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

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

APPROVED TOR VIDE TOR IDENTIFICATION No. TO25B0108TN5501934N Dated: 30.07.2025

PROPOSED QUARRY LEASE DETAILS	
SURVEY NO	27/1A (BLOCK-2)
VILLAGE	ELAMBALUR
TALUK	PERAMBALUR
DISTRICT	PERAMBALUR
EXTENT	1.80.0 Ha
CLUSTER EXTENT	7.50.0 Ha
PROPOSED PRODUCTION QUANTITY FOR TEN YEARS (upto 47m AGL)	ROUGH STONE: 3,11,135 m^3
PEAK PRODUCTION QUANTITY	ROUGH STONE: 47,200 m^3
LAND	GOVERNMENT LAND (PORAMBOKE)

(Sector No. 1(a) (Sector no.1 as per NABET)
Category of the Project: B1 Cluster Mining, Total Cluster Area – 7.50.0 Ha
Baseline Monitoring Period – March 2025 – May 2025

APPLICANT

M/s. CHOZHA GROUPS

NO.1/85, NEW NO.4/155, MARIYAMMANKOVIL STREET,
ERUTHUKARANPATTI, RAJAJI NAGAR, ARIYALUR – 621713.

ENVIRONMENTAL CONSULTANT	LABORATORY
M/s. GLOBAL MINING SOLUTIONS *(NABET Accredited & ISO 9001 Certified Consultant)* **Plot No. 6, S.F.No. 13/2, A2, VS City,** **RC Chettypatty, Kottamettupatty, Omalur,** **Salem, Tamil Nadu – 636 455.** **NABET Accreditation No: NABET/EIA/23-26/SA 0241** ***Valid up to: 03.02.2026*** **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 up to: 29.09.2029*** **#416/15, Dhargas Road, Perungalathur,** **West Tambaram, Chennai,** **Tamil Nadu, India.**

JANUARY 2026

AMENDMENT PAGE

SL	Page No.	Section / Clause / Para / Line (as Applicable)	Date of Amendment	Amendment Made	Reasons of amendment	Signature of Person Authorizing Amendment
1						
2						
3						
4						
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8						
9						
10						

ACKNOWLEDGEMENT

M/s. Global Mining Solutions, Salem is very much thankful M/s. Chozha Groups, Lessee for the confidence and trust placed on the organization for carrying out Environmental Impact Assessment (EIA) study for the proposed Rough Stone quarry over a lease extent of 1.80.0 Ha., & Cluster extent of 7.50.00 Ha., located at Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu State and formulating the Environmental Management Plan (EMP). We also gratefully acknowledge the cooperation and assistance provided by concerned government authorities for collection of secondary information for the preparation of Draft EIA/EMP report. Our sincere thanks to the local people of Elambalur Village and the nearby villages for their whole hearted cooperation and constant involvement during the entire field study without which the study would not have been possible.

For: M/s. Global Mining Solutions



(M. Prabu)

Managing Director

UNDERTAKING

In line with MoEF OM No. J – 11013/41/2006-IA. II (I) dated 5th October 2011, we hereby give our undertaking for owning the content and information in the EIA/EMP report submitted for EC of the proposed Rough Stone quarry over a lease extent of 1.80.0 Ha & Cluster extent of 7.50.00 Ha., located at Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu State.

For: M/s. Global Mining Solutions

M. MANIKANDAN
EIA CO-ORDINATOR
GLOBAL MINING SOLUTIONS
SALEM

UNDERTAKING

In Line with 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. TO25B0108TN5501934N Dated: 30.07.2025 of Draft EIA/EMP report for the proposed Rough Stone Quarry over a lease extent of 1.80.0 Ha., & Cluster extent of 7.50.00 Ha., located at Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu Stat for the proposed production of 3,11,135 m^3 of Rough Stone from the proposed lease area and the details has been complied in the Draft EIA/EMP report is factually correct.

The EIA/EMP report has been prepared by M/s. Global Mining Solutions (GMS), Salem. GMS is a NABET accredited consultant for preparation of EIA/EMP report of Mining of Minerals (Opencast only) vide certificate No. NABET/EIA/23-26/SA 0241, valid till 03.02.2026.

For: M/s. Global Mining Solutions

M. MANIKANDAN
EIA CO-ORDINATOR
GLOBAL MINING SOLUTIONS
SALEM

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

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

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

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

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

Valid up to
January 4, 2026

Issue Date
May 30, 2025

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

Varinder Kanwar

Prof (Dr) Varinder S Kanwar
CEO - NABET

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

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

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

Valid up to
January 03, 2029

Issue Date
February 16, 2026

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

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

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

DECLARATION BY EXPERTS

Declaration by Experts contributing to the proposed Rough Stone Quarry over a lease extent of 1.80.0 Ha. & Cluster extent of 7.50.00 Ha in Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu State.

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

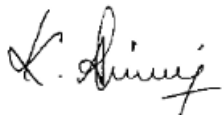
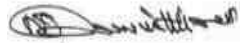
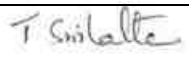
EIA Coordinator Name: M. Manikandan

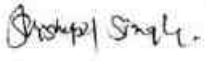


Period of involvement: March 2025 to May 2025.

Contact information:

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

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

			Predication of the ground level concentration of the dust. Suggesting suitable mitigation measures. <u>*Period: March 2025 to May 2025*</u>	
8	*NV*	*Dhanalakshmi Ramanathan*	*Ambient noise study of the area. Incremental noise generation due to quarry operation and impact of the noise due to the project.* <u>*Period: March 2025 to May 2025*</u>	
9	*LU*	*Srilatha Thiruveedhula*	*Preparation of land use map based on satellite imagery. Land use classification and analysis. Impact prediction of the project on the surrounding land environment.* <u>*Period: March 2024 to May 2024.*</u>	
10	*RH*	*S.V. Prashant*	*Identification of the Risk related to the mining activities. Preparation of emergency disaster management plan. Plan for supply of safety equipment for the worker.* <u>*Period: March 2025 to May 2025*</u>	
11	*SC*	*Shisupal Sing*	*Soil monitoring, secondary data collection on soil type, soil management practices, utilization of topsoil.* <u>*Period: March 2025 to May 2025*</u>	
12	*GEO*	*Valliappan Meyyappan*	*Geological map, stability of quarry and dump, management plan for mine stability, after use of mining quarry and geological feature of the area.* <u>*Period: March 2025 to May 2025*</u>	

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COMPLIANCE TO TERMS OF REFERENCE

S. No.	ToR Points	Compliance	Page No.
1. SEIAA Specific Conditions			
1.1.	After detailed discussions, the Authority accepts the recommendation of SEAC-I and decided to grant Terms of Reference (ToR) along with Public Hearing for the quantity of 3,11,135 m^3 of rough stone up to the depth of 47m AGL 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-I & normal conditions & the conditions mentioned below.	Agreed	
2. **SEAC Conditions – Site Specific**			
2.1.	**<u>Specific Condition:</u>** 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.	A cluster management committee including all the proponents of the rough stone quarrying projects within the cluster of 500 m radius will be constituted for the effective implementation of appropriate environmental management plan. Affidavit in this regard will be submitted during final EIA/EMP Report.	
	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 PP should submit an affidavit to follow the scientific formation of benches for 5m *5m properly during mining as per the approved mining plan	Agreed, An affidavit for stipulated bench formation will be incorporated in the Final Report.	
	3. The PP shall install the CCTV camera for the continuous surveillance of mining activity & furnish the photographic/videographic evidence along with the EIA report.	Agreed, The PP will install CCTV at the proposed mine lease area and submit proof in the Final EIA/EMP report.	
3. SEAC Standard Conditions			
3.1	1. In the case of existing/operation mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following: i. Original pit dimension ii. Quantity achieved Vs EC Approved Quantity iii. Balance Quantity as per Mineable Reserve calculated iv. Mined out Depth as on date Vs EC Permitted depth v. Details of illegal/illicit mining vi. Violation in the quarry during the past working vii. Quantity of material mined out outside the lining lease area viii. Condition of Safety zone/benches ix. Revised/Modified Mining Plan showing the benches of not exceeding 6m height and ultimate depth of not exceeding 50m.	Not applicable. This is a fresh quarry.	

	2. Details of habitations around the proposed mining area and latest VAO Certificate regarding the location of habitations within 300m radius from the periphery of the site.	The VAO certificate is enclosed as Annexure – 4.	
	3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc	A Site survey has been conducted to identify and list structures located within a 300 m radius from the proposed Quarry and structures located within 300 m radius are given in section 3.5 of Chapter 3. Structures details from 300 m to 500 m will be incorporated in the Final EIA / EMP Report. As per the study, only one structure, namely a farmhouse, is located within a 300 m radius of the project site.	86
	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.	A detailed hydro-geological report will be included in the Final EIA Report.	
	5. The Project Proponent shall carry out Bio-diversity study through reputed institution and the same shall be included in the EIA report.	The bio diversity study has been carried out by our FAE is given in section 3.7.7 of Chapter 3.	
	6. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries. Tiger reserve etc. upto a radius of 25 km from the proposed site.	There is no RF within 5 km Radius and Wildlife Sanctuary within 10km radius	
	7. In case of proposed lease in an existing (or old) quarry where the benches are not formed(or) partially formed as per the approved	Not applicable. This is a fresh quarry.	

	Mining Plan, the Project Proponent (PP) shall the PP shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic institutions-CSIR Central Institute of Mining & Fuel Research/Dhanbad, NIRM/ Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Suratkal and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC.		
	8. However, in case of the fresh/virgin quarries, the project shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30m below ground level.	The ultimate depth for this proposal (ten years) is 47 m AGL. The slope stability study will be carried through reputed Institute once the depth reaches 25 m BGL.	178
	9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent	Affidavit will be incorporated in the Final EIA/EMP Report.	
	10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.	Controlled blasting techniques using delay detonators and optimum charge per delay will be implemented in this quarry. The details on blasting parameters are given in section 2.9.2 of Chapter 2.	

	11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.	The PP has not carried out any quarrying operation before this project.	
	12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines	Not applicable. This is a fresh quarry project.	
	13. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?	Not applicable. This is a fresh quarry project.	
	14. Quantity of minerals mined out. • Highest production achieved in any one year. • Detail of approved depth of mining. • Actual depth of the mining achieved earlier. • Name of the person already mined in that leases area. • If EC and CTO already obtained, the copy of the same shall be submitted. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches	Not applicable. This is a fresh quarry project.	
	15. All comer coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).	Project coordinates superimposed in satellite imagery and given as Figure No – 2-2 in Chapter – 2. The geology and geomorphology map are provided in Figure No.3.18 and 3.19 in Chapter 3. The Soil map is provided under Figure No. 3-14,	64, 128,129, 115, 93

		Chapter-3. The 10km Radius Index plan showing buffer zone is given in Figure No.3-6 in Chapter – 3.	
	16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing etc.,	This is fresh quarry. The condition will be complied after commencement of the mining operation.	
	17. The proponent shall furnish photographs of adequate fencing, greenbelt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan	There are no trees within ML area. Fencing and plantations are under process (80 % of the work completed). here are no water bodies like rivers, odai, pond, etc., located within a radius of 500m. Greenbelt / Plantation is being carried out in the safety zone to enhance the vegetative growth and aesthetic in the safety zone area. In the post mining stage, an area of 0.50.0 Ha will be under greenbelt and plantation.	
	18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding, environment and the remedial measures for the same.	The geological reserves - 6,12,970 m^3 of Rough Stone for 47 m AGL. The mineable reserves: 3,11,135 m^3 of Rough Stone for 47 m AGL. Justification and methodology are detailed in Chapter2. The anticipated impact and its mitigation measures are detailed in Chapter 4.	135

	19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR" 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.	Complied. Please refer section 2.11.4 of Chapter 2	
	20. The Project Proponent shall conduct the Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD/TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitoring data, it may clearly be shown whether working all intersect ground water. Necessary data and documentation in this regard may be provided.	A detailed hydro-geological report will be incorporated in the Final EIA Report.	
	21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality& flora/fauna including traffic/vehicular movement study.	The baseline data were collected (March 2025 to May 2025) for the environmental components including land, soil, water, air, noise, biology, socio-economy, and the results have been discussed in Chapter 3. Traffic density survey is detailed in section 2.12 of Chapter 2.	
	22. The Proponent shall carry out the cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of air pollution, water	Cumulative impact study has been carried covering existing and this proposed quarries in the cluster and the same is incorporated in the Chapter 4.	

	pollution, & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.	Accordingly, a detailed Environment Management Plan is prepared considering air, water, noise and soil environment and the details are given in Chapter 10.	
	23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.	The runoff water during rainy season will be collected in the bottom quarry through proper drainage pattern and the collected water will be used for plantation and dust suppression during dry season. The Rain water harvesting plan is given chapter 4.	
	24. Land use of the study area delineating forest area, agricultural land, grazing land. Wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.	The land use of the study area is described in Section 3.7.6.2 of Chapter 3. The anticipated impacts on the land environment and the mitigation measures are detailed in Chapter 4.	119, 136
	25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area distance from mine lease, its land use, R&R issues, if any, should be provided.	Not applicable. There is no generation of the OB & waste.	
	26. Proximity to Areas declared as' Critically Polluted'(or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or)	No proximity to Critically polluted areas.	

	Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.		
	27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.	The impact of the mining operations due to this quarry on water environment is studied and mitigation measures are proposed. Rain water harvesting plan is given Chapter 4.	139
	28. Impact on local transport infrastructure due to the Project should be indicated	A traffic density study was carried out and are detailed in section 2.12 of Chapter 2.	82
	29. A tree survey shall be carried out (Nos. name of species, age, diameter, etc) both within the mining lease applied area & 300m buffer zone and its management during mining activity	There are no much trees within 300m buffer zone of the project area. The predominant flora noticed small tress of *Acacia nilotica* trees of very few numbers.	
	30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.	The mine closure plan details are given in section 2.10 of Chapter 2	178
	31. As part of the study of flora and fauna around the vicinity of the proposed site, the EIA Coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, where ever possible	Accepted. It will be done.	
	32. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix – I in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species	Green belt is proposed in an area of 0.50.0 ha. Green belt development plan is provided in section 2.11.5 of chapter 2.	82

	of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.		
	33. Taller/one year old saplings raised in appropriate size of bags; preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/horticulturist with regard to site-specific choices. The proponent shall earmark the green belt area with GPS coordinates all along the boundary of the project site with at least 3 m wide and in between blocks in an organized manner	The FAE of ecology and biodiversity has advised the project proponent that saplings of one year old raised in the ecofriendly bags should be purchased and planted with the spacing of 3 m between each plant around the proposed project area as per the advice of local forest authorities/botanist.	
	34. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.	A disaster management plan is prepared and the details are given in Chapter 7.	176
	35. A risk assessment and Management plan shall be prepared and included in the EIA/EMP report for the complete life of the proposed quarry or till the end of the lease period	Risk assessment and its management is given in Chapter 7.	172
	36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.	Occupational Health Impacts of the project and preventive measures are detailed under Chapter 4.	165
	37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.	No major impact on public health will be there since the villages are located more than 1km from the lease area.	180

		Details of CER and CSR are discussed under Chapter No. 8	
	38. The Socio-economic studies should be carried out within a 5km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.	No negative impact on socio-economic environment of the study area is anticipated and this project shall benefit the socio-economic environment by offering employment for 27 people directly.	129
	39. Details of litigation pending against the project, if any, with direction /order passed by any Court of law against the Project should be given.	No litigation is pending	
	40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.	Benefits of the project is given in Chapter 8	180
	41. If any quarrying operations were carried out in the proposed quarrying site for which now EC is sought, the project proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF & CC, Regional Office, Chennai or the concerned DEE/TNPCB.	Not applicable. This is a fresh quarry project.	
	42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.	The EMP is planned for the entire life of the mine. The affidavit for the same will be included in the Final EIA/EMP Report.	

	43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the condition mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986	Agreed	
4. SEIAA STANDARD CONDITIONS			
4.1	**Cluster Management Committee**		
	1. Cluster management committee shall be framed which must include all the proponents in the cluster as members including the existing as well as proposed quarry	There are two existing quarries and three proposed quarry including this proposed within a 500-metre radius. The proponent will take the initiative to form a cluster management committee once environmental clearance is obtained for this quarry.	
	2. The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc.,	Agreed. Will be complied.	
	3. The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease and the same shall be updated every year to the AD/Mines.	Agreed. The list of members of the committee formed will be submitted to AD/mines after obtaining Environmental Clearance.	
	4. Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network.	Agreed. Details of the Operation plan for cluster mining operations will be submitted once we get environmental clearance.	
	5. The committee shall deliberate on risk management plan pertaining to the cluster in a holistic manner especially during	Risk management plan for the individual quarry is given in this report. As far as cluster working	

	natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan.	condition is concerned, once the committee is formed, risk management as a cluster including inundation of clusters and the evacuation plan will be elaborated.	
	6. The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the environmental policy devised shall be given in detail.	Environmental policy for the cluster will be framed by the cluster management committee and the policy will be in accordance with EPA Act, 1986 and its amendments, guidelines by MoEFCC/SEIAA and other regulatory bodies. This policy will be displayed in the quarry.	
	7. The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner.	Agreed. It will be complied as mentioned in the Point No.4	
	8. The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public in the vicinity.	Agreed. It will be complied as mentioned in the Point No.4.	
	Agriculture & Agro-Biodiversity		
	9. Impact on surrounding agricultural fields around the proposed mining Area.	There are no Agriculture, forest area and traditional practices within the project area. However, there are some agricultural land around the project site. It may be affected due to the quarry operation as such dust particles sedimentation in the agricultural land. It will be controlled at the source level by proper dust suppression as such wet drilling, controlled blasting	

		and water sprinkling on the project roads and project surrounding roads. As per Air Quality Modelling, the impact of the air quality limited to 400m radius. So, there is no impact for the Agriculture, Forestry & Traditional practices located within 10km radius.	
	10. Impact on soil flora & vegetation around the project site.	The chemical and physical characteristics of the soil is given in Table 3.13 of Chapter 3. The anticipated impact and its mitigation measures for soil environment and biological environment are detailed in section 4.2.2 & 4.4.5 of Chapter 4 respectively.	158
	11. Details of type of vegetations including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetations all along the boundary of the proposed mining area shall committed mentioned in EMP.	There is no standing trees or vegetation within the mine lease area.	
	12. The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.	The ecological details have been provided in Chapter 3 and measures have been provided in Chapter 4.	119,158
	13. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.	The detailed action plan has been described in the EMP (Chapter 10) for sustainable management of the project area and its surroundings.	183

	14. The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.	The impact of project on the land environment has been discussed in section 4.2.1 under Chapter 4.	136
	Forests		
	15. The project proponent shall detailed study on impact of mining on Reserve Forests free ranging wildlife.	Nagoor R.F-8.16Km (NW), Kalarampatti R.F-9.10Km(NW) are located within 10 km radius and no other reserved forest located in the buffer zone. There is no reserve Forest area within 1 km radius.	119
	16. The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.	There is no schedule I species of animals observed within study area as per Wildlife Protection Act, 1972 and no species falls in vulnerable, endangered or threatened category as per IUCN. There is no endangered red list species found in the study area. The anticipated impact and its mitigation measures for biological environment are detailed in Chapter 4.	119
	17. The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.	Not Applicable. This is a dry barren land.	
	18. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.	Nagoor R.F-8.16Km (NW), Kalarampatti R.F-9.10Km (NW) are located within 10 km radius and no other reserved forest located in the buffer zone.	
	Water Environment		
	19. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells,	The hydrogeological study report will be incorporated in the final EIA report.	

	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.	There is no waste generation (OB) in this quarry has been envisaged. However, there may be erosion due to rainy season and that is limited within quarry area. The control measures are explained in Chapter 4.	173
	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.	Anticipated impacts and its mitigation measures are detailed in Chapter 11.	197
	22. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.	There is no wastewater generation / discharge of wastewater from this Quarry, so this is not applicable.	
	23. The project proponent shall study and furnish the details on potential fragmentation impact on natural environment, by the activities.	Fragmentation impact on environment may be due to drilling and blasting. The anticipated impacts and mitigation measures are discussed in Chapter 4.	
	24. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts.	The Flora and Fauna study covering 10 km radius are detailed in section 3.7.7 of chapter 3. The impacts anticipated with respect to the environment of the project area is very negligible and it will be minimized within the project area.	119

		Greenbelt / Plantation will be carried out to enhance the vegetative growth and aesthetic in the safety zone area.	
	25. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.	The impact of mining on soil environment has been discussed in Section 4.2.2 under Chapter 4.	
	26. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.	The anticipated impact and its mitigation measures for Water Environment are detailed in section 4.2.3 of Chapter 4.	135
	27. The EIA shall include the impact of mining activity on the following: a) Hydrothermal/Geothermal effect due to destruction in the Environment. b) Bio-geochemical processes and its foot prints including environmental stress. c) Sediment geochemistry in the surface streams.	The proposed quarry operation is Opencast Mechanized operation with drilling, blasting, excavation, loading and transportation. So, the effect of Hydrothermal/Geothermal is not envisaged. This is a simple mining operation, so bio-geochemical processes are not envisaged. There is no water bodies within 500 m radius of the project site.	
	Energy		
	28. The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilize the Energy shall be furnished.	Complied. The details are described in Chapter 4.	135
	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	Only the best equipment will be used, and it will be properly and regularly maintained. Regular vehicular	

	temperature reduction including control of other emission and climate mitigation activities.	emission tests will be conducted on the transport vehicles to ensure minimal carbon emissions.	
	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.	To further reduce carbon emissions, a good greenbelt plan has been planned. The carbon emission and the measures to mitigate carbon emission have been discussed in Chapter 4.	
	31. Impact of mining on pollution leading to GHGs emissions and the impact of the same on the local livelihood.		
	Mine Closure Plan		
	32. Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued.	Detailed mine closure plan is given in Chapter 2.	
	EMP		
	33. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued and the scope for achieving SDGs.	Complied. The details are described in Chapter 10.	
	34. The Environmental Impact Assessment should hold detailed study on EMP with budget for green belt development and mine closure plan including disaster management plan.	Total EMP Cost for 10 years is 34.46 lakhs i.e. Capital Cost Rs. 9.1 Lakhs + Recurring Cost Rs. 25.36 for ten years, which is including greenbelt cost and cost for mine closure plan. The breakup of the EMP cost is mentioned in table 10-2.	
	Risk Assessment		

	35. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.	Complied. The details are described in Chapter 7.	
	Disaster Management Plan		
	36. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities covering the entire mine lease period as per precise area communication order issued.	Complied. The details are described in Chapter 7.	
	Others		
	37. The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc.	There are no historical places, schools, cemeteries, temples, bird sanctuaries, and wildlife sanctuaries within 500 metres of the proposed project area. In this regard, the project proponent has received an official letter from the Village Administrative Officer. The letter copy enclosed as Annexure – 5.	
	38. As per the MoEF& CC office memorandum F.N0.22-65/2017-1A.11I dated: 30.09.2020 and20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan.	Complied. The action plan of the public hearing will be furnished in the final EIA report	
	39. The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the environment. The	Complied. The PP has framed detail solid waste management system for the project are and 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.	same will be executed by proper awareness and sign boards. The sign boards will be in two language i.e., Vernacular language (Tamil) and common language (English). The plastic waste generation is very negligible and it will be collected from the source level in specific dustbin and disposed through the municipal bins.	
STANDARD TOR			
1.	Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force. w.r.t. the highest production achieved prior to 1994	This is a fresh quarry	
2.	A copy of the document in support of the fact that the proponent is the rightful lessee of the mine should be given.	It is a Government land and the applicant has obtained tender from the Government. The copy of the Precise area communication letter received from the Assistant Director, Department of Geology & Mining, Perambalur District enclosed as Annexure – 2 and Adangal & A-Register enclosed as Annexure - 6	
3.	All documents including approved mine plan, EIA and public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.	Noted & agreed. All documents including approved mine plan, EIA and Public Hearing are compatible with one another in terms of the mine lease area, production levels, waste generation and its	

		management, mining technology etc. and is in the name of the lessee.	
4.	All comer coordinates of the mine lease area, superimposed on a High -Resolution Imagery/ topo sheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).	The following map in 1:50,000 Scale: Geology map of the project area covering 10km radius – Figure No. 3-17. Geomorphology Map of the Study Area covering 10 km radius – Figure No. 3-18. Important water bodies, streams and rivers are highlighted in Figure 3-6 and Soil Characteristics are shown in Figure 3-13	
5.	Information should be provided in Survey of India Topo sheet in l:50,000 scare indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.	The following map in 1:50,000 Scale: Geology map of the project area covering 10km radius – Figure No. 3-17. Geomorphology Map of the Study Area covering 10 km radius – Figure No. 3-18. Important water bodies, streams and rivers are highlighted in Figure 3-6 and Soil Characteristics are shown in Figure 3-13	
6.	Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.	**a. Precise Area Communication:** The Project Proponent has obtained Precise area communication letter received from the Assistant Director, Department of Geology and Mining, Perambalur vide Rc.No.110/G&M/2025, dated: 28.04.2025. The letter copy is enclosed as Annexure – 2. **b. Mining Plan Approval:**	

		The project proponent has prepared Mining Plan under rule 8, 41 & 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 and the same has been approved by the Assistant Director, Department of Geology and Mining, Perambalur vide Rc.No.110/G&M/2025, dated: 12.05.2025. The approval letter along with Mining Plan is enclosed as Annexure - 3	
7.	It should be clearly stated whether the proponent company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.	The proponent will frame a well-planned environmental policy. Its details are provided under Section 10.1, Chapter-10. Monitoring Mechanism is detailed under Section .10.3.	
8.	Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.	Various risks likely to arise due to mining activities are detailed under section 7.2, Chapter-7. This being an opencast mine, subsidence is not applicable. The impact due to ground vibrations due to blasting is given in para 4.4.4, Chapter-4.	

9.	The study area will comprise of l0 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.	Noted & Agreed The study area considered for this study is 10 km radius and all data contained in the EIA report such as waste generation etc., is for the Life of the Mine / lease period.	
10.	Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary. national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.	The land use of the study area was studied to demarcate various LULC categories and its details are provided under section 3.7.6.2 of Chapter-3. The land use pattern at present and at the end of the quarrying period has been provided in Table 3.16, Chapter-3. The Conceptual plan of mine lease area is shown in Figure No- 2-11.	
11.	Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.	There is no overburden anticipated during the entire rough stone quarrying operation.	
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. ln 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.	There is no Forest Land involved in the proposed project area.	

13.	Status of forestry clearance for the broken-up area and virgin forestland involved in the Project including deposition of Net Present Value (NPV) and Compensatory Afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.	Not Applicable. The proposed project area does not involve any Forest Land. The proposed project area is a Government land. Approved Mining Plan is enclosed in Annexure – 3.	
14.	Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act,2006 should be indicated.	Not Applicable. The project doesn't attract Recognition of Forest Rights Act, 2006.	
15.	The vegetation in the RF / PF areas in the study area, with necessary details, should be given.	The list of RF in the study area are: Nagoor R.F-8.16Km (NW), Kalarampatti R.F-9.10Km(NW) There is no reserve Forest area within 1 km radius. Topo map is given in figure 3.6.	
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.	Not applicable. The mining lease area and the 10 km buffer zone from the periphery of the core zone is devoid of declared ecologically sensitive features like national parks, biospheres, sanctuaries, etc.	
17.	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within l0 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as	Not Applicable. There are No National Parks, Biosphere Reserves, Wildlife Corridors, and Tiger/Elephant Reserves within 10 km Radius from the periphery of the project area.	

	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 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.	The detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] is carried out and the details are incorporated in section 3.7.7 of Chapter 3	
19.	Proximity to Areas declared as 'critically Polluted' or the project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities. such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.	Not Applicable	
20.	Similarly, for coastal projects, a CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease with respect to CRZ, Coastal features such as mangroves, if any, should be furnished. (Note: The Mining projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).	Not Applicable	

21.	R&R Plan/compensation details for the project Affected people (PAP) should be furnished. While preparing the R&R Plan, the relevant State/ National Rehabilitation & Resettlement policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the state Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.	Not Applicable	
22.	One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season); December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of2009, water quality, noise revel, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant	Baseline Data is collected in summer season (March 2025 – May 2025) for AAQ, WQ, NL and EB. Site-specific meteorological study data is collected. 2 Locations are chosen for upwind, 2 Locations for downwind and 2 Locations for crosswind apart from project location.	

	downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.		
23.	Air quality modelling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of Vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.	Air Quality Modelling for prediction of incremental GLC's of pollutant was carried out using AERMOD view and Detailed in Chapter 4. Air Quality Modelling for Cluster are also detailed in Chapter 4 under section 4.2.4.3.	
24.	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.	The total water requirement for the project is 3.0 KLD. The required water will be procured from outside agencies initially and later rainwater harvested in the mine pit shall be used other than drinking purpose. Water Balance diagram is presented in Figure 2.12 of chapter 2	
25.	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.	Water will be sourced from local vendors and ground water will not be extracted. Hence, not applicable.	
26.	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.	Details of water conservation measures in detailed in Chapter 4.	
27.	Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.	Impact Studies and Mitigation Measures of Water Environment including Surface Water and Ground Water are discussed in Chapter 4	

28.	Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-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.	The quarrying activity will not intersect ground water table as quarrying is proposed up to a depth of 47m AGL and water table is found at a depth of 70 m BGL.	
29.	Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.	Not applicable	
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.	≃ 290 m from above MSL. Working Depth: 47m AGL Depth of Ground Water Table: 67 - 70m BGL	
31.	A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the 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	Greenbelt Development are detailed in Chapter 2 0.50.0 hectares of land are allotted for greenbelt development. A total of 500 trees will be planted in the ML area.	

	to the local population with emphasis on local and native species and the species which are tolerant to pollution.		
32.	Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.	The traffic density study was carried out and the same is given in section 2.12 of Chapter 2.	
33.	Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.	Temporary Infrastructure & other facilities will be provided to the Mine Workers after the grant of quarry lease.	
34.	Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.	At the conceptual stage the quarried-out land will be fenced and lower benches will be allowed to collect rain water to act as a temporary reservoir and Greenbelt development will be carried out on the top bench, unutilized areas and haul roads.	
35.	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.	Details of occupational health and safety aspects are given in section 4.4.7 of Chapter 4	

36.	Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.	No Public Health Implications anticipated due to this project. Details of CER and CSR are discussed under Chapter No. 8 under section 8.1	
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.	This project provides employment to 27 people directly. Local people will be hired for unskilled labour. Through CSR, nearby schools, hospitals will be benefitted. For CSR, INR 3.0 Lakh is allocated. Based on the demand of the people during public hearing, further funds will be allocated, if necessary.	
38.	Detailed Environmental Management Plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.	Environmental Management plan details are given in Chapter 10.	
39.	Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.	The details of the public hearing will be included in Chapter 7 along with detailed action plan.	
40.	Details of litigation pending against the project, if any, with direction /order paced by any Court of Law against the Project should be given.	There is no litigation pending against the project.	
41.	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.	Project Cost: 586.46 Lakhs CER Cost: Rs. 3.0 Lakhs EMP Cost: Rs. 34.46 Lakhs	

42.	A Disaster management Plan shall be prepared and included in the EIA/EMP Report.	Included in Chapter 7	
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.	Outlined in Chapter 8	
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.	All the documents are 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.	Yes, Complied	
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,	Baseline monitoring results are detailed in Chapter 3. Original Baseline monitoring reports will be made available during final appraisal of the project.	
d.	Where the documents provided are in a language other than English, an English translation should be provided.	Yes, complied	
e.	The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.	Yes, complied	
f.	While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J- l 1013/41/2006-IA.11 0) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.	Noted & agreed	
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	Noted & agreed	

	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-l l0l I161812010-1A.ll (l) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the Environment Clearance the existing operations of the project, should be obtained from the Regional office of Ministry of Environment, Forest and Climate Change, as may be applicable.	Yes, Complied	
i.	The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.	Surface Plan and Geological Plan – Figure No. 2-8 and Figure No. 2-9	69, 73

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 proposed & existing quarries located within 500 m radius of the project area.

M/s. Chozha Groups proposes to operate Rough Stone Quarry over an extent of 1.80.0 Ha Government land in S.F. No. 27/1A (Block-2) of Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu State and ToR obtained vide ToR Identification No. TO25B0108TN5501934N Dated: 30.07.2025.

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

Table 1.1 – Details of Quarries within 500m Radius

S.No	Name of the Quarry Owner	S.F. Nos & Village	Lease Period	Area
a. Abandoned Quarry: NIL				
b. Existing Quarry				
1.	Thiru.A.Abner	27/1A (Block-9) Elambalur Village, Perambalur Taluk	R.C.No.138/G &M/2019 Dated 03.02.2021 (15.02.2021 to 14.02.2026)	1.00.0Ha
2.	Thiru.M.Kumar	27/1A Elambalur Village, Perambalur Taluk	R.C.No.137/G &M/2019 Dated 18.06.2021 (21.06.2021 to 20.06.2026)	1.00.0Ha
c. Proposed Quarry				
1	M/s. Chozha Groups	27/1A (Block-2) Elambalur Village, Perambalur Taluk	Present Proposed	1.80.0Ha
2	M/s. Elangovan Stone Crusher	27/1A (Block-3) Elambalur Village, Perambalur Taluk	Proposed	2.50.0Ha
3	M/s. K.C.R Bluemetal	27/1A (Block-1) Elambalur Village, Perambalur Taluk	Proposed	1.20.0Ha
Total Area of Cluster		**7.50.0Ha**		

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

As per MoEFCC OM: F.No. L-11011/175/2018-IA-II(M), dated 12.12.2018, the EIA/EMP report has to be prepared for the cluster area based on ToR recommended by SEIAA. Therefore, the applicant applied for ToR through Parivesh website vide online proposal no. SIA/TN/MIN/541541/2025 Dated 18/06/2025. The ToR proposal was placed in 587th SEAC meeting Dated 07.07.2025 and 859th SEIAA meeting Dated 24.07.2025. Then ToR has been issued by the SEIAA vide

ToR Identification No. TO25B0108TN5501934N Dated: 30.07.2025 to prepare the draft EIA report as per the recommended ToR for conducting public hearing and obtaining Environmental Clearance from the SEIAA.

