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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TEST REPORT

Report No.	SARL/25/21	16	Report Date.	14.04.2025		
Customer Name & Address		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State				
Sample Descript	ion	AMBIENT AIR QUAL	ITY			
Sampling Proceed	lure	IS - 5182 (Part - 14: 20	00 & Part – V: Reaffirmed - 2003), 0	CPCB Guide lines		
Sample Location	1	A7-T.Renganavaram village				
Positioned heigh	t of Sampler	1.5 M above Ground Level				
Customer Refere	ence	By Mail	Sampling Duration	24 hrs		
Sample Reference	ce No	SARL/A/CHE-2116	Sample Received on	07.04.2025		
Sample Collecte	d by	LABORATORY	Test Commenced on	07.04.2025		
Sample Collecte	d 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	$\mu g/m^3$	49.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	22.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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



Task **Authorized Signatory** S. BALAMURUGAN Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2117		Report D	ate.	14.04.2025		
Customer Name & Address		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State					
Sample Description		IBIENT AIR QUALIT					
Sampling Procedure	IS-	- 5182 (Part – 14: 2000	& Part – V: Reaffirmed - 200)3), CF	CB Guide lines		
		· · · · · · · · · · · · · · · · · · ·					
Sample Location		A6-Andipatti Village					
Positioned height of Sampler		1.5 M above Ground Level					
Customer Reference	Ву	Mail	Sampling Duration		24 hrs		
Sample Reference N	o SA	RL/A/CHE-2117	Sample Received on		07.04.2025		
Sample Collected by	LA	BORATORY	Test Commenced on		07.04.2025		
Sample Collected or	06	.04.2025	Test Completed on		14.04.2025		
Temperature		°C	•		32%		
Sample Condition	Fit	Fit for Analysis					

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	52.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	24.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/	2118	Report 1	Date.	14.04.2025		
Customer Name	& Address		Tvl.Vannathiparai Kalieswari Kalludaikur 432/3 (Part),Of Thimmarasanaickanur Bit- istrict, Tamil Nadu State				
Sample Description	ion	AMBIENT AIR QU	ALITY				
Sampling Proced	ure	IS – 5182 (Part – 14	: 2000 & Part – V: Reaffirmed - 20	003), Cl	PCB Guide lines		
		·					
Sample Location		A7-T.Renganavaran	A7-T.Renganavaram village				
Positioned height of Sampler		1.5 M above Ground	1.5 M above Ground Level				
Customer Refere	nce	By Mail	Sampling Duration		24 hrs		
Sample Reference	e No	SARL/A/CHE-2118	Sample Received on		07.04.2025		
Sample Collected by		LABORATORY	Test Commenced on		07.04.2025		
Sample Collected on		06.04.2025	.2025 Test Completed on		14.04.2025		
Temperature		35°C	Relative Humidity		32%		
Sample Condition		Fit for Analysis					

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	52.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	24.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	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/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst. Technical Manager

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SARL/25/2159

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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, 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-Andipatti Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2159	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	$\mu g/m^3$	55.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	25.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	13.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Charried - 45 by ***END OF THE REPORT***

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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21.04.2025



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TEST REPORT

Report No.	SARL/25/2160			Report Date.	21.04.2025	
<u></u>	l p	1 G O O O O T 1 W	d' 'TZ 1' 'TZ	7 11 1 21 3 4 12		
Customer Name & Address		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State				
Sample Description	AM	BIENT AIR QUALITY				
Sampling Procedure	IS –	5182 (Part - 14: 2000 &	Part – V: Reaffi	rmed - 2003), C	PCB Guide lines	
			_	_		
Sample Location		A7-T.Renganavaram village				
Positioned height of Sampler		1.5 M above Ground Level				
Customer Reference	By	Mail	Sampling D	uration	24 hrs	
Sample Reference N	o SAI	RL/A/CHE-2160	Sample Rec	eived on	14.04.2025	
Sample Collected by	LA	BORATORY	Test Comm	enced on	14.04.2025	
Sample Collected on		04.2025	Test Compl	eted on	21.04.2025	
Temperature	36°	C	Relative Hu	midity	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	$\mu g/m^3$	58.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	26.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	13.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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SARL/25/2161

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TEST REPORT

Report Date.

21.04.2025

	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Andipatti Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs	
Sample Reference No	SARL/A/CHE-2161	Sample Received on	14.04.2025	
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025	
Sample Collected on	09.04.2025	Test Completed on	21.04.2025	
Temperature	37°C	Relative Humidity	21%	
Sample Condition Fit for Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	53.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	24.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	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

For Shrient Analytical and Research Labs Pvt. Ltd





Authorized Signatory
S. BALAMURUGAN
END OF THE REPORT

ABSL. Technical Manager

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TEST REPORT

Report No.	SARL/25/210	52	Repo	rt Date.	21.04.2025	
Customer Name &	Address	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State				
Sample Description	n	AMBIENT AIR QUALI	,			
Sampling Procedur			00 & Part – V: Reaffirmed -	· 2003), C	PCB Guide lines	
Sample Location		A7-T.Renganavaram village				
Positioned height of	of Sampler	1.5 M above Ground Level				
Customer Reference	ee	By Mail	Sampling Duration	n	24 hrs	
Sample Reference	No	SARL/A/CHE-2162	Sample Received	on	14.04.2025	
Sample Collected b	by	LABORATORY	Test Commenced	on	14.04.2025	
Sample Collected of	on	09.04.2025	Test Completed or	n	21.04.2025	
Temperature		37°C	Relative Humidity	I	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	$\mu g/m^3$	56.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	26.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	12.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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
END OF THE REPORT*
Authorized Signatory
S. BALAMURUGAN
Authorized Signatory
S. BALAMURUGAN

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TEST REPORT

Report No.	1	SARL/25/2163	3	Report 1	Date.	21.04.2025	
C . N	0 4 1			nathiparai Kalieswari Kalludaikur			
Customer Name	& Ad		(President), At S.F.No.1432/3 (Pa AndipattiTaluk, Theni District, T	art),Of Thimmarasanaickanur Bit- amil Nadu State	- 2 Villaş	ge,	
Sample Descript	ion		AMBIENT AIR QUALITY				
Sampling Proceed				& Part – V: Reaffirmed - 20	003), C	PCB Guide lines	
1 8		1	(
Sample Location	1		A3-Theppathupatty Village				
Positioned heigh	t of Sa	ampler	1.5 M above Ground Level				
		<u> </u>					
Customer Refere	ence		By Mail	Sampling Duration		24 hrs	
Sample Reference	ce No		SARL/A/CHE-2163	Sample Received on		14.04.2025	
Sample Collecte	d by		LABORATORY	Test Commenced on	-	14.04.2025	
Sample Collecte	d on		10.04.2025	Test Completed on		21.04.2025	
Temperature			37°C	Relative Humidity		23%	
Sample Condition	n		Fit for Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀) IS:5182: Part 23:2006		μg/m³	46.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	21.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/2164	Report Date. 21.04.2025			
		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala			
Customer Name & Address		(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,			
		ndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description	AM	AMBIENT AIR QUALITY			
Sampling Procedure	IS –	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines			
Sample Location		A4-T. Vadipatty Village			
Positioned height of Sampler		5 M above Ground Level			
-					

Customer Reference	By Mail	Sampling Duration	24 hrs	
Sample Reference No	SARL/A/CHE-2164	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	$\mu g/m^3$	39.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	18.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com Terms and conditions:

The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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Sample Condition

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TEST REPORT

Report No.	SARL/25/216	5	Report I	Date.	21.04.2025	
Customer Name	& Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Descript	ion	AMBIENT AIR QUALIT	Y			
Sampling Proced	lure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines				
Sample Location	1	A5-Thoppampatti Village				
Positioned heigh	t of Sampler	1.5 M above Ground Level	ve Ground Level			
Customer Refere	ence	By Mail	Sampling Duration		24 hrs	
Sample Reference	ce No	SARL/A/CHE-2165	Sample Received on		14.04.2025	
Sample Collected	d by	LABORATORY	Test Commenced on		14.04.2025	
Sample Collected	d on	10.04.2025	Test Completed on		21.04.2025	
Temperature		37°C	Relative Humidity		23%	

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	48.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	25.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ 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

For Shrient Analytical and Research Labs Pvt. Ltd

END OF THE REPORT*

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

Fit for Analysis

The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the tentest setted (3) The test report must be reported as the produced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

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TEST REPORT

Report No.	SARL/25/2166		Report Date.	21.04.2025		
Customer Name &	Address (Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Descriptio	n A	AMBIENT AIR QUALITY	7			
Sampling Procedu	re I	S - 5182 (Part - 14: 2000	& Part – V: Reaffirmed - 2003), 0	CPCB Guide lines		
Sample Location	1	A3-Theppathupatty Village				
Positioned height	of Sampler	1.5 M above Ground Level				
Customer Referen	ce	By Mail	Sampling Duration	24 hrs		
Sample Reference	No	SARL/A/CHE-2166	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%		30%		
Sample Condition Fit for Analysis						

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	41.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	19.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ 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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/2167			Report Date.	21.04.2025
Customer Name & Address (President President P			Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, and patti Taluk, Theni District, Tamil Nadu State		
Sample Description AMBIENT AIR QUALITY					
Sampling Procedu	re	IS – :	- 5182 (Part - 14: 2000 & Part - V: Reaffirmed - 2003), CPCB Guide lines		
Sample Location A4		A4-T	-T. Vadipatty Village		
Positioned height of Sampler 1.5 M		M above Ground Level			

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2167	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	$\mu g/m^3$	49.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	22.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m ³	10.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Reaction 45 by ***END OF THE REPORT***

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, 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-Thoppampatti Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2168	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	11.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition Fit for Analysis			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	52.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m³	24.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Report Date.

21.04.2025

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R
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TEST REPORT

Report No.		SARL/25/216	59			Report Date.	21.04.2025
					_		
Customer Name & Address			Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State				
Sample Descript	ion			AIR QUALITY			
Sampling Proced	lure		IS – 5182 (P	eart – 14: 2000	& Part – V: Reaffir	med - 2003), CI	PCB Guide lines
						·	
Sample Location A1-Project site core zone							
Positioned height of Sampler 1.			1.5 M above Ground Level				
Customer Refere	nce		By Mail		Sampling D	uration	24 hrs
Sample Reference	e N	0	SARL/A/CI	HE-2169	Sample Reco	eived on	14.04.2025
Sample Collected	d by		LABORAT	ORY	Test Comme	enced on	14.04.2025
Sample Collected	d on		12.04.2025		Test Comple	Test Completed on 21.04	
Temperature			36°C	Relative Humidity 30%			30%
Sample Condition		Fit for Analysis					

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	62.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	28.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	13.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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SARL/25/2170

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, 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-Anaikaraipatti village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2170	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	$\mu g/m^3$	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	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Character 43 5 *** END OF THE REPORT***

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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21.04.2025



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TEST REPORT

Report No.	SARL/25/21	71		Report Date.	21.04.2025
Customer Name	O. Addmaga		f Tvl. Vannathiparai Kalieswari l		
Customer Name	& Address		1432/3 (Part),Of Thimmarasanai District, Tamil Nadu State	ickanur Bit- 2 Villaş	ge,
Sample Descripti	ion	AMBIENT AIR Q	UALITY		
Sampling Proced	ure	IS - 5182 (Part - 1	4: 2000 & Part – V: Reaffi	irmed - 2003), C	PCB Guide lines
Sample Location		A1-Project site cor	e zone		
Positioned heigh	t of Sampler	1.5 M above Ground Level			
Customer Refere	nce	By Mail	Sampling D	Ouration	24 hrs
Sample Reference	e No	SARL/A/CHE-21	71 Sample Rec	ceived on	14.04.2025
Sample Collected	d by	LABORATORY	Test Comm	nenced on	14.04.2025
Sample Collected	d on	13.04.2025	Test Compl	leted on	21.04.2025
Temperature		35°C	Relative Hu	umidity	30%
Sample Conditio	n	Fit for Analysis	·	·	·

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	60.4	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	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

END OF THE REPORT*

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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SARL/25/2172

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Anaikaraipatti village

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2172	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 μ		μg/m ³	47.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m³	23.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com Terms and conditions:

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21.04.2025



416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/2213			Report Date.	28.04.2025
	Roug	h Stone Quarry Of Tyl Va	nnathinarai Kalieswari K	alludaikum Magali	r Sangam Tmt M Parimala
Customer Name & Address		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description	AM	BIENT AIR QUALIT	Ϋ́		
Sampling Procedure	IS –	5182 (Part - 14: 2000) & Part – V: Reaffir	med - 2003), C	PCB Guide lines
Sample Location	A1-	Project site core zone			
Positioned height of	Sampler 1.5	1.5 M above Ground Level			
Customer Reference	By	Mail	Sampling Du	ıration	24 hrs
Sample Reference N	o SAl	RL/A/CHE-2213	Sample Rece	eived on	21.04.2025
Sample Collected by	LA	BORATORY	Test Comme	nced on	21.04.2025
Sample Collected on	15.0	04.2025	Test Comple	ted on	28.04.2025
Temperature	36°	C	Relative Hur	nidity	25%
Sample Condition	Fit	for Analysis	•		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	55.8	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	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL(D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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SARL/25/2214

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Trop of the trop		
G . N. 0 4 11		n Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala
Customer Name & Address	s (Presi	dent), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,
	Andip	pattiTaluk, Theni District, Tamil Nadu State
Sample Description	AMI	BIENT AIR QUALITY
Sampling Procedure	IS –	5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines
Sample Location	A2-A	Anaikaraipatti village
Positioned height of Sampl	er 1.5 N	A above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2214	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 1		41.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	20.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	3.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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28.04.2025



416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/2215		Repo	ort Date.	28.04.2025
	1-	1.0. 0.000.111			
Customer Name & Address		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State			
Sample Description	A	MBIENT AIR QUALITY	Y		
Sampling Procedure	e IS	-5182 (Part - 14: 2000	& Part – V: Reaffirmed	- 2003), C	PCB Guide lines
	_				
Sample Location	A	1-Project site core zone			
Positioned height of	Sampler 1.	1.5 M above Ground Level			
Customer Reference	B	y Mail	Sampling Duration	on	24 hrs
Sample Reference N	No S	ARL/A/CHE-2215	Sample Received	on	21.04.2025
Sample Collected by	y L	ABORATORY	Test Commenced	on	21.04.2025
Sample Collected or	n 10	6.04.2025	Test Completed of	on	28.04.2025
Temperature	30	6°C	Relative Humidit	y	27%
Sample Condition	F	it for Analysis			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	57.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m³	26.3	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	$\mu g/m^3$	12.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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SARL/25/2216

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416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

		nathiparai Kalieswari Kalludaikum Ma			
Customer Name & Address		art),Of Thimmarasanaickanur Bit- 2 V	illage,		
	-	AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description	AMBIENT AIR QUALITY				
Sampling Procedure	IS – 5182 (Part – 14: 2000 c	& Part – V: Reaffirmed - 2003)	, CPCB Guide lines		
Sample Location	A2-Anaikaraipatti village				
Positioned height of Sampler	1.5 M above Ground Level				
Customer Reference	By Mail	Sampling Duration	24 hrs		
Sample Reference No	SARL/A/CHE-2216	Sample Received on	21.04.2025		
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025		
Sample Collected on	16.04.2025	Test Completed on	28.04.2025		
Temperature	34°C	Relative Humidity	28%		
Sample Condition	Fit for Analysis	-			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	44.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	21.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ 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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified 2



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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28.04.2025



Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/2217	Report Date. 28.04.2025		
Customer Name & Address (Pres		ough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala resident), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, and ipattiTaluk, Theni District, Tamil Nadu State		
Sample Description	A	IBIENT AIR QUALITY		
Sampling Procedure	I	– 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines		
Sample Location A3-7		Theppathupatty Village		
Positioned height of Sampler 1.5		M above Ground Level		

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2217	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	17.04.2025	Test Completed on	28.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition Fit for Analysis			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	48.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	22.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	8.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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

END OF THE REPORT

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

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> LAB SERVICES FOR: Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/22	18	Report Date	28.04.2025		
Customer Name & Address		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State				
Sample Descript	ion	AMBIENT AIR QUALIT				
Sampling Proceed	lure	IS - 5182 (Part - 14: 2000	& Part – V: Reaffirmed - 2003),	CPCB Guide lines		
Sample Location	1	A4-T. Vadipatty Village				
Positioned heigh	t of Sampler	1.5 M above Ground Level				
		<u> </u>				
Customer Refere	ence	By Mail	Sampling Duration	24 hrs		
Sample Reference	ce No	SARL/A/CHE-2218	Sample Received on	21.04.2025		
Sample Collecte	d 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	on	Fit for Analysis	-			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	45.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	20.6	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	μ 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

For Shrient Analytical and Research Labs Pvt. Ltd

END OF THE REPORT

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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Page 6 of 14



Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/	2219		Report Date.	28.04.2025		
C + N	0 4 1 1		y Of Tvl. Vannathiparai Kalieswar				
Customer Name	& Address		No.1432/3 (Part), Of Thimmarasan eni District, Tamil Nadu State	aickanur Bit- 2 Villa	ge,		
Sample Descript	zion	AMBIENT AII					
Sampling Proces			- 14: 2000 & Part – V: Reaf	firmed - 2003). C	PCB Guide lines		
Sample Location	1	A5-Thoppampa	A5-Thoppampatti Village				
Positioned heigh	t of Sampler	1.5 M above Gr	1.5 M above Ground Level				
Customer Refere	ence	By Mail	Sampling	Duration	24 hrs		
Sample Referen	ce No	SARL/A/CHE	Sample Ro	eceived on	21.04.2025		
Sample Collecte	d by	LABORATOR	Y Test Com	menced on	21.04.2025		
Sample Collecte	d on	17.04.2025	Test Com	pleted on	28.04.2025		
Temperature		36°C	Relative H	Iumidity	27%		
	on	Fit for Analysi					

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	47.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	22.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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

END OF THE REPORT

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

Please Contact:

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SARL/25/2220

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description	AMBIENT AIR QUALITY			
Sampling Procedure	IS – 5182 (Part – 14: 2000 s	& Part – V: Reaffirmed - 2003)	, CPCB Guide lines	
Sample Location	A3-Theppathupatty Village			
Positioned height of Sampler	1.5 M above Ground Level			
-	•			
Customer Reference	By Mail	Sampling Duration	24 hrs	
Sample Reference No	SARL/A/CHE-2220	Sample Received on	21.04.2025	
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025	
Sample Collected on	18.04.2025	Test Completed on	28.04.2025	
Temperature	36°C	Relative Humidity	27%	
Sample Condition	Fit for Analysis	•		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	45.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	21.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ 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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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28.04.2025



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TEST REPORT

Report No.	SARL/25/2221		Repor	t Date.	28.04.2025	
Customer Name &	Address (Pre	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State				
Sample Description	AM	IBIENT AIR QUALIT	Y			
Sampling Procedure	e IS -	- 5182 (Part – 14: 2000	& Part – V: Reaffirmed -	2003), C	PCB Guide lines	
Sample Location	A4-	A4-T. Vadipatty Village				
Positioned height of	f Sampler 1.5	1.5 M above Ground Level				
Customer Reference	e By	Mail	Sampling Duration	l	24 hrs	
Sample Reference N	No SA	RL/A/CHE-2221	Sample Received of	on	21.04.2025	
Sample Collected by	y LA	BORATORY	Test Commenced of	on	21.04.2025	
Sample Collected or	n 18.	04.2025	Test Completed on	Į.	28.04.2025	
Temperature	369	°C	Relative Humidity		28%	
Sample Condition	Fit	Fit for Analysis				
zumpre zonamon	110	1011111111111111				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	40.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	18.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd



Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

Please Contact:

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TEST REPORT

Report No.	SARL/25/22	222	Report Da	te. 28.04.2025		
			.Vannathiparai Kalieswari Kalludaikum N			
Customer Name &	¿ Address	(President), At S.F.No.1432 AndipattiTaluk, Theni Distr	2/3 (Part), Of Thimmarasanaickanur Bit- 2	Village,		
Sample Description	on	AMBIENT AIR QUAI	,			
Sampling Procedu		,,,	000 & Part – V: Reaffirmed - 2003	3), CPCB Guide lines		
				- //		
Sample Location		A5-Thoppampatti Village				
Positioned height	of Sampler	1.5 M above Ground Level				
	-					
Customer Referen	ice	By Mail	Sampling Duration	24 hrs		
Sample Reference	No	SARL/A/CHE-2222	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	26%		
Sample Condition		Fit for Analysis	•			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	51.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	24.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/2223		Re	port Date.	28.04.2025	
	Rou	gh Stone Quarry Of Tvl.Vann	nathiparai Kalieswari Kallu	daikum Magali	r Sangam,Tmt.M.Parimala	
Customer Name & A		(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Description	AM	IBIENT AIR QUALITY	7			
Sampling Procedure	IS -	- 5182 (Part – 14: 2000 d	& Part – V: Reaffirme	d - 2003), Cl	PCB Guide lines	
Sample Location	A6	A6-Andipatti Village				
Positioned height of	Sampler 1.5	1.5 M above Ground Level				
	·					
Customer Reference	Ву	Mail	Sampling Durat	tion	24 hrs	
Sample Reference N	o SA	RL/A/CHE-2223	Sample Receive	ed on	21.04.2025	
Sample Collected by	LA	BORATORY	Test Commence	ed on	21.04.2025	
Sample Collected or	19	.04.2025	Test Completed	lon	28.04.2025	
Temperature	36	°C	Relative Humid	lity	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	$\mu g/m^3$	26.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	13.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

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.	SA	ARL/25/2224		Report Date.	28.04.2025		
				-			
C + N	0 4 1 1			nathiparai Kalieswari Kalludaikum Mag			
Customer Name	& Addr		sident), At S.F.No.1432/3 (Pa ipattiTaluk, Theni District, T	art),Of Thimmarasanaickanur Bit- 2 Vill	lage,		
Sample Descript	tion		IBIENT AIR QUALITY				
Sampling Proce				& Part – V: Reaffirmed - 2003),	CPCB Guide lines		
1 8				//			
Sample Location			A7-T.Renganavaram village				
Positioned heigh	nt of Sam	pler 1.5	1.5 M above Ground Level				
		<u> </u>					
Customer Refere	ence	By	Mail	Sampling Duration	24 hrs		
Sample Referen	ce No	SA	RL/A/CHE-2224	Sample Received on	21.04.2025		
Sample Collecte	ed by	LA	BORATORY	Test Commenced on	21.04.2025		
Sample Collecte	ed on	19.	04.2025	Test Completed on	28.04.2025		
Temperature		36°	°C	Relative Humidity	28%		
Sample Condition		Eit	for Analysis	•			

S. 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	μg/m ³	23.3	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	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Andipatti Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2225	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	20.04.2025	Test Completed on	28.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis	-	

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	55.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	25.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	μ g/m ³	5.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	13.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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28.04.2025



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TEST REPORT

Report No.	SARL/25/22	26		Report Date.	28.04.2025		
Contains Name 0	- A 14		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,				
Customer Name & Address		AndipattiTaluk, Theni Dist		ickanur Bit- 2 Villag	ge,		
Sample Description	n	AMBIENT AIR QUA	LITY				
Sampling Procedu	re	IS – 5182 (Part – 14: 2	2000 & Part – V: Reaff	irmed - 2003), C	PCB Guide lines		
Sample Location		A7-T.Renganavaram village					
Positioned height	of Sampler	1.5 M above Ground Level					
Customer Referen	ce	By Mail	Sampling I	Ouration	24 hrs		
Sample Reference	No	SARL/A/CHE-2226	Sample Rec	ceived on	21.04.2025		
Sample Collected	by	LABORATORY	Test Comm	nenced on	21.04.2025		
Sample Collected	on	20.04.2025	Test Comp	leted on	28.04.2025		
Temperature		35°C	Relative Hu	umidity	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	$\mu g/m^3$	54.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	25.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst. Technical Manager

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SARL/25/2267

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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Andipatti Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2267	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	μg/m ³	22.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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05.05.2025



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TEST REPORT

Report No.	SARL/25/226	58	Report Date.	05.05.2025		
Customer Name	& Address		nathiparai Kalieswari Kalludaikum Magart),Of Thimmarasanaickanur Bit- 2 Vill			
Sample Descript	ion	AndipattiTaluk, Theni District, Tamil Nadu State AMBIENT AIR QUALITY				
Sampling Proceed		`	& Part – V: Reaffirmed - 2003),	CPCB Guide lines		
Cample I andian		47 T D 11				
Sample Location Positioned heigh		A7-T.Renganavaram village 1.5 M above Ground Level				
r servened neigh	01 2 mp 1 01	The first decree of the first state of the first st				
Customer Refere	ence	By Mail	Sampling Duration	24 hrs		
Sample Reference	ce No	SARL/A/CHE-2268	Sample Received on	29.04.2025		
Sample Collecte	d by	LABORATORY	Test Commenced on	29.04.2025		
Sample Collecte	•	22.04.2025	Test Completed on	05.05.2025		
Temperature		36°C	Relative Humidity	30%		
Sample Condition		Fit for Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	58.9	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	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	13.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd



Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

Please Contact:

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SARL/25/2269

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TEST REPORT

Report Date.