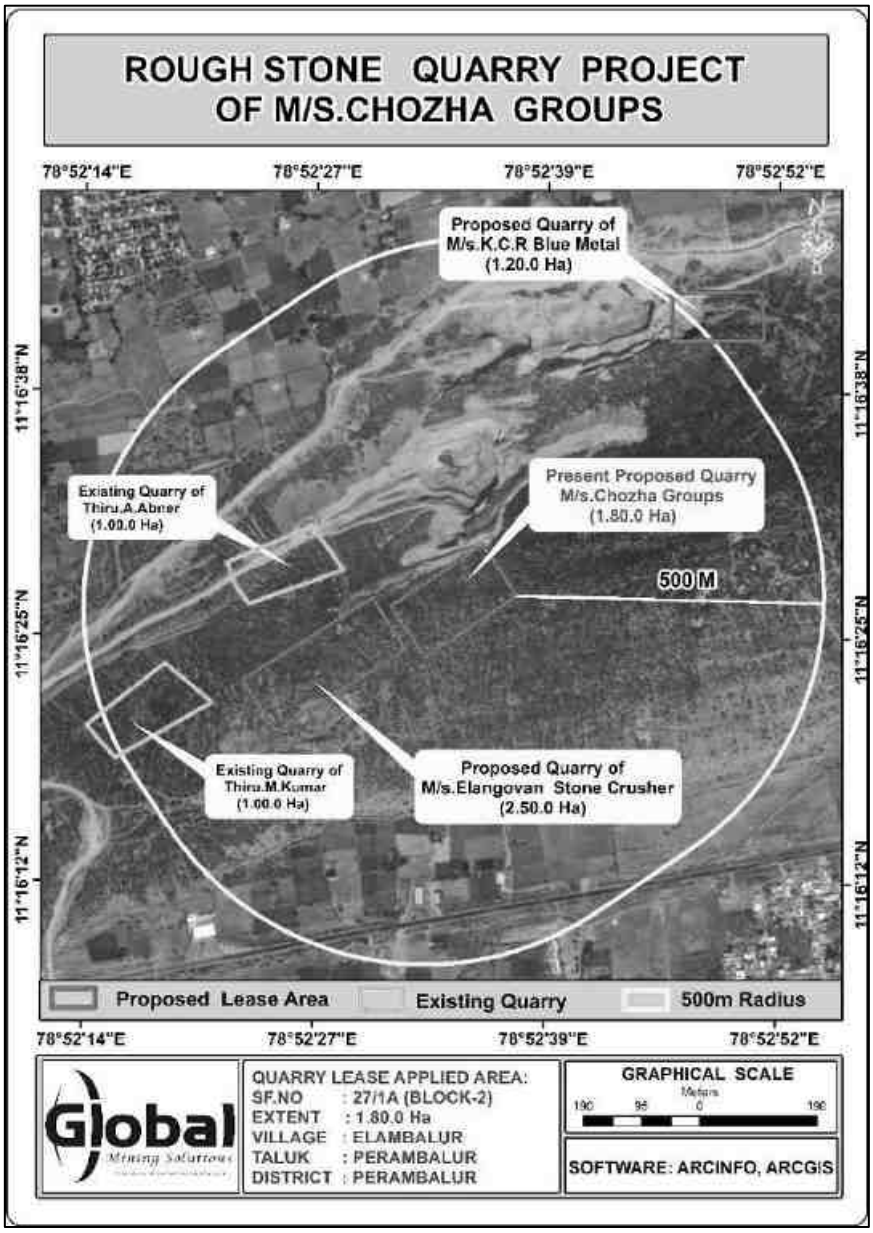


Figure1.1 Satellite Image showing cluster quarries

1.2 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 M/s. Chozha Groups
S.F No.	S. F. No. 27/1A (Block-2)
Location of the Project	Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu State
Extent	1.80.0 Ha.
Type of Land	Government Poramboke Land and the PP has obtained Tender

1.2.2 IDENTIFICATION OF PROJECT PROPONENT

Table -1.3- Details of Project Proponent

Name of the Project Proponent	M/s. Chozha Groups
Communication address	Old No.1/85,New No.4/155, Mariyammankovil Street, Eruthukaranpatti, Rajaji Nagar, Ariyalur-621713
e-mail Address	groupschozha@gmail.com
Mobile No.	9444709913

1.3 BRIEF DESCRIPTION OF THE PROJECT

1.3.1 NATURE AND SIZE OF THE PROJECT

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

Table – 1.4 Brief Descriptions of the Project

<table>
<tr><td>Name of the Quarry</td><td colspan="3">Proposed Rough Stone Quarry of M/s. Chozha Groups</td></tr>
<tr><td>Toposheet No</td><td colspan="3">58 I /15</td></tr>
<tr><td>Latitude between</td><td colspan="3">11°16'23.90"N to 11°16'29.88"N</td></tr>
<tr><td>Longitude between</td><td colspan="3">78°52'31.01"E to 78°52'37.77"E</td></tr>
<tr><td>The altitude of the area</td><td colspan="3">290m (MSL)</td></tr>
<tr><td>Proposed Depth of Mining</td><td colspan="3">47m AGL</td></tr>
<tr><td>Geological Resources</td><td colspan="3">6,12,970 m3</td></tr>
<tr><td>Mineable Reserves</td><td colspan="3">3,11,135 m3</td></tr>
<tr><td>Proposed Production</td><td colspan="3">Total production for 10 years - 3,11,135 m^3
First five years – 2,35,070 m^3
Second Five years – 76,065 m^3</td></tr>
<tr><td>Ultimate pit Dimension</td><td colspan="3">160 m (L) x 80 m (W) x Depth – 47m AGL</td></tr>
<tr><td>Water Level in the area</td><td colspan="3">67 – 70 m BGL</td></tr>
<tr><td>Method of Mining</td><td colspan="3">Opencast method of semi mechanized mining with 5.0m height 5m width the bench.</td></tr>
<tr><td>Topography</td><td colspan="3">The area applied for quarry lease is exhibits hilly terrain covered by covered by Topsoil formation. The massive Charnockite formation is noticed below 2m (Avg) Topsoil and sloping towards north side of the area, the altitude of the area is above 290 m (maximum) from MSL.</td></tr>
<tr><td>Machinery Proposed</td><td>Jack Hammer</td><td colspan="2">3 Nos</td></tr>
<tr><td></td><td>Compressor</td><td colspan="2">1 No</td></tr>
<tr><td></td><td>Excavator with bucket and rock breaker</td><td colspan="2">2 Nos</td></tr>
<tr><td></td><td>Tipper (10/20 Ts)</td><td colspan="2">3 Nos</td></tr>
<tr><td>Environmental Setting within 500m Radius</td><td colspan="3">Nearest Habitation - Samathuvapuram Habitation – 820 m (SW)
Nearest Waterbody- Nil within 500 m radius.
Nearest RF – Nil within 1 km Radius</td></tr>
<tr><td>Details of Habitation</td><td colspan="3"><table>
<tr><th>S. No</th><th>Name of the Village</th><th>Approximate distance & Direction from lease applied area</th><th>Approximate population</th></tr>
<tr><td>1.</td><td>Thaneerpandhal</td><td>1.8km - NE</td><td>800</td></tr>
<tr><td>2.</td><td>Erikarai</td><td>0.6km – NW</td><td>400</td></tr>
<tr><td>3.</td><td>Elambalur</td><td>0.8km-SE</td><td>900</td></tr>
<tr><td>4.</td><td>Samathuvapuram</td><td>0.9km-SW</td><td>500</td></tr>
</table></td></tr>
</table>

Proposed Manpower Development	27 Nos
Water Requirement	3.0 KLD
Greenbelt Development	The safety zone of 0.50.0 Ha will be developed with about 500 Nos. of plantation.
Fuel Requirement	1,92,963 liters of HSD (Entire Project Life)
Project Cost	Rs.586.46 Lakhs (Including operational + Fixed Asset + EMP cost).
EMP Cost	Total EMP Cost for 10 years is 34.46 lakhs i.e., Rs. 9.1 Lakhs of Capital Cost + Rs. 25.36 Lakhs of Recurring cost (For 10 Years)
CER Cost	Rs. 3 Lakhs
Applicability of CRZ Clearance	Not Applicable

1.3.2 NATURE OF THE PROJECT

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

1.3.3 LOCATION OF PROJECT

The proposed Quarry lease area is situated at S.F.NO.27/1A (Block-2) of Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu State. The area lies in the north latitude of **11°16'23.90"N to 11°16'29.88"N** and eastern longitude of **78°52'31.01"E to 78°52'37.77"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

Description	Issuing Authority	Status	Letter number	Date	Reference
Precise Area Communication	Assistant Director, Department of Geology and Mining, Perambalur	Received	Rc.No.110/G&M/2025	28.04.2025	Annexure - 2
Mine Plan Approval Letter	Assistant Director, Department of Geology and Mining, Perambalur	Approved	Rc.No.110/G&M/2025	12.05.2025	Annexure - 3
500m radiusCluster Letter	Assistant Director, Department of Geology and Mining, Perambalur	Obtained	Rc.No.110/G&M/2025	12.05.2025	Annexure - 4
VAO NOC for features within300m radius	VAO, Elambalur Village	obtained	-	27.05.2025	Annexure - 5

1.5.2 SCREENING

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

1.5.3 SCOPING

The proposal was placed in the 587th SEAC meeting held on 07.07.2025. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Terms of Reference (ToR) to SEIAA and SEIAA recommended ToR in its 859th SEIAA meeting held on 24.07.2025.

1.5.4 SCOPE OF THE STUDY

In line with the prescribed Terms of Reference (TOR), the area comprising 10 km radius around the proposed mine lease boundary is considered as the study area. The EIA/EMP report has been prepared following the generic structure specified in the EIA Notification 2006. The detailed studies have been conducted as per prescribed Standard TOR issued by SEIAA, Tamil Nadu vide ToR Identification No. TO25B0108TN5501934N Dated: 30.07.2025. 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 2025 – May 2025** for various environmental components so as to assess the anticipated impacts due the cluster quarry projects on the environment and suggest suitable mitigation measures for likely adverse impacts due to this proposed project.

The scope of study broadly covered as below,

- Literature review and collection of secondary data relevant to the study area.
- Establish the baseline environmental aspects in and around the proposed project covering 10 km radius.
- Identify various existing pollution loads due to various mining activities.
- Predict incremental levels of pollutants in the study area due to the proposed operations.
- Establishing and analysing 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. Cost Benefit Analysis

Environmental Cost Benefit Analysis has not been recommended at Scoping Stage – thus no analysis carried out separately in this EIA/EMP Report.

10. Environmental Management Plan

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

11. Summary and Conclusion

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

12. Disclosure of Consultant

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 mechanized mining method.

This project proposed to produce 3,11,135 m^3 of Rough Stone for the period of 10 years with ultimate depth up to 47 m AGL.

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 Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu State. The area lies in the north latitude of **11°16'23.90"N to 11°16'29.88"N** and eastern longitude of **78°52'31.01"E to 78°52'37.77"E** and **toposheet number 58 I/15.** 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 & does not fall within 10 km radius of any Eco – sensitive zone, Wild life Sanctuary, National Park, Tiger Reserve, Elephant Corridor and Biosphere Reserves. The M.L area details are presented in below Table.

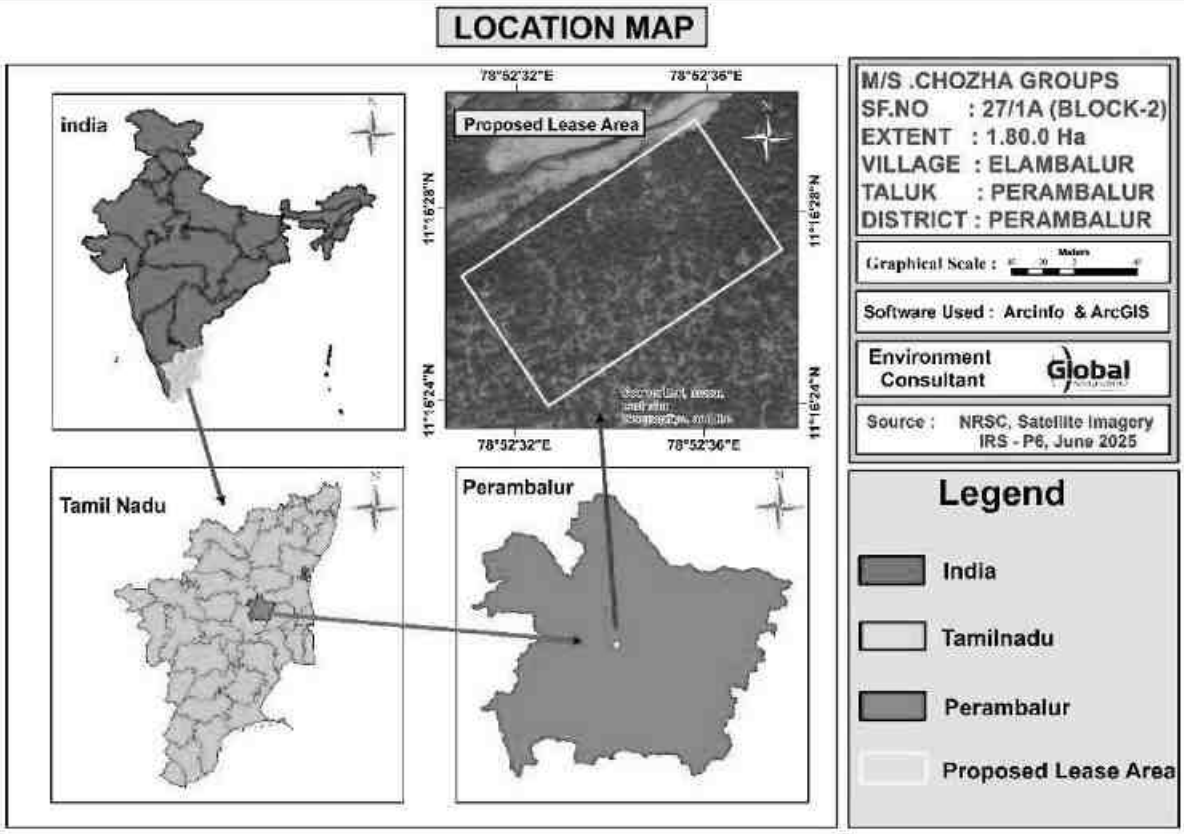


Figure 2.1 Location Map

Table 2.1 Boundary Coordinates of the Project Site

Corners	Co- ordinates	
	Latitude	Longitude
1	11° 16' 26.59"N	78° 52' 31.01"E
2	11° 16' 29.88"N	78° 52' 35.92"E
3	11° 16' 27.19"N	78° 52' 37.77"E
4	11° 16' 23.90"N	78° 52' 32.87"E



Figure 2.2 Google Image of the project site with Boundary Coordinates

Table 2.2 Mine Lease Area and its Ownership

Location	S.F. No	Area in Ha	Land Type	Remarks
Elambalur Village, Perambalur Taluk, Perambalur District	27/1A (BLOCK-2)	1.80.0 Ha	Government Land	The PP has obtained Tender
Total	**1.80.0 Ha**			

Table 2.3 Site Connectivity

Nearest Roadway	• (NH-136) Ariyalur – Athur Road- 0.42 km (S) • (SH-157) Perambalur – Athur Road- 3.0 km (SW)
Nearest Village	Samathuvapuram - 820m(SW)
Nearest Railway Statin	Ariyalur Railway Station (24.9 km, SE)
Nearest Airport	Tiruchirappalli International Airport (61.8 km, SW)

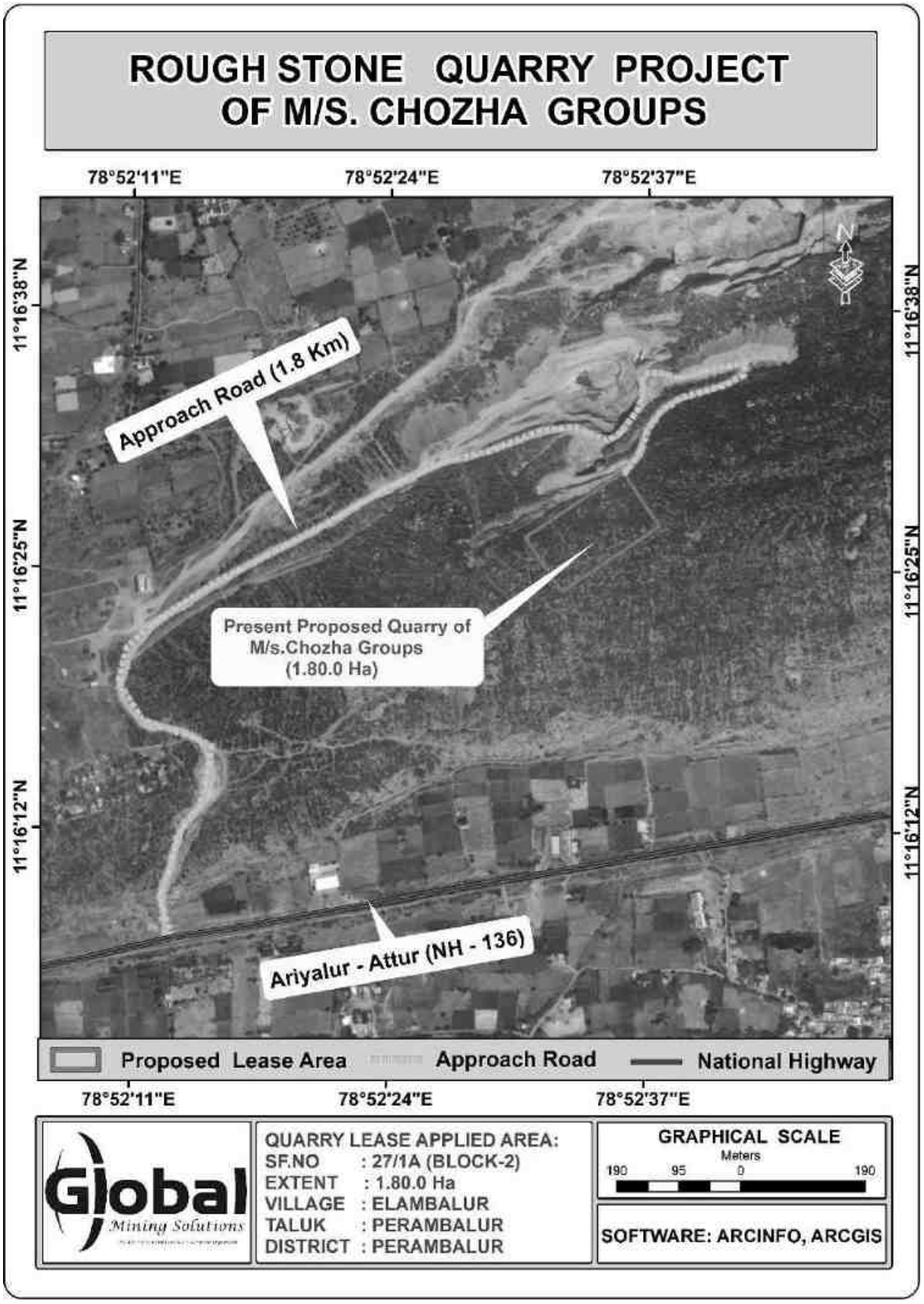


Figure 2.3 Site Connectivity Map

Table 2.4 Salient features of the Project

S. No.	Particulars	Details
1.	Proponent Name	M/s. Chozha Groups
2.	Proposed project	Rough Stone Quarry of M/s. Chozha Groups
3.	Extent	1.80.0 Ha and the cluster area within 500 m radius including the proposed mine is 7.50.00 Ha > 5 Ha
4.	Location	S.F.No. 27/1A (Block-2), Elambalur Village, Perambalur Taluk, Perambalur District
5.	Co-ordinates of the project site	Latitude: 11°16'23.90"N to 11°16'29.88"N Longitude: 78°52'31.01"E to 78°52'37.77"E
6.	Topography	Hilly Terrain
7.	Site Elevation above MSL	≃ 290 m from above MSL
8.	Topo Sheet No.	58 I /15
9.	Minerals of Mine	Rough Stone
10.	Proposed production in m3	3,11,135 m^3 of Rough Stone (10 years)
11.	Ultimate Depth of mining	47m AGL
12.	Method of Mining	Opencast method of semi mechanized mining with 5.0m height 5m width the bench.
13.	Drilling/Blasting	Drilling and controlled Blasting is proposed
14.	No. of Working days	300 Days
15.	Water requirement & Source	3.0 kLD and will be sourced from local vendors
16.	Manpower	27 Nos.
17.	Project Cost	Rs. 586.46 lakhs
18.	Mining Plan Approval	Assistant Director, Department of Geology and Mining, Perambalur vide Rc.No.110/G&M/2025, dated: 12.05.2025
19.	Safety Zone	0.50.0 Ha will be maintained as safety zone and tree saplings will be planted in this area
20.	Ground water level	70 m BGL
21.	Distance of Stone Crusher	0.87 km, NE

22.	Previous History & CCR	This is a Fresh Lease. Hence CCR is not applicable

Table 2.5 Environmental Settings of the project site

S. No.	Particulars	Details
1.	Nearest Highway	(NH-136) Ariyalur – Athur – 0.42km (S) (SH-157) Perambalur – Athur – 3.0km (SW)
2.	Interstate Boundary	Not Applicable
3.	Nearest Railway Station	Ariyalur Railway Station (24.9 km, SE)
4.	Nearest Airport	Tiruchurapalli International Airport (61.8 km(SW))
5.	Nearest Village	Samathuvapuram - 820m(SW)
6.	Water bodies	Tank-900m(SW), Elambalur Lake-1.33Km(SE), Thonappady periya Yeri- 8.62Km(N), Esani Lake-6.43Km(NW), Senjeri Lake-7.14Km(SW) , Thuraimangalam Lake-5.37Km(SE),Palayam Lake-8.16Km(SW), Keelapuliyur Lake-9.47Km(NE)
7.	Reserved Forest	Nagoor R.F-8.16Km (NW), Kalarampatti R.F-9.10Km(NW)
8.	Eco Sensitive Zone and Wildlife Sanctuary (Notified)	Nil within 10km radius Karaivetti Bird Sactuary-26.41Km (NW)
9.	Archaeological important places	Nil within 10 km radius
10.	Defense Installations	Nil within 10 km radius
11.	Nearest Port	Nil within 10 km radius
12.	Seismic Zone	Nil within 10 km radius

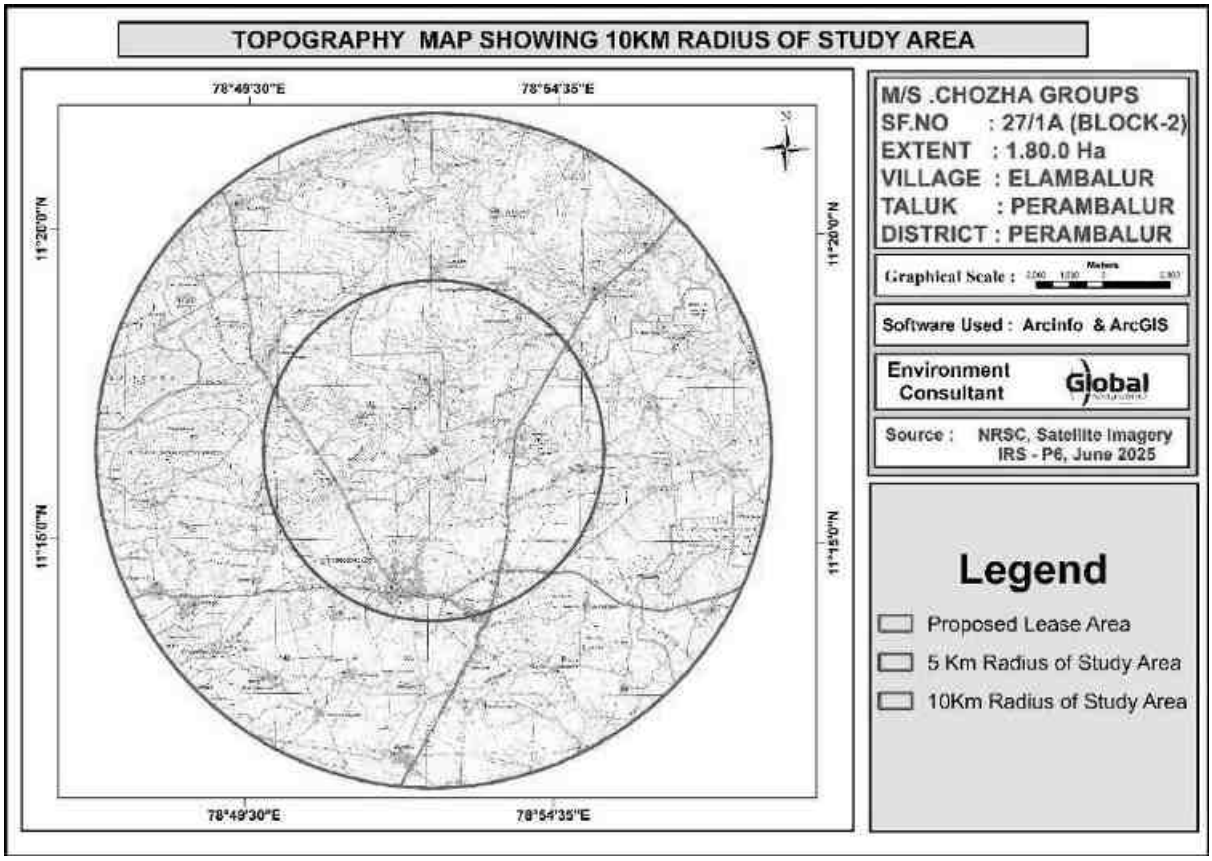


Figure 2.4 TOPO MAP OF THE PROJECT 10 KM RADIUS

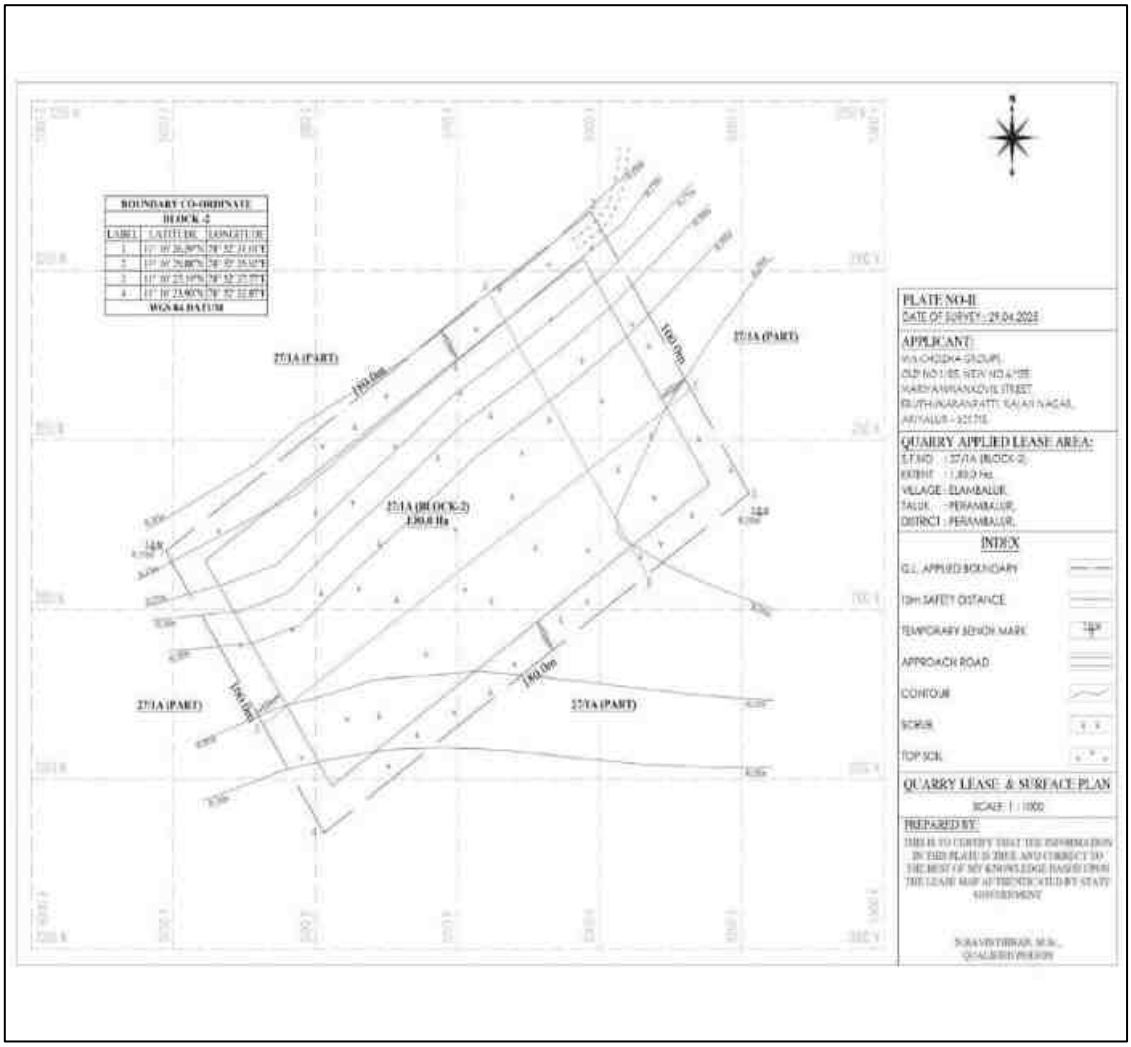


Figure 2.5 Lease Plan

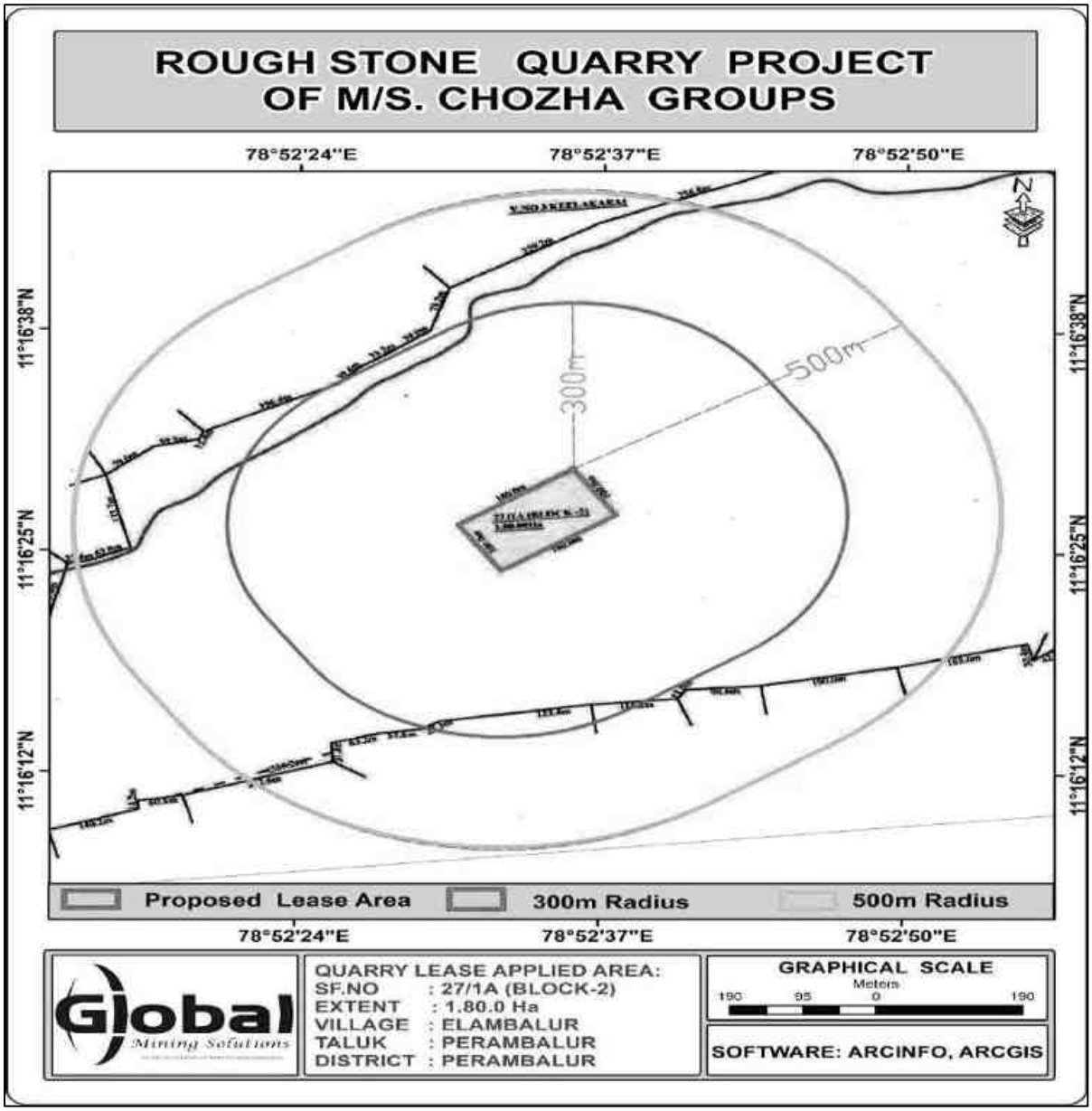


Figure 2.6 Village Map

2.4 LAND USE PATTERN OF THE PROJECT AREA

The entire project site is Government land the applicant has obtained tender from the Government. The land use pattern of the mine lease area as of today and conceptual stage given in Table No. 2.6.

Table 2.6 Land use pattern of the Project area

Description	Present Area (Ha)	Area in use during the quarrying period (Ha)
Quarrying pit	Nil	1.28.0
Infrastructure	Nil	0.01.0
Roads	Nil	0.01.0
Greenbelt	Nil	0.50.0
Unutilized	1.80.0	Nil
Total	**1.80.0**	**1.80.0**

2.5 SIZE AND MAGNITUDE OF THE OPERATION

The proposed activity is the extraction of Rough Stone by open cast Semi mechanized mining method over an extent of 1.80.0 Ha and to produce 3,11,135 m^3 of Rough Stone for the period of 10 years with ultimate depth up to 47m AGL. The details of geological and mineable reserves in the lease area have been provided below in the subsequent sub section.

2.6 TOPOGRAPHY AND DRAINAGE

The area applied for quarry lease is exhibits hilly terrain covered by Topsoil formation. The massive Charnockite formation is noticed below 2m (Avg) Topsoil and sloping towards North side of the area, the altitude of the area is above 290m (maximum) from MSL. No major river is found nearby the lease applied area.

2.7 GEOLOGY

2.7.1 REGIONAL GEOLOGY

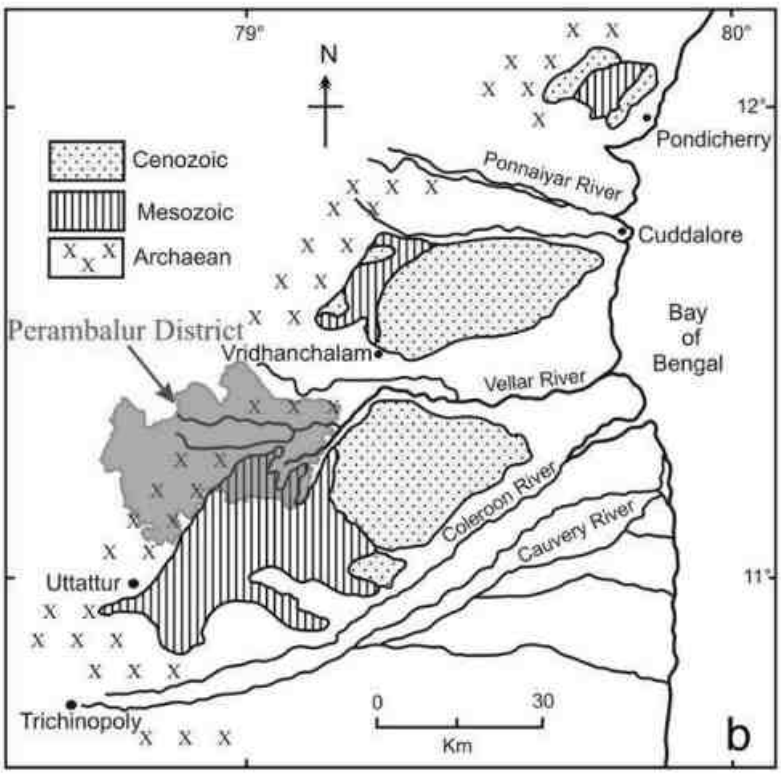
The area is underlain by the wide range of metamorphic rocks of peninsular gneissic complex. These rocks are extensively weathered and overlain by the recent valley fills and alluvium at places. The geological formations found in the district are Archaean rocks like Gneisses, Granites, Charnockites basic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

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

The strike of the Charnockite formation is $N30^0W$-$S30^0E$ with vertical dipping.

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

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



Source: District Survey Report, Perambalur

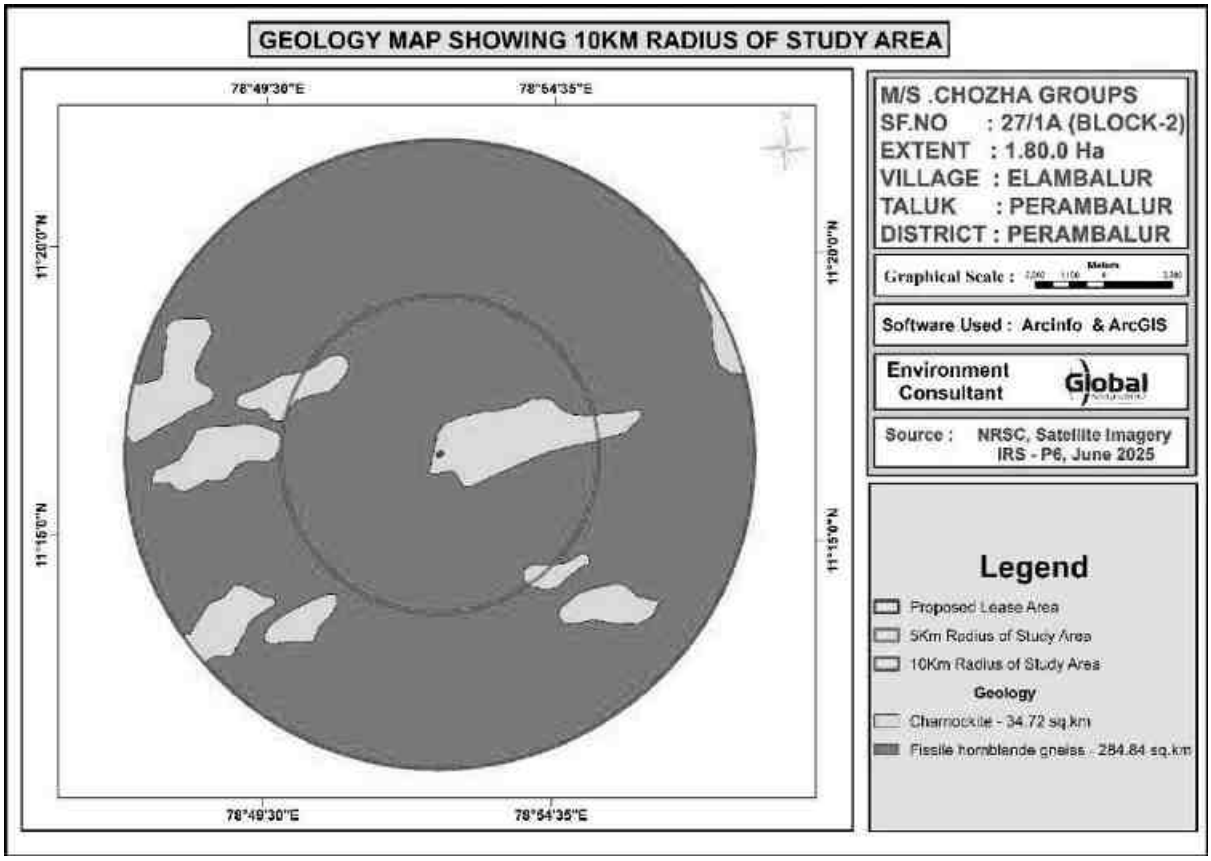


Figure 2.7 Geology Map – 10km Radius from the Project Site

2.7.2 LOCAL GEOLOGY

The geology map reveals that the area is predominantly covered with Fissile Hornblende Gnesis and the remaining area is covered with Charconite. Both Primary data (Local Geology) and Secondary Data (regional Geology) reveals that the area is covered with Hornblende Gnesis and in this way, secondary data is validated with the Primary Data.

2.8 RESOURCES AND RESERVES

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

Table 2.7 Available Geological Resources

Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Top soil in m3	Geological Resources of Rough stone in m3	Bulk Density	Top soil in Ts	Geological Resources of Rough stone in Ts
XY-AB	Above Ground Level	I	180	112	2	40320	-	2	80640.00	-
		II	139	26	5	-	18070	2.75	-	49692.50
		III	180	40	5	-	36000	2.75	-	99000.00
		IV	180	54	5	-	48600	2.75	-	133650.00
		V	180	71	5	-	63900	2.75	-	175725.00
		VI	180	96	5	-	86400	2.75	-	237600.00
		VII	180	100	5	-	90000	2.75	-	247500.00
		VIII	180	100	5	-	90000	2.75	-	247500.00
		IX	180	100	5	-	90000	2.75	-	247500.00
		X	180	100	5	-	90000	2.75	-	247500.00
Total						**40320**	**612970**	**-**	**80640.00**	**1685667.50**

Topsoil Formation: 40,320 m^3

The Geological Resource of Rough Stone: 6,12,970 m^3

2.8.1 MINEABLE RESERVES

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

Table 2.8 – Available Mineable Reserves

Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Top soil in m^3	Mineable Reserves of Rough stone in m^3	Bulk Density	Top soil in Ts	Mineable Reserves of Rough stone in Ts
XY-AB	Above Ground Level	I	160	92	2	29440	-	2	58880.00	-
		II	127	16	5	-	10160	2.75	-	27940.00
		III	153	30	5	-	22950	2.75	-	63112.50
		IV	143	44	5	-	31460	2.75	-	86515.00
		V	133	61	5	-	40565	2.75	-	111553.75
		VI	123	80	5	-	49200	2.75	-	135300.00
		VII	113	80	5	-	45200	2.75	-	124300.00
		VIII	103	80	5	-	41200	2.75	-	113300.00
		IX	93	80	5	-	37200	2.75	-	102300.00
		X	83	80	5	-	33200	2.75	-	91300.00
Total						**29440**	**311135**	**-**	**58880.00**	**855621.25**

The mineable reserve is computed as 3,11,135 m^3 of Rough stone and 29440 m^3 of Topsoil upto a depth of 47m (above ground level) only.

2.9 PROCESS DESCRIPTION AND TECHNOLOGY

2.9.1 PROCESS DESCRIPTON

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

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

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

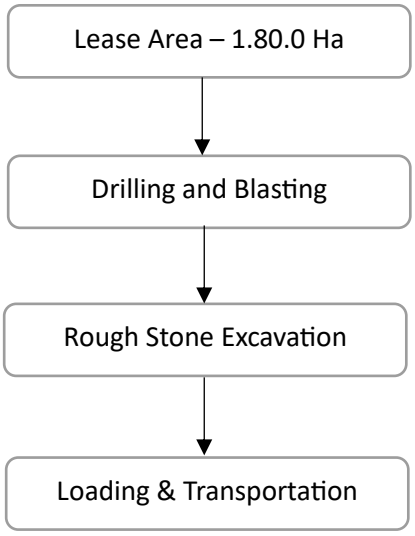
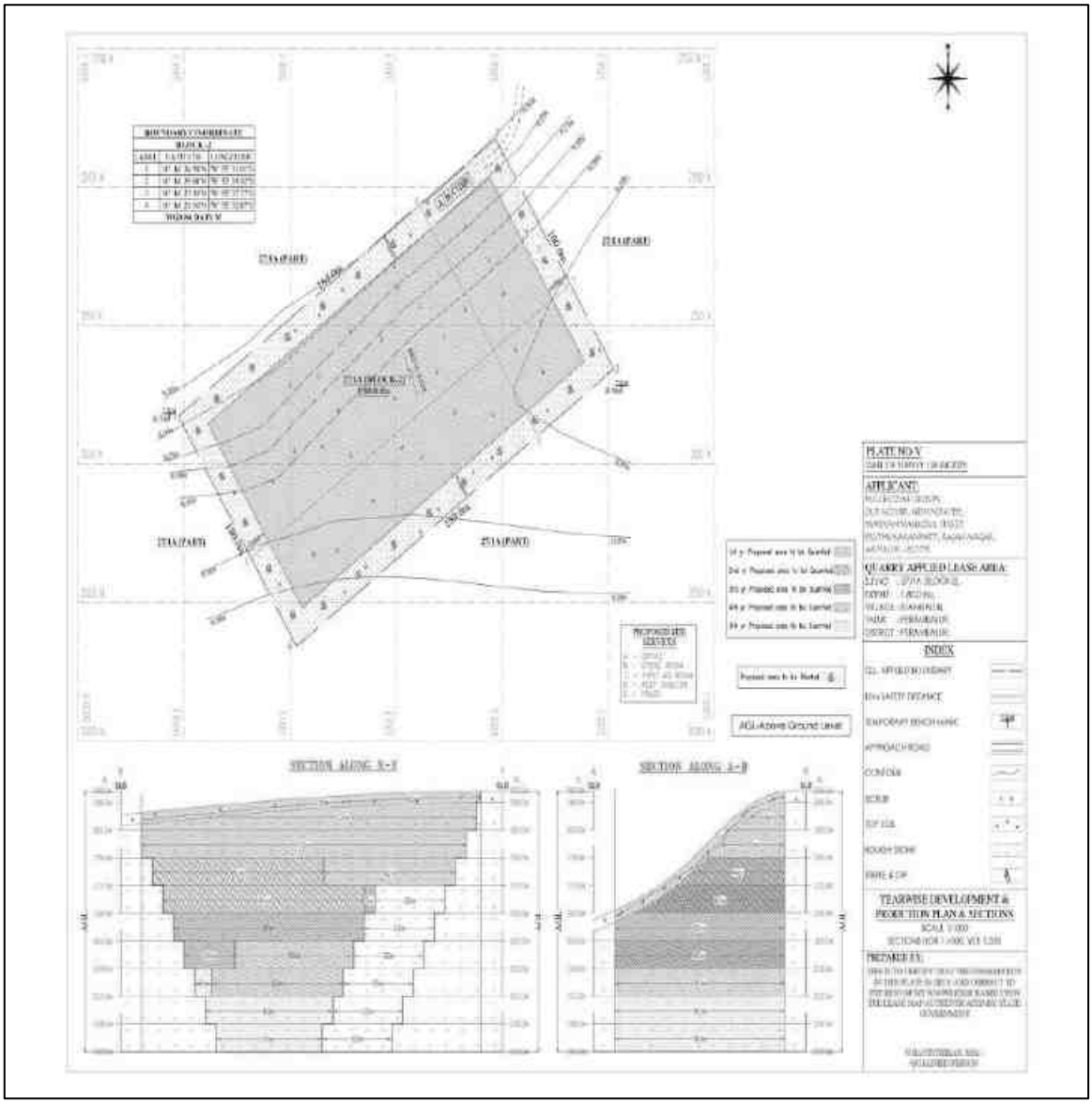


Figure 2.8 Process Flow Diagram


PLATE NO.V
APPLICANT
INDEX
SECTION ALONG X-Y
SECTION ALONG A-B
TEARWISE DEVELOPMENT & PRODUCTION PLAN & SECTIONS

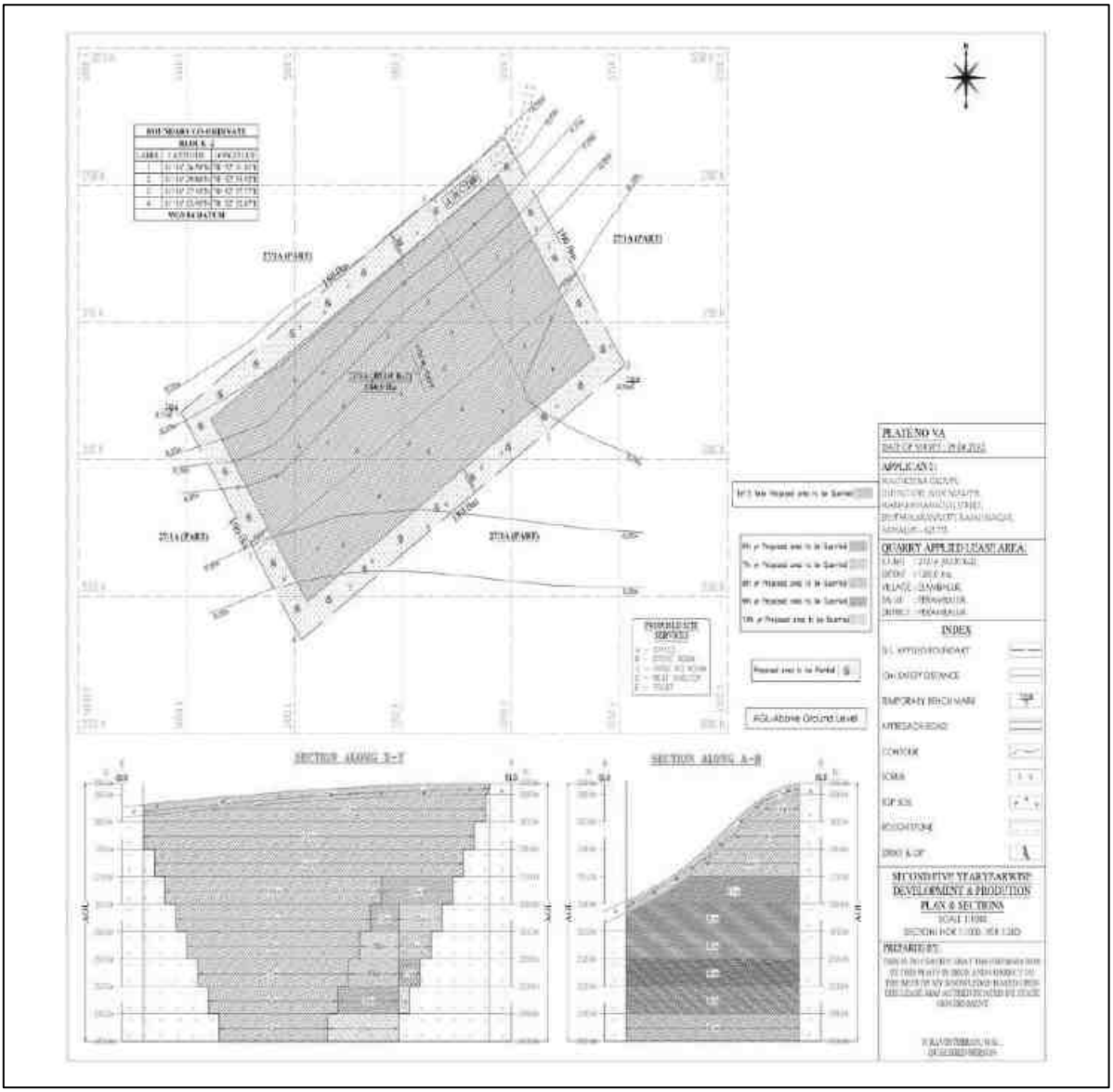


Figure 2.9 Year wise Development & Production Plan & Sections

Table 2.9 – Machinery Details

S.No.	Name of the Equipment	Capacity	Requirement
1	Excavator with Rock breaker attachment	0.90 m^3	2 Nos.
2	Compressor	-	1 No.
3	Jack hammer	1.2m to 6m	3 Nos.
4	Tipper	10/20 Ts	3 Nos.

2.9.2 DRILLING AND BLASTING PARAMETERS

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

Table 2.10 – Details of Blasting

Diameter of the hole	32-36 mm
Spacing	0.6m
Depth	1 to 1.5 m
Burden of hole	0.6m
Pattern of hole	Zig zag
Inclination of hole	70^0 from horizontal
Number of holes	144
Powder factor	6Ts/Kg of Explosives
Total explosive required	72 Kg slurry Explosives
Charge / hole	0.5Kg
Blasting time	12-2 Pm

2.9.3 TYPE OF EXPLOSIVE

Slurry explosive is proposed for shattering and heaving effect for removal of rough stone. No deep hole drilling or primary blasting is proposed. The Project Proponent will engage an authorized explosive agency to carry out the small amount of blasting

2.9.4 STORAGE OF EXPLOSIVES

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

2.9.5 PRODUCTION SCHEDULE

The year wise production schedule upto lease period of 10 years is given below, the year wise production plan is given in Figure 2.10.

Table 2.11 Year wise Production Plan

(i) First Five Years

Year	Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Topsoil in m^3	Rough stone in m^3	Bulk Density	Topsoil in Ts	Mineable Reserves of Rough stone in Ts
I	XY-AB	Above Ground Level	I	160	92	2	29440	-	2	58880	-
			II	127	16	5	-	10160	2.75	-	27940.00
			III	153	30	5	-	22950	2.75	-	63112.50
			IV	62	44	5	-	13640	2.75	-	37510.00
Total							**29440**	**46750**	**-**	**58880**	**128562.50**
II	XY-AB	Above Ground Level	IV	81	44	5	-	17820	2.75	-	49005.00
			V	95	61	5	-	28975	2.75	-	79681.25
Total							**-**	**46795**	**-**	**-**	**128686.25**
III	XY-AB	Above Ground Level	V	5	61	5	-	1525	2.75	-	4193.75
			VI	90	80	5	-	36000	2.75	-	99000.00
			VII	24	80	5	-	9600	2.75	-	26400.00
Total							**-**	**47125**	**-**	**-**	**129593.75**
IV	XY-AB	Above Ground Level	VII	56	80	5	-	22400	2.75	-	61600.00
			VIII	62	80	5	-	24800	2.75	-	68200.00
Total							**-**	**47200**	**-**	**-**	**129800.00**
V	XY-AB	Above Ground Level	VIII	8	80	5	-	3200	2.75	-	8800.00
			IX	60	80	5	-	24000	2.75	-	66000.00
			X	50	80	5	-	20000	2.75	-	55000.00
Total							**-**	**47200**	**-**	**-**	**129800.00**
Grand Total							**29440**	**235070**	**-**	**58880**	**646442.50**

The applicant has proposed to carry out 6,46,442.50Ts of Rough stone and 58,880Ts of Topsoil formation upto a depth of 47m (above ground level) for the period of first five years and remaining quantity of 2,09,178.75Ts of Rough Stone will be proposed for the period of second five years.

(ii) 6th to 10th year

Year	Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Mineable Reserves of Rough stone in m3	Bulk density	Mineable Reserves of Rough stone in Ts
VI	XY-AB	Above Ground Level	V	33	61	5	10065	2.75	27678.75
			VI	13	80	5	5200	2.75	14300.00
Total							15265	-	41978.75
VII	XY-AB	Above Ground Level	VI	20	80	5	8000	2.75	22000.00
			VII	18	80	5	7200	2.75	19800.00
Total							15200	-	41800.00
VIII	XY-AB	Above Ground Level	VII	15	80	5	6000	2.75	16500.00
			VIII	23	80	5	9200	2.75	25300.00
Total							15200	-	41800.00
IX	XY-AB	Above Ground Level	VIII	10	80	5	4000	2.75	11000.00
			IX	28	80	5	11200	2.75	30800.00
Total							15200	-	41800.00
X	XY-AB	Above Ground Level	IX	5	80	5	2000	2.75	5500.00
			X	33	80	5	13200	2.75	36300.00
Total							15200	-	41800.00
Grand Total							76065	-	209178.75

2.9.6 DISPOSAL OF WASTE

The overburden in the form of topsoil, after excavation topsoil will be preserved along the boundary barrier utilized for afforestation purpose.

2.10 CONCEPTUAL MINING PLAN / FINAL MINE CLOSURE PLAN

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

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

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

Pit	Length in m (Max)	Width in m (Max.)	Depth in m (Max.),
I	160	80	47m (above ground level)

Table 2.13 - Land use pattern of the Project site

Description	Present Area in Ha.	Area at the end of life of Quarry in Ha.
Quarrying pit	Nil	1.28.0
Infrastructure	Nil	0.01.0
Roads	Nil	0.01.0
Greenbelt	Nil	0.50.0
Unutilized	1.80.0	Nil
Total	**1.80.0**	**1.80.0**

- At the end of life of mine, the excavated mine pit / void of 1.28.0 Ha will act as artificial reservoir for collecting rain water and helps to meet out the demand or crises during drought season.
- During mine closure the greenbelt (0.50.0 Ha.) will be developed along the safety barrier and top benches and 0.02 Ha are approach road and Infrastructure.

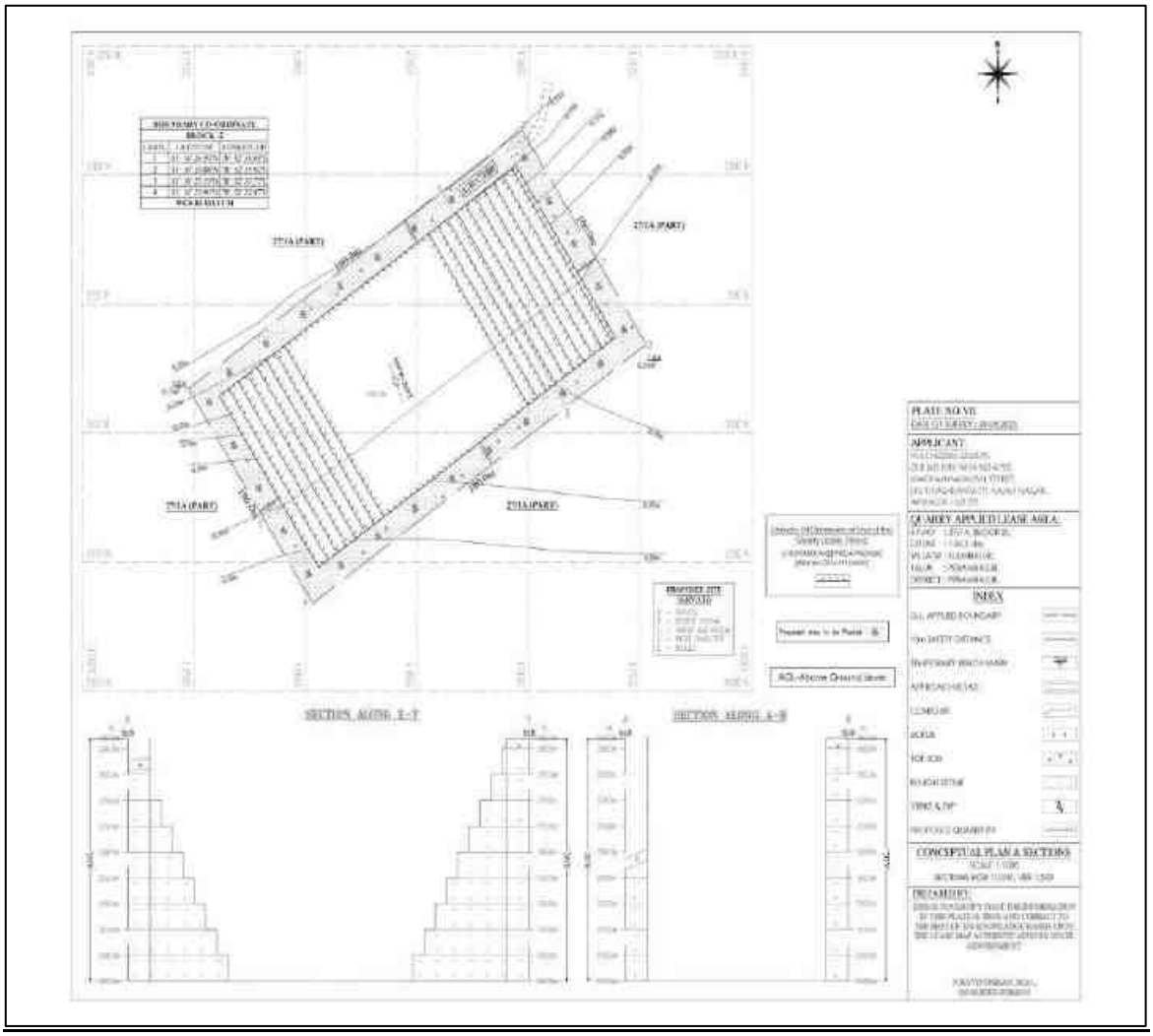


Figure 2.10 Conceptual Plan and Cross Section

2.11 PROJECT REQUIREMENT

2.11.1 WATER REQUIREMENT AND SOURCE

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

Table 2.14 Details of Water requirement

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

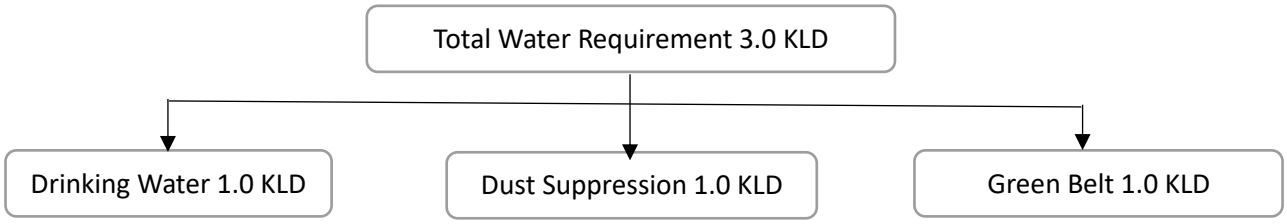


Figure 2.11 Water Balance Chart

2.11.2 POWER REQUIREMENT

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

2.11.3 FUEL REQUIREMENT

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

The Total fuel consumption is around 2,48,908 litres of HSD for the entire period of life.

2.11.4 EMPLOYMENT GENERATION

The project will provide employment opportunities totally to 27 persons directly and 15 indirectly.

Table 2.15 Details of Manpower requirement

1.	Skilled	Mines Manager	1 No.
		Foreman / Mate	2 No.
		Operator	5 No.
		Mechanic	1 No.
2.	Semi–skilled	Driver	3 No.
3.	Unskilled	Labours	15Nos
		Total =	27 Nos

2.11.5 GREEN BELT REQUIREMENT

The safety zone, covering an area of 0.50.0 Hectares, will be maintained as a green belt and planted with 500 Nos. of local species.

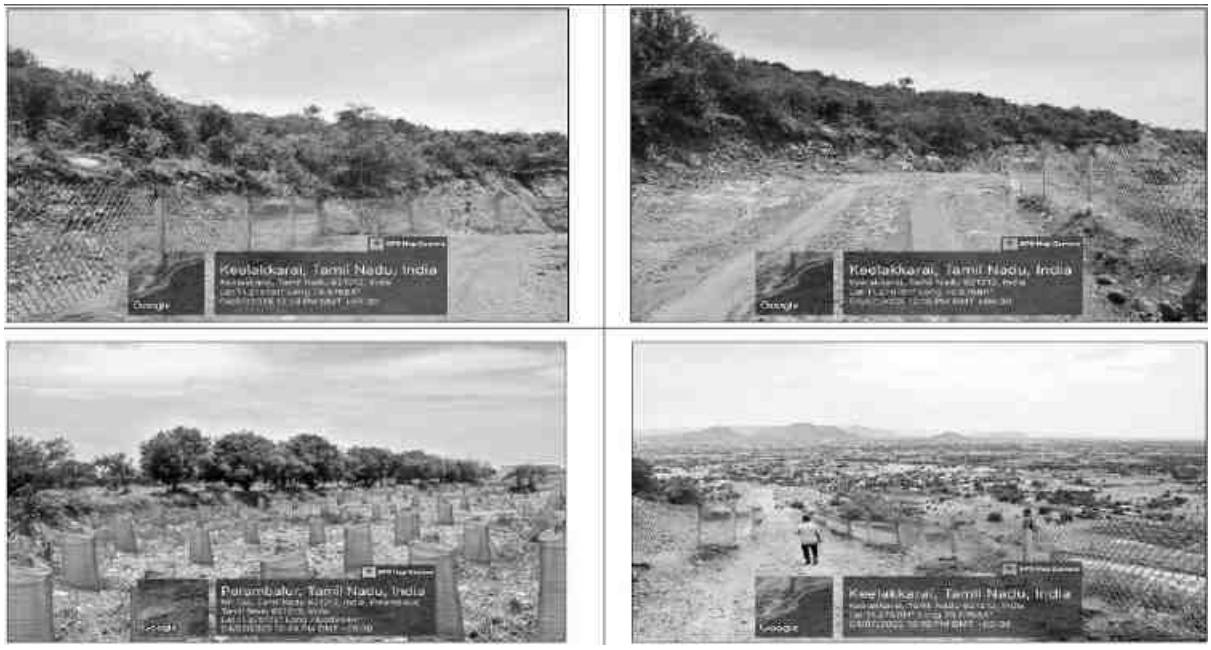


Figure 2.12 Fencing and Plantation Photos

2.11.6 VEHICULAR TRAFFIC DENSITY

The proposed quarry is located in Elambalur village. The final product from the quarry is transported through (NH-136) Ariyalur – Athur which is located at a distance of 0.42km in southern direction.

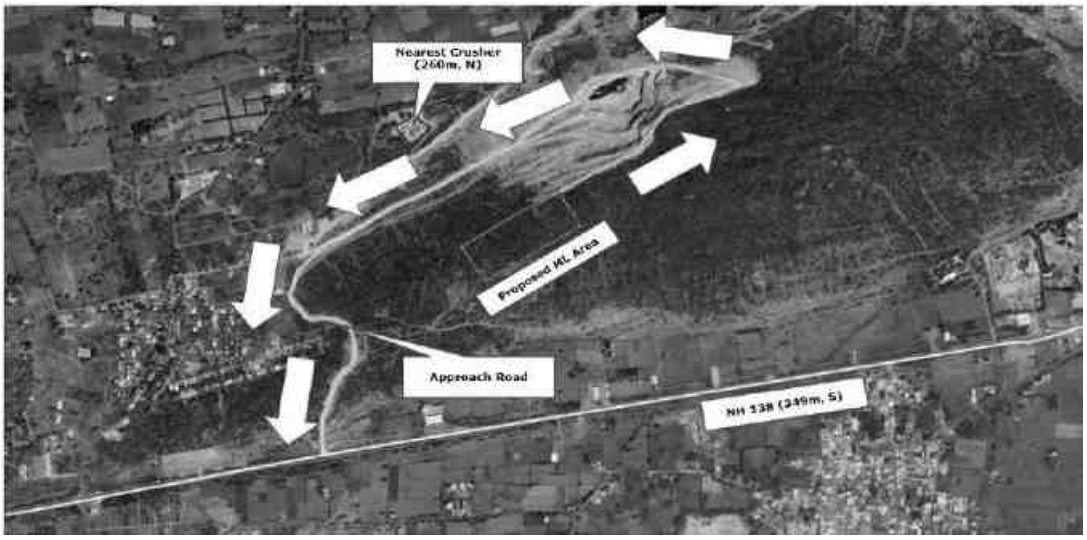


Figure 2.13 Traffic Map with Distance of nearest Crusher

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. The level of service is given below. **(Source: Recommended Design Service Volumes (PCUs per hour), IRC)**

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

Table 2.16 Mineral Transportation			
Production Per day in tons			
Quarry	Quarry Name	Total Mineral in tons per day	No. of Lorry Load per day
P1 (Proposed)	M/s. Chozha Groups	433	43
P2 (Existing)	Thiru.A.Abner	716	72
P3 (Existing)	Thiru.M.Kumar	118	12
P4(Proposed)	M/s. Elangovan Stone Crusher	400	40
P5 (Proposed)	M/s. K.C.R Bluemetal	280	28
Total		1947	195

As two quarries already exist, they are part of the current traffic. The proposed three projects will bring 111 trips per day.

Table 2.17 Summary on Traffic Volume

Route	Existing Traffic Survey in PCU	Incremental Traffic Survey due to project (cluster)	Total traffic survey volume	Hourly capacity in PCU as per IRC -1960 guidelines
NH 136	325	42	367	1500

Table 2.18 Modified Level of Service

Route	Existing Volume PCU/hr	Existing V/C Ratio	Additional Volume PCU/hr	Modified Volume PCU/hr	Modified V/C ratio	Modified LOS
NH 136	325	0.21	42	0.028	0.238	A*

2.11.7 INFRASTRUCTURE REQUIREMENT

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

2.11.8 PROJECT COST

The total project cost of this rough stone Quarry is Rs. 586.46 lakhs

2.11.9 PROJECT IMPLEMENTATION SCHEDULE

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

***

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 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 including Project Site
- Water quality analysis in different locations (7 Ground Water & 2 Surface Water Samples)
- Noise levels monitoring in 7 different locations including Project Site
- Soil quality analysis in 7 locations including Project Site.
- Ecology and Biodiversity study
- Land use & Land Cover.

- Socio-economic survey.

3.3 STUDY PERIOD

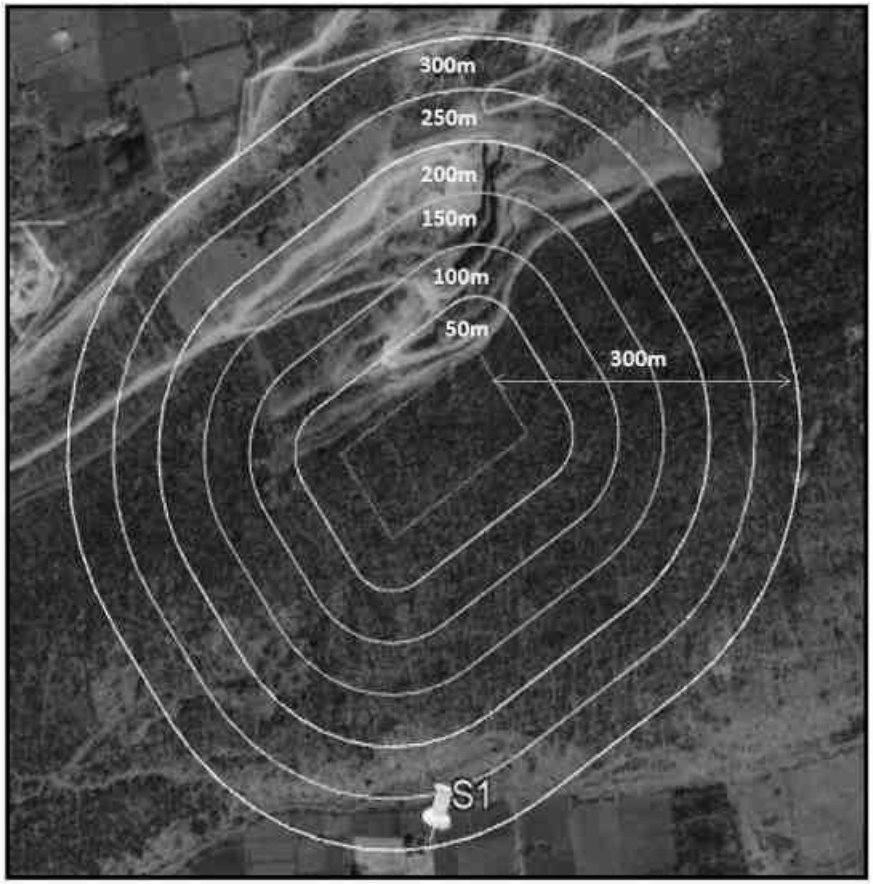
The above-mentioned studies have been carried out systematically and meticulously as per relevant IS codes, CPCB, MoEFCC guidelines during **March 2025 – May 2025**

3.4 MONITORING LAB

The baseline information for Air, Water, Noise, And Soil was analyzed by M/s. Shrient Analytical and Research Labs Pvt Ltd, # 416/15, Dharga Road, Perungalathur, West Tambaram, Chennai – 600 045. (Accredited by NABL as ISO/IEC/17025:2017) between **March 2025 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 Figure 3.1.

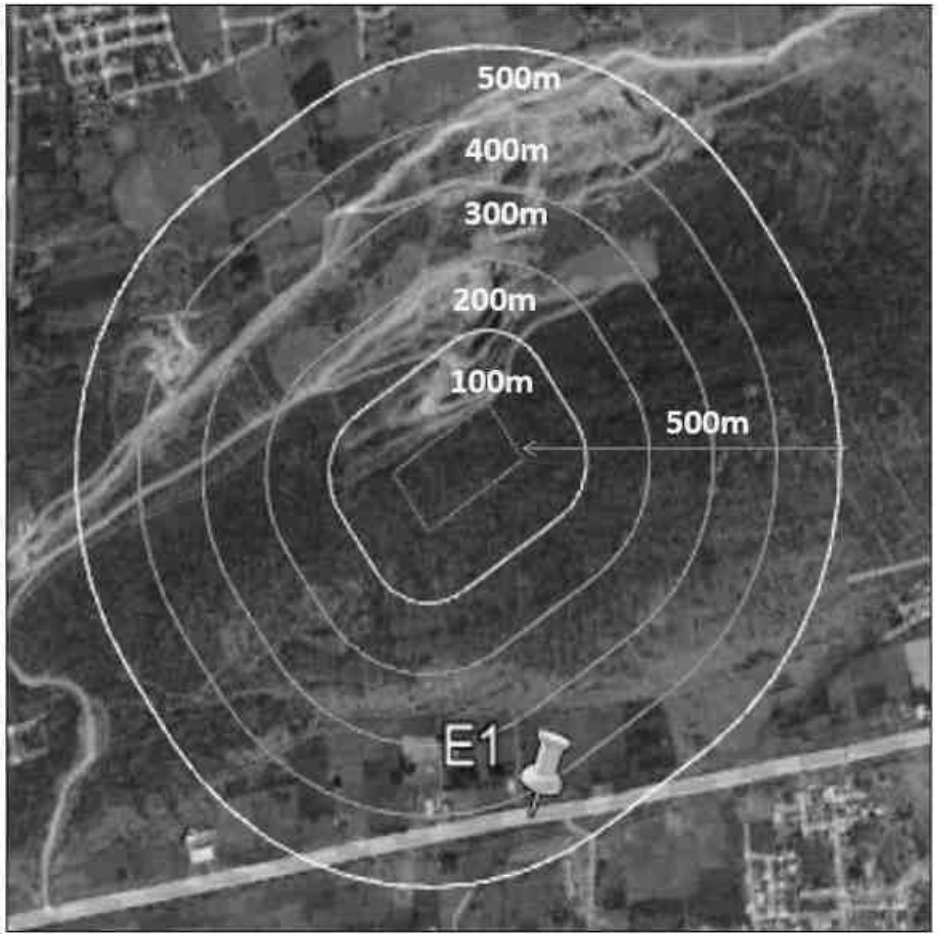


S. No	Name of the Structure	Distance and Direction	Ownership	Occupant	Type	Age
S1	Farm House	297m (S)	Does not belong to the PP	Nil	Masonry	>5 years



S1- Farm House -297m (S)

Figure 3.1 Google Image showing and Photographs structures located within 300 m radius

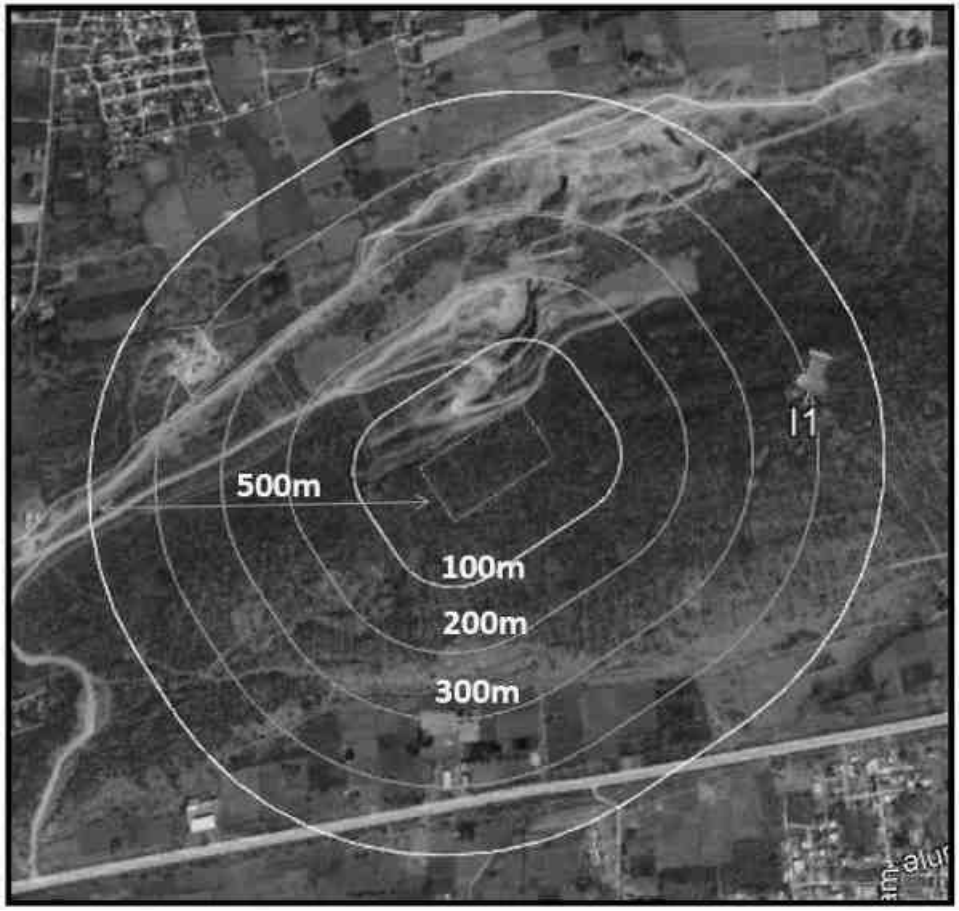


S. No.	Name of the Feature	Distance and Direction
E1	(NH-136) Ariyalur – Athur	429m (S)



E1-(NH-136) Ariyalur – Athur - 429m (S)

Figure 3.2 Existing Features Within 500m Radius



Sl. No	Radius	School	Temple	Inhabited Village	Remark
1	0-100 m	Nil	Nil	Nil	Nil
2	100-200 m	Nil	Nil	Nil	Nil
3	200-300 m	Nil	Nil	Nil	Nil



I1- Bramma Rishi Hills-400m (E)

Figure 3.3 Enumeration of Temple, School and Inhabited Village within 500m Radius from the Project Site

3.6 ENVIRONMENTAL SETTINGS OF THE POJECT

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 3.1 Environmental Settings of the Study Area – 10 km radius

S.NO	Particulars	Description
1.	Latitude & Longitude	Latitude: 11°16'23.90"N to 11°16'29.88"N Longitude: 78°52'31.01"E to 78°52'37.77"E
2.	The altitude of the area	≃ 290 m from above MSL.
3.	Topography	Hilly Terrain
4.	Land use of M.L. area	Government Land and has obtained Tender
5.	Extent of the Lease area	1.80.0 Ha
6.	Nearest Highway	(NH-136) Ariyalur – Athur – 0.42km (S) (SH-157) Perambalur – Athur – 3.0km (SW)
7.	Nearest Railway Station	Ariyalur Railway Station (24.9 km, SE)
8.	Nearest airport	Tiruchurapalli International Airport (61.8 km(SW))
9.	Nearest Village	Samathuvapuram - 820m(SW)
10.	Nearest Town	Perambalur – 4.02km(SW)
11	Water Bodies	Tank-900m(SW), Elambalur Lake-1.33Km(SE), Thonappady periya Yeri-8.62Km(N), Esani Lake-6.43Km(NW), Senjeri Lake-7.14Km(SW) ,Thuraimangalam Lake-5.37Km(SE),Palayam Lake-8.16Km(SW),Keelapuliyur Lake-9.47Km(NE)
12	Historical Places/Places of Tourist/ Archeological site	NIL within 10 km radius
13.	Environmental sensitive areas, Protected areas as per Wildlife Protection Act, 1972 (Tiger reserve, Elephant reserve, Biospheres, National parks,	Nil within 10km radius Karaivetti Bird Sanctuary-26.41Km (NW)

	Wildlife sanctuaries, community reserves and conservation reserves)	
14	Reserved / Protected Forests	Nagoor R.F-8.16Km (NW), Kalarampatti R.F-9.10Km(NW)
15	Defence Installations	NIL within 10 km radius
16	Seismic Zone	Zone II (Least Active)
17	Other Industries in the study area	NIL within 10 km radius
18	Interstate boundary	NIL