05.05.2025

•	
	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Andipatti Village

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2269	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	$\mu g/m^3$	50.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m ³	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd





Authorized Signatory
S. BALAMURUGAN
END OF THE REPORT Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/	2270			Report Date.	05.05.2025	
						ir Sangam,Tmt.M.Parimala	
Customer Name	& Address		dent), At S.F.No.1432/3 (Pa pattiTaluk, Theni District, T		ckanur Bit- 2 Villag	ge,	
Sample Descript	ion		BIENT AIR QUALITY				
Sampling Proceed			5182 (Part – 14: 2000)		rmed - 2003), C	PCB Guide lines	
<u>-</u>		1	- (· · - · · ·				
Sample Location	1	A7-7	A7-T.Renganavaram village				
Positioned heigh	t of Sampler	1.5 N	A above Ground Level				
	*						
Customer Refere	ence	By I	Mail	Sampling D	uration	24 hrs	
Sample Reference	ce No	SAF	RL/A/CHE-2270	Sample Rec	eived on	29.04.2025	
Sample Collecte	d by	LAF	BORATORY	Test Comm	enced on	29.04.2025	
Sample Collecte	d on	23.0	4.2025	Test Compl	eted on	05.05.2025	
Temperature		37°C		Relative Hu	midity	21%	
Sample Condition	on	Fit f	or Analysis	<u>. </u>			
Sample Condition	on	Fit f	or Analysis				
S							

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	56.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	25.9	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	$\mu g/m^3$	12.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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
END OF THE REPORT*

Aust. Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/2271		Report Date.	05.05.2025		
Customer Name & Address		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Description	AN	AMBIENT AIR QUALITY				
Sampling Procedure		IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines				
Sample Location		A3-Theppathupatty Village				
Positioned height of Sampler		1.5 M above Ground Level				

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2271	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	$\mu g/m^3$	47.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	22.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	8.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	11.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2272				Report Date.	05.05.2025
Customer Name & Address (Presi		ough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, and ipattiTaluk, Theni District, Tamil Nadu State				
Sample Description	Sample Description AMI			MBIENT AIR QUALITY		
Sampling Procedure IS		IS – :	5 – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines			
Sample Location		A4-T	-T. Vadipatty Village			
Positioned height of Sampler 1.5		1.5 N	M above Ground Level			

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2272	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	$\mu g/m^3$	51.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m³	23.9	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	μg/m³	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.		SARL/25/227	73		Report Date.	05.05.2025	
Customer Name & Address		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State					
Sample Descript	ion		AMBIENT AIR Q				
Sampling Proceed				4: 2000 & Part – V: Reaf	firmed - 2003), C	PCB Guide lines	
Sample Location			A5-Thoppampatti Village				
Positioned heigh	t of	Sampler	1.5 M above Ground Level				
Customer Refere	nce		By Mail	Sampling	Duration	24 hrs	
Sample Reference	e N	0	SARL/A/CHE-227	73 Sample Re	eceived on	29.04.2025	
Sample Collecte	d by		LABORATORY	Test Com	menced on	29.04.2025	
Sample Collecte	d on		24.04.2025	Test Com	pleted on	05.05.2025	
Temperature			37°C	Relative H	Iumidity	23%	
Sample Condition	n		Fit for Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	49.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	23.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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SARL/25/2274

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TEST REPORT

	D 10: 0 00T 11	4' '77 1' '77 11 1 '1 3 6	1' G T 1 . 1	
Customer Name & Address		nathiparai Kalieswari Kalludaikum Ma		
Customer Name & Address	Customer Name & Address (President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description	AMBIENT AIR QUALITY	7		
Sampling Procedure	IS – 5182 (Part – 14: 2000 a	& Part – V: Reaffirmed - 2003)	, CPCB Guide lines	
Sample Location	A3-Theppathupatty Village			
Positioned height of Sampler	1.5 M above Ground Level			
	·			
Customer Reference	By Mail	Sampling Duration	24 hrs	
Sample Reference No	SARL/A/CHE-2274	Sample Received on	29.04.2025	
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025	
Sample Collected on	25.04.2025	Test Completed on	05.05.2025	
Temperature	36°C	Relative Humidity	30%	
Sample Condition	Fit for Analysis			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	42.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	19.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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05.05.2025



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TEST REPORT

Report No.	SARL/25/2275		Report Date.	05.05.2025			
Customer Name & Address		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State					
Sample Description		AMBIENT AIR QUALITY					
Sampling Procedure		IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines					
Sample Location		4-T. Vadipatty Village					
Positioned height of Sampler		1.5 M above Ground Level					

Customer Reference	By Mail	Sampling Duration	24 hrs	
Sample Reference No	SARL/A/CHE-2275	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	$\mu g/m^3$	47.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	21.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

END OF THE REPORT*

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2276		Report Dat	e. 05.05.2025	
Customer Name & Address		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State			
Sample Description	A	AMBIENT AIR QUALITY			
Sampling Procedure	IS	- 5182 (Part - 14: 2000	& Part - V: Reaffirmed - 2003), CPCB Guide lines	
Sample Location		A5-Thoppampatti Village			
Positioned height of Sampler		1.5 M above Ground Level			
Customer Reference	В	y Mail	Sampling Duration	24 hrs	
Sample Reference No		ARL/A/CHE-2276	Sample Received on	29.04.2025	
Sample Collected by		ABORATORY	Test Commenced on	29.04.2025	
Sample Collected on		5.04.2025	4.2025 Test Completed on 05.05.20		
Temperature		6°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	μg/m ³	24.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.		SARL/25/227	7	Report Dat	e. 05.05.2025	
			Rough Stone Quarry Of Tvl.Va	nnathiparai Kalieswari Kalludaikum M	agalir Sangam,Tmt.M.Parimala	
Customer Name & Address		(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State				
		AMBIENT AIR QUALITY				
Sampling Proced	lure		IS - 5182 (Part - 14: 2000	0 & Part – V: Reaffirmed - 2003), CPCB Guide lines	
Sample Location	1		A1-Project site core zone			
Positioned height of Sampler		Sampler	1.5 M above Ground Level			
		•				
Customer Reference			By Mail	Sampling Duration	24 hrs	
Sample Reference No)	SARL/A/CHE-2277	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 05.05.202		
Temperature			36°C	Relative Humidity	30%	
Sample Conditio	n		Fit for Analysis	•	•	

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	52.8	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	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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SARL/25/2278

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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, 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-Anaikaraipatti village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2278	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	$\mu g/m^3$	49.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	23.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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05.05.2025



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TEST REPORT

Report No.	SARL/25/2279		Repo	rt Date.	05.05.2025
Customer Name &		ough Stone Quarry Of Tvl. Van resident), At S.F.No.1432/3 (Page 1987)			
Customer Name &		dipattiTaluk, Theni District, T		DII- 2 VIIIag	;c,
Sample Description	n A	MBIENT AIR QUALITY	[
Sampling Procedur	re IS	- 5182 (Part - 14: 2000	& Part – V: Reaffirmed	- 2003), C	PCB Guide lines
Sample Location	A	A1-Project site core zone			
Positioned height of	of Sampler 1.:	5 M above Ground Level			
Customer Reference	ce B	y Mail	Sampling Duratio		24 hrs
Sample Reference	No S.	ARL/A/CHE-2279	Sample Received	on	29.04.2025
Sample Collected l	by L	ABORATORY	Test Commenced	on	29.04.2025
Sample Collected	on 2'	7.04.2025	Test Completed o	n	05.05.2025
Temperature	3:	5°C	Relative Humidity	/	30%
Sample Condition	F	it for Analysis			·

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	53.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	24.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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SARL/25/2280

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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,			
AndipattiTaluk, Theni District, 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-Anaikaraipatti village			

Positioned height of Sampler	1.5 M above Ground Level		
Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2280	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
0 1 0 11 1	25.04.2025	E . C . 1 . 1	0.5.05.0005

Sample Reference 110	STREET CITE 2200	Bumple Received on	27.01.2023
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	27.04.2025	Test Completed on	05.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	47.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	22.8	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	μg/m³	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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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05.05.2025



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TEST REPORT

Report No.	SARL/25/2	2321		Report D	ate.	12.05.2025	
		_					
			Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala				
), At S.F.No.1432/3 (P. aluk, Theni District, T	art),Of Thimmarasanaickanur Bit-2 amil Nadu State	2 Villag	ge,	
Sample Description AMBIENT AIR QUALITY							
Sampling Proced	lure	IS - 5182	2 (Part – 14: 2000	& Part – V: Reaffirmed - 200	03), C	PCB Guide lines	
Sample Location		A1-Proje	A1-Project site core zone				
Positioned height of Sampler 1.5 M above Ground Level							
		•					
Customer Refere	nce	By Mail		Sampling Duration		24 hrs	
Sample Reference	e No	SARL/A	VCHE-2321	Sample Received on		05.05.2025	
Sample Collected	d by	LABOR	ATORY	Test Commenced on		05.05.2025	
Sample Collected	d on	29.04.20)25	Test Completed on		12.05.2025	
Temperature		36°C		Relative Humidity		25%	
Sample Condition Fi		Fit for A	nalysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	55.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	25.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ 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

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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SARL/25/2322

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TEST REPORT

1	1
	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Anaikaraipatti village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2322	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	29.04.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis	-	

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	43.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	21.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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Page 2 of 14

12.05.2025



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TEST REPORT

Report No.	SARL/25/2	323	Report Date.	12.05.2025		
Customer Name	& Address		nnathiparai Kalieswari Kalludaikum Mag Part),Of Thimmarasanaickanur Bit- 2 Vil Tamil Nadu State			
Sample Descript	ion	AMBIENT AIR QUALIT				
Sampling Procedure IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines						
Sample Location	1	A1-Project site core zone				
Positioned heigh	t of Sampler	1.5 M above Ground Level				
	-					
Customer Refere	ence	By Mail	Sampling Duration	24 hrs		
Sample Reference	e No	SARL/A/CHE-2323	Sample Received on	05.05.2025		
Sample Collecte	d by	LABORATORY	Test Commenced on	05.05.2025		
Sample Collecte	d on	30.04.2025	Test Completed on	12.05.2025		
Temperature		36°C	Relative Humidity	27%		
Sample Condition	n	Fit for Analysis	· ·	•		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	54.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	25.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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SARL/25/2324

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TEST REPORT

		nathiparai Kalieswari Kalludaikum Ma	
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,		
	AndipattiTaluk, Theni District, Ta		
Sample Description	AMBIENT AIR QUALITY	7	
Sampling Procedure	IS – 5182 (Part – 14: 2000 s	& Part – V: Reaffirmed - 2003)	, CPCB Guide lines
Sample Location	A2-Anaikaraipatti village		
Positioned height of Sampler	1.5 M above Ground Level		
Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2324	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	30.04.2025	Test Completed on	12.05.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis	-	

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	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	$\mu g/m^3$	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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified 2



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

END OF THE REPORT

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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12.05.2025



Sample Condition

SARL/25/2325

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

10 p = 11 1 1 2 1 2 0	2020	report 2 att.
		thiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala
Customer Name & Address	(President), At S.F.No.1432/3 (Part)),Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, Tam	nil Nadu State
Sample Description	AMBIENT AIR QUALITY	
Sampling Procedure	IS – 5182 (Part – 14: 2000 &	Part – V: Reaffirmed - 2003), CPCB Guide lines
Sample Location	A3-Theppathupatty Village	
Positioned height of Sampler	1.5 M above Ground Level	