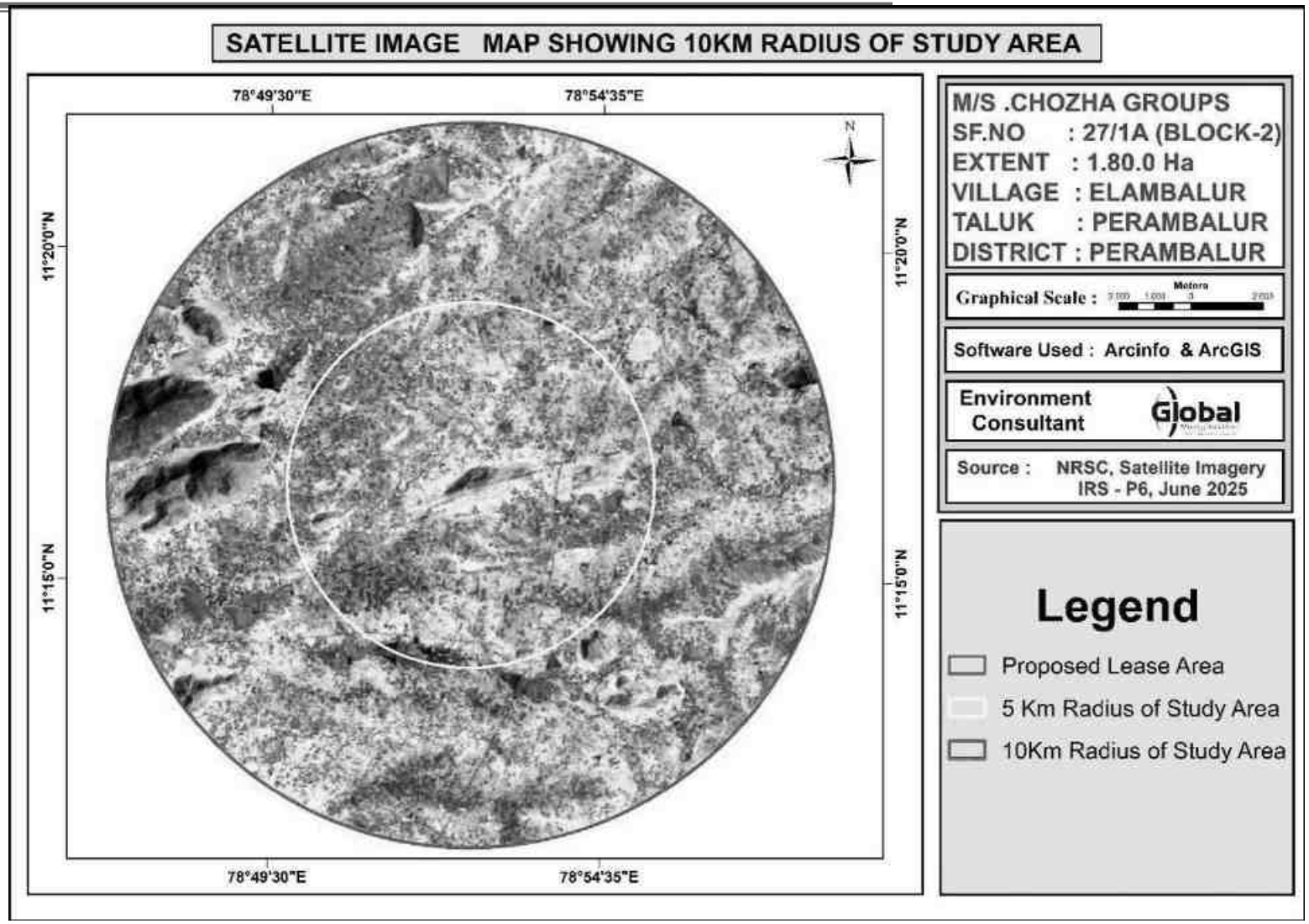


Figure 3.4 Satellite Image of the Study Area

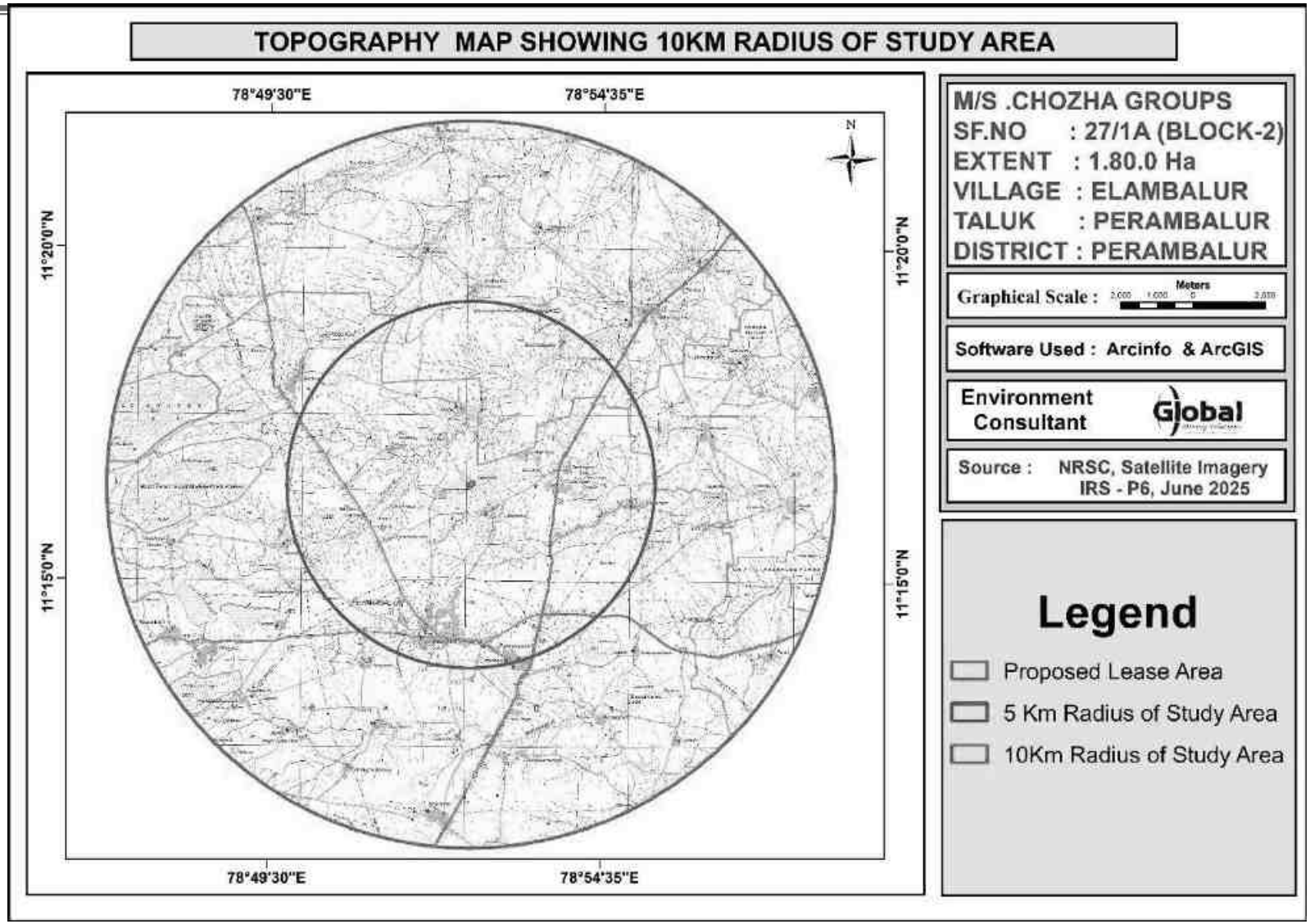


Figure 3.5 Topo map Showing Study Area

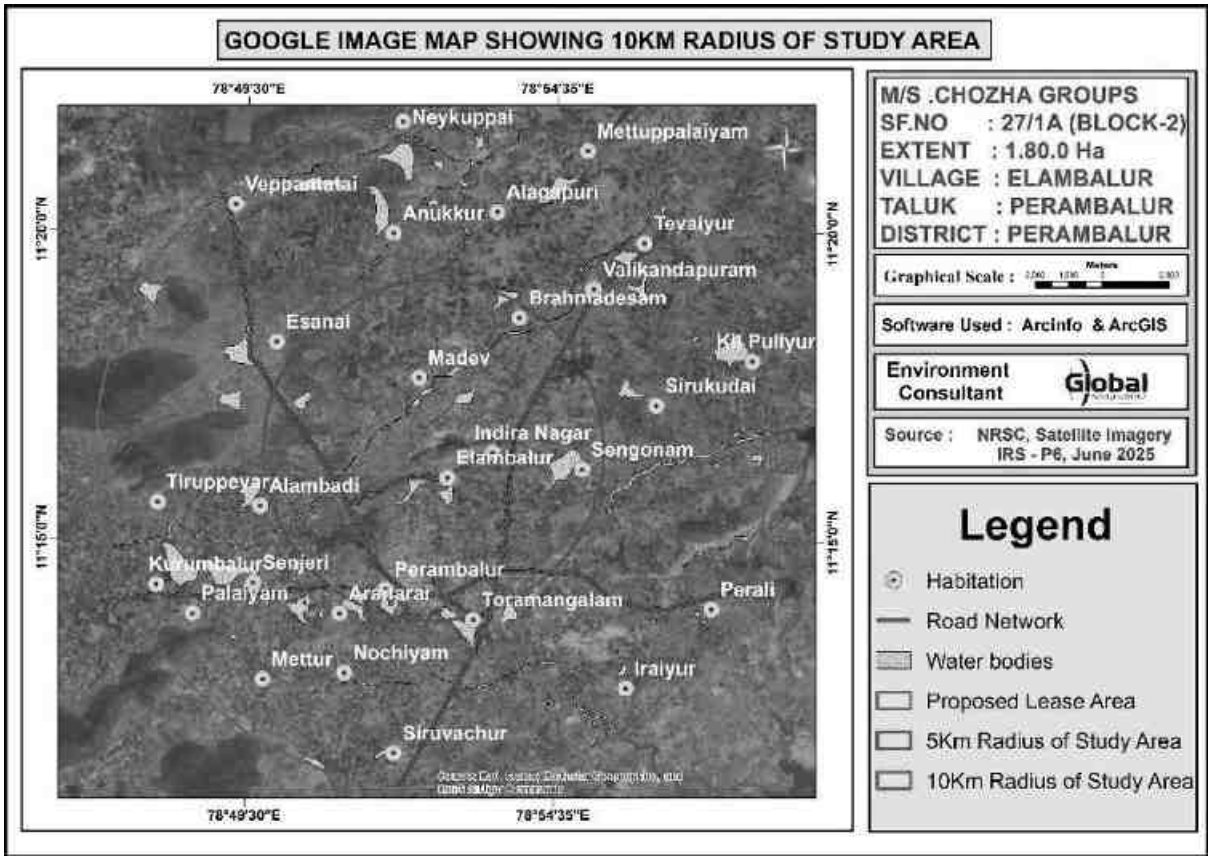


Figure 3.6 Google Image showing 10 km radius

3.7 EXISTING ENVIRONMENTAL SCENARIO

3.7.1 MICRO- METEOROLOGY

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

3.7.1.1 CLIMATE AND RAINFALL DATA

Perambalur district enjoys a typical semi-arid climate with hot summers and moderately cool winters. The hottest season is from March to May. During the period the maximum temperature often exceeds 40°C. The winter season is

spread over two months viz. January and February and the nights are cool and pleasant. The district generally has a high humidity.

Table 3.2 Rainfall Data

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

Source: TWAD, Perambalur

Seismic Sensitivity

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

Table 3.3 Meteorological Data Recorded at Site

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

Table 3.4 Meteorological Data Recorded at Site

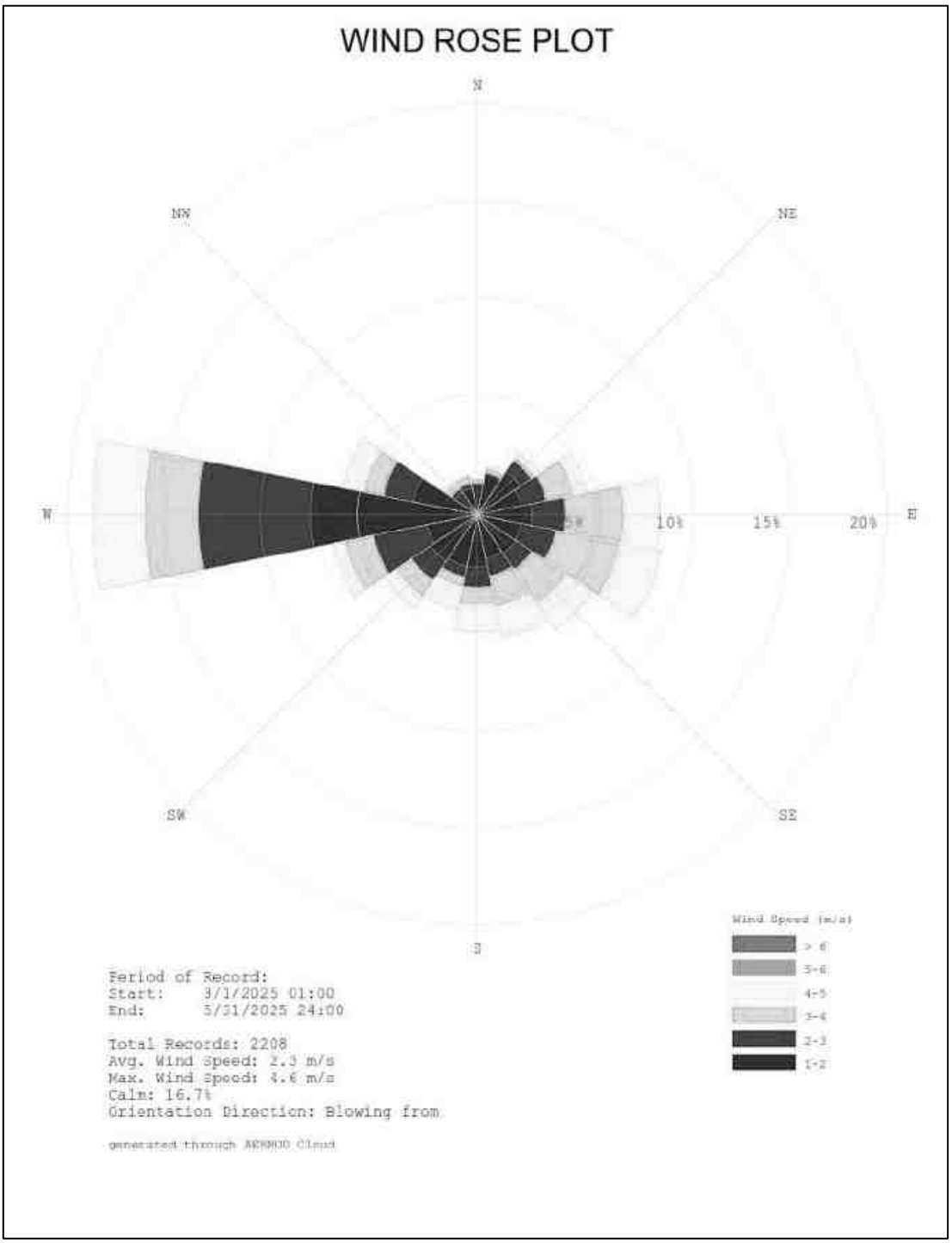


Figure 3.7 Wind Rose Diagram – Blowing From (March 2025 – May 2025)

3.7.2 AIR ENVIRONMENT

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

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

3.7.2.1 SAMPLING & ANALYTICAL TECHNIQUES

Table 3.4 Methodology for Air Quality Monitoring

1.	Monitoring Period	Summer (March 2025 – May 2025)
2.	Monitoring Location	The monitoring locations for ambient air study is given in Table – 3.6 and Figure 3.8.
3.	Selection Criteria	The monitoring location is selected based on terrain & wind direction. Locations were chosen in upwind, downwind and crosswind
Methodology		
4.	A. Sampling	(IS-5182:Part 1:2018)
	B. Analysis	
	Parameters	**Protocol**
5.	Particulate Matter (PM_{10})	Gravimetric (IS 5182: Part 23:2017)
	Particulate Matter (PM2.5)	Gravimetric (IS 5182: Part 24:2019)
	Sulphur Dioxide	Colorimetric (West & Gaeke Method) (IS 5182: Part 02: 2017)
	Nitrogen Dioxide	Colorimetric (Modified Jacob & Hocheiser Method) (IS 5182: Part 06:2017)
	Carbon Monoxide	CO Monitor
	Monitoring Frequency	2 days in a week, 4 weeks in a month for 3 months in a season.

3.7.2.2 FREQUENCY AND PARAMETERS FOR SAMPLING

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

It was ensured that the equipment was placed preferably at a height of at least 3m 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 3.8 for assessment of the existing ambient air quality. Details of the sampling locations are as per given below.

Table 3.5 – Ambient Air Quality Monitoring Locations

S. No.	Location Code	Monitoring Locations	Distance & Direction from Site	Latitude and longitude
1	AAQ1	Within ML area	-	11°16'27.23"N, 78°52'34.51"E
2	AAQ2	Samathuvapuram	660m, W	11°16'19.07"N, 78°52'1.96"E
3	AAQ3	Thanipand	2.6km, E	11°16'27.02"N, 78°53'56.53"E
4	AAQ4	Elambalur	0.81km, SE	11°16'10.24"N, 78°52'53.33"E
5	AAQ5	Vadakumadhavi	2.09km, N	11°17'33.06"N, 78°52'29.04"E
6	AAQ6	Mettu theru, Perambalur	2.20km, SW	11°15'9.88"N, 78°52'8.84"E
7	AAQ7	Erikarai	0.68km, N	11°16'43.76"N, 78°52'15.73"E

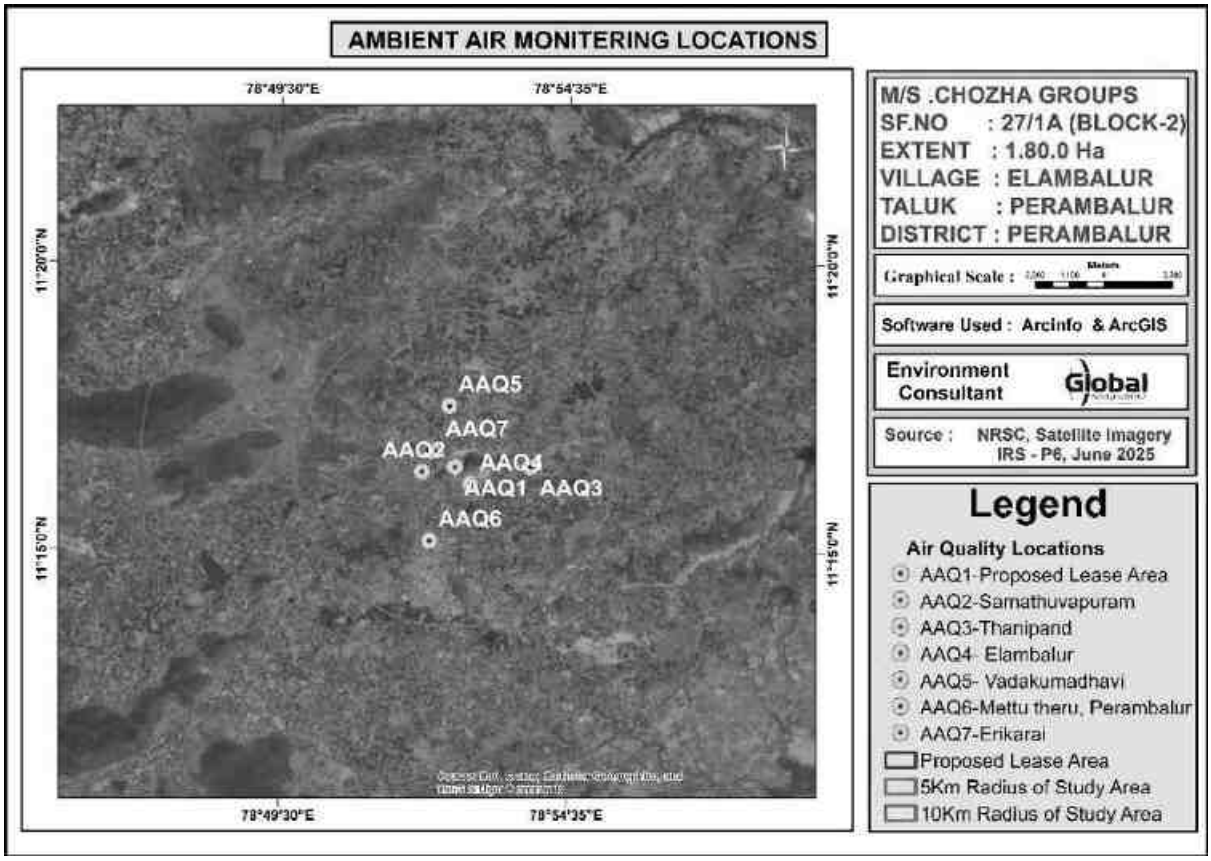
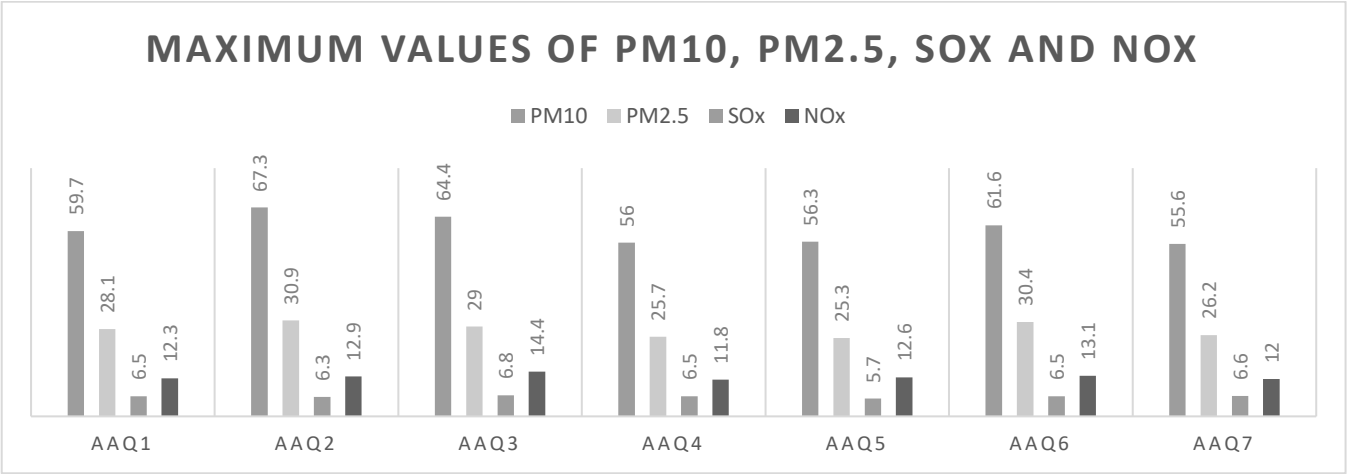


Figure 3.8 Ambient Air Quality Monitoring Locations

Table 3.6 Ambient Air Quality Data

Code	PM 10 (µg/m$^{3)}$				PM 2.5 (µg/m$^{3)}$				SO2 (µg/m$^{3)}$				NOx (µg/m$^{3)}$			
	Max	Min	Avg	98 percentiles	Max	Min	Avg	98 percentiles	Max	Min	Avg	98 percentiles	Max	Min	Avg	98 percentiles
AAQ 1	59.7	48.6	53.7	59.5	28.1	22.9	25.2	28.0	6.5	4.1	5.4	6.5	12.3	7.1	9.6	12.07
AAQ 2	67.3	51.8	59.1	67.0	30.9	23.8	27.2	30.8	6.3	4.9	5.7	6.3	12.9	7.9	10.2	12.8
AAQ 3	64.4	50.0	57.2	64.1	29.0	22.5	25.7	28.9	6.8	4.7	5.8	6.8	14.4	8.0	11.1	14.3
AAQ 4	56.0	47.4	51.7	55.8	25.7	21.8	23.7	25.6	6.5	3.9	5.3	6.5	11.8	6.8	9.3	11.7
AAQ 5	56.3	46.5	51.0	56.1	25.3	20.9	22.9	25.2	5.7	3.9	4.7	5.7	12.6	6.4	9.3	12.5
AAQ 6	61.6	45.6	54.7	61.3	30.4	22.8	26.6	30.2	6.5	4.3	5.4	6.5	13.1	6.6	9.6	13.0
AAQ 7	55.6	45.4	50.3	55.4	26.2	21.8	24.0	26.1	6.6	4.1	5.2	6.5	12.0	6.5	8.7	11.9
NAAQ Standards	100 (µg/m^3)				60(µg/m^3)				80 (µg/m$^{3)}$				80 (µg/m$^{3)}$			



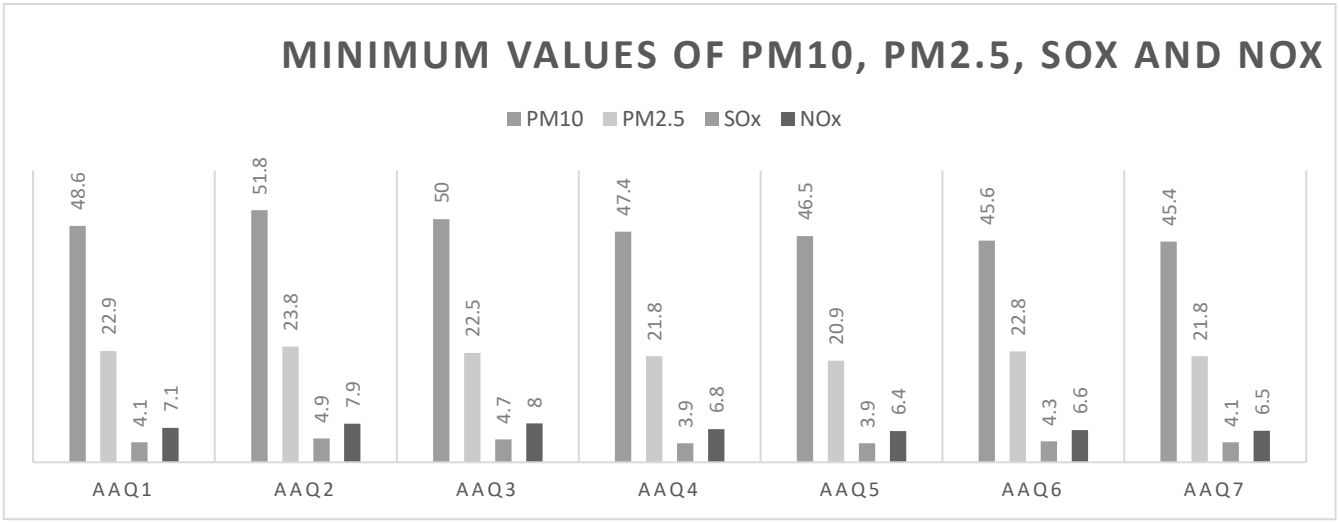


Figure –3.9 - Graphical Representation of Air Quality Data

3.7.2.4 INTERPRETATION

PM_{10} & $PM_{2.5}$

The main sources of PM include incomplete combustion, automobile emissions, Dust and also due to the chemical reactions in the atmosphere. From the monitoring locations, it is inferred that the maximum value of both PM_{10} & $PM_{2.5}$ is observed in Samathuvapuram. The main contributing factor is that there are crusher units located near the monitoring location and also NH 136, where the vehicular traffic will be more. Trucks will be used for the transportation of mined out mineral from all the stone crushers. Coupled to that, there are commercial units near the monitoring location, where the movement of vehicles will be more from which there will be more fugitive emissions, which is also a contributing factor. The movement of trucks and other vehicles from these settlements will increase the automobile emission leading to the increased value of PM_{10} & $PM_{2.5}$ in the ML area.

The governing factors for the transport of PM are wind direction & wind speed. The baseline monitoring is done for the three months i.e., from **March 2025 to May 2025.** The predominant wind direction is blowing from west to east and the maximum wind speed is >6mps. The greater values of Particulate matter will have its impacts on Human Health. Short term exposure may cause coughing, shortness of breath, tightness of the chest, irritation of the eyes. The Long-term exposure may lead to reduced lung function, development of respiratory diseases and also premature death of people with lung diseases.

SOx

The main Source of SOx in mining operation can often be associated with the utilization of heavy machinery and equipment that may rely on fuel like diesel. Also mining activities such as drilling, blasting, crushing, and material transport can generate dust particles. These dust particles, particularly if finely divided, can act as catalysts, accelerating the oxidation of sulfur compounds and contributing to SO2 formation in the atmosphere.

The maximum value is observed in Thanipand & the minimum value is observed in Elambalur and Vadakumadhavi.

The high value in Thanipand is attributed to Mines present near the monitoring location. Also, the area is high residential settlement with commercial area like café and communal properties like temple, church is present, wherein the movement of vehicles and trucks will be more. Added to that, there is NH 136 (heavy vehicular movement) located near the monitoring location in all the directions and also a fuel refilling point is located alongside of the highway road, where the vehicles will stop by to refuel the vehicles, thereby releasing SO2 into the atmosphere.

The increased value of Sox can have detrimental effects on human health. Such effects include breathing problems, particularly in asthmatics, whereas short-term exposure can lead to chest tightness and coughing and wheezing. Continued exposure to sulfur dioxide has been linked with alterations of the lung's defenses and aggravation of existing cardiovascular disease.

Sulfur dioxide is a major precursor to particulate soot, which reduces air quality. Sulphur dioxide has an acidifying effect on the environment. Acidification harms plants and animals, both on land and in water. When the ground turns acidic, vital nutrients are leached from the soil, which eventually may result in reduced fertility of the soil.

NOx

The sources of NOx pollution include emissions by automobiles, trucks and various non-road vehicles (e.g., construction equipment). NOx is released into the atmosphere by combustion of fuels, such as hydrocarbons, in air; especially at high temperatures, such as in car engines. In areas of high motor vehicle traffic, the nitrogen oxides emitted can be a significant source of air pollution.

The maximum value is observed in Thanipand. This is mainly due to presence of Thanthai Hans Roever College, Car Showroom, Truck alignment center and automobile industries like TVS Ashok Leyland and PLA Motors and NH 136 with fuel refilling point alongside of the highway, wherein the movement of vehicles and trucks will be more. Also, there are already 2 operating mines are present in the vicinity of the monitoring location, where blasting operations will be carried out. The blasting of explosives may produce Nox, which will be dispersed in air by the wind, which may be an attributing factor.

3.7.2.5 AIR QUALITY INDEX

According to Ott (1978), an air quality index is an overall system that converts the weighed values of several air pollution-related criteria (such as pollutant concentrations) into a single number or set of numbers. The goal of an AQI is to swiftly transmit information about air quality that includes a method to account for pollutants that have short-term effects (nearly in real-time). It is similarly important that the majority of these contaminants are regularly monitored online. Real-time information on the air quality is not available in the current situation because it has been manually measured twice a week for one season, 24 hours a day. The category of air quality in the relevant period can, however, be strongly described by the data gathered over a season. The AQI Category for each of monitoring station has been found to be Satisfactory.

Table 3.7 AQI for AAQ Monitoring Locations

Monitoring Locations	AAQ1	AAQ2	AAQ3	AAQ4	AAQ5	AAQ6	AAQ7
AQI	59	67	64	56	56	62	56
Air Quality Condition	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory

Good	Minimal Impact	**Poor**	Breathing discomfort to people on prolonged exposure
(0–50)		**(201–300)**	
Satisfactory	Minor breathing discomfort to sensitive people	**Very Poor**	Respiratory illness to the people on prolonged exposure
(51–100)		**(301–400)**	
Moderate	Breathing discomfort to the people with lung, heart disease, children and older adults	**Severe**	Respiratory effects even on healthy people
(101–200)		**(>401)**	

3.7.3 WATER ENVIRONMENT

The water resources, both surface and groundwater play a significant role in the development of the area. The purpose of this study is to assess the water quality characteristics for critical parameters and evaluate the impacts on agricultural productivity, domestic community usage, recreational resources and aesthetics in

the vicinity. The water samples were collected and transported as per the standard guidelines issued by CPCB for analysis.

3.7.3.1 METHODOLOGY

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

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

3.7.3.2 GROUND WATER

The water level is being monitored by State Ground & Surface Water Resources Data Centre from 1971 onwards from a network of 1746 observation wells (shallow open wells) located all over the State. The water level readings are observed in the first week of every month by the field officers. In Perambalur District, 131 observation wells and 13 piezometers, totally 144 wells are monitoring on Monthly basis. The Central Ground Water Board also monitors the water level from 900 numbers of wells spread all over the State. They observe water level four times in a year. (i.e. January, May, August and November). The collected water level data are uploaded in GWDES software and database is maintained regularly for analysing the water level 8 trend with rainfall. From the Monitoring network of wells, the selected representative wells are taken for Resource Estimation computations. In Perambalur District, during the pre-monsoon, the water level generally in declining trend ranges from G.L. to 15m. The depth of well below Ground Level 12.0m are become dry during hot season like May, June, July. In the post monsoon, the water level generally in upward trend due to rainfall and it may reach the Ground Level also.

Source: NWM

3.7.3.3 SAMPLING LOCATIONS

Seven (7) ground water samples were collected from the study area and were analyzed 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 analyzed as per the procedures specified by CPCB, IS-10500:2012. The water sampling locations are given in Table 3.8 and shown as Figure 3.10.

Table 3.8 Environmental Parameters: Ground water Quality Analysis	
Monitoring Period	March 2025 – May 2025
Design Criteria	Based on the Environmental settings in the study area and Drainage Pattern
Methodology	Water Samples were collected in 5 Litre fresh cans as per IS 3025 Part I and transported to the laboratory in Iceboxes
Frequency of Monitoring	Once in a season

Table 3.9 Water Sampling Locations

S. No.	Location Code	Monitoring Locations	Distance & Direction from Site	Latitude and longitude
1	WQ1	Within ML area	-	11°16'27.16"N, 78°52'34.22"E
2	WQ2	Samathuvapuram	660m, W	11°16'19.07"N, 78°52'1.96"E
3	WQ3	Thanipand	2.6km, E	11°16'27.02"N, 78°53'56.53"E
4	WQ4	Elambalur	0.81km, SE	11°16'10.24"N, 78°52'53.33"E
5	WQ5	Vadakumadhavi	2.09km, N	11°17'33.06"N, 78°52'29.04"E
6	WQ6	Mettu theru, Perambalur	2.20km, SW	11°15'9.88"N, 78°52'8.84"E
7	WQ7	Erikarai	0.68km, N	11°16'43.76"N, 78°52'15.73"E

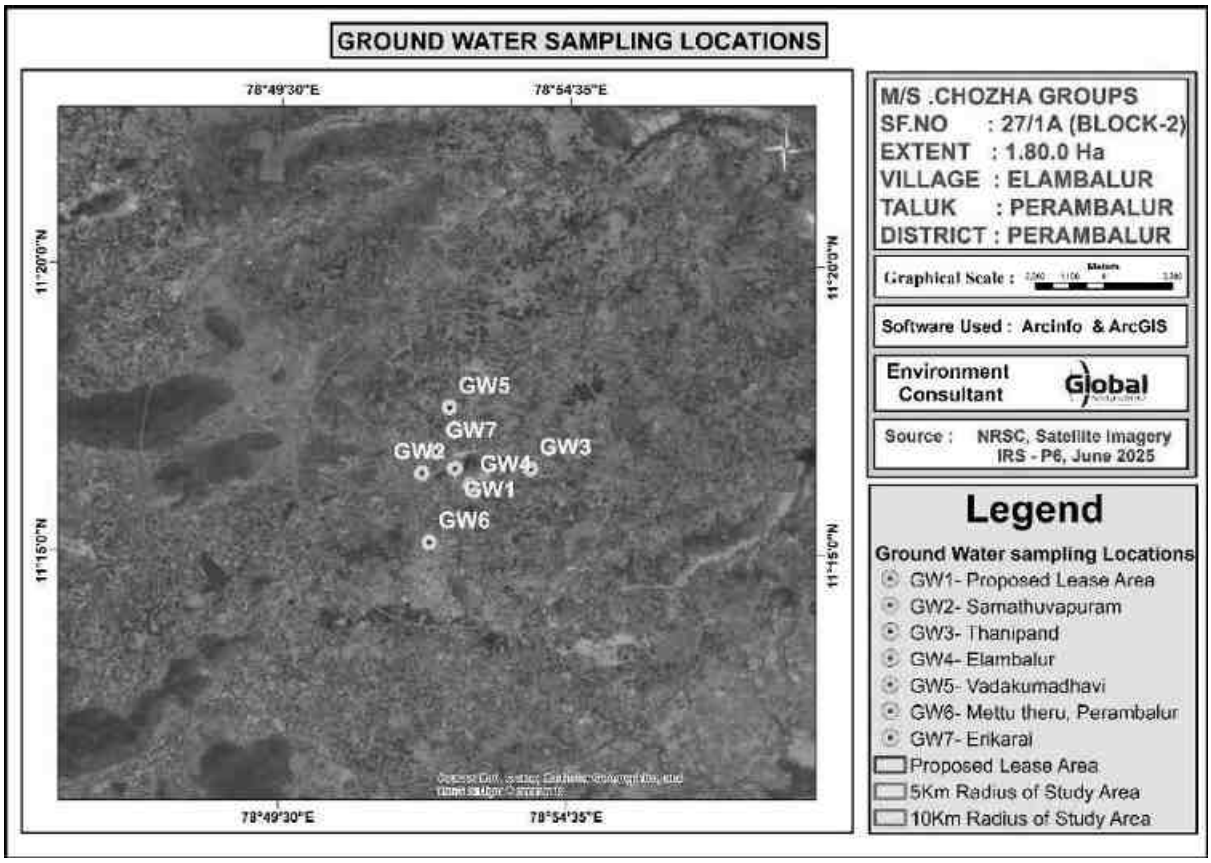


Figure 3.10 – Water Monitoring Locations

Table 3.10 Surface Water Analysis Results

S.No	Parameter	Unit	SW1	SW2	Surface water standard s (IS 2296 Class-A)
1	Odour	-	AGREEABLE	AGREEABLE	-
2	Turbidity	NTU	<1	<1	1
3	pH at 25 ˚C	-	7.66	7.45	6.5-8.5
4	Electrical Conductivity	µs/cm	1346	1105	-
5	Total Dissolved Solids	mg/l	810	670	500
6	Total hardness as $CaCO_3$	mg/l	490	450	300
7	Calcium as Ca	mg/l	98.0	123	80
8	Magnesium as Mg	mg/l	58.8	34.1	24
9	Calcium as $CaCO_3$	mg/l	245	308	-
10	Magnesium as $CaCO_3$	mg/l	245	142	-
11	Total alkalinity as $CaCO_3$	mg/l	210	272	-
12	Chloride as Cl^-	mg/l	243	136	250
13	Free Residual chlorine as Cl^-	mg/l	BDL(D.L-0.2)	BDL(D.L-0.2)	-
14	Sulphates as SO_4^{2-}	mg/l	202	162	400
15	Iron as Fe	mg/l	BDL(DL-0.01)	BDL(DL-0.01)	0.3
16	Nitrate as NO_3	mg/l	2.78	2.69	20
17	Fluoride as F	mg/l	0.36	0.35	1.5
18	Manganese as Mn	mg/l	BDL(D.L-0.05)	BDL(D.L-0.05)	0.5
19	COD	mg/l	32.5	25.4	-
20	BOD	mg/l	7.2	5.9	2.0
21	TSS	mg/l	25	16	-
22	DO	mg/l	6.1	6.3	6.0

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

Table 3.11 Results of Ground Water sampling Analysis in 7 locations								Standards as Per IS 10500: 2012	
Parameter	**W1**	**W2**	**W3**	**W4**	**W5**	**W6**	**W7**	**Acceptable Limits**	**Permissible Limits**
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity	<1	<1.0	<1.0	<1	<1	<1	<1	1	5
pH at 25 °C	7.66	7.42	7.71	7.39	7.84	7.56	7.62	6.5- 8.5	No Relaxation
Electrical Conductivity	916	1520	1502	1120	1915	2074	864	-	-
Total Dissolved Solids	550	920	902	675	1150	1246	520	500	2000
Total hardness as CaCO3	314	338	394	452	254	485	274	200	600
Calcium as Ca	84.0	105	78.4	124	50.4	104	52.8	75	200
Magnesium as Mg	25.0	18.2	47.5	34.1	30.7	54.0	34.1	30.0	100
Calcium as CaCO3	210	262	196	310	126	260	132	-	-
Magnesium as CaCO3	104	76.0	198	142	128	225	142	-	-
Total alkalinity as CaCO3	232	338	386	280	398	414	154	200	600
Chloride as Cl-	86.2	182	245	124	384	386	138	250	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)	0.2	1
Sulphates as SO42-	186	320	238	156	310	392	98.6	200	400
Iron as Fe	0.05	BDL(D.L-0.01)	BDL(D.L-0.01)	BDL(D.L-0.01)	0.04	0.05	BDL(D.L-0.01)	0.3	No Relaxation
Nitrate as NO3	3.35	2.67	1.75	2.12	2.45	3.28	2.54	45	No Relaxation
Fluoride as F	0.26	0.45	0.38	0.31	0.19	0.32	0.18	1	1.5
Manganese as Mn	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	0.1	0.3

3.7.3.4 DISCUSSION

Physical parameters of water

The basic physical parameters of the water include

Odour: The odour of the water is found to be agreeable in all the 7 monitoring locations.

pH:

Value observed in the project site: 7.66.
Acceptable and permissible limits: 6.5-8.5. The pH value is the measure of acid – base equilibrium. The value of pH in the project site clearly indicates that water is neutral.

Turbidity:

Value observed in the project site: <1 NTU.
Acceptable and permissible limits:1 NTU & 5 NTU respectively. The value of turbidity generally indicates the presence of phytoplanktons and other sediments. The value in the project site indicates the water is not turbid and no any physical treatment is required to treat the turbidity of the water.

Total Dissolved Solids:

Value observed in project site: 550 mg/L.
Acceptable and permissible limits: 500 mg/L and 2000 mg/L respectively. The TDS is the presence of the inorganic salts and small amounts of organic matter present in the water. This is mainly due to the result of surface runoff as the cations and anions in the top soil is carried away by the water. As per the Guidelines of WHO, if the value of TDS is greater than 1200 mg/L, it is designated as unacceptable. Since the value of the TDS is less than 1200 mg/L, it will not cause any adverse impact.

Chemical parameters of water:

The chemical parameters of the drinking water include

Calcium:

Value observed in the project site: 210 mg/L.
Acceptable and permissible limits:75mg/L and 200 mg/L respectively.

Calcium is the essential macronutrient. The value of the calcium is within the prescribed permissible standards.

Magnesium:

Value observed in the project site: 25 mg/L.

Acceptable and permissible limits:30 mg/L and 100 mg/L respectively.

The value of Magnesium in the project site is less than the permissible limit.

Chloride

Value observed in the project site: 86.2 mg/L.

Acceptable and permissible limits: 250 mg/L and 1000 mg/L respectively.

The chloride level in the project site is less than the permissible limit. Hence it will not have any major impact.

Hardness:

Value observed in project site: 314 mg/L.

Acceptable and permissible limits:200 mg/L and 600 mg/L respectively.

The value of Hardness in the project site is within than permissible limit.

Secondary Data:

Following are the Analytical Results of samples collected from National Groundwater Monitoring Wells (May 2022)

S.No	District	Location	Latitude	Longitude	PH	EC *	TH**	Ca	Mg	Na	K	CO3	HCO3	Cl	SO4	NO3	F	U
							<-------------------

Water Quality Index

WQI is defined as a rating reflecting the composite influence of different water quality parameters. WQI is calculated from the point of view of the suitability of water for human consumption. A quality rating scale (qi) for each parameter is assigned by dividing its concentration in each water sample by its respective standard according to the guidelines laid down in the BIS and the result multiply by 100.

$$qi = (Ci/Si) \times 100$$

Where qi is the quality rating, Ci is the concentration of each chemical parameter in each water sample in mg/l, and Si is the Indian drinking water standard for each chemical parameter in mg/l according to the guidelines. For computing the WQI, the SI is first determined for each chemical parameter, which is then used to determine the WQI as per the following equation

$$SIi = Wi \times qi \quad QWI = \sum SIi$$

SIi is the sub-index of the ith parameter; qi is the rating based on concentration of ith parameter and n is the number of parameters. The computed WQI values are classified in to five types, "excellent water" to "water not suitable for drinking".

Water Quality Classification based on WQI Value

WQI Value	Water Quality
<50	Excellent
50-100	Good water
100-200	Poor water
200-300	Very poor water
>300	Water not suitable for drinking

Ground Water:

The Water Quality Index based on weighted average of 9 parameters (Total Hardness as CaCO3, Calcium, Magnesium, TDS, Fluoride, pH, EC, Iron, Turbidity) has been found to be excellent in all the locations. The values are as shown below:

Monitoring Location	GW1	GW2	GW3	GW4	GW5	GW6	GW7
WQI Value	22	16	15	14	18	24	11
WQI - Indicator	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent

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 3.12 Noise Monitoring Locations

S. No.	Location Code	Monitoring Locations	Distance & Direction from Site	Latitude and longitude
1	ANL1	Within ML area	-	11°16'27.12"N, 78°52'34.18"E
2	ANL2	Samathuvapuram	660m, W	11°16'19.07"N, 78°52'1.96"E
3	ANL3	Thanipand	2.6km, E	11°16'27.02"N, 78°53'56.53"E
4	ANL4	Elambalur	0.81km, SE	11°16'10.24"N, 78°52'53.33"E
5	ANL5	Vadakumadhavi	2.09km, N	11°17'33.06"N, 78°52'29.04"E
6	ANL6	Mettu theru, Perambalur	2.20km, SW	11°15'9.88"N, 78°52'8.84"E
7	ANL7	Erikarai	0.68km, N	11°16'43.76"N, 78°52'15.73"E

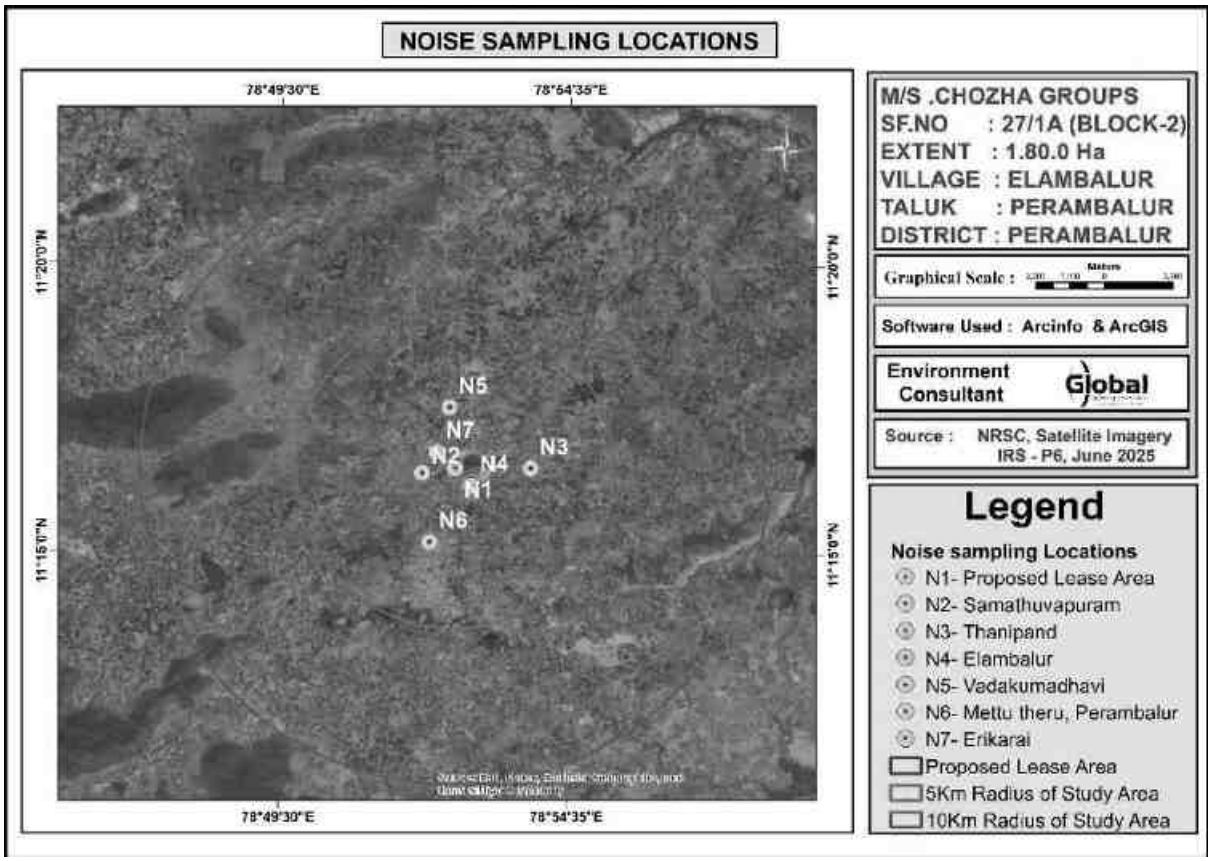


Figure 3.11 Noise Monitoring Location

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 3.13 Noise Monitoring Result

DESCRIPTION	ANL1	ANL2	ANL3	ANL4	ANL5	ANL6	ANL7
DAY EQUIVALENT	46.4	48.7	50.0	51.7	48.1	48.4	45.9
NIGHT EQUIVALENT	41.2	40.3	41.0	40.8	41.4	45.7	42.0
DAY & NIGHT EQUIVALENT	45.2	47.2	48.5	50.2	46.8	47.7	45.0

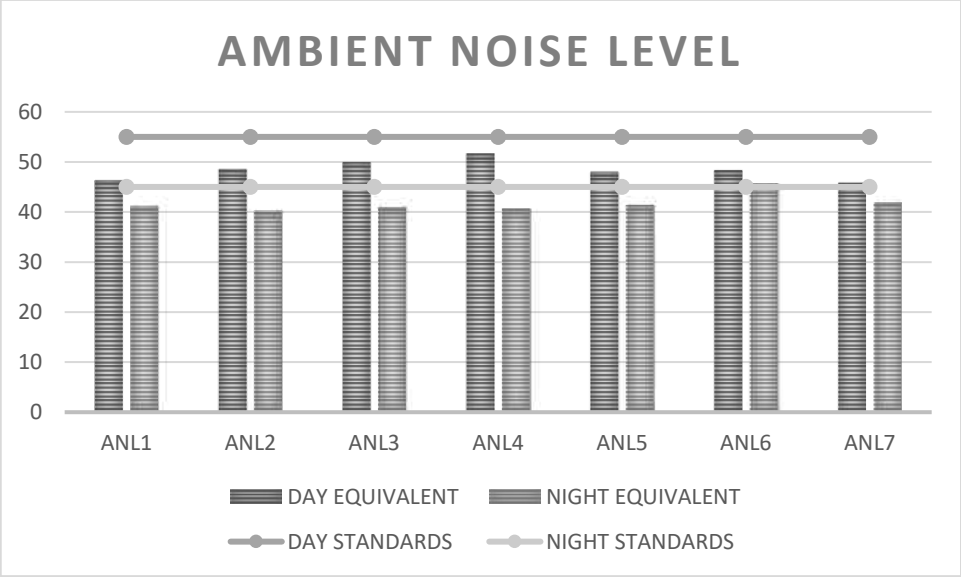


Figure 3.13 Nosie Monitoring Results

3.7.4.4 DISCUSSION

Out of the 7 locations, the maximum value is observed in Elambalur during day time. The maximum noise in the project site is due to the mining and crushing

activity near the project site and movement of vehicles and trucks are associated to transport the mined-out mineral, which is also an attributing factor. The maximum value during night is observed in Elambalur. Elambalur is residential area, the monitoring location is located adjacent to NH 136 and the maximum noise in Elambalur is attributed to the movement of vehicles and trucks to NH 136. In addition to that, HP Petrol Bunk is located adjacent to the monitoring location, wherein the trucks and other vehicles drop in to fuel the vehicle and stone crushers are present near the monitoring location, attributing to the maximum noise.

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 3.16. The soil type of the study area is detailed below.

Sl.No.	SOIL TYPE	Area in Sq.Km	Area in Percentage
1	Clay	306.85	96.02
2	Loamy Sand	7.54	2.36
3	Sandy clay loam	5.17	1.62
	Total	**319.56**	**100.00**

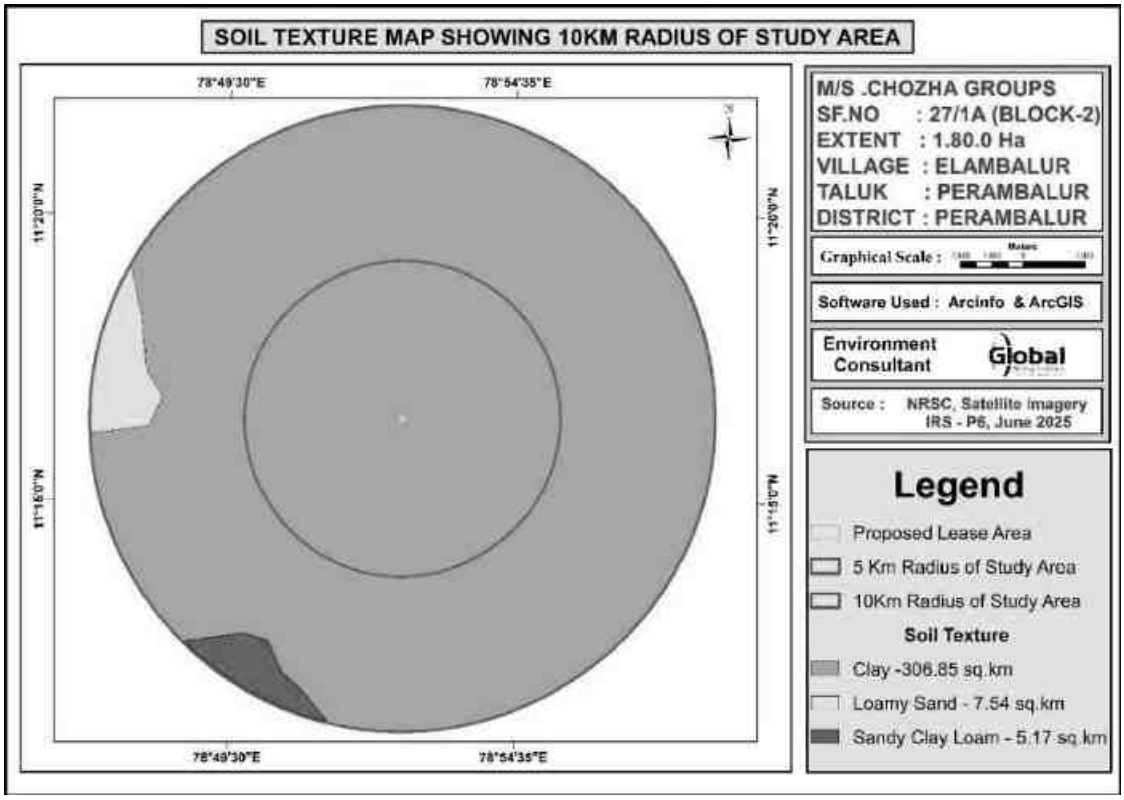


Figure 3.13 - Soil Map of the Study Area

3.7.5.1 MONITORING LOCATIONS

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

Table 3.14 – Soil Sampling Locations

S. No.	Location Code	Monitoring Locations	Distance & Direction from Site	Latitude and longitude
1	SQ1	Within ML area	-	11°16'27.12"N, 78°52'34.18"E
2	SQ2	Samathuvapuram	660m, W	11°16'19.07"N, 78°52'1.96"E
3	SQ3	Thanipand	2.6km, E	11°16'27.02"N, 78°53'56.53"E
4	SQ4	Elambalur	0.81km, SE	11°16'10.24"N, 78°52'53.33"E
5	SQ5	Vadakumadhavi	2.09km, N	11°17'33.06"N, 78°52'29.04"E
6	SQ6	Mettu theru, Perambalur	2.20km, SW	11°15'9.88"N, 78°52'8.84"E
7	SQ7	Erikarai	0.68km, N	11°16'43.76"N, 78°52'15.73"E

3.7.5.2 METHODOLOGY

For studying soil quality, sampling locations were selected to assess the existing soil conditions in and around the project site representing various land use conditions. The samples were collected by auger boring into the soil up to 90-cm depth. 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.

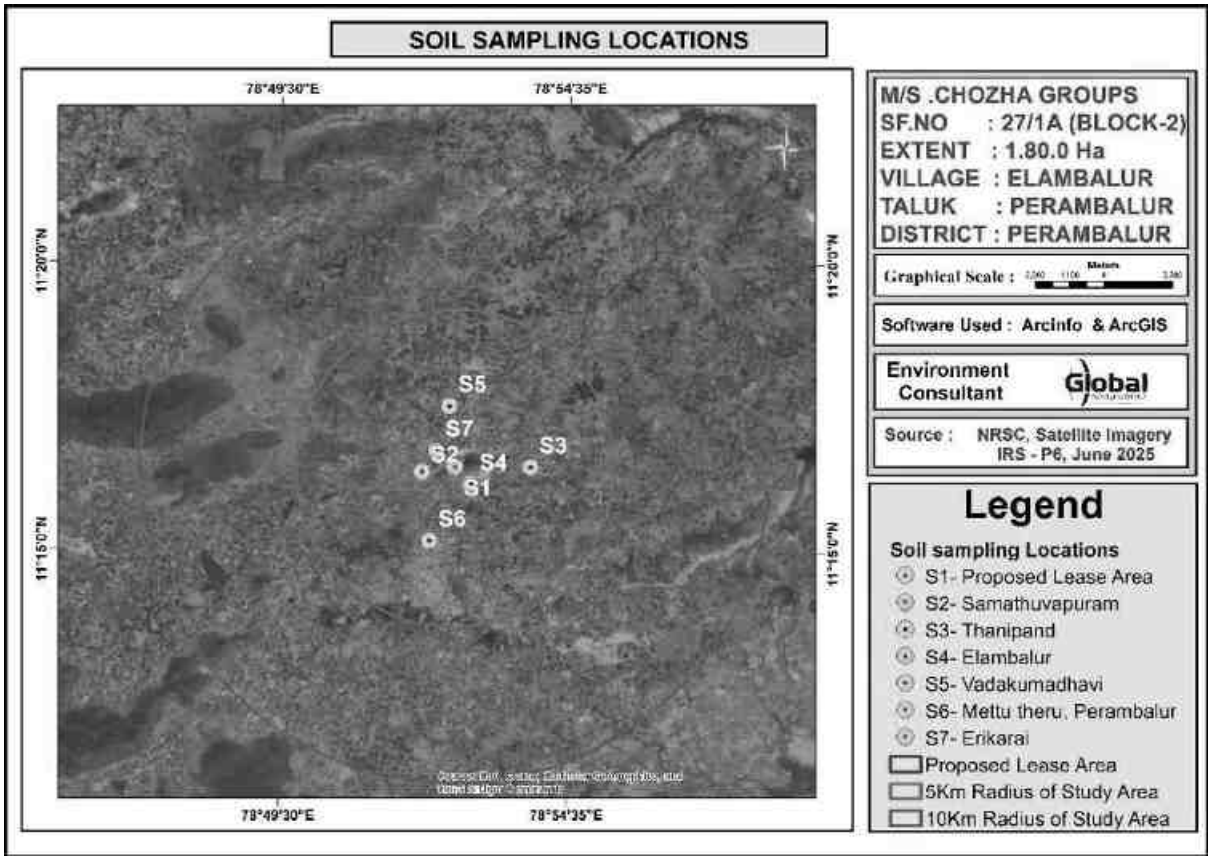


Figure 3.14 - Soil Sampling Stations

3.7.5.3 SOIL TESTING RESULT

Results of the soil samples show that the pH values were found to be 6.55 to 7.49 and Electrical Conductivity values were ranging between 66.48 – 119.4

µmhos/cm. Soils are generally Loam. Organic matter values were ranging between 0.66 – 0.96 %. Total Nitrogen values were ranging between 165 - 230 mg/kg. Phosphorus values were ranging between 1.19 – 1.82 µg/g. Potassium values were ranging between 312 – 484 mg/kg. Sodium values were ranging between 454 - 690 mg/kg. Total Sulphur values were observed to be BDL. The soil quality data for the 7 samples collected and analyzed are provided in Table no – 3.14.

Table 3.15 - Soil Testing Result

S.No	Parameter	S1	S2	S3	S4	S5	S6	S7
1	pH at 25 °C	7.42	6.55	7.01	7.49	6.94	7.29	7.05
2	Electrical Conductivity	119.4	80.2	95.7	66.48	73.25	78.95	75.24
3	Dry matter content	96.34	96.48	97.34	96.25	95.33	97.32	96.55
4	Water Content	3.66	3.52	2.66	3.75	4.67	2.68	3.45
5	Organic Matter	0.94	0.66	0.72	0.68	0.86	0.78	0.96
6	Soil texture	SANDY LOAM	LOAM	SILTY CLAY LOAM	LOAM	LOAM	LOAM	LOAM
7	Grain Size Distribution i. Sand	62.47	46.89	20.33	47.64	36.59	47.58	37.22
8	ii. Silt	26.56	36.57	40.24	30.26	44.22	30.62	44.35
9	iii. Clay	10.97	16.54	39.43	22.10	19.19	21.80	18.43
10	Phosphorous as P	1.82	1.54	1.69	1.31	1.19	1.21	1.29
11	Sodium as Na	454	622	590	670	564	690	584
12	Potassium as K	312	425	484	368	326	378	346
13	Total Nitrogen	165	228	172	184	210	204	230
14	Total Sulphur	BDL(D.L.0.02)	BDL(D.L.0.02)	BDL(D.L.0.02)	BDL(D.L.0.02)	BDL(D.L.0.02)	BDL(D.L.0.02)	BDL(D.L.0.02)
15	Water Holding Capacity	38	32	35	34	35	34	38
16	Porosity	15.8	16.7	18.2	17.5	16.6	17.5	16.6

3.7.6 LAND ENVIRONMENT

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

3.7.6.1 LAND USE PATTERN OF THE PROJECT AREA

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

Table 3.16 Land use pattern of the project site

Description	Present Area in Ha.	Area at the end of life of Quarry in Ha.
Quarrying pit	Nil	1.28.0
Infrastructure	Nil	0.01.0
Roads	Nil	0.01.0
Greenbelt	Nil	0.50.0
Unutilized	1.80.0	Nil
Total	**1.80.0**	**1.80.0**

- At the end of life of mine, the excavated mine pit / void of 1.28.0 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 (0.50.0 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 3.17.

Table 3.17 Land use pattern of the Study area of 10 km radius

Sl.No.	LAND USE / LAND COVER	Area in Sq.Km	Area in Percentage
1	Built-up land	18.99	5.94
2	Crop land	188.56	59.01
3	Existing quarries	5.65	1.77
4	Hill and forest	13.4	4.19
5	Land with scrub	14.96	4.68
6	Land without scrub	39.65	12.41
7	Fallow	26.69	8.35
8	Water bodies	11.63	3.64
	Total Area	**319.53**	**100.00**

Source: Survey of India Toposheet and Landsat Satellite Imagery

From above table it is inferred that the majority of the land in the study area is crop land (59.01%)

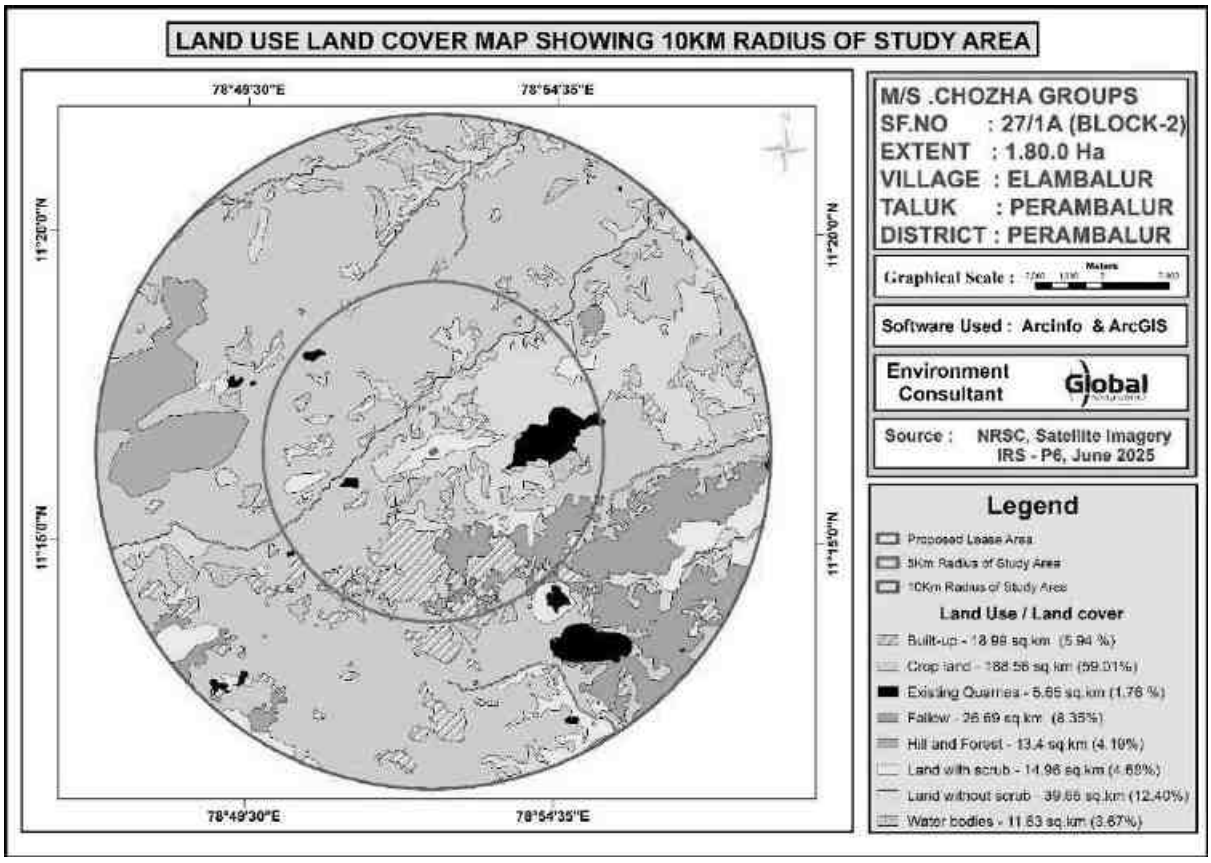


Figure 3.15 Land use map of the study area

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 and Gravel 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 2025 – 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. Flora is assessed based on

quadratic survey to calculate phytosociological parameters like density, frequency, dominance, relative density, relative frequency, relative dominance and importance value index

Table 3.18 Assessment of trees

S. No.	Scientific Name	Local Name	Total No. of species	Total of Quadrants with species	Total No. of Quadrants	Density	Frequency (%)	Abudance	Dominance	Relative Density	Relative Frequency	Relative Dominance	IVI
1	Citrus limon	Lemon	2	2	4	0.50	50.00	1	0.28	1.80	3.85	6.07	11.72
2	Ficus benghalensis	Krishna Fig, Krishna's	5	2	4	1.25	50.00	2.5	0.07	4.50	3.85	1.52	9.87
3	Thespesia lampas	Common mallow,kattupparuthi	2	4	4	0.50	100.00	0.5	0.28	1.80	7.69	6.07	15.57
4	Musa paradisiaca	Plantain, vazhai	10	4	4	2.50	100.00	2.5	0.50	9.01	7.69	10.79	27.50
5	Azadirachta indica	Veppai,	14	4	4	3.50	100.00	3.5	0.44	12.61	7.69	9.49	29.79
6	Psidium gujava	Guava	5	2	4	1.25	50.00	2.5	0.16	4.50	3.85	3.42	11.77
7	Syzygium cumini	Nagai	3	3	4	0.75	75.00	1	0.20	2.70	5.77	4.22	12.69
8	Adina cordifolia	Manjakadambu	1	1	4	0.25	25.00	1	0.14	0.90	1.92	2.98	5.80
9	Acacia chundra		1	1	4	0.25	25.00	1	0.18	0.90	1.92	3.89	6.71
10	Erythrina indica	Mullu murungai	1	1	4	0.25	25.00	1	0.15	0.90	1.92	3.12	5.94
11	Euphorbia antiquorum	Kalli	15	4	4	3.75	100.00	3.75	0.27	13.51	7.69	5.87	27.08
12	Ailanthus excelsa	Perumaram	7	2	4	1.75	50.00	3.5	0.21	6.31	3.85	4.56	14.71
13	Pongamia pinnata	Indian beech, pungam	4	2	4	1.00	50.00	2	0.15	3.60	3.85	3.27	10.72
14	Acacia leucophloea	Velvelam	10	4	4	2.50	100.00	2.5	0.26	9.01	7.69	5.48	22.18
15	Morinda tinctorial	Nuna	4	1	4	1.00	25.00	4	0.09	3.60	1.92	1.95	7.48
16	Dalbergia sissoo	nukkam totakatti	1	1	4	0.25	25.00	1	0.20	0.90	1.92	4.22	7.04

17	Erythrina variegate	Kalyana murungai	2	1	4	0.50	25.00	2	0.10	1.80	1.92	2.07	5.79
18	Borassus flabellifer	Palmyra palm	5	2	4	1.25	50.00	2.5	0.16	4.50	3.85	3.42	11.77
19	Thespesia lampas	Common mallow,kattupparuthi	1	1	4	0.25	25.00	1	0.11	0.90	1.92	2.44	5.26
20	Lannea coromandelica	Indian Ash Tree, Moya, Wodier	9	1	4	2.25	25.00	9	0.28	8.11	1.92	6.07	16.10
21	Samanea saman	Thoongumoonjj maram	3	3	4	0.75	75.00	1	0.22	2.70	5.77	4.74	13.21
22	Prosopis juliflora	Algaroba, Mesquite	5	3	4	1.25	75.00	1.67	0.10	4.50	5.77	2.19	12.46
23	Eucalyptus globulus	Blue gum	3	3	4	0.75	75.00	1	0.10	2.70	5.77	2.19	10.66
	Total		111	52					4.65				

Table 3.19 Assessment of Shrubs

S. No.	Scientific Name	Local Name	Total No. of species	Total of Quadrants with species	Total No. of Quadrants	Density	Frequency (%)	Abundance	Relative Density	Relative Frequency	IUCN Conservation Status
1	Jatropagossypifolia	Kaatamanaku	28	17	24	1.17	0.71	1.65	14.43	17.17	Not Assessed
2	Lantana trifolia	Shrub verbana	10	3	24	0.42	0.13	3.33	5.15	3.03	Not Assessed
3	Robiniapseudoacacia	Black locust	17	5	24	0.71	0.21	3.4	8.76	5.05	Least Concern
4	Lantana camara	Unnichedi	9	6	24	0.38	0.25	1.5	4.64	6.06	Not Assessed
5	Calotropis gigantea	Erukam	14	12	24	0.58	0.50	1.17	7.22	12.12	Not Assessed

6	Stachytarpheaurticifolia	Rat tail	15	9	24	0.63	0.38	1.67	7.73	9.09	Not Assessed
7	Datura metal	Ummattangani	5	4	24	0.21	0.17	1.25	2.58	4.04	Not Assessed
8	Hibiscus rosa sinensis	Sembaruthi	3	2	24	0.13	0.08	1.5	1.55	2.02	Not Assessed
9	Tabernaemontanadivaricata	Crepe Jasmine	3	3	24	0.13	0.13	1	1.55	3.03	Not Assessed
10	Chloromolaena odorata	Venapacha	9	6	24	0.38	0.25	1.5	4.64	6.06	Least Concern
11	Euphorbia geniculata	Amman Pacharisi	3	3	24	0.13	0.13	1	1.55	3.03	Not Assessed
12	Catharanthus roseus	Nithyakalyani	3	3	24	0.13	0.13	1	1.55	3.03	Not Assessed
13	Woodfordiafruiticosa	Velakkai	3	3	24	0.13	0.13	1	1.55	3.03	Least Concern
14	Morindapubescens	Mannanunai	2	2	24	0.08	0.08	1	1.03	2.02	Not Assessed
15	Acalypha indica	Kuppaimeni	20	8	24	0.83	0.33	2.5	10.31	8.08	Not Assessed
16	Parthenium hysterophorous	Vishapoondu	50	13	24	2.08	0.54	3.85	25.77	13.13	Not Assessed

Table 3.20 Assessment of herbs and grasses

S. No.	Scientific Name	Local Name	Total No. of species	Total of Quadrants with species	Total No. of Quadrants	Density	Frequency (%)	Abundance	Relative Density	Relative Frequency	IUCN Conservation status
1	Plumbago zeylanica	Chittiramoolam	3	3	30	0.10	0.10	1	1.19	3.23	Not assessed
2	Mimosa pudica	Thottacherungi	6	5	30	0.20	0.17	1.2	2.38	5.38	Least concern
3	Sida acuta	Malaidangi	10	3	30	0.33	0.10	3.33	3.97	3.23	Not assessed
4	Scrophularia nodosa	Sarakkothini	15	7	30	0.50	0.23	2.14	5.95	7.53	Not assessed
5	Helicteresisora	Valampuri	2	2	30	0.07	0.07	1	0.79	2.15	Not assessed
6	Cynodondactylon	Arugu	12	6	30	0.40	0.20	2	4.76	6.45	Not assessed
7	Sporobolus fertilis	Giant Parramatta Grass	9	4	30	0.30	0.13	2.25	3.57	4.30	Not assessed

8	Viburnum dentatum	Viburnum	5	5	30	0.17	0.17	1	1.98	5.38	Least concern
9	Heraculem spondylium	Hog Weed	20	10	30	0.67	0.33	2	7.94	10.75	Not assessed
10	Laportea canadensis	Peruganchori	30	20	30	1.00	0.67	1.5	11.90	21.51	Not assessed
11	Euphorbia hirta	Amman Pacharisi	5	4	30	0.17	0.13	1.25	1.98	4.30	Not assessed
12	Tridax procumbens	Vettukaayathalai	5	4	30	0.17	0.13	1.25	1.98	4.30	
13	Tephrosia purpurea	Kavali	20	4	30	0.67	0.13	5	7.94	4.30	
14	Sida cordifolia	Maanikham	45	4	30	1.50	0.13	11.25	17.86	4.30	
15	Tridax procumbens	Cuminipachai	15	4	30	0.50	0.13	3.75	5.95	4.30	
16	Ruelliastrepens	Grandinayagam	25	4	30	0.83	0.13	6.25	9.92	4.30	
17	Senna occidentalis	Nattamsakarai	25	4	30	0.83	0.13	6.25	9.92	4.30	

Table 3.21 Evenness and species Richness by Margaleaf

Details	H	Hmax	Evenness	Species Richness (Margalef)
Trees	3.21	3.52	0.9	7
Shrubs	2.36	2.77	0.85	2.84
Herbs	2.56	2.83	0.9	2.89

From the above, it can be interpreted that tree community has higher diversity. While the shrub community shows less diversity. It is also observed that most of the quadrates have controlled generation of plant species with older strands. Higher tree species diversity can be interpreted as a greater number of successful species and a more stable ecosystem where more ecological niches are available, environmental change is less likely to be damaging to the ecosystem as a whole. Species richness is high for tree community when compared with herbs and shrubs.

3.7.7.4 LIST OF FAUNA

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

Table 3.22 List of Fauna

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

10	Redvented BulBul	Pycnonotus cafer	Bulbul	IV
FISH				
1	Common carp	Cyprirus earpio	Minnows and Carps	IV
2	Tilapia	Oreochromis mossambicus	Cichlid	IV
3	Carplet	Amblypharyngodon Sp	Cyprinidae	IV
4	Trout	Chela sp	-	IV
5	Punctatus	Ophiocephalus	Snakehead	IV

The core zone of the area is 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 hilly terrain covered by covered by Topsoil formation. The massive Charnockite formation is noticed below 2m (Avg) Topsoil and sloping towards North side of the area, the altitude of the area is above 290m (maximum) from MSL.