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2325	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%

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	$\mu g/m^3$	47.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	22.4	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	μg/m³	10.47	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com Terms and conditions:

Fit for Analysis

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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12.05.2025



416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/2	326	Report Da	te. 12.05.2025		
Customer Name	& Address		annathiparai Kalieswari Kalludaikum M (Part),Of Thimmarasanaickanur Bit- 2 ' t, Tamil Nadu State			
Sample Descripti	ion	AMBIENT AIR QUALITY				
Sampling Proced	lure	IS - 5182 (Part - 14: 200	00 & Part - V: Reaffirmed - 2003	3), CPCB Guide lines		
Sample Location	l	A4-T. Vadipatty Village				
Positioned heigh	t of Sampler	1.5 M above Ground Lev	5 M above Ground Level			
		•				
Customer Refere	ence	By Mail	Sampling Duration	24 hrs		
Sample Reference	e No	SARL/A/CHE-2326	Sample Received on	05.05.2025		
Sample Collected	d by	LABORATORY	Test Commenced on	05.05.2025		
Sample Collected	d on	01.05.2025	Test Completed on	12.05.2025		
Temperature		36°C	Relative Humidity	27%		
Sample Conditio	n	Fit for Analysis		•		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	51.3	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	$\mu g/m^3$	6.0	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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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SARL/25/2327

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,
Customer Function to Function	AndipattiTaluk, Theni District, 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-Thoppampatti Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2327	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	$\mu g/m^3$	53.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	25.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	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

For Shrient Analytical and Research Labs Pvt. Ltd

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Chescal - 43 by ***END OF THE REPORT***

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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12.05.2025



416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/23	328	Report Date.	12.05.2025		
		In 10 0 00m1				
Customer Name	& Address		Vannathiparai Kalieswari Kalludaikum Mag 3 (Part),Of Thimmarasanaickanur Bit- 2 Vil			
	00 1 10 01 0 0	AndipattiTaluk, Theni Distri				
Sample Descript	tion	AMBIENT AIR QUAL	ITY			
Sampling Proce	dure	IS – 5182 (Part – 14: 20	000 & Part – V: Reaffirmed - 2003),	CPCB Guide lines		
_		·	·			
Sample Location	1	A3-Theppathupatty Village				
Positioned heigh	nt of Sampler	1.5 M above Ground Level				
	•					
Customer Refere	ence	By Mail	Sampling Duration	24 hrs		
Sample Referen	ce No	SARL/A/CHE-2328	Sample Received on	05.05.2025		
Sample Collecte	ed by	LABORATORY	Test Commenced on	05.05.2025		
Sample Collecte	ed on	02.05.2025	Test Completed on	12.05.2025		
Temperature		36°C	Relative Humidity	27%		
Sample Condition	on	Fit for Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	45.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	21.2	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ 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

For Shrient Analytical and Research Labs Pvt. Ltd



Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

Please Contact:

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TEST REPORT

Report No.		SARL/25/232	9	Repo	rt Date.	12.05.2025	
		_					
CartananNa	0 4	11		nnathiparai Kalieswari Kalludai			
Customer Name & Address			(President), At S.F.No.1432/3 (AndipattiTaluk, Theni District,	(Part),Of Thimmarasanaickanur I Tamil Nadu State	Bit- 2 Villag	ge,	
Sample Description			AMBIENT AIR QUALIT				
Sampling Proces				0 & Part – V: Reaffirmed -	- 2003), C	PCB Guide lines	
		1	,		,,		
Sample Location	1		A4-T. Vadipatty Village				
Positioned heigh	nt of S	Sampler	1.5 M above Ground Level				
Customer Refere	ence		By Mail	Sampling Duratio	n	24 hrs	
Sample Reference	ce No	0	SARL/A/CHE-2329	Sample Received	on	05.05.2025	
Sample Collecte	d by		LABORATORY	Test Commenced	on	05.05.2025	
Sample Collecte	d on		02.05.2025	Test Completed or	n	12.05.2025	
Temperature			36°C	Relative Humidity	/	28%	
Sample Condition	on		Fit for Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	48.8	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	$\mu g/m^3$	5.6	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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/23	330	Report Date.	12.05.2025			
Customer Name	& Address	(President), At S.F.No.1432/3 (I	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State				
Sample Descript	ion	AMBIENT AIR QUALIT	Y				
Sampling Proceed	lure	IS – 5182 (Part – 14: 2000	& Part – V: Reaffirmed - 2003),	CPCB Guide lines			
Sample Location	1	A5-Thoppampatti Village					
Positioned heigh	t of Sampler	1.5 M above Ground Level					
	•	•					
Customer Refere	ence	By Mail	Sampling Duration	24 hrs			
Sample Reference	e No	SARL/A/CHE-2330	Sample Received on	05.05.2025			
Sample Collecte	d by	LABORATORY	Test Commenced on	05.05.2025			
Sample Collecte	d on	03.05.2025	Test Completed on	12.05.2025			
Temperature		36°C					
Sample Condition	n	Fit for Analysis	· · · · · · · · · · · · · · · · · · ·	•			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	55.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	26.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	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 2



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

Page 10 of 14



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TEST REPORT

Report No.		SARL/25/23.	31			Report Date.	12.05.2025
			-				
Customer Name & Address			Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Descript	ion		AMBIE	NT AIR QUALIT	Ϋ́		
Sampling Proce	lure		IS - 518	2 (Part – 14: 2000	& Part – V: Reaffi	rmed - 2003), C	PCB Guide lines
Sample Location	ı		A6-Andipatti Village				
Positioned heigh	t of	Sampler	1.5 M above Ground Level				
Customer Refere	2000		By Mail		Sampling D	Numation	24 hrs
					1 0		
Sample Referen				A/CHE-2331	Sample Rec		05.05.2025
Sample Collecte				RATORY	Test Comm		05.05.2025
Sample Collecte	d on		03.05.20	025	Test Compl	leted on	12.05.2025
Temperature		36°C		Relative Hu	ımidity	28%	
i emperature			Fit for Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	57.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	26.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	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/m³	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

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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SARL/25/2332

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Customer Name & Address		nathiparai Kalieswari Kalludaikum Ma art),Of Thimmarasanaickanur Bit- 2 V amil Nadu State				
Sample Description	AMBIENT AIR QUALITY					
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines					
Sample Location	A7-T.Renganavaram villag	e				
Positioned height of Sampler	1.5 M above Ground Level					
Customer Reference	By Mail	Sampling Duration	24 hrs			
Sample Reference No	SARL/A/CHE-2332	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	$\mu g/m^3$	50.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	23.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	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/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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TEST REPORT

Report No.	SARL/25/23	333	Report Date	. 12.05.2025			
		Pauch Stana Quarry Of Ty	l Vannathinarai Kalicawari Kalludaikum Ma	galir Cangam Trut M Darimala			
Customer Name & Address		(President), At S.F.No.1432	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Description AMBIENT AIR QUALITY							
Sampling Proced	lure	IS – 5182 (Part – 14: 2	2000 & Part – V: Reaffirmed - 2003)	, CPCB Guide lines			
		·					
Sample Location	1	A6-Andipatti Village					
Positioned heigh	t of Sampler	1.5 M above Ground Level					
Customer Refere	ence	By Mail	Sampling Duration	24 hrs			
Sample Reference	e No	SARL/A/CHE-2333	Sample Received on	05.05.2025			
Sample Collected	d by	LABORATORY	Test Commenced on	05.05.2025			
Sample Collected	d on	04.05.2025	Test Completed on	12.05.2025			
Temperature		35°C	Relative Humidity	32%			
Sample Conditio	n	Fit for Analysis		•			

S. 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	$\mu g/m^3$	26.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	13.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd



Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

Please Contact:

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SARL/25/2334

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TEST REPORT

10 port 110.	12.03.2025
	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-T.Renganavaram village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2334	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	$\mu g/m^3$	51.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	23.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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SARL/25/2375

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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Andipatti Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2375	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	06.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition Fit for Analysis			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	49.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	22.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	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

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/25/2	376	Report D	ate.	19.05.2025		
Customer Name & Address (F		(President), At S.F.No.14	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State				
Sample Descripti	ion	AMBIENT AIR QU	ALITY				
Sampling Procedure IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide			PCB Guide lines				
Sample Location		A7-T.Renganavaram	A7-T.Renganavaram village				
Positioned height of Sampler		1.5 M above Ground Level					
		<u>.</u>					
Customer Refere	nce	By Mail	Sampling Duration		24 hrs		
Sample Reference	e No	SARL/A/CHE-2376	Sample Received on		12.05.2025		
Sample Collected	d by	LABORATORY	Test Commenced on		12.05.2025		
Sample Collected	d on	06.05.2025	Test Completed on		19.05.2025		
Temperature		36°C	Relative Humidity		30%		
Sample Conditio	Sample Condition		Fit for Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	54.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	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	μ 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

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S. BALAMURUGAN
Asst. Technical Manager

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SARL/25/2377

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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Andipatti Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2377	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	07.05.2025	Test Completed on	19.05.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition Fit for Analysis			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m ³	51.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	23.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	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

For Shrient Analytical and Research Labs Pvt. Ltd





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19.05.2025



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TEST REPORT

Report No.	SARL/25/2	2378		Report Da	ite.	19.05.2025	
Customer Name & Address			Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Descript	ion		BIENT AIR QUALITY				
Sampling Proceed	lure	IS – :	5182 (Part – 14: 2000 s	& Part – V: Reaffirmed - 200	3), Cl	PCB Guide lines	
Sample Location	1	A7-T	A7-T.Renganavaram village				
Positioned heigh	t of Sampler	1.5 N	1.5 M above Ground Level				
Customer Refere	ence	By N	<i>M</i> ail	Sampling Duration		24 hrs	
Sample Reference	e No	SAR	L/A/CHE-2378	Sample Received on		12.05.2025	
Sample Collected	d by	LAE	ORATORY	Test Commenced on		12.05.2025	
Sample Collected	d on	07.0	5.2025	Test Completed on		19.05.2025	
Temperature		37°C		Relative Humidity		21%	
Sample Conditio	n	Fit f	Fit for Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	53.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	24.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	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/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
END OF THE REPORT*

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S. BALAMURUGAN
Authorized Signatory
S. BALAMURUGAN

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SARL/25/2379

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TEST REPORT

		nathiparai Kalieswari Kalludaikum Ma		
Customer Name & Address	(President), At S.F.No.1432/3 (Pa	art),Of Thimmarasanaickanur Bit- 2 V	illage,	
	AndipattiTaluk, Theni District, T			
Sample Description	AMBIENT AIR QUALITY			
Sampling Procedure	IS – 5182 (Part – 14: 2000	& Part – V: Reaffirmed - 2003)	, CPCB Guide lines	
Sample Location	A3-Theppathupatty Village			
Positioned height of Sampler	1.5 M above Ground Level			
Customer Reference	By Mail	Sampling Duration	24 hrs	
Sample Reference No	SARL/A/CHE-2379	Sample Received on	12.05.2025	
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025	
Sample Collected on	08.05.2025	Test Completed on	19.05.2025	
Temperature	37°C	Relative Humidity	23%	
Sample Condition	Fit for Analysis	-		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	48.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	22.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	8.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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19.05.2025



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TEST REPORT

Report No.	SARL/25/2380		Report Date.	19.05.2025
Customer Name & Address		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State		
Sample Description	AN	AMBIENT AIR QUALITY		
Sampling Procedure	IS	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines		
Sample Location		4-T. Vadipatty Village		
Positioned height of Sampler		M above Ground Level		
	-			