3.7.9 DRAINAGE PATTERN OF THE AREA

Koneri River is located at a distance of 1.2km. One tank is located within 1km radius i.e., 657m, SW. The area is studded with few tanks that serve as the source of drinking water and also their surplus feeds adjoining tanks. The drainage map of the study area is given in Figure 3.18.

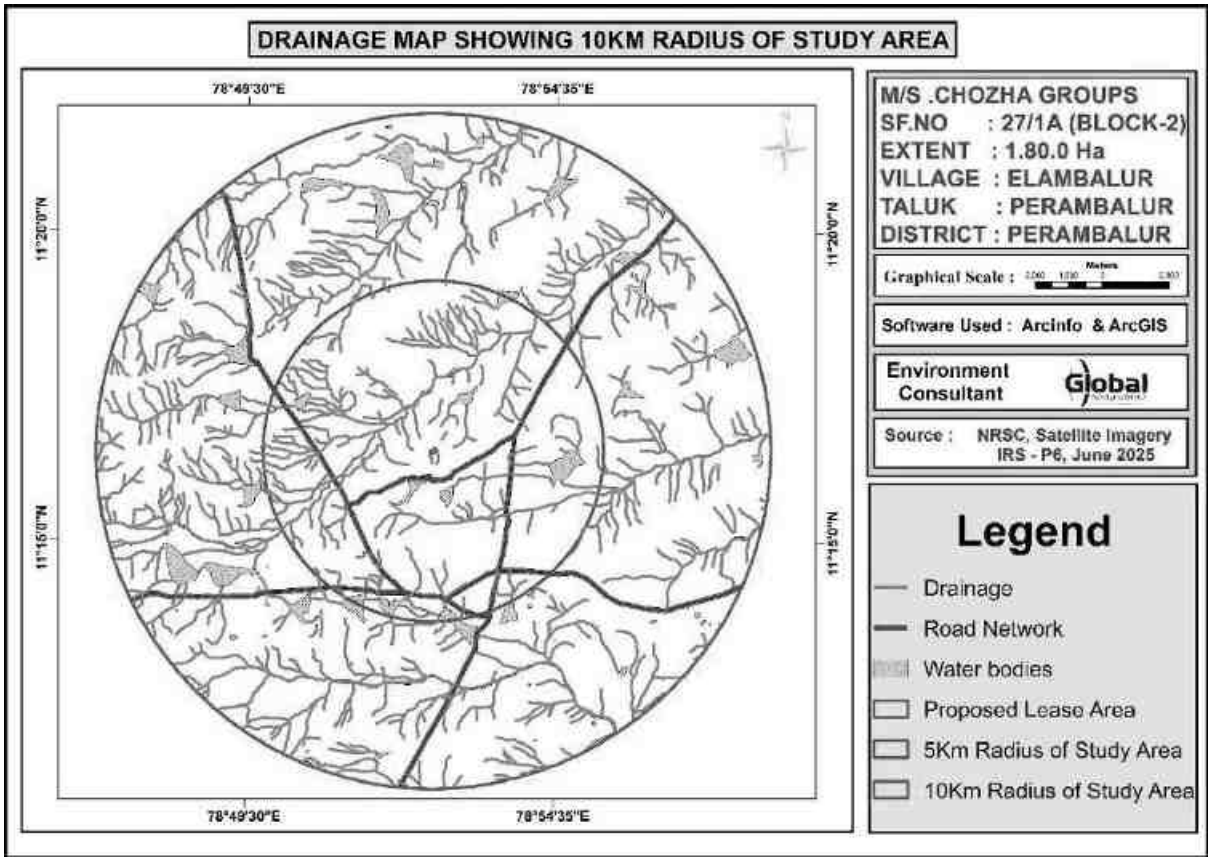


Figure 3.17 Drainage map of the study area

3.7.10 GEOMORPHOLOGY

Predominantly the buffer zone is dominated by Shallow weathered Buried Pediplain and moderately weathered buried pediplain. The project area is predominantly covered with Pediplain. Geomorphology of the study area is detailed below. The geomorphology of the study area is given in Figure 3.20.

S. No.	GEOMORPHOLOGY	Area in Sq.Km	Area in Percentage
1	Denudational Hills	7.16	2.24
2	Moderately weathered buried pediplain	61.93	19.38
3	Pediment-Inselberg complex	15.96	4.99
4	Pediplain	20.66	6.46
5	Residual Hill	3.02	0.95
6	Shallow weathered buried pediplain	207.01	64.78
7	Structural Hills	3.82	1.20
	Total Area	**319.56**	**100.00**

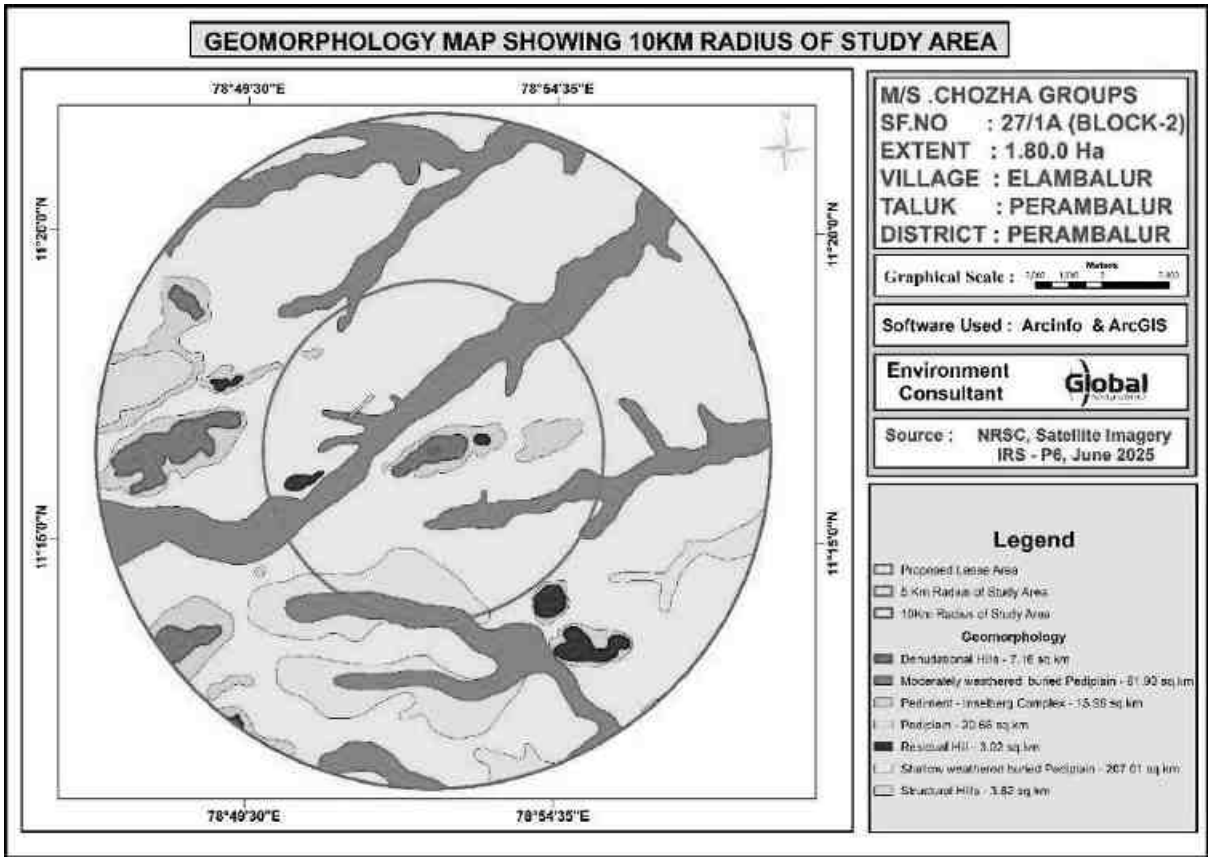


Figure 3.17 Geomorphology map of the study area

3.7.11 GEOLOGY

The regional geology of the study area is shown below in Figure 3.19. The geology map reveals that the area is predominantly covered with Fissile Hornblende Gnesis and the remaining area is covered with Charconite. Both Primary data (Local Geology) and Secondary Data (regional Geology) reveals that the area is covered with Hornblende Gnesis and in this way, secondary data is validated with the Primary Data.

Sl.No.	GEOLOGY	Area in Sq. Km	Area in Percentage
1	Charnockite	34.72	10.86
2	Fissile hornblende gnesis	284.84	89.14
	Total Area	**319.56**	**100.00**

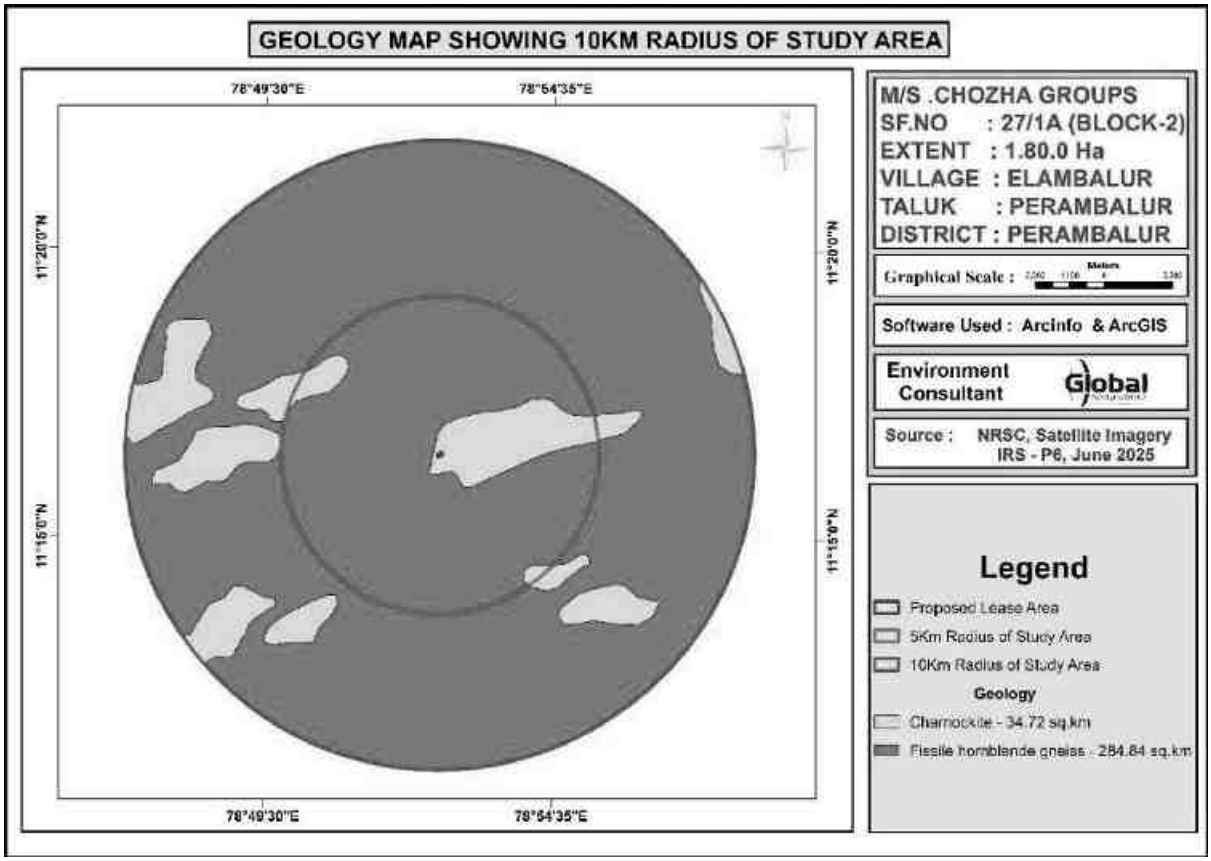


Figure 3.18 Geology map of the study area

3.7.12 LITHOLOGY

The study area is mainly dominated by intrusive rocks followed by banded limestone and clay. The project site falls partially under Granite and partially under intrusive rocks category.

3.7.13 SOCIO-ECONOMIC ENVIRONMENT

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

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

3.7.13.1 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.

3.7.13.2 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

The buffer zone of the project falls under Perambalur District

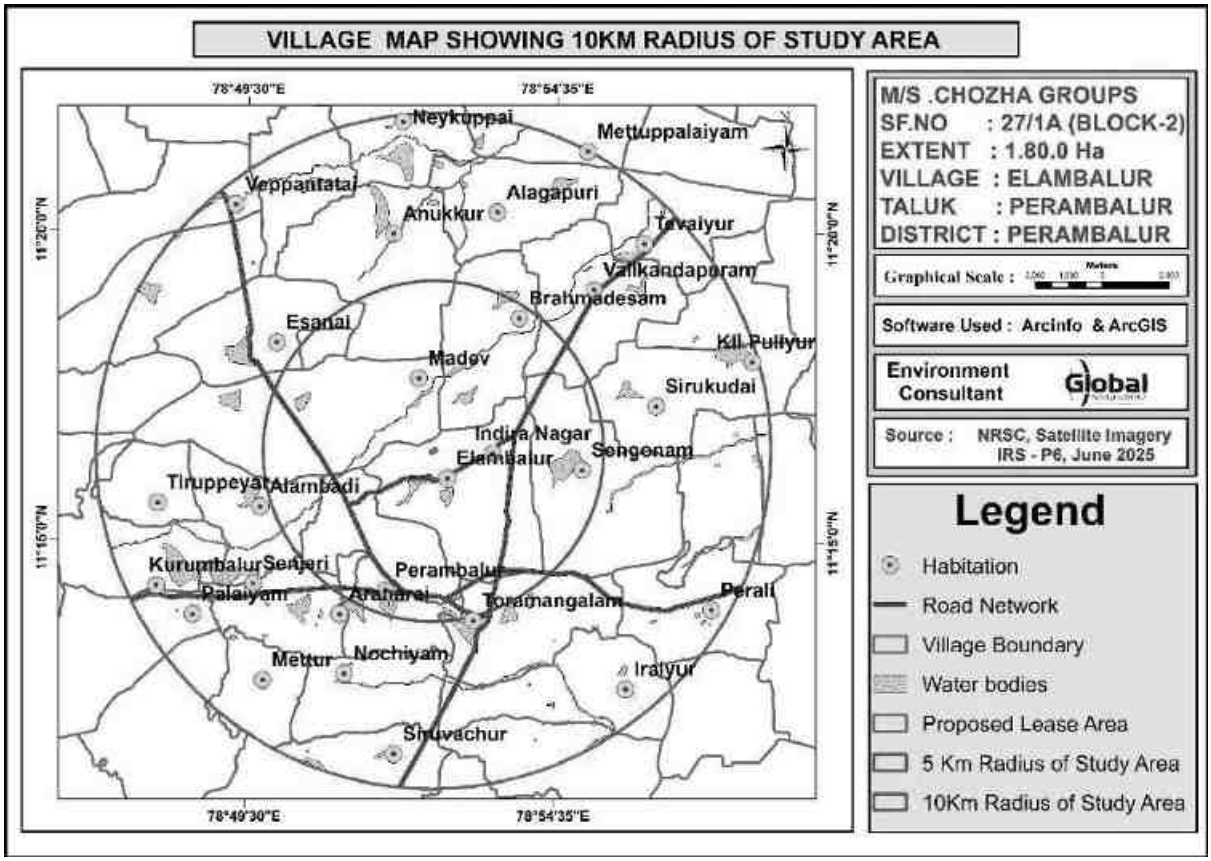


Figure 3.19 Village Map of the Study Area

Table 3.23 - 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	17729	49.90
Female Population	17793	50.09
Total	**35522**	100
B. Population break-up by Caste		
Scheduled Caste	**6113**	17.21
Scheduled Tribes	**888**	2.5
Others	28521	80.29
Total	**35522**	100
C. Literacy Level		
Total Literate Population	23284	65.55
Others	12238	34.45
Total	**35522**	100

D. Occupational structure		
Main workers	18116	51
Marginal workers	14919	42
Total Workers	33035	93
Total Non-workers	2487	7
Total	**35522**	**100**

Table 3.24 Population profile – Elambalur Village		
Particulars	**No of Population**	**Percentage (%)**
A. Population break-up by Gender		
Male Population	871	52.28
Female Population	795	47.72
Total	**1666**	100
B. Population break-up by Caste		
Scheduled Caste	**193**	11.58
Scheduled Tribes	**0**	0
Others	1473	88.42
Total	1666	100
C. Literacy Level		
Total Literate Population	1210	72.65
Others	456	27.35
Total	1666	100
D. Occupational structure		
Main workers	953	91.8
Marginal workers	84	8.2
Total Workers	1037	62.25
Total Non-workers	629	37.75
Total	**1666**	**100**

Key socio-economic indicator

The consolidated report of the primary study revealing the exact scenario prevailing in the area based on the survey conducted in the 20 houses each in 5 villages (Total of 100 Houses) is listed below:

Table 3.25 Key Socio-Economic Indicator

S. No.	Indicator	Percentage
1.	People below age 18	164
2.	People above age 18	268
3.	Literates	354
4.	illiterates	78
5.	% of people employed in company	16
6.	% of people self-employed	48
7.	% of people seasonally employed	24
8.	% of people unemployed	12
9.	% of houses covered with LPG Cooking gas	100
10.	% of houses covered with toilet facility	100
11.	% of houses covered with piped water connection	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.

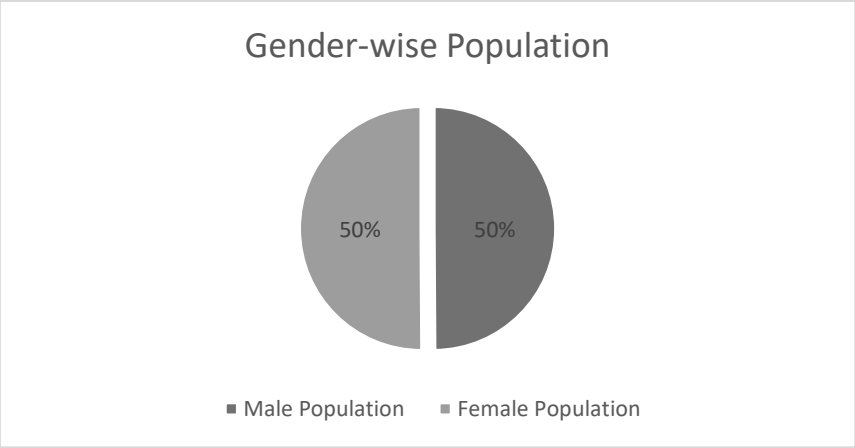


Figure 3.20 Gender-Wise Population Distribution

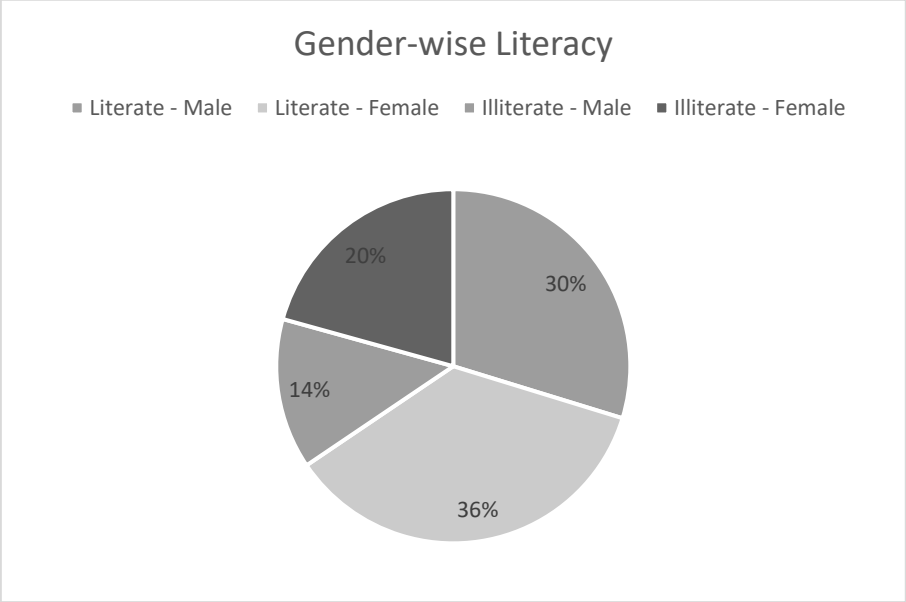


Figure 3.21 Gender Wise Literacy Distribution

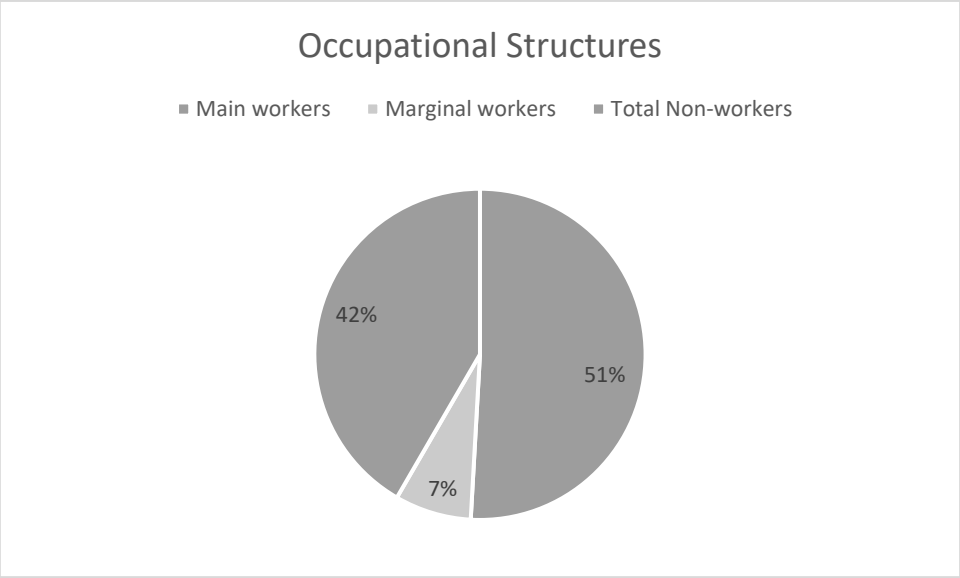


Figure 3.22 Occupational Structure Within Buffer Zone

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4.0 ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

4.1 GENERAL

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

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

4.2 PROJECT SPECIFIC IMPACTS AND MITIGAION MEASURES

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

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

- Land environment
- Soil environment

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

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

4.2.1 LAND ENVIRONMENT

4.2.1.1 ANTICIPATED IMPACT

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

The entire mine lease area of 1.80.00 Ha. is Government Land. The project area of 1.80.00 Ha is proposed to be altered by effective quarrying operation such as excavation (1.28.0 Ha), Infrastructure (0.01 Ha), Road (0.01 Ha) and greenbelt (0.50.0 Ha). The ultimate depth of quarrying is proposed with maximum depth of 47 m above the ground level and will not intersect the ground water table. 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	NIL	1.28.0
Infrastructure	NIL	0.01.0
Roads	NIL	0.01.0
Greenbelt	NIL	0.50.0
Unutilized	1.80.0	Nil
Total	**1.80.0**	**1.80.0**

- 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 1.28.0 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 (0.50.0 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.
- Solid waste will be generated from the mining activity as there will be refuse, also generation of domestic waste. If it not properly managed, may cause odor and health problem to the workers

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., 10 m all along the boundary for the adjoining 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. The overburden in the form of top soil generated will be utilized for afforestation purpose, the surface consists of top soil formation followed by rough stone which is proposed to excavate completely during the quarrying operation. Erosion of top layer (top soil), 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 (0.50.0 Ha.) all along the periphery of the project area (i.e., 10 m safety barrier) will ensure binding strength and minimizes soil erosion.
- Soil sampling will be carried out in the core zone for every season to ensure the soil quality is not affected due to the quarrying activities.

- Monitoring and maintenance – Weekly monitoring and daily maintenance of erosion control systems so that they perform as specified specially during rainy season.

4.2.3 WATER ENVIRONMENT

4.2.3.1 ANTICIPATED IMPACT ON SURFACE AND GROUND WATER

The impact due to quarrying on the water quality is expected to be insignificant because of no use of chemicals or hazardous substances during quarrying process. The quarrying activity will not intersect ground water table as quarrying is proposed up to a depth of 47m AGL and water table is found at a depth of 70m BGL. For the management of surface run-off, rain water harvesting plan will be proposed along with garland drainage along the periphery of the project site.

Koneri River is situated at a distance of 1.2 km in NW direction and one tank passing at 657m (SW). 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 and gravel 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 3.0 KLD comprising Drinking 1.0 KLD, Dust suppression 1.0 KLD and Greenbelt 1.0 KLD. The water will be sourced initially from outside agencies. Later the rainwater collected in the mine pit sump will be used for this purpose. Improper management of domestic wastewater in ML area may cause unhygienic conditions in the site thereby causing health impacts to the labours. The water balance diagram for the same is shown in Figure No 4.1.

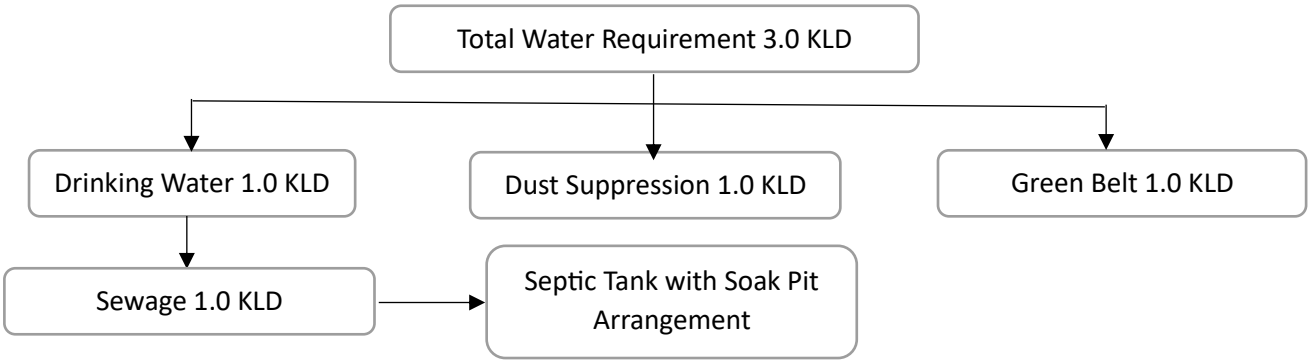


Figure 4.1 Water Balance Diagram

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 of 6 m (l) x 6m (w) x 3m (d) 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 938 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	Lease Area	18000	0.93	5,859
Total Harvested Rainfall				**5,859**

Total surface water runoff is 5,859 Cum per Annum. 10% of this amount will be evaporated and rest 5273 m^3 will be recharged in the rain water harvesting pit.

Two sumps with each capacity 3000 Cu.m will be provided to harvest the rainwater. 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

The existing ambient air quality in the area has been described in Chapter-3. Opencast mechanized mining, using jackhammer drilling, blasting, and excavation through an excavator, as well as mineral transport through tippers, will be carried out for the excavation of rough stone.

4.2.4.1 ANTICIPATED IMPACT

The proposed mining and allied operations may cause deterioration of air quality due to pollution arising from the project operation if prompt care is not taken. The

principal sources of air pollution in general due to mining and allied activities will be:

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

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

4.2.4.2 MITIGATION MEASURES

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

Table 4.3 Mitigative Measures for Air Environment

S.No	Activity	Consequence	Mitigative Measures
1	Drilling	Dust Emission	Usage of wet drilling
			Covering of drill holes with wet cloth
			Usage of sharp drill bits for drilling of holes.
			Provision of dust mask to workers working at highly dust prone and affected areas.
2	Blasting	Prompt dust emission	Well-designed blasting parameter, effective stemming to achieve optimum breakage occurs without generating fines.
			Use of appropriate explosives for blasting and avoiding overcharging of blast holes.
			Avoiding blasting during high wind periods where the fine dust is carried out away easily affecting the ambient air quality.
			Use of controlled blasting techniques with milli second delay detonators to keep the dust generation, noise as well as vibration level within the prescribed limits.
3	Excavation and Loading	Dust emission, Gaseous Emission	Proper maintenance of HEMM will be carried out to minimize dust and gaseous emission at the source level.
			Water sprinkling will be carried out at excavation and loading area.
			Imparting sufficient training to operators on safety and environmental parameters.

			Avoiding overloading of dumpers.
4	Transportation	Dust emission, Gaseous Emission	Regular wetting of transport road using mobile water tanker.
			Proper maintenance of haul road and other roads
			Avoiding overloading of tippers
			Covering of loaded tippers with tarpaulins during transportation
			Vehicular emissions will be controlled through regular and proper preventive maintenance only PUC valid vehicles will be used for transportation.
5	Greenbelt	Dust emission, Gaseous Emission	Development of greenbelt / barriers around mine in the safety zone and carrying out plantation within the lease area.
6	Occupation Health	Dust emanation, Gaseous Emission	Dust mask will be provided to the workers and their use will be strictly monitored
			Annual medical checkups, trainings and campaigns will be arranged to ensure awareness about importance of wearing dust masks among all mine workers & tipper drivers
			Ambient Air Quality Monitoring will be conducted six months once to assess effectiveness of mitigation measures proposed.

4.2.4.3 AIR QUALITY IMPACT PREDICTION

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

TABLE 4.4 Types of Sources for Air Pollution in Mining		
S. No.	**Type of mining operation**	**Type of Source**
1	Wet drilling	Point
2	Loading	Point
3	Transportation	Line

ARRIVING EMISSION FACTOR

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

TABLE 4.5 Emission Factors for Mining Activities			
S. No.	**Activity**	**Emission factor**	**Unit**
1	Wet drilling	0.00008	lb/s
2	Ore loading	0.0014	Kg/t/s
3	Transportation	0.26	Kg/VKT

Source

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

4.3 EMISSIONS FROM THE PROPOSED PROJECT

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

TABLE 4.6 PM 10 and PM 2.5 Emission from Mining Activities			
S. No.	**Activity**	**PM_{10}**	**$PM_{2.5}$**
1	Wet drilling	0.22	0.04
2	Ore loading	0.87	0.16
3	Transportation	0.23	0.05

MODEL INPUT DATA:

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

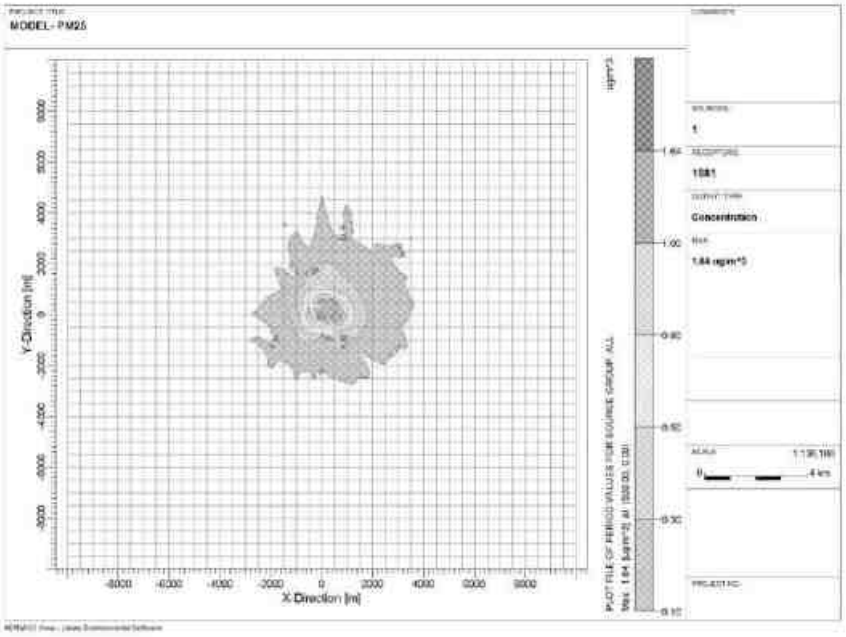


Figure 4.2 Isopleth of GLC Prediction for PM2.5

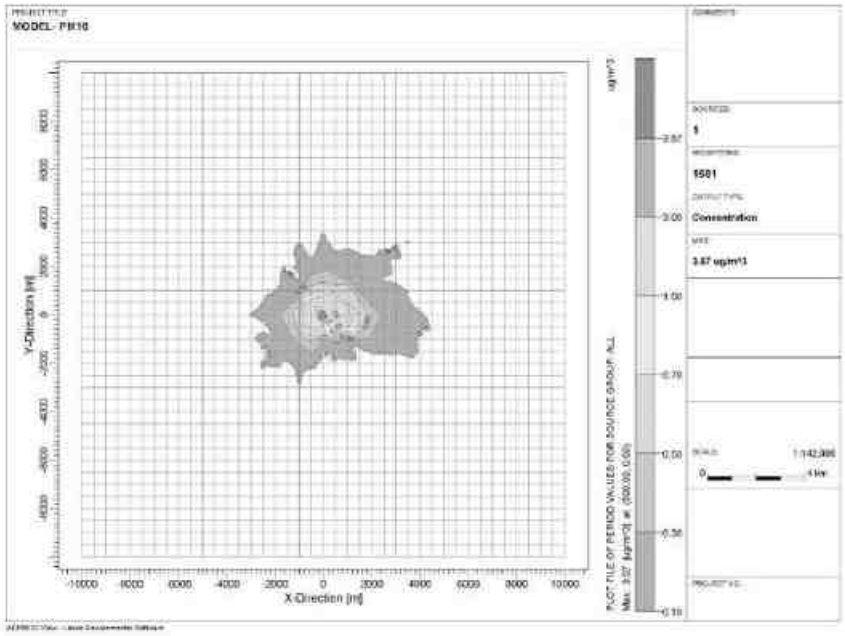


Figure 4.3 - Isopleth of GLC Prediction for PM10

PREDICTED AMBIENT AIR QUALITY:

The post project Concentrations of PM_{10}, $PM_{2.5}$, (GLC) (base line + incremental) after adopting necessary control measures is given in Table No - 4.9 to 4.10.

Table4.7: Concentrations of PM 2.5 after Project Implementation

S. No.	Location	Baseline Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Within ML area	28.1	<1.0	29.1	**60**
2	Samathuvapuram	30.9	<1.0	31.9	
3	Thanipand	29.0	<1.0	30.0	
4	Elambalur	25.7	<1.0	26.7	
5	Vadakumadhavi	25.3	<1.0	26.3	
6	Mettu theru, Perambalur	30.4	<1.0	31.4	
7	Erikarai	26.2	<1.0	27.2	

Table4.8: Concentrations of PM 10 after Project Implementation					
S. No.	**Location**	**Background Concentration**	**Predicted incremental Concentration**	**Post Project Concentration**	**Statutory Limits in µg/m3**
1	Within ML area	59.7	<1	60.7	**100**
2	Samathuvapuram	67.3	<1	68.3	
2	Thanipand	64.4	<1	65.4	
3	Elambalur	56.0	<1	57.0	
4	Vadakumadhavi	56.3	<1	57.3	
5	Mettu theru, Perambalur	61.6	<1	62.6	
6	Erikarai	55.6	<1	56.6	

The above report seems that, even in the worst-case scenario, the resultant added concentrations with baseline figures show that the values of ambient air quality for PM_{10} are in the range of 56.6 µg/m^3 to 68.3 µg/m^3 and for $PM_{2.5}$ are in the range of 26.3 µg/m^3 to 31.9 µg/m^3 which are within the statutory limits in each case. The mitigation measures undertaken in the mine for control of air pollution are given below.

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

CUMULATIVE IMPACT STUDY

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

S.No	Name of the Quarry Owner	S.F. Nos & Village	Lease Period	Area
a. Abandoned Quarry: NIL				
b. Existing Quarry				
1.	Thiru.A.Abner	27/1A (Block-9) Elambalur Village, Perambalur Taluk	R.C.No.138/G &M/2019 Dated 03.02.2021 (15.02.2021 to 14.02.2026)	1.00.0Ha
2.	Thiru.M.Kumar	27/1A Elambalur Village, Perambalur Taluk	R.C.No.137/G &M/2019 Dated 18.06.2021 (21.06.2021 to 20.06.2026)	1.00.0Ha
c. Proposed Quarry				
1	M/s. Chozha Groups	27/1A (Block-2) Elambalur Village, Perambalur Taluk	Proposed	1.80.0Ha
2	M/s. Elangovan Stone Crusher	27/1A (Block-3) Elambalur Village, Perambalur Taluk	Present Proposed	2.50.0Ha
3	M/s. K.C.R Bluemetal	27/1A (Block-1) Elambalur Village, Perambalur Taluk	Present Proposed	1.20.0Ha
Total Area of Cluster		**7.50.0 Ha**		

The total lease within the 500m radius works out to 7.50.0 Ha including this lease area. A map showing the existing and proposed quarry located within 500m radius is given in Figure 1.1.

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

Salient Features of Existing & Proposed Quarries

Description		P1	P2	P3	P4	P5
Name of the Quarry	Name of the Quarry	M/s. Chozha Groups	M/s. Elangovan Stone Crusher	M/s. K.C.R Bluemetal	Thiru.M.Kumar	Thiru.A.Abner
Geological Resources in Ts	Roughstone	16,85,667.50Ts	28,84,722.50Ts	10,16,059Ts	188250	18,93,375 Ts
Mineable Reserves in Ts	Roughstone	8,55,621.25Ts	9,13,728.75Ts	4,16,669 Ts	90750	10,73,875 Ts
Production quantity for the period of 5years	Roughstone	8,55,621.25Ts	9,13,728.75Ts	4,16,669 Ts	90750	10,73,875 Ts
Production per day in Ts	Peak Production	129800 Ts	120037.50 Ts	84177.50 Ts	35350	214775 Ts
Lorry Loads per day in Nos	-	43	40	28	12	72
Employment in Nos	-	27	31	25	17	37
Proposed Depth in meters	-	47m AGL	67m AGL	51m(46m AGL & 5m BGL)	60m(50m AGL & 10m BGL)	102m [62m AGL + 40m BGL]
Status of the quarry	-	Proposed	Proposed	Proposed	Existing	Existing

Based on the above production quantities the emissions due to various activities in all the 5 mines (2 Existing + 3 Proposed) includes various activities like ground preparation, excavation, handling and transport.