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2380	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	08.05.2025	Test Completed on	19.05.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	48.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m³	22.1	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	μg/m³	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2381		Report	Date.	19.05.2025	
	T -					
Customer Name &	Address (Pr	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Description	Al	MBIENT AIR QUALIT	Y			
Sampling Procedure	e IS	- 5182 (Part - 14: 2000	& Part – V: Reaffirmed - 2	003), C	PCB Guide lines	
	_					
Sample Location	A5	A5-Thoppampatti Village				
Positioned height of	f Sampler 1.5	1.5 M above Ground Level				
Customer Reference	e B	y Mail	Sampling Duration		24 hrs	
Sample Reference N	No S.	ARL/A/CHE-2381	Sample Received or	1	12.05.2025	
Sample Collected b	y L	ABORATORY	Test Commenced or	ı	12.05.2025	
Sample Collected o	n 08	3.05.2025	Test Completed on		19.05.2025	
Temperature	37	7°C	Relative Humidity		23%	
Sample Condition	Fi	t for Analysis	<u>. </u>	•		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	46.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	21.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/2382		Report Date	19.05.2025		
Customer Name & Address		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State				
Sample Description	A	MBIENT AIR QUALITY	<i>Y</i>			
Sampling Procedure	e IS	-5182 (Part - 14: 2000	& Part – V: Reaffirmed - 2003)	, CPCB Guide lines		
Sample Location	A	A3-Theppathupatty Village				
Positioned height of Sampler		1.5 M above Ground Level				
Customer Reference	е В	y Mail	Sampling Duration	24 hrs		
Sample Reference N	No S	ARL/A/CHE-2382	Sample Received on	12.05.2025		
Sample Collected by	y L	ABORATORY	Test Commenced on	12.05.2025		
Sample Collected or	n 0	9.05.2025	Test Completed on	19.05.2025		
Temperature	3	6°C	Relative Humidity	30%		
Sample Condition	F	it for Analysis		·		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	43.4	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	$\mu g/m^3$	6.3	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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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TEST REPORT

Report No.	SARL/25/2383		Report Date.	19.05.2025	
Customer Name & Address		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,			
Customer Name & Address		AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description		AMBIENT AIR QUALITY			
Sampling Procedure	IS -	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines			
Sample Location		A4-T. Vadipatty Village			
Positioned height of Sampler		5 M above Ground Level			

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2383	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	$\mu g/m^3$	44.5	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	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

END OF THE REPORT

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

Please Contact:

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TEST REPORT

Report No.		SARL/25/238	34		Report I	Date.	19.05.2025
			<u>_</u>				•
Customer Name	& D	ddress			thiparai Kalieswari Kalludaikum t),Of Thimmarasanaickanur Bit-		
Customer rume	ω 1 1	aaress	AndipattiTaluk, 7			2 villag	ς,
Sample Descripti	on		AMBIENT A	IR QUALITY			
Sampling Proced	ure		IS – 5182 (Par	t – 14: 2000 &	Part – V: Reaffirmed - 20	03), C	PCB Guide lines
Sample Location			A5-Thoppampatti Village				
Positioned height	hight of Sampler 1.5 M above Ground Level						
		-					
Customer Refere	nce		By Mail		Sampling Duration		24 hrs
Sample Reference	e No)	SARL/A/CHI	E-2384	Sample Received on		12.05.2025
Sample Collected	l by		LABORATO	RY	Test Commenced on		12.05.2025
Sample Collected	lon		09.05.2025		Test Completed on		19.05.2025
Temperature	•		36°C	Relative Humidity 30%		30%	
Sample Condition	n		Fit for Analys	sis	-		

S. No.	Parameters	Parameters Protocol		Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	50.3	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m³	23.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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SARL/25/2385

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TEST REPORT

responding.		respond acces		
				
	Rough Stone Quarry Of Tvl. Vannathipa			
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of	(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,		
	AndipattiTaluk, Theni District, Tamil N	AndipattiTaluk, Theni District, Tamil Nadu State		
Sample Description	AMBIENT AIR QUALITY			
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Par	t – V: Reaffirmed - 2003), CP	CB Guide lines	
Sample Location	A1-Project site core zone			

Sample Location	A1-Project site core zone
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2385	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	$\mu g/m^3$	52.2	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	24.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Reaction 45 by ***END OF THE REPORT***

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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19.05.2025



SARL/25/2386

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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,
G 1 D : ::	AndipattiTaluk, Theni District, 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-Anaikaraipatti village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2386	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	$\mu g/m^3$	45.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m³	22.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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19.05.2025



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TEST REPORT

Report No.		SARL/25/238	37			Report Date.	19.05.2025
Customer Name & Address (P		(Preside	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State				
Sample Descripti	on		AMBI	ENT AIR QUALIT	Y		
Sampling Proced	ure		IS-5	182 (Part – 14: 2000	& Part – V: Reaffi	rmed - 2003), C	PCB Guide lines
Sample Location			A1-Project site core zone				
Positioned height of Sampler			1.5 M above Ground Level				
Customer Refere	nce		By M	ail	Sampling D	Ouration	24 hrs
Sample Reference	e N	<u> </u>		/A/CHE-2387	Sample Rec		12.05.2025
Sample Collected			LABO	ORATORY	Test Comm		12.05.2025
Sample Collected	lon		11.05	.2025	Test Compl	leted on	19.05.2025
Temperature			35°C	1		30%	
1		Fit for Analysis					

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	54.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	24.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	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/m³	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 12

END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

For any Technical Issues&Complaints: technical@shrientanalytical.com

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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Positioned height of Sampler

Sample Condition

SARL/25/2388

Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Anaikaraipatti village

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2388	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%

1.5 M above Ground Level

Fit for Analysis

S. 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	μg/m ³	20.9	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	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Reaction 45 by ***END OF THE REPORT***

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Report Date.

19.05.2025

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TEST REPORT

Report No.	SARL/25/2429		I	Report Date.	26.05.2025	
		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,				
Sample Description		AndipattiTaluk, Theni District, Tamil Nadu State AMBIENT AIR QUALITY				
Sampling Procedure	IS –	5182 (Part – 14: 2000	& Part – V: Reaffirm	ned - 2003), C	PCB Guide lines	
Sample Location	A1-I	A1-Project site core zone				
Positioned height of	Sampler 1.5 M	1.5 M above Ground Level				
Customer Reference	By I	Mail	Sampling Du	ration	24 hrs	
Sample Reference N	o SAI	RL/A/CHE-2429	Sample Rece	ived on	19.05.2025	
Sample Collected by	LAI	BORATORY	Test Commer	nced on	19.05.2025	
Sample Collected on		05.2025 Test Completed on		ed on	26.05.2025	
Temperature	36°C	\mathbb{C}	Relative Hum	nidity	25%	
Sample Condition	Fit 1	or Analysis	•	-		

S. 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	μg/m ³	24.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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 12

END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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SARL/25/2430

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

10port 110.	Report Bute. 2010312025
	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Anaikaraipatti village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2430	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	$\mu g/m^3$	42.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	20.5	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	μg/m³	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

26.05.2025

Report Date.

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R
Page 2 of 14



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TEST REPORT

Report No.	SARL/25/2431			Report Date.	26.05.2025	
		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala				
Customer Name & A		(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Description		BIENT AIR QUALIT				
Sampling Procedure	IS –	5182 (Part – 14: 2000	& Part – V: Reaffi	rmed - 2003), Cl	PCB Guide lines	
Sample Location	A1-1	A1-Project site core zone				
Positioned height of	Sampler 1.5 I	1.5 M above Ground Level				
Customer Reference	By	Mail	Sampling D		24 hrs	
Sample Reference N	o SAI	RL/A/CHE-2431	Sample Rec	eived on	19.05.2025	
Sample Collected by	LAI	BORATORY	Test Comm	enced on	19.05.2025	
Sample Collected on	14.0	5.2025	Test Compl	eted on	26.05.2025	
Temperature	36°	36°C Relative Humidity 27%		27%		
Sample Condition		Fit for Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	54.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	25.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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TEST REPORT

Report No.	SARL/25/2432	,	Report Date	26.05.2025	
Customer Name &	Address	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,			
Sample Description		AndipattiTaluk, Theni District, T AMBIENT AIR QUALIT			
Sampling Procedur			& Part – V: Reaffirmed - 2003)	, CPCB Guide lines	
Sample Location		A2-Anaikaraipatti village			
Positioned height o	of Sampler	1.5 M above Ground Level			
Customer Reference	ee	By Mail	Sampling Duration	24 hrs	
Sample Reference	No	SARL/A/CHE-2432	Sample Received on	19.05.2025	
Sample Collected b	ру	LABORATORY	Test Commenced on	19.05.2025	
Sample Collected on		14.05.2025	05.2025 Test Completed on 26.05		
Temperature		34°C	Relative Humidity	28%	
Sample Condition		Fit for Analysis			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	45.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	21.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	9.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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 2



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	Report No. SARL/25/2433			Report Date.	26.05.2025
Customer Name & Address (P.		(Presider	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State		
Sample Description			AMBIENT AIR QUALITY		
Sampling Proceed	dure	IS - 51	82 (Part – 14: 2000 & Part	- V: Reaffirmed - 2003), Cl	PCB Guide lines
Sample Location		A3-The	ppathupatty Village		
Positioned height of Sampler 1.5		1.5 M a	bove Ground Level		

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2433	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	$\mu g/m^3$	50.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	23.8	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/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

For Shrient Analytical and Research Labs Pvt. Ltd

END OF THE REPORT

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

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Temperature

Sample Condition

SARL/25/2434

36°C

Fit for Analysis

Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

report ivo.	31 HCL/23/2 13 1		Report Date.	2010212022	
			arai Kalieswari Kalludaikum Maga		
Customer Name & Ado	(`Thimmarasanaickanur Bit- 2 Villa	age,	
	Andip	pattiTaluk, Theni District, Tamil N	ladu State		
Sample Description	AMI	BIENT AIR QUALITY			
Sampling Procedure	ling Procedure IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines				
	•		,		
Sample Location	A4-7	T. Vadipatty Village			
Positioned height of Sa	ampler 1.5 N	A above Ground Level			
	<u> </u>				
Customer Reference	By	Mail	Sampling Duration	24 hrs	
Sample Reference No	SAF	RL/A/CHE-2434	Sample Received on	19.05.2025	
Sample Collected by	LAI	BORATORY	Test Commenced on	19.05.2025	
Sample Collected on	15.0	5.2025	Test Completed on	26.05.2025	

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	1 18.5182. Part 23.2006		50.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m³	23.1	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	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Relative Humidity

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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26.05.2025

27%



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TEST REPORT

Report No.		SARL/25/243	35			Report Date.	26.05.2025
Customer Name	& A	ddress		stone Quarry Of Tvl.Van nt), At S.F.No.1432/3 (P			r Sangam,Tmt.M.Parimala e.
				tiTaluk, Theni District, T			-,
Sample Descript	ion		AMBI	ENT AIR QUALIT	Y		
Sampling Proceed	lure		IS - 51	82 (Part – 14: 2000	& Part – V: Reaffi	rmed - 2003), C	PCB Guide lines
				•			
Sample Location			A5-Thoppampatti Village				
Positioned heigh	t of	Sampler	1.5 M above Ground Level				
Customer Refere	nce		By Ma	ail	Sampling D	Ouration	24 hrs
Sample Reference	e N)	SARL	/A/CHE-2435	Sample Rec	ceived on	19.05.2025
Sample Collecte	d by		LABC	RATORY	Test Comm	enced on	19.05.2025
Sample Collecte	d on		15.05.	2025	Test Comp	leted on	26.05.2025
Temperature			36°C		Relative Hu	umidity	27%
Sample Condition	n		Fit for	Analysis			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	44.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	21.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	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/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/2436		Report Dat	e. 26.05.2025		
	1					
Customer Name & Address		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Description	A	MBIENT AIR QUALIT	Y			
Sampling Procedure	IS	- 5182 (Part - 14: 2000	& Part - V: Reaffirmed - 2003), CPCB Guide lines		
Sample Location	A.	A3-Theppathupatty Village				
Positioned height of	Sampler 1.	1.5 M above Ground Level				
Customer Reference	в	y Mail	Sampling Duration	24 hrs		
Sample Reference N	lo S	ARL/A/CHE-2436	Sample Received on	19.05.2025		
Sample Collected by	y 02	2.05.2025	Test Commenced on	19.05.2025		
Sample Collected or	n 10	6.05.2025	Test Completed on	26.05.2025		
Temperature	30	6°C	Relative Humidity	27%		
Sample Condition	F	it for Analysis	•			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	ter less than 10micron IS:5182: Part 23:2006		52.4	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	24.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	8.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	12.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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 2

END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

Please Contact:

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Temperature

Sample Condition

SARL/25/2437

36°C

Fit for Analysis

Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

1		F	
	Rough Stone Quarry Of Tvl. Vannathipa		
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of		ige,
	AndipattiTaluk, Theni District, Tamil N	adu State	
Sample Description	AMBIENT AIR QUALITY		
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Par	rt - V: Reaffirmed - 2003), Q	CPCB Guide lines
•			
Sample Location	A4-T. Vadipatty Village		
Positioned height of Sampler	1.5 M above Ground Level		
Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2437	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

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	47.7	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m³	21.9	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	μg/m³	9.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

Relative Humidity

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Asst. Technical Manager

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26.05.2025

28%



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TEST REPORT

Report No.	SARL/25/2	438		Rep	ort Date.	26.05.2025	
				athiparai Kalieswari Kallud			
Customer Name	& Address		dent), At S.F.No.1432/3 (Pa pattiTaluk, Theni District, Ta	rt),Of Thimmarasanaickanu	r Bit- 2 Village	2,	
Commis Dogonia	tion		BIENT AIR QUALITY				
Sample Descript					1 2000) GT	NGD G 11 11	
Sampling Proce	dure	IS –	5182 (Part – 14: 2000 c	& Part − V: Reaffirmed	l - 2003), Cl	CB Guide lines	
Sample Location	1	A5-1	A5-Thoppampatti Village				
Positioned heigh	nt of Sampler	1.5 N	1.5 M above Ground Level				
Customer Refer	ence	By N	Mail	Sampling Durati	on	24 hrs	
Sample Referen	ce No	SAR	RL/A/CHE-2438	Sample Receive	d on	19.05.2025	
Sample Collecte	ed by	LAE	BORATORY	Test Commence	d on	19.05.2025	
Sample Collecte	ed on	16.0	5.2025	Test Completed	on	26.05.2025	
Temperature		36°0	C	Relative Humidi	ty	26%	
Sample Condition		Fit f	or Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	I IS-5182: Part 23-2006 I		54.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	25.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	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/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/2439		Report D	ate.	26.05.2025	
Customer Name & A			nnathiparai Kalieswari Kalludaikum Part),Of Thimmarasanaickanur Bit-			
Customer Name & 1		pattiTaluk, Theni District,		z v mag	ς,	
Sample Description	AM	BIENT AIR QUALIT	Y			
Sampling Procedure	IS –	5182 (Part – 14: 2000	0 & Part - V: Reaffirmed - 20	03), CI	PCB Guide lines	
Sample Location	A6	A6-Andipatti Village				
Positioned height of	Sampler 1.5	1.5 M above Ground Level				
Customer Reference	By	Mail	Sampling Duration		24 hrs	
Sample Reference N	o SA	RL/A/CHE-2439	Sample Received on		19.05.2025	
Sample Collected by	LA	BORATORY	Test Commenced on		19.05.2025	
Sample Collected on	17.0)5.2025	Test Completed on		26.05.2025	
Temperature	36°	C	Relative Humidity		28%	
Sample Condition		for Analysis				

S. No.	Parameters	Parameters Protocol		Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006		49.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	23.1	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/24	40	Report Dat	te. 2	26.05.2025	
			Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village,			
			ndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description	on	AMBIENT AIR QUAL	ITY			
Sampling Procedu	ıre	IS - 5182 (Part - 14: 20	00 & Part - V: Reaffirmed - 2003	3), CPC	B Guide lines	
Sample Location A7-		A7-T.Renganavaram village				
Positioned height of Sampler 1.5		1.5 M above Ground Level				
Customer Referen	ice	By Mail	Sampling Duration	24	hrs	
Sample Reference	No	SARL/A/CHE-2440	Sample Received on	19	.05.2025	
Sample Collected	by	LABORATORY	Test Commenced on	19	.05.2025	
Sample Collected on 17		17.05.2025	Test Completed on	26	.05.2025	
Temperature 36		36°C	Relative Humidity	28	%	
Sample Condition Fit:		Fit for Analysis	Fit for Analysis			

S. 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	μg/m ³	24.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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SARL/25/2441

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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Andipatti Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2441	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	18.05.2025	Test Completed on	26.05.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition Fit for Analysis			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	53.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	24.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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26.05.2025



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TEST REPORT

	26.05.2025			
Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
V: Reaffirmed - 2003), C	PCB Guide lines			
A7-T.Renganavaram village				
1.5 M above Ground Level				
mpling Duration	24 hrs			
mple Received on	19.05.2025			
st Commenced on	19.05.2025			
st Completed on	26.05.2025			
C Relative Humidity 32%				
•				
_	est Completed on elative Humidity			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	57.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	26.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	12.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Asst. Technical Manager

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SARL/25/2483

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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Andipatti Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2483	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	μ g/m ³	57.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	26.4	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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02.06.2025



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TEST REPORT

Report No.	SARL/25/2484		Report Date	e. 02.06.2025		
		-				
			nathiparai Kalieswari Kalludaikum M			
Customer Name & Ad		ident), At S.F.No.1432/3 (Pa pattiTaluk, Theni District, T	art),Of Thimmarasanaickanur Bit- 2 V	illage,		
Sample Description		BIENT AIR QUALITY				
Sampling Procedure			& Part – V: Reaffirmed - 2003). CPCB Guide lines		
	1 12	1 2 · · · · · · · · · · · · · · · · ·		,,= 		
Sample Location	A7-7	A7-T.Renganavaram village				
Positioned height of Sa	ampler 1.5 N	1.5 M above Ground Level				
Customer Reference	By	Mail	Sampling Duration	24 hrs		
Sample Reference No	SAI	RL/A/CHE-2484	Sample Received on	26.05.2025		
Sample Collected by	LAI	BORATORY	Test Commenced on	26.05.2025		
Sample Collected on	20.0	05.2025	Test Completed on	02.06.2025		
Temperature	36°0	C	Relative Humidity	30%		
Sample Condition	Fit t	for Analysis				

S. 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	μg/m ³	23.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Chestral - 45 by ***END OF THE REPORT***

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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SARI /25/2485

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Report No. SARL/23	0/2463	Report Da	de. 02.00.2023		
Customer Name & Address	(President), At S.F.No.143	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description	escription AMBIENT AIR QUALITY				
Sampling Procedure	IS – 5182 (Part – 14: 2	2000 & Part – V: Reaffirmed - 2003	3), CPCB Guide lines		
Sample Location A6-Andipatti Village					
Positioned height of Sampler	1.5 M above Ground Level				
Customer Reference	By Mail	Sampling Duration	24 hrs		
Sample Reference No	SARL/A/CHE-2485	Sample Received on	26.05.2025		
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025		
Sample Collected on	21.05.2025	.05.2025 Test Completed on			
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	$\mu g/m^3$	53.9	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	24.9	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	12.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
END OF THE REPORT

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S. BALAMURUGAN

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/2486		Report D	ate.	02.06.2025
	•	_			
Customer Name & Address		Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State			
Sample Description AMBIENT AIR QUALITY					
Sampling Procedure	is IS –	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines			
Sample Location	A7-	A7-T.Renganavaram village			
Positioned height of	Sampler 1.5	M above Ground Level			
		N 6 11	a 11 5		241

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2486	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	21.05.2025	Test Completed on	02.06.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	55.0	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	25.5	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	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

For Shrient Analytical and Research Labs Pvt. Ltd





Pal **Authorized Signatory** S. BALAMURUGAN **END OF THE REPORT*** Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25	/2487		Repo	rt Date.	02.06.2025	
	0 4 1 1			nathiparai Kalieswari Kalludai			
Customer Name	& Address			art),Of Thimmarasanaickanur	Bit- 2 Villag	ge,	
Sample Descript	ion		oattiTaluk, Theni District, T BIENT AIR QUALITY				
Sample Descript					2002) C	DCD C '1 1'	
Sampling Proce	dure	18 –	5182 (Part – 14: 2000	& Part – V: Reaffirmed -	- 2003), C	PCB Guide lines	
		T					
Sample Location	1	A3-1	A3-Theppathupatty Village				
Positioned heigh	t of Sampler	1.5 N	1.5 M above Ground Level				
	-	•					
Customer Refere	ence	By N	Mail	Sampling Duratio	n	24 hrs	
Sample Referen	ce No	SAF	RL/A/CHE-2487	Sample Received	on	26.05.2025	
Sample Collecte	d by	LAF	BORATORY	Test Commenced	on	26.05.2025	
Sample Collecte	d on	22.0	5.2025	Test Completed o	n	02.06.2025	
Temperature		37°C	\overline{C}	Relative Humidity	y	23%	
Sample Condition	n	Fit f	or Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	54.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	25.6	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	8.1	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/m³	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

END OF THE REPORT*

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2488	Report Date. 02.06.2025		
Customer Name & Address		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State		
Sample Description	AM	AMBIENT AIR QUALITY		
Sampling Procedure	IS –	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines		
Sample Location		A4-T. Vadipatty Village		
Positioned height of Sampler		1.5 M above Ground Level		
	<u>.</u>			

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2488	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	μ g/m ³	43.5	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	20.0	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μg/m³	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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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SARL/25/2489

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TEST REPORT

report 10.	Report Bate.		
	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala		
Customer Name & Address	(President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,		
	Andipatti Taluk, Theni District, 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-Thoppampatti Village		
Positioned height of Sampler	1.5 M above Ground Level		

Customer Reference	By Mail	Sampling Duration	24 hrs		
Sample Reference No	SARL/A/CHE-2489	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	Fit for Analysis			

S. 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	μg/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	μg/m³	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m ³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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02.06.2025



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TEST REPORT

Report No.	SARL/25/2490		Report D	ate.	02.06.2025
Customer Name & Address		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description	AM	IBIENT AIR QUALIT	Y		
Sampling Procedure	IS -	- 5182 (Part – 14: 2000	& Part – V: Reaffirmed - 20	03), C	PCB Guide lines
		_			
Sample Location	A3-	A3-Theppathupatty Village			
Positioned height of	Sampler 1.5	1.5 M above Ground Level			
Customer Reference	By	Mail	Sampling Duration		24 hrs
Sample Reference N	o SA	RL/A/CHE-2490	Sample Received on		26.05.2025
Sample Collected by	, LA	BORATORY	Test Commenced on		26.05.2025
Sample Collected or	23.	05.2025	Test Completed on		02.06.2025
Temperature		°C	Relative Humidity		30%
Sample Condition	Fit	for Analysis			

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	48.9	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	$\mu g/m^3$	7.9	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/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

Report No.	SARL/25/2491			Report Date.	02.06.2025
		D 1 C O OCT 1 V	.1 ' ' ' ' ' ' ' ' ' ' ' '	7 11 1 '1 3 6 1'	C
Customer Name & Address		Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State			
Sample Description		AMBIENT AIR QUALITY			
Sampling Procedure		IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines			
Sample Location		4-T. Vadipatty Village			
Positioned height of Sampler		1.5 M above Ground Leve	M above Ground Level		

Customer Reference	By Mail	Sampling Duration	24 hrs	
Sample Reference No	SARL/A/CHE-2491	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	μ g/m ³	50.6	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	23.2	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	μg/m³	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	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

END OF THE REPORT

Authorized Signatory S. BALAMURUGAN Asst.Technical Manager

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SARL/25/2492

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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State				
Sample Description	AMBIENT AIR QUALITY	7			
Sampling Procedure	IS – 5182 (Part – 14: 2000 s	& Part – V: Reaffirmed - 2003)	, CPCB Guide lines		
Sample Location	A5-Thoppampatti Village				
Positioned height of Sampler	1.5 M above Ground Level				
Customer Reference	By Mail	Sampling Duration	24 hrs		
Sample Reference No	SARL/A/CHE-2492	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	μ g/m ³	49.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	23.2	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	μg/m³	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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

02.06.2025

Report Date.