The cumulative study shows that the overall production of rough stone from the 5 quarries is 1947 Tons per day with a capacity of 195 trips per day.

As P4 and P5 project are existing quarries, they are part of the current traffic. The proposed project will bring 111 trips per day. The existing road can absorb this additional traffic due to this project. Various measures like proper maintenance of road, covering of the loaded truck with tarpaulin, water sprinkling will be carried out to ensure no adverse impact on the logistical front.

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 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 4.9 - The likely noise level in the lease area

S. 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

4.4.1 MITIGATION MEASURES FOR NOISE CONTROL

The following noise mitigation measures are proposed for control of Noise

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

4.4.2 GROUND VIBRATION

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

Mitigative Measures

- Proper quantity of explosive, suitable stemming materials and appropriate delay system should be adopted to avoid overcharging and for safe blasting;

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

4.4.3 BIOLOGICAL ENVIRONMENT

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

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

Table 4. 10 Ecological Impact Assessments and Its Mitigations -Part 1

S. No	Issues	Assessment	Mitigations
1	Proximity to national park/ wildlife sanctuary / reserve	Nagoor R.F-8.16Km (NW), Kalarampatti R.F-9.10Km (NW).	The fugitive dust generated by the mining activity will be suppressed by frequent sprinkling of

	forest / mangroves / coastline/estuary/sea	No forests are situated within 1.0 km radius. The proposed project does not attract Forest Conservation Act, 1980. There is no wild life sanctuaries found around 10km radius and the area does not attract Wildlife Protection Act, 1972 and C.R.Z. Notification, 1991.	water based on evaporation rate in the site specific.
2	Activities of the project affects the breeding/nesting sites of birds and animals	No breeding and nesting site was identified in mining lease site. The fauna sighted mostly migrated from buffer area. The fauna in the buffer zone may be affected by 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	Surface runoff management structures like garland drain, settling pond etc. as explained above will be constructed and as such there will not be any appreciable impact on surface	

	affect nearby Biodiversity area.	water quality which in turn can affect the bio diversity of the area.	
7	Risk of fall/slip or cause death to wild animals due to project activities	In the post mining stage, wire fencing is proposed all around the mined-out void to prevent falling of animals in the mine pits.	
8	The project release effluents into a water body that also supplies water to a wildlife	As the proposed project is mining activity there will be no possibilities of release of effluents. Also, no Wild life sanctuary within 10km radius.	NIL
9	Mining project effect the forest-based livelihood/ any specific forest production which local livelihood depended	Three reserved forests located beyond 1 km radius. So, the proposed mining activity does not affect forest and forest products.	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	No such significantly important medicinal value species within the ML area and its nearby region.	NIL
12	Forestland is to be diverted, has carbon high sequestration	"NO". There is no forest land within the lease area.	NIL
13	The project likely to affect wetlands, fish breeding grounds, marine ecology	'NO". No wetland, fish breeding grounds, marine ecology present in core mining area.	NIL

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

Table 4.11 Ecological Impact Assessments and Its Mitigations -Part 2

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

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

4.4.3.1 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 182 kg per day, 66,430 kg per year and 6,64,300 kg over ten years, as provided in below Table.

Description	Per Day	Per year	For Ten Years
Total fuel consumption in liters	68	24,890	**2,48,908**
CO_2 emission in kg	182	66,430	6,64,300

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.

4.4.3.2 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 – 4.12 GREENBELT DEVELOPMENT PLAN

Year	No. of trees proposed to be planted	Survival %	Name of the Species	No. of trees expected to be grown
I	500	80%	Neem, Casuarina, Pongamia pinnata, etc.,	400
II		80%		
III		80%		
IV		80%		
V		80%		

Nearly 0.50.0 Ha. of area is proposed for Greenbelt development by planting 500 Nos of trees and expected growth is around 400 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.

4.4.3.3 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 27 persons 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 & Gravel, 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.

4.4.4 OCCUPATIONAL HEALTH AND SAFETY

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

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

- Respiratory hazards
- Noise
- Explosive storage and handling

Respiratory Hazards

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

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

Noise

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

The following measures are proposed for implementation

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

Occupational Health Survey

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

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

The PP will establish first aid station within project site.

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

4.4.5 WASTE MANAGEMENT

4.4.5.1 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.

4.4.5.2 LIQUID WASTE

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

4.4.5.3 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 is 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.

4.4.5.4 PLASTIC WASTE

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

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5. ANALYSIS OF ALTERNATIVES (TECHNOLOGY AND SITE)

5.1 ALTERNATE TECHNOLOGY

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

5.2 ALTERNATE SITE

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

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6 ENVIRONMENTAL MONITORING PROGRAMME

6.1 GENERAL

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

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

6.2 MONITORING MECHANISM

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

6.3 ENVIRONMENTAL MONITORING SCHEDULE AND FREQUENCY

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

socio-economic interaction, through local liaison activities or even assessment of complaints. The monitoring schedules to be adopted in this quarry are given below.

Table 6.1 Environmental Monitoring Schedule

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

6.4 BUDGET FOR IMPLEMENTAION

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

Total EMP Cost for 10 years is 34.46 lakhs i.e., Rs. 9.1 Lakhs of Capital + Recurring cost Rs. 25.36 lakhs for Five years. The breakup of EMP cost is elaborated in Table 10.2 of Chapter 10.

6.5 SUBMISSION OF PERIODICAL REPORTS

The monitored data on air quality, water quality, noise levels and other environmental attributes will be periodically examined by the Mine Management Coordinator and Respective Head of Organization for taking necessary corrective measures.

The monitoring data will be submitted to Tamil Nadu State Pollution Control Board in the Compliance to CTO Conditions & environmental audit statements every year to MoEFCC and Half-Yearly Compliance Monitoring Reports to MoEFCC 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.

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7 ADDITIONAL STUDIES

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

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

7.1 PUBLIC CONSULTATION

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

7.2 RISK ASSESSMENT

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

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

Table 7.1 Risk Assessment and Control Measures

S.NO	Risk Factor	Causes of risk	Control Measures
1	Accidents due to explosives and heavy mining machineries	Improper handling and unsafe working practice	All safety precautions and provisions of Mine Act, 1952, Metalliferous Mines Regulation, 1961 and Mines Rules, 1955 will be strictly followed during all mining operations. Entry of unauthorized persons will be prohibited. Fire-fighting and first-aid provisions in the mine office complex and mining area. Provisions of all the safety appliances such as safety boot, helmets, goggles etc. will be made available to the employees and regular check for their use. Quarry operation will be done as per approved mining plan and other applicable statutory guidelines issued by DGMS, Dept. of Mining & Geology-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	Safe operating procedure established for drilling (SOP) will be strictly followed.

		pressure of compressed air, hoses may burst. Drill Rod may break.	Only trained operators will be deployed. No drilling shall be commenced in an area where shots have been fired until the blaster/blasting foreman has made a thorough Examination of all places. Drilling shall not be carried on simultaneously on the benches at places directly one above the other. Periodical preventive maintenance and replacement of worn-out accessories in the compressor and drill equipment as per operator manual. Drills unit shall be provided with wet drilling to ensure efficient working.
3	Blasting	Fly rock, ground vibration, Noise and dust. Improper charging, stemming & Blasting/ fining of blast holes. Vibration due to movement of vehicles.	Restrict maximum charge per delay as per approved mining plan. Proper blasting design with optimum spacing & burden, Charge per delay and stemming. SOP for Charging, Stemming & Blasting/Firing of Blast Holes will be followed by blasting crew during initial stage of operation. Shots are fired during day time only. Charging and firing shall be carried out in the same day. Siren will be done for each blasting. Blasting evacuation plan prepared and executed. The danger zone will be distinctly demarcated (by means of red flags).

5	Transportation	Potential hazards and unsafe workings contributing to accident and injuries. Overloading of material. While reversal & overtaking of vehicle. Operator of truck leaving his cabin when it is loaded.	Before commencing work, drivers personally check the dumper/truck/tipper for oil(s), fuel and water levels, tyre inflation, general cleanliness and inspect the brakes, steering system, warning devices including automatically operated audio-visual reversing alarm, rear view mirrors, side indicator lights etc., are in good condition. Unauthorized person will not be allowed to operate or ride on the vehicle. Loading according to the vehicle capacity. Periodical maintenance of vehicles as per operator manual.
6	Natural calamities	Unexpected happenings	An emergency management plan will be prepared considering all possible national calamity and the same will be executed if any such situation occurs. Escape Routes will be provided to prevent inundation of storm water. Fire Extinguishers & Sand Buckets in the designated areas.
7	Failure of Mine Benches and Pit Slope	Slope geometry, Geological structure	Ultimate or over all pit slope shall be below 60° and each bench height shall be 5m height.

7.3 DISASTER MANAGEMENT PLAN

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

7.3.1 MODEL DISASTER MANAGEMENT PLAN

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

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

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

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

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

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

7.3.2 OBJECTIVE OF DISASTER MANAGEMENT PLAN

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

Communication System

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

Facilities

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

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

Personnel

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

Operating Procedures

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

7.4 CLUSTER MINE CLOSURE PLAN

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

7.5 SLOPE STABILITY PLAN

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

- Geological structure comprising dip, intervening shear zone formation, clay intrusion, joints / discontinuities, faults etc.,
- Lithology of formation
- slope geometry

- Ground water availability which may cause increased thrust on the faces

Site Specific Analysis

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

Mitigation Measures

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

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8 PROJECT BENEFITS

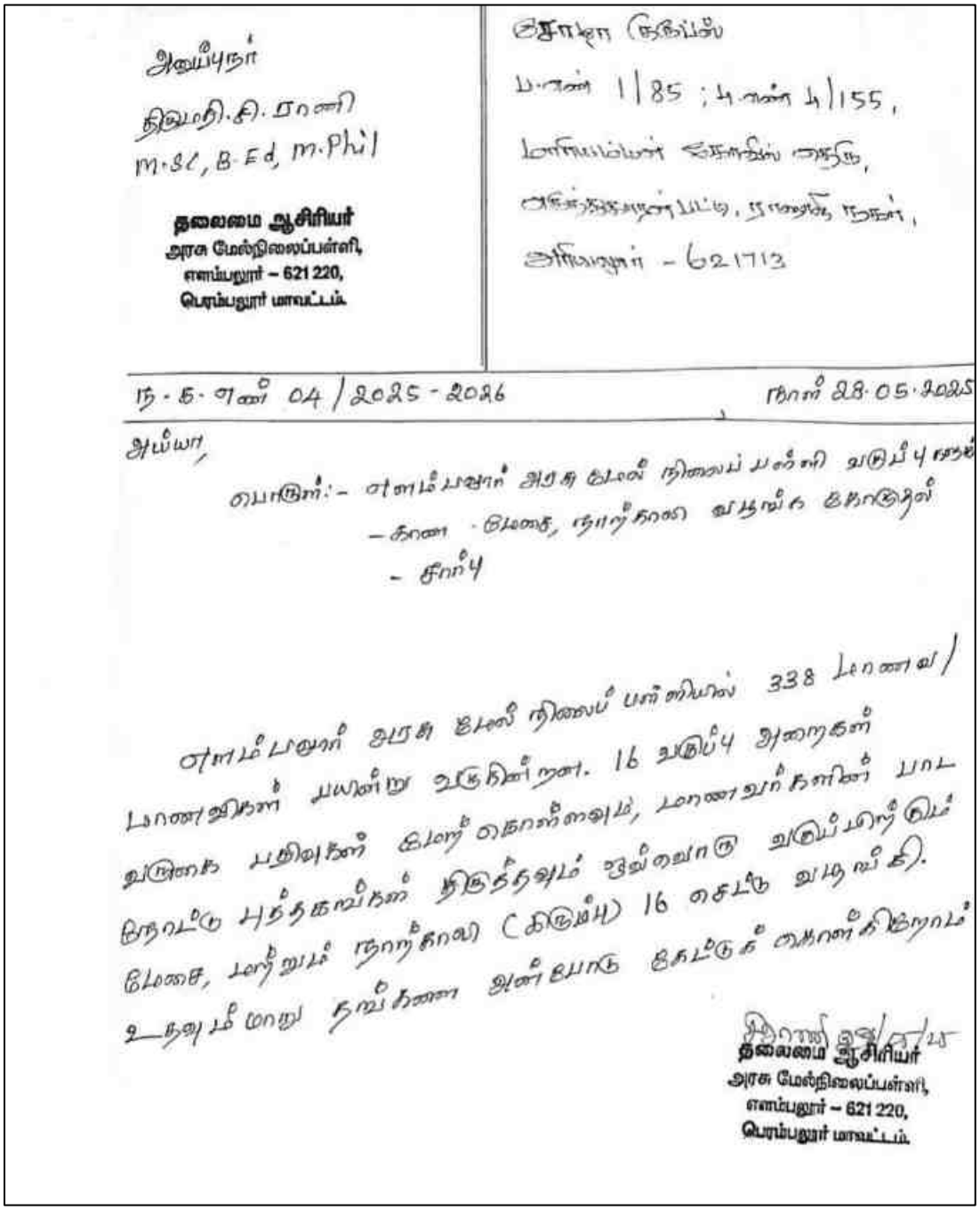
The project area is located on barren land, thereby causing no impact on the loss of agriculture or forest land. The project will create employment opportunities in the area. There will be no adverse effect of mining on the socioeconomic status of the people; rather, mining activities will improve their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

The mining activity at proposed Rough Stone Quarry of M/s. Chozha Groups will create direct employment opportunity for 27 local people.

Based on the request letter received from Panchayat Union Primary School, Elambalur, the PP has proposed CER amount of Rs. 3.0 Lakhs for various activities. The copy of the letter is enclosed below.







அனுப்புநர்

திருமதி.கி. ராணி
M.Sc, B.Ed, M.Phil

தலைமை ஆசிரியர்
அரசு மேல்நிலைப்பள்ளி,
எளம்பலூர் – 621 220,
பெரம்பலூர் மாவட்டம்.

பெறுதல

பெறுநர் 1/85 ; புறம்போக்கு 4/155,
மாரியம்மன் கோவில் அருகில்,
எளம்பலூர்(பட்டி), முசிறி தாலுகா,
திருச்சி மாவட்டம் - 621713

ந.க.எண் 04/2025-2026 நாள் 28.05.2025

அய்யா,

பொருள்:- எளம்பலூர் அரசு மேல்நிலைப்பள்ளி மரக்கன்று நடுதல்
- தொடர்பாக.

- சார்பு

எளம்பலூர் அரசு மேல்நிலைப்பள்ளியில் 338 மாணவ/மாணவிகள் பயின்று வருகின்றனர். 16 மரக்கன்றுகள் நடப்பட்டு பாதுகாக்கப்பட்டு வருகின்றன. மேலும் நாற்காலி (திருத்தி) 16 கொடுத்து உதவுமாறு கேட்டுக் கொள்ளப்படுகிறது.

நன்றி

தலைமை ஆசிரியர்
அரசு மேல்நிலைப்பள்ளி,
எளம்பலூர் – 621 220,
பெரம்பலூர் மாவட்டம்.

Figure 8.1 – CER LETTER & SCHOOL PLANTATION PHOTOS

The list of activities proposed for CER is mentioned below

Table 8.1 CER Activities

S. No.	PROPOSED CER ACTIVITIES	COST IN LAKHS.
1	❑ Plantations inside and outside the school premises ❑ Providing 16 sets of Table & chairs	3.00
Total		**3.00**
The below proposed CER activities for the proposed cost will be implemented in Government High School, Elambalur Village		

****

9 ENVIRONMENTAL COST BENEFIT ANALYSIS

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

10 ENVIRONMENTAL MANAGEMENT PLAN

The Environmental Management plan is a site-specific plan. It is developed to ensure that the project is implemented in an environmentally sustainable manner, where all contractors and subcontractors, including consultants if any, understand the potential environmental risks arising from the project and take appropriate actions to minimize those risks. EMP also ensures that the project implementation is carried out in accordance with the planned design and by taking appropriate mitigation measures to reduce adverse environmental impacts during project's life cycle.

10.1 ENVIRONMENTAL POLICY

The Project Proponent – M/s. Chozha Groups shall carry out all the quarrying operations and activities in an environmentally responsible manner and to continually improve environmental performance.

The Proponent will:

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

10.2 ENVIRONMENTAL MANAGEMENT PLAN

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

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

Table 10.1 - ENVIRONMENTAL MANAGEMENT PLAN

Environmental Parameter	Mitigation Measures
Air	Wet drilling to suppress the dust emission from drill machine
	Regular water sprinkling on haulage road through fixed water sprinkler.
	1.0 m3/day of water will be used for dust suppression.
	Avoiding blasting during high wind period, night times and temperature inversion periods.
	Regular grading of haul road to clear accumulation of loose material.
	It will be ensured that vehicles are properly maintained to comply with exhaust emission requirements
	Maintenance as per operator manual of the equipment and machinery in the mines to minimizing air pollution
	Ambient Air Quality Monitoring carried out in the project area and in surrounding villages to access the impact due to the mining activities and the efficacy of the adopted air pollution control measures.
	Afforestation for control of dust.
Water	
Surface water	Koneri River is situated at a distance of 1.2 km in north west direction and Elambalur Periyeri is located at a distance of 657m (SW). No other water bodies close to the project site; 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 47 m maximum above ground level, the water table in the area is 70m BGL, hence the project will not intersect the Ground water table during entire quarry period.
Water Consumption and Wastewater generation	The required water of 3.0 KLD will be procured from outside agencies initially and later rainwater harvested in the mine pit shall be used other than drinking purpose.
	Domestic wastewater generation of 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 (10 Meters) of the project area to attenuate the noise and the same will be maintained.
	Preventive maintenance of mining machinery and replacement of worn-out accessories to control noise generation.
	Regular ambient noise level monitoring will be carried out in the project area and in surrounding villages to access the impact due to the mining activities and the efficacy of the adopted noise control measures.
Ground Vibration and Fly Rock Control	Controlled blasting using delay detonators will be carried out to maintain the PPV value well within the prescribed standards of DGMS.
	Drilling and blasting will be carried under the supervision of qualified persons.
	Ensure blast holes are adequately stemmed for the depth of the hole and stemmed with suitable angular material.
	Undertake noise or vibration monitoring.

Land Environment	There is no change will be in the land use pattern as mentioned in the approved mining plan a such mine pit, safety zone etc., At conceptual stage, the mining pits will be converted into Rain Water Harvesting. Remaining area will be converted into greenbelt area.
	Garland drains with catch pits / settlement traps to be provided all around the project area to prevent run off affecting the surrounding lands.
	The periphery of Project area will be planted with thick plantation to arrest the fugitive dust, which will also act as acoustic barrier.
	Frequent Soil and ground water testing as per Environmental Monitoring Plan.
Top Soil / Overburden	There is no waste anticipated in this rough stone Quarry. The entire quarried minerals will be utilized.
Biological Environment	During mining, three-layer thick plantation will be carried out around the project periphery, on safety barrier zone, on top benches of quarried out area etc.,
	The main attributes that retard the survival of sapling is fugitive dust; this fugitive dust can be controlled by water sprinkling on the haul roads and installing a sprinkler unit near the newly planted area.
	Regular review on Greenbelt development programme.
	Year wise greenbelt development plan mentioned in Chapter 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.

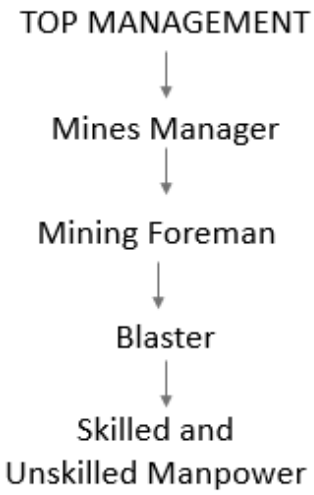


Figure 10.1 Organization Chart

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

10.4 OCCUPATIONAL SAFETY & HEALTH MANAGEMENT

Occupational safety and health are very closely related to productivity and good employer-employee relationship. The main factors of occupational health impact in quarries are fugitive dust and noise. Safety of employees during quarrying operation and maintenance of mining equipment will be taken care as per Mines Act 1952 and Rule 29 of Mines Rules 1955. To avoid any adverse effect on the health of workers due to dust, noise and vibration sufficient measures have been provided. The health status of workers in the mine shall be regularly monitored under an occupational surveillance program. Under this program, all the employees are subjected to a detail medical examination at the time of employment.

10.5 BUDGETARY PROVISION FOR ENVIRONMENTAL MANAGEMENT

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

Table 10.2 Environmental Management Plan Budget

Activities	Mitigation Measure	Capital cost	Recurring Cost per Annum
Air Environment	Compaction, gradation and drainage on both sides for Haulage Road	0.09	0.09
	Fixed Water Sprinkling Arrangements + Water sprinkling by own water tankers	5.00	0.25
	Muffle blasting – To control fly rocks during blasting	0.00	0.05
	Wet drilling procedure / latest eco-friendly drill machine with separate dust extractor unit	0.20	0.04
	No overloading of trucks/tippers/tractors	0.00	0.05

	Stone carrying trucks will be covered by tarpaulin	0.00	0.10
	Enforcing speed limits of 20 km/hr within ML area	0.06	0.01
	Regular monitoring of exhaust fumes as per RTO norms	0.00	0.05
	Regular sweeping and maintenance of approach roads for at least about 200 m from ML Area	0.00	0.36
	Installing wheel wash system near gate of Rough stone and Gravel Quarry	2.00	0.05
Sub-Total (A)		**7.35**	**1.05**
Noise Environment	Provision for Portable blaster shed	0.30	0.02
Sub-Total (B)		**0.30**	**0.02**
Waste Management	Provision for domestic waste collection and disposal through authorized agency	0.20	0.10
	Installation of dust bins	0.05	0.02
Sub-Total (C)		**0.25**	**0.12**
Mine Closure	Plantation inside ML area (572 Nos.)	0.50	0.10
Sub-Total (D)		**0.50**	**0.10**
Implementation of EC, Mining Plan & DGMS Condition	Size 6’ X 5’ with blue background and white letters as mentioned in MoM Appendix II by the SEAC TN	0.05	0.01
	Air, Water, Noise and Soil Quality Sampling every 6 Months for Compliance Report of EC Conditions	0.00	0.50
	Workers will be provided with Personal Protective Equipment's	0.27	0.03
	Health checkup for workers will be provisioned	0.00	0.14
	First Aid facility Provision	0.00	0.02
	Signage & boards for safety precautions	0.05	0.01

	No parking will be provided on the transport routes. Separate provision on the south side of the hill will be made for vehicles / HEMMs. Flaggers will be deployed for traffic management	0.18	0.01
	Installation of CCTV cameras in the mines and mine entrance	0.15	0.02
Sub-Total (E)		**0.70**	**0.73**
Grant Total (A+B+C+D+E)		**9.1**	**2.01**
Total EMP Cost for 10 years is 34.46 lakhs i.e., Rs. 9.1 Lakhs of Capital Cost + Rs. 25.36 Lakhs of Recurring cost (For 10 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 M/s. Chozha Groups Rough Stone Quarry over an extent of 1.80.0 Ha. Government land in S. F. No. 27/1A (Block-2) of Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu State in compliance with ToR obtained vide ToR Identification No. TO25B0108TN5501934N Dated: 30.07.2025.

Although the individual lease area of this project is less than 5 hectares, the two existing Quarries and three proposed quarry including this project within a 500-meter radius, along with this project, add up to more than 5 hectares i.e. 7.50.0 Ha. A map showing the existing and proposed quarry located within 500m radius is given in Figure 1.1.

This cluster includes the two existing quarries namely Thiru. A. Abner Maximus Fernando (1.00 Ha), Thiru. M. Kumar (1.00 Ha) and the three proposed quarries namely M/s. Elangovan Stone Crusher (2.50.0 Ha); M/s. Chozha Groups (1.80 Ha), K.C.R. Blue Metal (1.20.0 Ha).

This project proposed to produce 3,11,135 m^3 of Rough Stone for the period of 10 years with ultimate depth up to 47m AGL.

11.2 PROJECT DESCRIPTION

Table 11.1 Salient Features of the Project

S. No.	Particulars	Details
1.	Proponent Name	M/s. Chozha Groups
2.	Proposed project	Rough Stone Quarry of M/s. Chozha Groups
3.	Extent	1.80.0 Ha and the cluster area within 500 m radius including the proposed mine is 7.50.00 Ha > 5 Ha
4.	Location	S.F.No. 27/1A (Block-2), Elambalur Village, Perambalur Taluk, Perambalur District

5.	Co-ordinates of the project site	Latitude: 11°16'23.90"N to 11°16'29.88"N Longitude: 78°52'31.01"E to 78°52'37.77"E
6.	Topography	Hilly Terrain
7.	Site Elevation above MSL	≃ 290 m from above MSL.
8.	Topo Sheet No.	58 I /15
9.	Minerals of Mine	Rough Stone
10.	Proposed production in m3	3,11,135 m^3 of Rough Stone
11.	Ultimate Depth of mining	47m AGL
12.	Method of Mining	Opencast Mining with a bench height of 5m and bench width of 5m is proposed
13.	Drilling/Blasting	Drilling and controlled Blasting is proposed
14.	No. of Working days	300 Days
15.	Water requirement & Source	3.0 kLD and will be sourced from local vendors
16.	Manpower	27 Nos.
17.	Project Cost	Rs. 586.46 lakhs
18.	Mining Plan Approval	Assistant Director, Department of Geology and Mining, Perambalur vide Rc.No.110/G&M/2025, dated: 12.05.2025
19.	Safety Zone	0.50.0 Ha will be maintained as safety zone and tree saplings will be planted in this area
20.	Ground water level	70 m BGL
21.	Distance of Stone Crusher	0.87 km, NE
22.	Previous History & CCR	This is a Fresh Lease. Hence CCR is not applicable

Table 11.2 Environmental Settings of the project site

S. No.	Particulars	Details
1.	Nearest Highway	(NH-136) Ariyalur – Athur – 0.42km (S) (SH-157) Perambalur – Athur – 3.0km (SW)
2.	Interstate Boundary	Not Applicable
3.	Nearest Railway Station	Ariyalur Railway Station (24.9 km, SE)
4.	Nearest Airport	Tiruchurapalli International Airport (61.8 km(SW))
5.	Nearest Village	Perambalur– 1.8km (S)
6.	Water bodies	Tank-900m(SW), Elambalur Lake-1.33Km(SE), Thonappady periya Yeri- 8.62Km(N), Esani Lake-6.43Km(NW), Senjeri Lake-7.14Km(SW) ,Thuraimangalam Lake-5.37Km(SE),Palayam Lake-8.16Km(SW),Keelapuliyur Lake-9.47Km(NE)
7.	Reserved Forest	Nagoor R.F-8.16Km (NW), Kalarampatti R.F-9.10Km(NW)
8.	Eco Sensitive Zone and Wildlife Sanctuary (Notified)	Nil within 10km radius Karaivetti Bird Sanctuary-26.41Km (NW)
9.	Archaeological important places	Nil within 10 km radius
10.	Defense Installations	Nil within 10 km radius
11.	Nearest Port	Nil within 10 km radius
12.	Seismic Zone	Nil within 10 km radius

11.3 DESCRIPTION OF THE ENVIRONMENT

The baseline monitoring study was carried out during **March 2025 – 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 - 11.3 Land use Pattern of the study area

Sl.No.	LAND USE / LAND COVER	Area in Sq.Km	Area in Percentage
1	Built-up land	18.99	5.94
2	Crop land	188.56	59.01
3	Existing quarries	5.65	1.76
4	Hill and forest	13.4	4.19
5	Land with scrub	14.96	4.68
6	Land without scrub	39.65	12.04
7	Fallow	26.69	8.35
8	Water bodies	11.63	3.67
	Total Area	**319.53**	**100.00**

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 6.55 to 7.49 and Electrical Conductivity values were ranging between 66.48 – 119.4 µmhos/cm. Soils are generally Loam. Organic matter values were ranging between 0.66 – 0.96 %. Total Nitrogen values were ranging between 165 - 230 mg/kg. Phosphorus values were ranging between 1.19 – 1.82 µg/g. Potassium values were ranging between 312 – 484 mg/kg. Sodium values were ranging between 454 - 690 mg/kg. Total Sulphur values were observed to be BDL. The soil quality data for the 7 samples collected and analyzed are provided in Table no – 3.14.

11.3.3 AMBIENT AIR QUALITY

The results of ambient air quality monitoring for the period **(March 2025 to May 2025)** are presented in Chapter 3. The ambient air quality data for PM_{10}, $PM_{2.5}$, SO_2, NO_2 & CO studied at 7 locations as per prescribed guidelines/ methods. As per the monitoring data, the PM_{10} values were in the range of 50.3 – 59.1 µg/m3. $PM_{2.5}$ values were in the range of 24.0 – 27.2 µg/m3. SO_2 levels were ranging from 4.7 – 5.8 µg/m3. NO_2 levels were ranging from 8.7 – 11.1 µg/m3. While comparing with the NAAQ Norms laid by MoEFCC, all monitored values of PM_{10}, $PM_{2.5}$, SO_2, NO_2 & CO were found to be well within the prescribed standards. The CO values in the all locations found to be below detectable limit (DL – 1144 µg/m3).

11.3.4 WATER ENVIRONMENT

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 7.39 to 7.84, Chlorides Ranges From 124 - 386 mg/l, Sulphates value found to be between 98.6 - 392 mg/l, Fluoride Ranges low in lease area i.e. 0.18 – 0.36, Hardness varies from 254 - 490 mg/l, and Total dissolved solid 520 – 1246 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 3.12, it is observed that the day Equivalent Noise (Leq-d) level were ranging from 45.9 to 51.7 dB(A) and Night Equivalent Noise (Leq-n) level were ranging from 40.3 to 45.7 (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 Elambalur 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 1.28.0 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 (0.50.0 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	❖ Koneri River is situated at a distance of 1.2km in north west direction and Elambalur Periyaeri is at a distance of 657m (SW). 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. ❖ The required water (3.0 KLD) will be sourced initially from outside agencies. Later the rainwater collected in the mine pit sump will be used for this purpose. ❖ Regular water quality will be carried in nearby villages to ensure the water quality is not affected due to the quarrying activities. ❖ Domestic sewage from site office & urinals/latrines provided in project area will be discharged through septic tank followed by soak pit system. ❖ Only clear and settled water free from silt content will be used for dust suppression and greenbelt development.

	❖ De-silting will be carried out before and immediately after the monsoon season and the settling tank and drains will be cleaned weekly, especially during monsoons. ❖ Two sumps with each capacity of 6000 cu.m (2 Nos.). 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, carrying out blasting only during specified times, avoiding blasting during un favorable weather conditions, using explosives of good quality, using mist sprayers Regular wetting of transport, Covering the materials carried in tippers with tarpaulin, Proper maintenance of vehicles used for transportation, conducting regular emission tests for vehicles used for transport. ❖ Speed restrictions will be imposed to avoid spillage of loaded materials upon the road and to reduce wear and tear of the road. ❖ Weekly inspections of the condition of the access road by competent person employed, and immediate action will be taken to address any potholes or damage to the road surface.

	❖ Development of greenbelt is proposed in the safety zone of 10m barriers in the lease area. ❖ Personal Protective Equipment's will be provided to all workers
Noise & Vibration	
❖ The main noise generating source during mining operation and related activities are drilling, excavation, loading, unloading and transportation.	❖ Usage of sharp drill bits while drilling which will help in reducing noise; ❖ Secondary blasting will be totally avoided and hydraulic rock breaker are utilized for breaking boulders; ❖ Controlled blasting with proper spacing, burden, stemming and optimum charge/delay will reduce noise; ❖ The blasting will be carried out during favorable atmospheric condition and less human activity timings by using nonelectrical initiation system; ❖ Proper maintenance, oiling and greasing of machines will be done every week to reduce generation of noise; ❖ Provision of sound insulated chambers for the workers working on machines (HEMM) producing higher levels of noise; ❖ Green Belt will be developed around the project areas and along the haul roads. The plantation minimizes propagation of noise; ❖ Personal Protective Equipment (PPE) like ear muffs/ear plugs will be provided to the operators of HEMM and persons

	working near HEMM and their use will be ensured though training and awareness. ❖ Regular medical check–up and proper training to personnel to create awareness about adverse noise level effects.
Ground Vibration	
❖ The vibration due to blasting can cause damage to the nearby structures if appropriate technology and control measures are not adopted in the blasting operation. ❖ Fly rock is another possible damage causing outcome of blasting.	❖ Proper quantity of explosive, suitable stemming materials and appropriate delay system should be adopted to avoid overcharging and for safe blasting; ❖ Adequate safe distance from blasting should be maintained as per DGMS guidelines; ❖ Blasting shelter should be provided as per DGMS guidelines; ❖ Blasting operations shall be carried out only during day time; ❖ The charge per delay shall be minimized and preferably more number of delays will be used per blasts; ❖ During blasting, other activities in the immediate vicinity shall be temporarily stopped; ❖ Drilling parameters like depth, diameter and spacing will be properly designed to give proper blast; ❖ Blasting will be carried out under the supervision of statuary persons as approved by DGMS. ❖ A well-defined SOP will be framed under the leadership of top management and

	the same will be followed for each blasting. ❖ Regular PPV monitoring will be carried out to ensure PPV limits i.e., 0.5 mm/s.
Biological Environment	
❖ Direct impacts include land clearance and excavation causing destruction of flora and fauna and loss of habitats. ❖ Indirect impacts include habitat degradation due to noise, dust, and human activity.	❖ Only some common herbs, shrubs and grass will be cleared. So, there will be no impact on the biodiversity. ❖ Green belt development with suitable species will enhance the biodiversity of the project area. ❖ The core zone or buffer zone does not encompass any threatened flora or fauna species.
Socio-Economic Environment	
❖ Health and safety of workers and the general public. ❖ Increase in traffic volumes and sizes of road vehicles. ❖ Economic issues, including the increase in employment opportunities.	❖ Around 27 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 center. ❖ Weekly maintenance and testing of all equipment as per manufacturers' guidelines. ❖ Pre placement and Yearly Medical Examination of all workers by a medical Officer. ❖ First Aid facility will be provided at the mine site. ❖ Close surveillance of the factors in working environment and work practices which may affect environment and worker's health by the mine's manager employed. ❖ Working of mine as per approved mining plan and environmental plans.

11.5 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. 9.1 Lakhs and the recurring cost of Rs. 25.36 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 Identification No. TO25B0108TN5501934N Dated: 30.07.2025. 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 two existing quarries and one proposed quarry along with this proposed quarry within the 500m radius works out to >5 Ha. A Cumulative impact study is conducted to determine the impact of the existing and proposed quarries located within 500m radius on the environment and are detailed in Section 7.4.

Cumulative Impact Study

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

The existing two projects provided employment opportunities for 54 people and proposed three projects will provide direct employment opportunities for 83 people.

This proposed project has allocated Rs. 3.0 Lakhs as the CER budget.

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 27 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.

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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 1.80.0 Ha, while total cluster area of 7.50.0 Ha at Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu.

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

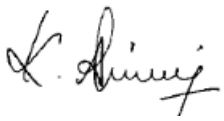
EIA Coordinator Name: Manikandan Manickam



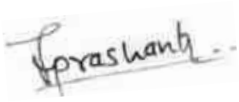
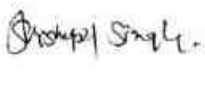
Period of involvement: March 2025 – May 2025

Contact information:

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

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

			Period: March 2025 – May 2025	
5	*EB*	*Saravanan S*	*Baseline data collection of related to ecology of the area.* *Period: March 2025 – May 2025*	
6	*HG*	*Ravinthiran N*	*Hydrogeological feature of the area. Ground water depth and impact of project on ground water of the area.* *Period: March 2025 – May 2025*	
7	*AQ*	*Srilatha Thiruveedhula*	*Air quality modeling utilizing the area source model. Predication of the ground level concentration of the dust. Suggesting suitable mitigation measures.* *Period: March 2025 – May 2025*	

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

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

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

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

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

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

					equation for its prediction, monitoring of fly rocks & air blast (noise), preparation of SOP's for the safety blasting practice in the mines.	
		Geo	Valliappan Meyyappan		Associated with the Qualified Person & Experts in preparing Geological map, assessing stability of quarry slope faces and dump, management plan for mine stability and after use of mining quarry and geological features of the area during mine plan preparation.	
7	Prabu M	Geo	Valliappan Meyyappan	*Period : March to May 2025.*	Associated with Experts and involved in Field Investigations, Mapping /Geo-referencing	
8	Abirami Kaliyaperumal	RH	S V Prashant	*Period : March to May 2025.*	Associated with experts and involved in the identification risk and hazard,	

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

****

ANNEXURE-1

File No: 12332

Government of India

Ministry of Environment, Forest and Climate Change

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

***

Dated **30/07/2025**

To,

M/s. Chozha Groups
Old No.1/85,New No.4/155, Mariyammankovil Street, Eruthukaranpatti, Rajaji Nagar, Ariyalur-621713
groupschozha@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-TN Proposed Rough stone Quarry Over an extent of 1.80.00 Ha at S.F. No: 27/1A (BLOCK-2) of Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu by M/s. Chozha Groups - under project category – "B1" and Schedule S.No.1(a) "Mining of Minerals Projects" of EIA Notification, 2006, as amended **– ToR issued along with Public Hearing -** preparation of EIA report – Regarding.

Ref:

1. Online proposal No. SIA/TN/MIN/541541/2025, Dated: 18/06/2025.
2. Your application submitted for Terms of Reference dated: 19.06.2025.
3. Minutes of the 587th SEAC meeting held on 07.07.2025.
4. Minutes of the 859th SEIAA meeting held on 24.07.2025.