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TEST REPORT

Report No.	SARL/25/2493]	Repor	t Date.	02.06.2025	
		1.0.0.000000000000000000000000000000000	4			
Customer Name & A	Address (Pres	ough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, ndipatti Taluk, Theni District, Tamil Nadu State				
Sample Description	AM	BIENT AIR QUALITY				
Sampling Procedure	IS -	5182 (Part - 14: 2000 c	& Part – V: Reaffirmed -	2003), C	PCB Guide lines	
	·	•				
Sample Location	A1-	A1-Project site core zone				
Positioned height of	Sampler 1.5	1.5 M above Ground Level				
	·					
Customer Reference	Ву	Mail	Sampling Duration	Į.	24 hrs	
Sample Reference N	o SA	RL/A/CHE-2493	Sample Received of	n	26.05.2025	
Sample Collected by	LA	BORATORY	Test Commenced of	on	26.05.2025	
Sample Collected on	24.	05.2025	Test Completed on		02.06.2025	
Temperature	36°	1			30%	
Sample Condition	Fit	Fit for Analysis				
•	'	<u> </u>				
S.	D		1 77.		D 1	

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	$\mu g/m^3$	53.8	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	$\mu g/m^3$	24.7	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst. Technical Manager

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Sampling Procedure

SARL/25/2494

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram, Chennai - 600045 Phone Number +91 82208 36377 Email: -info@shrientanalytical.com www.shrientanalytical.com

TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State
Sample Description	AMBIENT AIR QUALITY

IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2494	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	$\mu g/m^3$	50.7	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	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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02.06.2025



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TEST REPORT

Report No.	SARL/25/2495		Report Date.	02.06.2025		
Customer Name &			nathiparai Kalieswari Kalludaikum Maga art),Of Thimmarasanaickanur Bit- 2 Villa			
Customer Name &		AndipattiTaluk, Theni District, T		.gc,		
Sample Description AMBIENT AIR QUALITY						
Sampling Procedure	e I	S – 5182 (Part – 14: 2000	& Part – V: Reaffirmed - 2003), (CPCB Guide lines		
Sample Location	I	A1-Project site core zone				
Positioned height of	f Sampler 1	1.5 M above Ground Level				
	·					
Customer Reference	e	By Mail	Sampling Duration	24 hrs		
Sample Reference 1	No	SARL/A/CHE-2495	Sample Received on	26.05.2025		
Sample Collected b	by	LABORATORY	Test Commenced on	26.05.2025		
Sample Collected on		25.05.2025	Test Completed on	02.06.2025		
Temperature		Relative Humidity 30%				
Sample Condition		Fit for Analysis				

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM ₁₀)	IS:5182: Part 23:2006	μg/m³	55.1	100
2	Particulate Matter less than 2.5micron size (PM _{2.5})	IS 5182 (Part 24):2019	μg/m ³	25.3	60
3	Sulphur dioxide (SO ₂)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO ₂)	IS:5182: Part 06:2006	μ g/m ³	9.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m³	BDL (D.L – 1.1)	-

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

For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

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S. BALAMURUGAN
Asst. Technical Manager

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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SARL/25/2496

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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F. No. 1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, 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-Anaikaraipatti village

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2496	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	Parameters Protocol			*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	μg/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	μg/m³	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

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst. Technical Manager

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02.06.2025



TEST REPORT

Report No.	SARL/25/2497					Report I	Jate.	02.06.20		
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Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State
Sample Description	WATER
Sample Mark	W1-Project site core zone

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2497	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.	Donom stone	Ducksool	Unit	Result	*Limits
No.	Parameters	Protocol		Result	Permissible
Α.	Physical parameters				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24 th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 °C	APHA 24 th Edition 4500 – H+ B: 2023	-	7.28	6.50-8.50
4	Electrical Conductivity	APHA 24 th Edition 2510 B: 2023	(µS/cm)	1095	-
В.	Chemical parameters				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	660	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	336	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	82.0	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	31.4	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L		
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	131	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	449	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	125	1000

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CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/2497		Report Date.	02.06.2025
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Sl. No	Davamatavs	Parameters Protocol		Result	*Limits	
	rarameters	Frotocol	Unit	Result	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	148	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	3.58	45	
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.35	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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Page 2 of 2



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TEST REPORT

Report No.	SARL/25/2498	Rep	port Date.	02.06.2025
and the second s		tone Quarry Of Tvl. Vannathiparai Kalieswari Kallud	daikum Magalir S	Sangam,Tmt.M.Parimala

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State
Sample Description	WATER
Sample Mark	W2-Anaikaraipatti village

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2498	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.	Davam staus	Ducksool	TI:4	Result	*Limits
No.	Parameters	Protocol	Unit	Result	Permissible
Α.	Physical parameters				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24 th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 °C	APHA 24 th Edition 4500 – H+ B: 2023	-	7.75	6.50-8.50
4	Electrical Conductivity	APHA 24 th Edition 2510 B: 2023	(µS/cm)	1017	-
В.	Chemical parameters				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	612	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	171	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	42.4	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	15.6	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	106	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	65.0	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	175	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	375	1000

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TEST REPORT

Report No.

Sl. No	Damamatans	Parameters Protocol		Result	*Limits	
	rarameters	Frotocol	Unit	Result	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	75.9	400	
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL(D.L - 0.01)	0.3	
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	1.65	45	
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.29	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

Verified



Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2499				Report	Date.	02.06.202	5	
		1 0	 0.000 1.17	.1.1	 ' TZ 11 1 '1	3.6 11	G		

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State
Sample Description	WATER
Sample Mark	W3-Theppathupatty Village

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2499	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.	Donom stone	Ducksool	TI:4	Result	*Limits
No.	Parameters	Protocol	Unit	Result	Permissible
Α.	Physical parameters				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24 th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 °C	APHA 24 th Edition 4500 – H+ B: 2023	-	7.22	6.50-8.50
4	Electrical Conductivity	APHA 24 th Edition 2510 B: 2023	(µS/cm)	1336	-
В.	Chemical parameters				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	802	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	576	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	133	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	58.6	100
9	Calcium Hardness (as CaCO3)	alcium Hardness APHA 24th Edition 3500 Ca B:		332	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	244	-
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	252	1000

LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment.
CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Report No.	SARL/25/2499	R	Report Date.	02.06.2025
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Sl. No	Damamatans	Parameters Protocol		Result	*Limits
	rarameters	Frotocol	Unit	Result	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	102	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	3.06	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.52	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

Verified



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

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LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

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TEST REPORT

Report No.	SARL/25/2500	Report Date.	02.06.2025
Chartenan Name 6 A		stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Mag	, 8

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village,
	AndipattiTaluk, Theni District, Tamil Nadu State
Sample Description	WATER
Sample Mark	W4-T. Vadipatty Village

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2500	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.	Danamatana	Ductocal	TI:4	D a garal 4	*Limits
No.	Parameters	Protocol	Unit	Result	Permissible
Α.	Physical parameters				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24 th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 °C	APHA 24 th Edition 4500 – H+ B: 2023	-	7.31	6.50-8.50
4	Electrical Conductivity	APHA 24 th Edition 2510 B: 2023	(µS/cm)	1426	-
В.	Chemical parameters				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	860	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	480	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	109	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	49.9	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	272	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	208	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	440	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	213	1000

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TEST REPORT

 Report No.
 SARL/25/2500

 Report Date.
 02.06.2025

Sl. No	Davamatars	Parameters Protocol		Result	*Limits
	1 at affecters	Trotocor	Unit	Result	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	154	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	2.75	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.35	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

Verified



Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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TEST REPORT

		 - 2- 4	4.1 1.22.41 1.		
Report No.	SARL/25/2501			Report Date.	02.06.2025
Lanart Na	L C A D L /25/25/1			Lanart Llata	1 00 04 0005

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State
Sample Description	WATER
Sample Mark	W5-Thoppampatti Village

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2501	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.	Donom stone	Ducksool	TT:4	Result	*Limits
No.	Parameters	Protocol	Unit	Result	Permissible
Α.	Physical parameters				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24 th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 °C	APHA 24 th Edition 4500 – H+ B: 2023	-	7.21	6.50-8.50
4	Electrical Conductivity	APHA 24 th Edition 2510 B: 2023	(µS/cm)	918.5	-
В.	Chemical parameters				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	552	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	389	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	106	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	29.8	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	265	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	124	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	286	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	149	1000

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Report No.	SARL/25/2501	Report	rt Date. 02.06.2025	;
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Sl. No	Parameters	Protocol	Unit	Result	*Limits
	rarameters	Frotocol	Unit	Result	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	32.0	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	2.69	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.32	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/25/2502		Report Date.	02.06.2025
	Dayah (Stone Overmy Of Tvl Vermethingusi Velicevyeni k	Zalludailman Magalin	Company Test M Davimala

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State
Sample Description	WATER
Sample Mark	W6-Andipatti Village

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2502	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.	Parameters	Protocol	Unit	Result	*Limits
No.	rarameters	Frotocol	Unit	Kesuit	Permissible
Α.	Physical parameters				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24 th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 °C	APHA 24 th Edition 4500 – H+ B: 2023	-	7.93	6.50-8.50
4	Electrical Conductivity	APHA 24 th Edition 2510 B: 2023	(µS/cm)	736.6	-
В.	Chemical parameters				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	442	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	216	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	48.0	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	23.0	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	120	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	96.0	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	202	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	132	1000

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Sl. No		Protocol	Unit	Result	*Limits
	rarameters	Frotocol	Unit		Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	52.4	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.05	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	1.54	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.47	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS - 10500:2012. BDL - Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

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Page 2 of 2



TEST REPORT

Report No. SARL/25/2503 Report Date. 02.06.2025

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State
Sample Description	WATER
Sample Mark	W7-T.Renganavaram village

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2503	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
Α.	Physical parameters				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24 th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 °C	APHA 24 th Edition 4500 – H+ B: 2023	-	7.24	6.50-8.50
4	Electrical Conductivity	APHA 24 th Edition 2510 B: 2023	(µS/cm)	845.8	-
В.	Chemical parameters				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	510	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	284	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	71.6	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	25.2	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	179	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	105	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	232	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	151	1000

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Sl. No	Parameters	Protocol	Unit	Result	*Limits	
	1 at affecters	Trotocor	Unit	Kesuit	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	56.6	400	
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.05	0.3	
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.89	45	
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.47	1.5	
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3	

Remarks: *Drinking Water Specifications as per IS - 10500:2012. BDL - Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Page 2 of 2



TEST REPORT

Report No.	SARL/25/2504	Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State
Sample Description	WATER
Sample Mark	SWQ1 - Vaigai River 1

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2504	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
Α.	Physical parameters			
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable
2	Turbidity	APHA 24 th Edition 2130 B: 2023	NTU	<1.0
3	pH at 25 °C	APHA 24 th Edition 4500 – H+ B: 2023	-	7.92
4	Electrical Conductivity	APHA 24 th Edition 2510 B: 2023	(µS/cm)	231
В.	Chemical parameters			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	140
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	82.7
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	16.8
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	9.7
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	42.1
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	40.6
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	44.9
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	32.4



TEST REPORT

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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	14.8
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL(D.L - 0.01)
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	BDL(DL-1.0)
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.25
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	BDL (D.L – 2.0)
22	Dissolved Oxygen	IS 3025 (Part 38): 1989	mg/L	6.2

Remarks: BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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	Report No.	SARL/25/2505		Report Date.	02.06.2025
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Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State
Sample Description	WATER
Sample Mark	SWQ2 - Vaigai River 2

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2505	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
Α.	Physical parameters			
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable
2	Turbidity	APHA 24 th Edition 2130 B: 2023	NTU	<1.0
3	pH at 25 °C	APHA 24 th Edition 4500 – H+ B: 2023	-	7.86
4	Electrical Conductivity	APHA 24 th Edition 2510 B: 2023	(µS/cm)	196
В.	Chemical parameters			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	118
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	77
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	16.0
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	8.8
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	39.9
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	36.6
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	37.6
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	35.7



TEST REPORT

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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	15.9
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL(D.L - 0.01)
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	1.65
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.19
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	BDL (D.L – 2.0)
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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Asst. Technical Manager

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TEST REPORT

Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimal (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State	
Sample Description	SOIL
Sample Mark	S1-Project site core zone

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2504	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	-	7.86
2	Electrical Conductivity	IS 14767: 2000	μmhos/cm	102.5
3	Dry matter content	IS 15106: 2002	%	90.31
4	Water Content	IS 15106: 2002	%	9.69
5	Organic Matter	IS 2720: Part 22: 1972	%	0.64
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	346
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	26.52
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	58.61
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	14.87
9	Phosphorus as P	IS 10158: 1982	mg/kg	0.92
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	775
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	524
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	42

BDL – Below Detectable limit (DL - Detectable limit).

SARL/25/2504

For Shrient Analytical and Research Labs Pvt. Ltd

S. BALAMURUGAN

Asst.Technical Manager

Report Date.

02.06.2025

Please Contact:

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END OF THE REPORT

LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R



Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045 Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com** www.shrientanalytical.com

TEST REPORT

Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parim Customer Name & Address (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State	
Sample Description	SOIL
Sample Mark	S2-Anaikaraipatti village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2505	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		·

S. No.	. Parameters Protocol		Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.59
2	Electrical Conductivity	IS 14767: 2000	μmhos/cm	72.64
3	Dry matter content	IS 15106: 2002	%	94.25
4	Water Content	IS 15106: 2002	%	5.75
5	Organic Matter	IS 2720: Part 22: 1972	%	1.32
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	265
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty clsy
8	Grain Size Distribution i. Sand	Size Distribution Methods Manual - Soil testing in India - P. No-67: 2011		8.91
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	47.45
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	43.64
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.65
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	420
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	660
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	18.6
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	39

BDL – Below Detectable limit (DL - Detectable limit).

SARL/25/2505

For Shrient Analytical and Research Labs Pvt. Ltd

S. BALAMURUGAN

Asst.Technical Manager

Report Date.

02.06.2025

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END OF THE REPORT

LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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416/15, Dhargas Road, West Tambaram, Chennai- 600045 Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com** www.shrientanalytical.com

TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	S3-Theppathupatty Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2506	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.84
2	Electrical Conductivity	IS 14767: 2000	μmhos/cm	151.4
3	Dry matter content	IS 15106: 2002	%	93.22
4	Water Content	IS 15106: 2002	%	6.78
5	Organic Matter	IS 2720: Part 22: 1972	%	1.12
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	286
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty clsy loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	13.53
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	47.48
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	38.99
9	Phosphorus as P	IS 10158: 1982	mg/kg	2.11
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	1045
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	890
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	%	19.5
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011 Inches/foot		41

BDL - Below Detectable limit (DL - Detectable limit).

SARL/25/2506

For Shrient Analytical and Research Labs Pvt. Ltd

S. BALAMURUGAN

Asst.Technical Manager

Report Date.

02.06.2025

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END OF THE REPORT

LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R



Shrient Analytical and Research Labs Pvt. Ltd

TEST REPORT

Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Par Customer Name & Address (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State	
Sample Description	SOIL
Sample Mark	S4-T. Vadipatty Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2507	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis	· ·	•

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.69
2	Electrical Conductivity	IS 14767: 2000	μmhos/cm	86.59
3	Dry matter content	IS 15106: 2002	%	95.47
4	Water Content	IS 15106: 2002	%	4.53
5	Organic Matter	IS 2720: Part 22: 1972	%	0.84
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	634
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	24.73
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	68.35
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	6.92
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.37
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	589
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	789
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	18.2
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	44

BDL – Below Detectable limit (DL - Detectable limit).

SARL/25/2507

For Shrient Analytical and Research Labs Pvt. Ltd

S. BALAMURUGAN

Asst.Technical Manager

Report Date.

02.06.2025

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END OF THE REPORT

LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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416/15, Dhargas Road, West Tambaram, Chennai- 600045 Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com** www.shrientanalytical.com

TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl. Vannathiparai Kalieswari Kalludaikum Magalir Sangam, Tmt. M. Parimala (President), At S.F.No.1432/3 (Part), Of Thimmarasanaickanur Bit- 2 Village, Andipatti Taluk, Theni District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	S5-Thoppampatti Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2508	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis	-	

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.57
2	Electrical Conductivity	IS 14767: 2000	μmhos/cm	85.92
3	Dry matter content	IS 15106: 2002	%	96.56
4	Water Content	IS 15106: 2002	%	3.44
5	Organic Matter	IS 2720: Part 22: 1972	%	0.96
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	634
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	29.12
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	53.11
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	17.77
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.92
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	364
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	702
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	%	19.5
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	42

BDL - Below Detectable limit (DL - Detectable limit).

SARL/25/2508

For Shrient Analytical and Research Labs Pvt. Ltd

Authorized Signatory

S. BALAMURUGAN

Asst.Technical Manager

Report Date.

02.06.2025

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END OF THE REPORT

LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	S6-Andipatti Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2509	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		·

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.96
2	Electrical Conductivity	IS 14767: 2000	μmhos/cm	92.47
3	Dry matter content	IS 15106: 2002	%	93.42
4	Water Content	IS 15106: 2002	%	6.58
5	Organic Matter	IS 2720: Part 22: 1972	%	1.39
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	445
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	33.46
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	49.22
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	17.32
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.41
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	412
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	614
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	19.6
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	40

BDL - Below Detectable limit (DL - Detectable limit).

SARL/25/2509

For Shrient Analytical and Research Labs Pvt. Ltd

S. BALAMURUGAN

Asst.Technical Manager

Report Date.

02.06.2025

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END OF THE REPORT

LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R



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TEST REPORT

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni District, Tamil Nadu State
Sample Description	SOIL
Sample Mark	S7-T.Renganavaram village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2510	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	6.74
2	Electrical Conductivity	IS 14767: 2000	μmhos/cm	102.4
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	%	1.02
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	230
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silt loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	29.51
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	52.48
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	18.01
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.56
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	355
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	726
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	40

BDL – Below Detectable limit (DL - Detectable limit).

SARL/25/2510

For Shrient Analytical and Research Labs Pvt. Ltd

S. BALAMURUGAN

Asst.Technical Manager

Report Date.

02.06.2025

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END OF THE REPORT

LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R



TEST REPORT

Report No.	SARL/25/2511	Report Date	. 02.06.2025
	Dough 9	one Querry Of Tyl Vennethinerei Keliegyzeri Kelludeilaum M	galir Cangam Tmt M Darimala

Customer Name & Address	Rough Stone Quarry Of Tvl.Vannathiparai Kalieswari Kalludaikum Magalir Sangam,Tmt.M.Parimala (President), At S.F.No.1432/3 (Part),Of Thimmarasanaickanur Bit- 2 Village, AndipattiTaluk, Theni 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-2511	Date of Monitoring	24.03.2025/ 25.03.2025		
Sample Collected by	LABORATORY				

Time in hrs	N1	N2	N3	N4	N5	N6	N7
06.00	43.2	43.4	42.2	41.7	39.6	39.9	41.7
07.00	40.9	45.6	50.2	44.4	47.1	42.3	49.7
08.00	44.2	47.9	49.1	47.4	51.2	48.6	48.6
09.00	45.0	49.5	50.8	49.4	52.7	52.3	50.3
10.00	52.6	50.9	43.2	50.5	50.1	54.2	42.7
11.00	51.7	47.3	46.6	49.7	53.2	51.6	46.1
12.00	48.5	49.3	47.8	50.7	47.5	50.7	47.3
13.00	49.3	47.9	46.1	51.4	48.4	50.2	45.6
14.00	54.9	48.2	49.1	49.6	51.5	53.7	48.6
15.00	54.7	46.7	45.4	47.0	50.7	54.1	44.9
16.00	53.6	47.2	46.7	49.2	49.6	52.5	46.2
17.00	53.3	44.8	48.2	45.4	44.7	51.4	47.7
18.00	51.2	43.5	47.1	45.8	42.6	48.9	46.6
19.00	47.8	41.3	44.7	47.2	41.9	47.4	44.2
20.00	47.0	40.2	42.2	42.9	40.7	45.2	41.7
21.00	45.3	41.8	40.2	44.0	42.6	44.2	39.7
22.00	46.8	41.0	38.3	42.1	38.8	40.7	37.8
23.00	44.8	41.4	38.8	41.2	37.4	40.1	38.3
24.00	42.6	38.0	39.5	39.7	39.6	39.2	39.0
01.00	44.2	38.5	38.4	40.1	38.0	38.4	37.9
02.00	43.1	37.2	39.8	39.5	38.8	40.2	39.3
03.00	42.2	37.8	38.9	40.2	40.1	40.6	38.4
04.00	41.4	38.5	39.1	41.0	38.0	41.3	38.6
05.00	40.9	40.3	39.9	40.0	41.7	40.8	39.4



416/15, Dhargas Road, West Tambaram, Chennai- 600045 Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com** www.shrientanalytical.com

TEST REPORT

Report No. SARL/25/2511	Report Date. 02.06.20
-------------------------	-----------------------

	N1	N2	N3	N4	N5	N6	N7
DAY EQUIVALENT	50.3	46.5	46.7	47.8	49.0	50.3	46.2
NIGHT EQUIVALENT	43.3	38.9	38.7	40.2	39.3	39.9	38.2
DAY & NIGHT EQUIVALENT	49	45.1	45.3	46.4	47.4	48.8	44.8

Remarks:

LOCATIONS:

N1-Project site core zone

N2-Anaikaraipatti village

N3-Theppathupatty Village

N4-T. Vadipatty Village

N5-Thoppampatti Village

N6-Andipatti Village

N7-T.Renganavaram Village

For Shrient Analytical and Research Labs Pvt. Ltd





Authorized Signatory
S. BALAMURUGAN
Asst. Technical Manager

Please Contact:

For any Technical Issues & Complaints: technical@shrientanalytical.com Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

LAB SERVICES FOR:- Food, Water, Milk, Environment, Academic & Industrial Segment. CIN: U74999TN2017PTC116807 / GST No: 33AAYCS7325R1ZA / PAN No: AAYCS7325R

Page 2 of 2

ANNEXURE-8





National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

SHRIENT ANALYTICAL & RESEARCH LABS PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

416/15, DHARGAS ROAD, PERUNGALATHUR, WEST TAMBARAM, CHENNAI, KANCHIPURAM, TAMIL NADU, INDIA

in the field of

TESTING

Certificate Number:

TC-12339

Issue Date:

30/09/2023

Valid Until:

29/09/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL. (To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: SHRIENT ANALYTICAL AND RESEARCH LABS PRIVATE LIMITED

Signed for and on behalf of NABL



N. Venkateswaran Chief Executive Officer

ANNEXURE-9

ADDITUTE !

தலையை ஆதிகியர். 211. 3. 156 தலைப் பள்ளி, T. இநாத கோபாலண் பட்டி சிண்டியட்டி சென்றியம்.

O) प्रशास्त्र :

ம். பரிமார் தலைவர் தின் உண்ணாத்திப் பாறை காளில்வரி கீல் உடைக்கும் மகளிர் சுவீகம் பதிவு எண் 61/2021 செற்கேத் சைடு, கிறாத கசாபாலன்படித செண்டியட்டி சுவீகம். கேத்னி D+ 625536

OUTEM:

വടുക്കി വെടുന്നു ക്രോപ്പ് ക്രോപ്പ് വെന്ന്ലേയും ക്രോപ്പ് വെന്നുക്കുന്നു ക്രോപ്പ് ക്രോപ് ക്രോപ്പ് ക്രോപ്പ് ക്രോപ്പ് ക്രോപ്പ് ക്രോപ്പ് ക്രോപ്പ് ക്രോപ്പ് ക്രോപ് ക്രോപ്പ് ക്രോപ്പ് ക്രോപ്പ് ക്രോപ്പ് ക്രാപ്പ് ക്രോപ്പ് ക്രോപ് ക്രോപ് ക്രോപ് ക്രാപ് ക്

முன்றி மானிக்கி இரிக்கி முற்றி மானித்திர முற்று அதிரிக்கை விருவி ஆஸ்டி குற்றிய இரிக்கு முற்றியி இருவி முற்று இரிக்கி இரிக்கியப்படிக்கு மாகிரிக்கு மன்றியி முற்று இரிக்கி இரிக்கியப்படிக்கு மாகிரிக்கு மன்றியி விருக்கிய காலக்கிய இரிக்கி முற்றியி மகிரிக்கு மன்றியில் நன்றி இரிக்கி கோவதை கோக்கி மகாள்கள்

T. 805028800 LOVER 16.05.2025

கிப்படிக்கி

Head Master
PANCHAYAT UNION MIDDLE SCHOOL
TRAJAGOPALANPATTY.
Aundipatty. Tk. Theni.Dt.