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO25B0108TN5501934N
(ii) File No.	12332
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vii) Name of Project	Proposed Rough stone Quarry of M/s. Chozha Groups
(viii) Name of Company/Organization	CHOZHA GROUPS
(ix) Location of Project (District, State)	PERAMBALUR, TAMIL NADU
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions	no

(xii) Applicability of Specific Conditions no

1.In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were submitted to the SEIAA for an appraisal by the SEAC under the provision of EIA notification 2006 and its subsequent amendments.
2.The above-mentioned proposal has been considered by SEIAA in the meeting held on 24.07.2025 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 M/s. Chozha Groups under the provisions of EIA Notification, 2006 and as amended thereof.
5.The Ministry/SEIAA-TN reserves the right to stipulate additional conditions, if found necessary.
6.The Terms of Reference with public hearing to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
7.This issues with the approval of the Competent Authority.
8.The TORs with public hearing prescribed shall be valid for a period of three years from the date of issue, for submission of the EIA/EMP report as per OMNo.J-11013/41/2006-IA-II(I)(part) dated 29th August, 2017.

Copy To

1. The Additional Chief Secretary to Government, Environment, Climate Change and Forests Department, Secretariat, Chennai, Tamil Nadu 600 009.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
3. The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600 032.
4. Monitoring Cell, IA Division, Ministry of Environment, Forests &CC, Paryavaran Bhavan, CGO Complex, New Delhi 110003
5. The District Collector, Perambalur District.
6. Stock File.

Annexure 1

Specific Terms of Reference for (Mining Of Minerals)

1. Seiaa Specific Conditions:

S. No	Terms of Reference
1.1	After detailed discussions, the Authority accepts the recommendation of SEAC-I and decided to grant Terms of Reference (ToR) along with Public Hearing for the quantity of 3,11,135 m3 of rough stone up to the depth of 47m AGL 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-I & normal conditions & the conditions mentioned below.

2. Seac Conditions - Site Specific

S. No	Terms of Reference
2.1	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 PP shall submit the modified mining plan with bench on all sides along with EIA Report** 3. The PP should submit an affidavit to follow the scientific formation of benches for 5m *5m properly during mining as per the approved mining plan. 4. The PP shall install the CCTV camera for the continuous surveillance of mining activity & furnish the photographic/videographic evidence along with the EIA report.

3. Seac Standard Conditions

S. No	Terms of Reference
3.1	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

S. No	Terms of Reference
	carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC. 8. However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level. 9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent. 10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site. 11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences. 12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines, 13. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines? 14. Quantity of minerals mined out. · Highest production achieved in any one year · Detail of approved depth of mining. · Actual depth of the mining achieved earlier. · Name of the person already mined in that leases area. · If EC and CTO already obtained, the copy of the same shall be submitted. · Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches. 15. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone). 16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc., 17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan. 18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same. 19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment. 20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds, etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be

S. No	Terms of Reference
	shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. 21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study. 22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind. 23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted. 24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given. 25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided. 26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered. 27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided. 28. Impact on local transport infrastructure due to the Project should be indicated. 29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity. 30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific. 31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible. 32. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner. 33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner 34. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period. 35. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period. 36. Occupational Health impacts of the Project should be anticipated and the proposed preventive

S. No	Terms of Reference
	measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed. 37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations. 38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation. 39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given. 40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc. 41. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB. 42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine. 43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

4. Seiaa Standard Conditions:

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

S. No	Terms of Reference
	9. Impact on surrounding agricultural fields around the proposed mining Area. 10. Impact on soil flora & vegetation around the project site. 11. Details of type of vegetation including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetation all along the boundary of the proposed mining area shall committed mentioned in EMP. 12. The Environmental Impact Assessment should study the agro-biodiversity, agro- forestry, horti-cultural plantations, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem. 13. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services. 14. The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock. **Forests** 15. The project proponent shall detailed study on impact of mining on Reserve forests and free ranging wildlife. 16. The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna. 17. The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection. 18. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site. **Water Environment** 19. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the entire mine lease period. 20. Erosion Control measures. 21. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas. 22. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir. 23. The project proponent shall study and furnish the details on potential fragmentation impact on natural Environment, by the activities. 24. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts. 25. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components. 26. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites. 27. The EIA shall include the impact of mining activity on the following: a) Hydrothermal/Geothermal effect due to destruction in the Environment. b) Bio-geochemical processes and its foot prints including Environmental stress. c) Sediment geochemistry in the surface streams. **Energy** 28. The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilise the Energy shall be furnished. **Climate Change** 29. The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and

S. No	Terms of Reference
	temperature reduction including control of other emission and climate mitigation activities. 30. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock, soil health and physical, chemical & biological soil features. 31. Impact of mining on pollution leading to GHGs emissions and the impact of the same on the local livelihood. **Mine Closure Plan** 32. Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued. **EMP** 33. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued and the scope for achieving SDGs. 34. The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan. **Risk Assessment** 35. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining. **Disaster Management Plan** 36. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities covering the entire mine lease period as per precise area communication order issued. **Others** 37. The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc. 38. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall address the concerns raised during the public consultation and 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

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

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	including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished
1.14	Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated
1.15	The vegetation in the RF / PF areas in the study area, with necessary details, should be given
1.16	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted
1.17	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlifeand copy furnished
1.18	A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost
1.19	Proximity to Areas declared as Critically Polluted or the Project areas likely to come under the Aravali Range, (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered
1.20	Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority)
1.21	R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report
1.22	One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon

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	season) ; December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given
1.23	Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map
1.24	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated
1.25	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided
1.26	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided
1.27	Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided
1.28	Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from State Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished
1.29	Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out
1.30	Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same
1.31	A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given.The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution

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1.32	Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines
1.33	Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report
1.34	Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report
1.35	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed
1.36	Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations
1.37	Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation
1.38	Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project
1.39	Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project
1.40	Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given
1.41	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out
1.42	A Disaster management Plan shall be prepared and included in the EIA/EMP Report
1.43	Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc
1.44	Besides the above, the below mentioned general points are also to be followed:- a) All documents to be properly referenced with index and continuous page numbering. b) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should 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

S. No	Terms of Reference
	reports should be available during appraisal of the Project. d) Where the documents provided are in a language other than English, an English translation should be provided. e) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted. f) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed. g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation. h) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. i) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area

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

proposed safeguard measures in each case should also be provided.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

proposed Project.

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

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

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

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

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

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

a) Executive Summary of the EIA/EMP Report

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Signature valid

Digitally Signed by : A R Rahul Nadh IAS
Member Secretary, SEIAA

Date: 30/07/2025

ANNEXURE-2

ANNEXURE

Rc.No.110/G&M/2025, Dated:28.04.2025

Department of Geology & Mining
Collectorate,
Perambalur – 621212.

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

PRECISE AREA COMMUNICATION LETTER

Sub : Mines and Minerals - Perambalur District - Rough Stone - e-Tender cum auction conducted on 27.03.2025 under Tender ID: 2025_CGAM_525779_1 - M/s. Chozha Groups (BID ID:1273548) quoted highest Bid amount (H1) For the quarry listed in Serial Number 10 - Declared as H1 bidder - H1 Bid Amount remitted - Solvency Certificate submitted - Precise Area Communicated - Reg.

Ref:
1. G.O.(Ms).No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024
2. Perambalur District Gazette (Extraordinary) Notification No.1, dated:18.02.2025.
3. E-Tender published under Tender ID:2025_CGAM_525779_1 in Tamil Nadu Governmente-tender portal.
4. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.110/G&M/2025, dated:28.03.2025 (to remit 10% of highest bid amount)
5. Remittance challan No. 20250329002376 dated:29.03.2025 submitted by M/s. Chozha Groups (BID ID:1273548)
6. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.110/G&M/2025, dated 01.04.2025 (to remit remaining 90% of the bid amount)
7. Remittance challan No. 20250409007288 dated:09.04.2025 submitted by M/s. Chozha Groups (BID ID:1273548)

******

I invite your attention to the references cited above

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

After Financial Evaluation, M/s. Chozha Groups (BID ID:1273548) was declared as H1 bidder for the quarry listed in Serial Number 10 of the Gazette as the firm quoted highest bid amount of Rs. 4,74,00,000/- for the said quarry. The H1 bidder was directed to remit 10% of the Highest bid amount vide notice in the reference 4th cited and accordingly, the H1 bidder remitted 10% of the bid amount to a sum of Rs. 47,40,000/- and submitted remittance challan No. 20250329002376 dated: 29.03.2025 to this office.

Subsequently, M/s. Chozha Groups (BID ID:1273548) was directed to remit the remaining 90% of Highest bid amount after adjusting the Bid Security already paid by them within one month to Government head of account and to submit original remittance challan to this office. Accordingly, M/s. Chozha Groups (BID ID:1273548) has remitted Rs.3,90,24,983/- after deducting Rs.36,35,017/- (the Bid Security amount already paid by the bidder) in Government account within one month and submitted remittance challans to this office.

The details of H1 Bidder for the quarry listed in Serial No.10 of the District Gazette, H1 Bid Amount offered and remittance of Bid amount by bidder are as follows.

1.	**Quarry Detail**	
	Serial No. in District Gazette No.01, dated 18.02.2025.	10
	Taluk	Perambalur
	Village	Elambalur
	S.F.No.	27/1A (Block-2)
	Extent	1.80.0 Hectares
	Lease Period	10 Years
2.	**H1 Bidder, Bid Amount Remittance**	
	H1 Bidder	M/s. Chozha Groups (BID ID:1273548), Old No:1/85 New No.4/155, Mariyammankovil street, Erthkaranpatti, Rajaji Nagar, Ariyalur 621 713.
	H1 Bid Amount	Rs. 4,74,00,000/-
	10% of H1 bid amount remitted	Rs. 47,40,000/- (Challan No. 20250329002376 dated:29.03.2025)
	Bid Security (EMD) already remitted	Rs. 36,35,017/-
	90% of bid amount paid after adjusting Bid Security already paid	Rs. 3,90,24,983/- (Challan No. 20250409007288 dated:09.04.2025)

The H1 Bidder, M/s. Chozha Groups (BID ID:1273548) has remitted entire H1 Bid Amount of Rs.4,74,00,000/- in Government account within one month as per sub-rule 16 of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959.

Therefore, in exercise of the powers conferred under sub rule 17(a) of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959, an extent of 1.80.0 hectares of Government land in S.F.No. 27/1A (Block-2) of Elambalur Village, Perambalur Taluk and District as notified in Serial Number.10 of the Perambalur District Gazette (Extraordinary) Notification No.1, dated: 18.02.2025 is hereby fixed as Precise Area for grant of permission to quarry Roughstone for a period of 10 years to M/s. Chozha Groups (BID ID:1273548) , subject to the following conditions.

1. 10 meters safety distance should be left out for the adjacent Government lands.

2. The applicant shall not make any hindrance to the adjacent leases and public.

3. The applicant should submit approved Mining Plan, Environment Clearance and Consent to Establish (CTE) & Consent to Operate (CTO) issued by competent authorities for grant of quarrying lease in the subject area.

The applicant M/s. Chozha Groups (BID ID:1273548) is directed to submit draft Mining Plan for the above area within 90 days for the approval of the Assistant Director, Geology and Mining, Perambalur and to submit Environment Clearance obtained from SEIAA, Tamil Nadu and CTE & CTO issued by the Tamil Nadu Pollution Control Board subsequently for further process.

Encl: Map showing the proposal lease area.

28/04/25

Assistant Director,
Geology and Mining,
Perambalur.

To
M/s. Chozha Groups (BID ID:1273548),
Old No:1/85 New No.4/155,
Mariyammankovil street,
Erthkaranpatti, Rajaji Nagar,
Ariyalur 621 713.

Copy to:

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

ANNEXURE-3

From

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

To

M/s.Chozha Groups,
Old No.1/85, New No.4/155,
Mariyammankovil Street,
Eruthukaranpatti, Rajaji Nagar,
Ariyalur – 621 713.

Rc.No.110/G&M/2025, Dated:12.05.2025

Sir,

Sub: Mines and Minerals - Perambalur District – Rough Stone - e-Tender cum auction conducted for Roughstone quarries in Government lands –M/s. Chozha Groups, quoted highest Bid amount (H1) for the quarry in S.F.No.27/1A (Block -2), OAE of 1.80.0 hectare in Elambalur Village, Perambalur Taluk –Declared as H1 bidder – H1 Bid Amount remitted – Precise Area Communicated – Draft Mining Plan submitted for approval – Approved - Reg.

Ref:
1. G.O.(Ms). No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024.
2. Perambalur District Gazette (Extraordinary) Notification No.1, dated:18.02.2025.
3. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.110/G&M/2025, dated:28.03.2025 & 01.04.2025.
4. The Assistant Director, Geology and Mining, Perambalur Precise Area Communication letter Rc.No.110/G&M/2025, dated 28.04.2025.
5. M/s. Chozha Groups, letter dated. 08.05.2025.

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

2) M/s. Chozha Groups was declared as Highest Bidder for the quarry in S.F.No. 27/1A(Block - 2),to an extent of 1.80.0 hectare in Elambalur Village, Perambalur Taluk, Perambalur District and the lease period proposed for the subject quarry is 10(ten) years. The Highest Bidder M/s. Chozha Groups, remitted entire highest bid amount and other statutory documents in time in accordance with rules and in the reference, 4th cited, precise area was communicated to the firm with a request to submit Mining Plan for the approval of the Assistant Director, Geology and Mining, Perambalur District and Environmental Clearance obtained from SEIAA for further process.

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

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

b. The Geological reserve of Roughstone in the subject area has been assessed as 16,85,667 metric tonnes.

c. The mineable reserve has been computed as 8,55,621metric tonnes of Roughstoneup to a depth of 47m above ground level only.

d. The lease period of the subject Roughstone quarry is 10(ten) years and the mining plan has been prepared accordingly.

e. In the mining plan, it has been proposed for the production of 6,46,442metric tonnes of Roughstone up to a depth of 47m above ground level in in the first five years and remaining mineable quantity of 2,09,179metric tonnes of Roughstone in the second five years of lease period.

f. The depth of water table in the subject area is reported as 70m BGL and workable depth has been proposed to 47m above ground level only in the mining plan. Hence, the quarrying operation will not affect the water table in the area.

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

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

i. Machineries like Tractor mounted compressor attached with Jack hammers, excavators with rock breaker attachment are proposed for quarrying operation. Trucks of 25/30 MT capacity are proposed for transportation.

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

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

ii. That the approval of the Mining Plan does not in any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Regulations and Development) Amendment Act 2015 or Mineral (other than Atomic and Hydrocarbon Energy Minerals) concession Rules2016, or Tamil Nadu Minor Mineral Concession Rules, 1959 or any other laws including Forest (Conservation) Act 1980, Forest Conservation Rule, 1981, Environment Protection Act, 1980 and the rules made there under.

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

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

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

Encl:2copies of approved Mining Plan.

12/05/25

Assistant Director,
Geology and Mining,
Perambalur.

12/05/25

Copy to:

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

12/5/25

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

APPROVAL MINING PLAN

MINING PLAN FOR ELAMBALUR ROUGH STONE QUARRY

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

(Government Land)

LOCATION OF THE QUARRY LEASE APPLIED AREA

EXTENT	:	**1.80.0 Ha**
S.F.NO	:	**27/1A (BLOCK-2)**
VILLAGE	:	**ELAMBALUR**
TALUK	:	**PERAMBALUR**
DISTRICT	:	**PERAMBALUR**
STATE	:	**TAMIL NADU**

FOR

APPLICANT

M/s. Chozha Groups,

Old No.1/85, New No.4/155,
Mariyammankovil Street,
Eruthukaranpatti, Rajaji Nagar,
Ariyalur - 621713.

PREPARED BY

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

M/s. Chozha Groups,
Old No.1/85, New No.4/155,
Mariyammankovil Street,
Eruthukaranpatti, Rajaji Nagar,
Ariyalur - 621713.

CONSENT LETTER FROM THE APPLICANT

The Mining Plan in respect of **Rough Stone** quarry over an extent of 1.80.0 Hectares of Government Land in S.F.No.27/1A (Block-2) of Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu State has been prepared by

N.Ravinthiran, M.Sc.,
Qualified Person

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

N.Ravinthiran, M.Sc.,
Qualified Person
M/s. GLOBAL MINING SOLUTIONS
(NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT)
Plot No. 6, S.F.No. 13/2, A2, VS City, RC Chettypatty,
Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455.
NABET ACCREDITATION NO – NABET/EIA/2326/IA 0110
Contact: 97502 23535 & 94446 54520

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

Signature of the Applicant
For M/s. Chozha Groups,

R.Saravanan (Partner)

Place: Ariyalur
Date: 29.04.2025

DEPARTMENT OF GEOLOGY AND MINING
PERAMBALUR

M/s. Chozha Groups,
Old No.1/85, New No.4/155,
Mariyammankovil Street,
Eruthukaranpatti, Rajaji Nagar,
Ariyalur - 621713.

DECLARATION

The Mining Plan in respect of **Rough Stone** quarry over an extent of 1.80.0 Hectares of Government Land in S.F.No.27/1A (Block-2) of Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu State has been prepared with my consultation and I have understood the contents and agree to implement the same in accordance with the Mining Laws.

Signature of the Applicant
For M/s. Chozha Groups,

R.Saravanan (Partner)

Place: Ariyalur
Date: 29.04.2025

N.Ravinthiran, M.Sc.,
Qualified Person
M/s. GLOBAL MINING SOLUTIONS
(NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT)
Plot No. 6, S.F.No. 13/2, A2, VS City, RC Chettypatty,
Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455.
NABET ACCREDITATION NO – NABET/EIA/2326/IA 0110
Contact: 97502 23535 & 94446 54520

CERTIFICATE

This is to certify that, the provisions of Minor Minerals Conservation and Development Rules, 2010 (MMCDR) have been observed in the Mining Plan for the grant of **Rough Stone** quarry lease over an extent of 1.80.0 Hectares of Government Land in S.F.No.27/1A (Block-2) of Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu State applied by M/s. Chozha Groups, for fresh quarry lease.

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

Certified
Signature of Qualified Person.

N.Ravinthiran, M.Sc.,
Qualified Person

Place: Salem
Date: 02.05.2025

N. RAVINTHIRAN, M.Sc.,(App Geo)
QUALIFIED PERSON

DEPARTMENT OF GEOLOGY AND MINING PERAMBALUR

N.Ravinthiran, M.Sc.,
Qualified Person
M/s. GLOBAL MINING SOLUTIONS
(NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT)
Plot No. 6, SF No. 13/2, A2, VS City, RC Chettypatty,
Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455
NABET ACCREDITATION NO – NABET/EIA/2326/IA 0110
Contact: 97502 23535 & 94446 54520

CERTIFICATE

Certified that, in preparation of Mining Plan for **Rough Stone** quarry over an extent of 1.80.0 Hectares of Government Land in S.F.No.27/1A (Block-2) of Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu State for M/s. Chozha Groups, covers all the provisions of Mines Act, Rules and Regulations etc. made there under and whenever specific permission are required, the applicant will approach the Director General of Mines Safety, Chennai. The standards prescribed by DGMS in respect of Mines Health will be strictly implemented.

Certified
Signature of Qualified Person.

N.Ravinthiran, M.Sc.,
Qualified Person

N. RAVINTHIRAN, M.Sc.,(App Geo)
QUALIFIED PERSON

Place: Salem
Date: 02.05.2025

CERTIFICATE

Certified that I, N.Ravinthiran, 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/2326/IA 0110. I am a Post Graduate Degree in Applied Geology (M.Sc., Applied Geology) from Madras 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 1.80.0Ha of (Government land) in S.F.No.27/1A (Block-2) of Elambalur Village, Perambalur Taluk, Perambalur District, by M/s. Chozha Groups, for a period of Ten years. Since the Mining Plan is prepared as per the provisions contained in Rule 15(1) (a) and (b) of Minerals (Other than Atomic, Hydro Carbons Energy Minerals) concession Rules 2016, the same may be approved by the Competent Authority.

N.Ravinthiran, M.Sc.,
Qualified Person

Place: Salem
Date: 02.05.2025

N. RAVINTHIRAN, M.Sc.,(App Geo)
QUALIFIED PERSON

DEPARTMENT OF GEOLOGY AND MINING PERAMBALUR

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DEPARTMENT OF GEOLOGY AND MINING PERAMBALUR

Annexure

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

LIST OF PLATES

S. No.	Description	Plate No.
1.0	Location Plan	I
2.0	Environmental Plan	I-A
3.0	Satellite imagery map	I-B
4.0	Topo sketch of Quarry lease applied area for 10Km Radius	I-C
5.0	Key Plan	I-D
6.0	Quarry lease & Surface plan	II
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ASSISTANT DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

MINING PLAN FOR MINOR MINERALS

ROUGH STONE

Over an extent of 1.80.0hectares of Government land in S.F.No.27/1A (Block-2) of Elambalur Village, Perambalur Taluk, Perambalur District, Tamil Nadu State.

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

1.0 Introduction and Executive Summary;

1. The present Mining Plan is prepared for M/s. Chozha Groups, Old No.1/85, New No.4/155, Mariyammankovil Street, Eruthukaranpatti, Rajaji Nagar, Ariyalur - 621713.
2. The application was processed by the Assistant Director, Department of Geology and Mining, Perambalur, and passed an order vide Rc.No. 110/G&M/2025 dated 28.04.2025 directing the applicant to produce approved Mining Plan under Rule 41(5) of the Tamil Nadu Minor Mineral Concession Rules, 1959 and Environmental Clearance Certificate under Rule 42 from the State Level Environmental Impact Assessment Authority (SEIAA) for the grant of quarry lease to quarry Rough Stone over an extent of 1.80.0hectares of Government land in S.F.No. 27/1A (Block-2) of Elambalur Village, Perambalur Taluk, Perambalur District of Tamil Nadu State for a period of ten years.
3. Accordingly, Mining Plan is prepared under the provisions of rule 8, 41 and 42 as per the amendments under Tamil Nadu Minor Mineral Concession Rules, 1959 by incorporating following the conditions imposed in the precise area communication letter.
   a) 10 meter safety distance should be left out for the adjacent government lands.
   b) The applicant shall not make any hindrance to the adjacent lands and public.

c) The applicant should submit approved mining plan, environment clearance and consent to establish (CTE) & consent to operate (CTO) issued by competent authorities for grant of quarrying lease in the subject area.

4. Geological Resources is estimated at 16,85,667.50Ts of Rough stone and 80,640Ts of Topsoil and Mineable Reserves is estimated at 8,55,621.25Ts of Rough Stone and 58,880Ts of Topsoil and after leaving necessary safety distance from the lease boundary as indicated in the precise area letter and relevant mining laws in force.
5. The production Schedule is proposed production of 6,46,442.50Ts of Rough Stone and 58,880Ts of Topsoil for the period of first five years upto a depth of 47m (above ground level) and remaining quantity of 2,09,178.75Ts of Rough Stone will be proposed for the period of second five years.
6. The applicant ensured that, child labours under 18 years of age will not be engaged for quarrying operation.
7. The applicant ensure that will engage should have valid certified persons (Mines Manager, Foreman, Mate) during quarrying operation.
8. Environmental parameters,
   i) The area does not attract the Forest Conservation Act, 1980 as there is no forest around 5.5Km radius.
   ii) There is no interstate boundary around 10kms radius.
   iii) There is no wild life animal sanctuary within 10Kms radius from the project site area under the Wildlife (Protection) Act, 1972.

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

ASSISTANT DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

9. Environmental measures to be adopted shall be,

i) Dust Control at source while drilling and blasting,

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

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

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

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

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

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

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

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

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

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

EXECUTIVE SUMMARY:

a.	Name of the Village Panchayat	:	Elambalur
b.	Name of the Panchayat Union	:	Perambalur
c.	The proposed total Minable Reserves	:	8,55,621.25Ts of Rough Stone 58,880Ts of Topsoil
d.	The proposed quantity of reserves (level of production) for Five years to be mined is (Recoverable reserves)	:	6,46,442.50Ts of Rough Stone 58,880Ts of Topsoil
e.	Total extent of the area	:	1.80.0Ha
f.	Proposed Period of mining	:	Five Years
g.	Existing depth	:	It is fresh quarry lease applied area
h.	Proposed Depth of mining	:	47m (above ground level) for the proposed mining plan.
i.	Method of mining/level of mechanization	:	Opencast, Semi-mechanized Mining with a bench height of 5m and bench width of 5m proposed.
j.	Types of Machineries used in the quarry	:	Machineries like Tractor mounted compressor attached with Jack hammers, Excavators are proposed to deploy for quarrying operation.
k.	Cost of the Project A. Fixed Assets Cost B. Operational Cost C. EMP Cost		Rs. 4,77,00,000/- Rs. 72,00,000/- Rs. 5,70,000/- Total Project cost(A+B+C)=**Rs. 5,54,70,000/**
l.	The area applied for lease is bounded by four corners and the coordinates are clearly marked in plate no II.		

Corners	Co- ordinates		Distance between the corners
	Latitude	Longitude	
1	11° 16' 26.59"N	78° 52' 31.01"E	1-2 = 180.0m
2	11° 16' 29.88"N	78° 52' 35.92"E	2-3 = 100.0m
3	11° 16' 27.19"N	78° 52' 37.77"E	3-4 = 180.0m
4	11° 16' 23.90"N	78° 52' 32.87"E	4-1 = 100.0m

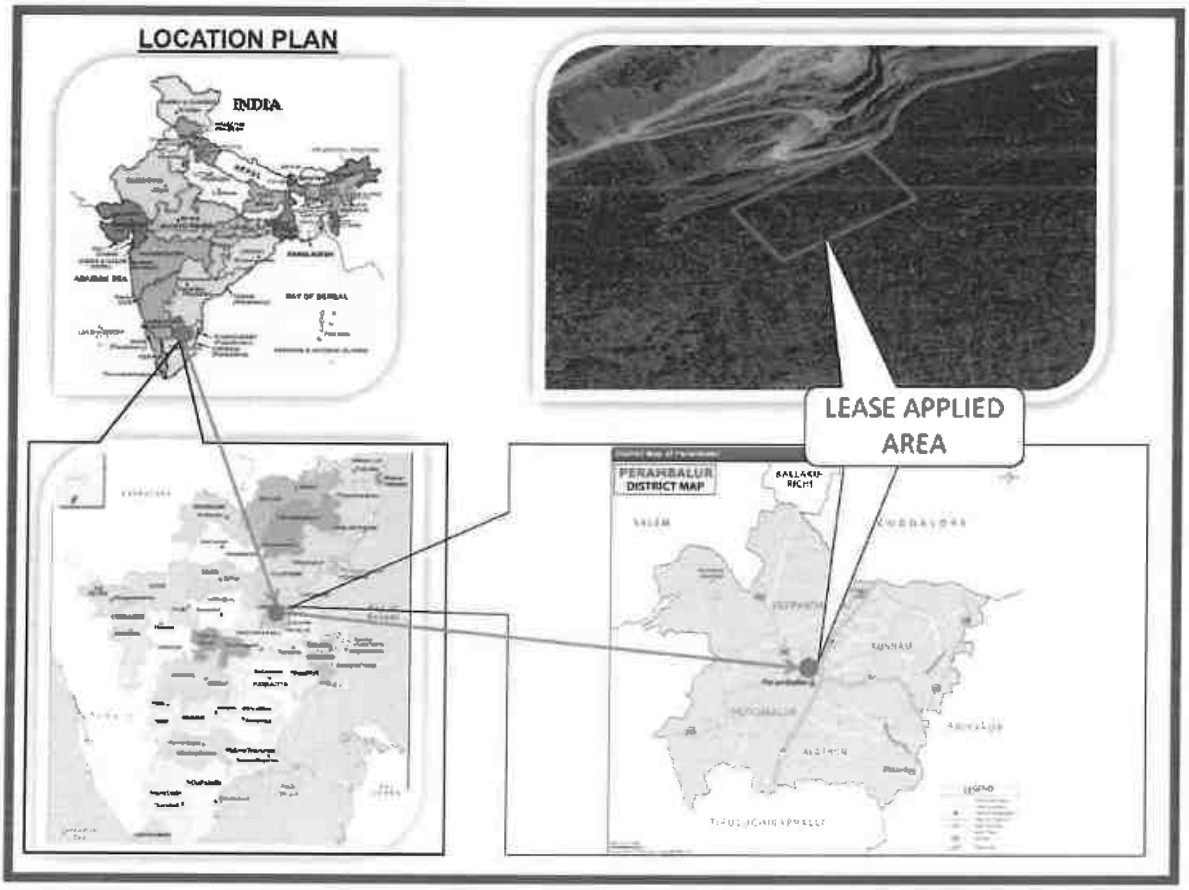
2.0 General Information:

	a.	Name of the Applicant	:	M/s. Chozha Groups,
	b.	Address of the Applicant with phone No and e-mail id if any	:	Old No.1/85, New No.4/155, Mariyammankovil Street, Eruthukaranpatti, Rajaji Nagar, Ariyalur. Pincode-621713. Cell No.: 9444709913
	c.	Status of the Applicant	:	Partnership firm
2.2	a.	Mineral Which the applicant intends to mine	:	Rough Stone.
	b.	Precise area communication letter No.	:	Precise area communication letter received from the Assistant Director, Department of Geology and Mining, Perambalur vide Rc.No.110/G&M/2025 dated 28.04.2025.
	c.	Period of permission / lease granted	:	The Assistant Director, Department of Geology and Mining, Perambalur, has grant of lease Period for **Ten years.**
	d.	Name and Address of the QP preparing Mining Plan	:	**N.Ravinthiran, M.Sc.,** **Qualified Person** **M/s. GLOBAL MINING SOLUTIONS** (NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT) PLOT No. 6, SF No. 13/2, A2, Vs City, RC Chettypatty, Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455 NABET ACCREDITATION NO – NABET/EIA/2326/IA 0110 Contact: 97502 23535, 94446 54520.

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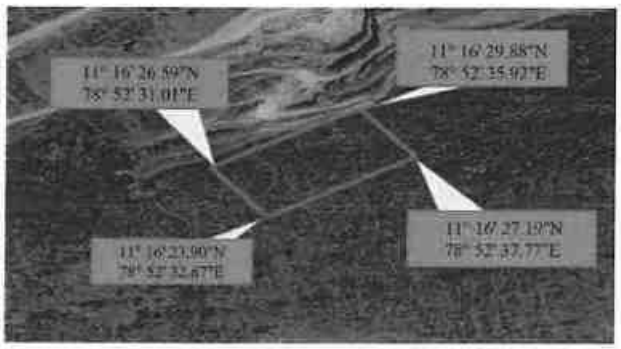
3.0 Location:

S.No	Details of the Area:	
1	Corner Coordinates	Latitude : 11°16'23.90"N to 11°16'29.88"N Longitude : 78°52'31.01"E to 78°52'37.77"E
2	Toposheet Number	58 I/15
3	The altitude of the area	290m (MSL)
4	Extent	1.80.0Ha
5	Survey No	S.F.No. 27/1A (Block-2)
6	Village	Elambalur
7	Taluk	Perambalur
8	District	Perambalur
9	State	Tamil Nadu



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a.	Classification of the Area (Ryotwari / poramboke / others)	:	Government poramboke land
b.	Ownership / Occupancy of the Applied area (Surface rights)	:	It is Government land the applicant has obtained tender from the Government Please refer annexure no –I and IA.
c.	Toposheet No. with Latitude and Longitude	: : :	Topo Sheet No: 58 I/15 Latitude : 11°16'23.90"N to 11°16'29.88"N Longitude: 78°52'31.01"E to 78°52'37.77"E
d.	Existence of Public Road / Railway line if any nearby the area and approximate distance	:	There is an existing road from the area leads to Sirukudal – Elambalur road on south side of the area. The Nearest Railway line is Trichy – Virudhachalam line which is about 24.3Km on southeastern side of the area



SATELLITE IMAGERY OF THE LEASE APPLIED AREA



TOPOGRAPHICAL VIEW OF THE LEASE APPLIED AREA

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PART - A

4.0 Geology and Mineral Reserves:

4.1	a.	Topography	:	➢ The area applied for quarry lease is exhibits hilly terrain covered by covered by Topsoil formation. The massive Charnockite formation is noticed below 2m (Avg) Topsoil and sloping towards North side of the area, the altitude of the area is above 290m (maximum) from MSL. ➢ No major river is found nearby the lease applied area. ➢ Water table is found at a depth of 70m in summer and 67m in rainy seasons. ➢ Temperature of the area is reported to be 18°C to a maximum of 42°C during summer. ➢ Rainfall of this area is about 800mm to 900 mm during the both NE & SW monsoons.
	b.	General Geology of the Area	:	The area is underlain by the wide range of metamorphic rocks of peninsular gneissic complex. These rocks are extensively weathered and overlain by the recent valley fills and alluvium at places. The geological formations found in the district are Archaean rocks like Gneisses, Granites, Charnockites basic granulites and calc-gneisses. The younger formations are Quartz veins and pegmatite. The rock type noticed in the area for lease is Charnockite which contains mostly Quartz and Feldspar with some ferromagnesian minerals. The Charnockite is part of peninsular Gneisses, a high grade metamorphic rock.

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				The strike of the Charnockite formation is N30°W-S30°E with vertical dipping. The general geological succession of the area is given as under. **AGE** — **ROCK TYPE** Recent - Topsoil Unconformity Archaean - Dolerite dyke Charnockite. Peninsular Gneissic complex and Calc Gneiss
4.2		Details of Exploration already carried out if any	:	No exploration was carried out, as the Rough stone formations are clearly visible from adjacent existing quarry pit.
4.3	a.	Estimation of Reserves	:	The Geological and Recoverable reserves are estimated by cross sectional method. Two sections have been drawn, one section drawn length wise as (X-Y) and another one section drawn width wise as (A-B), to cover maximum area considered for lease. The Plans and Sections have been drawn with a scale of 1:1000 and 1:500 respectively. Please refer plate No.III.

a. Geological Resources

The quarrying is restricted up to a depth of 47m (above ground level) only. Availability of resources is given below.

Table No-1

Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Top soil in m^3	Geological Resources of Rough stone in m^3	Bulk Density	Top soil in Ts	Geological Resources of Rough stone in Ts
XY-AB	Above Ground Level	I	180	112	2	40320	-	2	80640.00	-
		II	139	26	5	-	18070	2.75	-	49692.50
		III	180	40	5	-	36000	2.75	-	99000.00
		IV	180	54	5	-	48600	2.75	-	133650.00
		V	180	71	5	-	63900	2.75	-	175725.00
		VI	180	96	5	-	86400	2.75	-	237600.00
		VII	180	100	5	-	90000	2.75	-	247500.00
		VIII	180	100	5	-	90000	2.75	-	247500.00
		IX	180	100	5	-	90000	2.75	-	247500.00
		X	180	100	5	-	90000	2.75	-	247500.00
Total						**40320**	**612970**	**-**	**80640.00**	**1685667.50**

Topsoil Formation : 80,640Ts

The Geological Resources of Rough stone : 16,85,667.50Ts

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b. Mineable Reserve

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

Table No-2

Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Top soil in m^3	Mineable Reserves of Rough stone in m^3	Bulk Density	Top soil in Ts	Mineable Reserves of Rough stone in Ts
XY-AB	Above Ground Level	I	160	92	2	29440	-	2	58880.00	-
		II	127	16	5	-	10160	2.75	-	27940.00
		III	153	30	5	-	22950	2.75	-	63112.50
		IV	143	44	5	-	31460	2.75	-	86515.00
		V	133	61	5	-	40565	2.75	-	111553.75
		VI	123	80	5	-	49200	2.75	-	135300.00
		VII	113	80	5	-	45200	2.75	-	124300.00
		VIII	103	80	5	-	41200	2.75	-	113300.00
		IX	93	80	5	-	37200	2.75	-	102300.00
		X	83	80	5	-	33200	2.75	-	91300.00
Total						**29440**	**311135**	**-**	**58880.00**	**855621.25**

The mineable reserve is computed as 8,55,621.25Ts of Rough stone and 58,880Ts of Topsoil upto a depth of 47m (above ground level) only.

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

R.Sai

The Yearwise Production and Development Table

Table No –3

Year	Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Topsoil in m^3	Rough stone in m^3	Bulk Density	Topsoil in Ts	Mineable Reserves of Rough stone in Ts
I	XY-AB	Above Ground Level	I	160	92	2	29440	-	2	58880	-
			II	127	16	5	-	10160	2.75	-	27940.00
			III	153	30	5	-	22950	2.75	-	63112.50
			IV	62	44	5	-	13640	2.75	-	37510.00
Total							**29440**	**46750**	**-**	**58880**	**128562.50**
II	XY-AB	Above Ground Level	IV	81	44	5	-	17820	2.75	-	49005.00
			V	95	61	5	-	28975	2.75	-	79681.25
Total							**-**	**46795**	**-**	**-**	**128686.25**
III	XY-AB	Above Ground Level	V	5	61	5	-	1525	2.75	-	4193.75
			VI	90	80	5	-	36000	2.75	-	99000.00
			VII	24	80	5	-	9600	2.75	-	26400.00
Total							**-**	**47125**	**-**	**-**	**129593.75**
IV	XY-AB	Above Ground Level	VII	56	80	5	-	22400	2.75	-	61600.00
			VIII	62	80	5	-	24800	2.75	-	68200.00
Total							**-**	**47200**	**-**	**-**	**129800.00**
V	XY-AB	Above Ground Level	VIII	8	80	5	-	3200	2.75	-	8800.00
			IX	60	80	5	-	24000	2.75	-	66000.00
			X	50	80	5	-	20000	2.75	-	55000.00
Total							**-**	**47200**	**-**	**-**	**129800.00**
Grand Total							**29440**	**235070**	**-**	**58880**	**646442.50**

The applicant has proposed to carry out 6,46,442.50Ts of Rough stone and 58,880Ts of Topsoil formation upto a depth of 47m (above ground level) for the period of first five years and remaining quantity of 2,09,178.75Ts of Rough Stone will be proposed for the period of second five years.

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The proposed tentative yearwise production for 6th to 10th year is given below

Table No-4

Year	Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Mineable Reserves of Rough stone in m^3	Bulk density	Mineable Reserves of Rough stone in Ts
VI	XY-AB	Above Ground Level	V	33	61	5	10065	2.75	27678.75
			VI	13	80	5	5200	2.75	14300.00
Total							**15265**	**-**	**41978.75**
VII	XY-AB	Above Ground Level	VI	20	80	5	8000	2.75	22000.00
			VII	18	80	5	7200	2.75	19800.00
Total							**15200**	**-**	**41800.00**
VIII	XY-AB	Above Ground Level	VII	15	80	5	6000	2.75	16500.00
			VIII	23	80	5	9200	2.75	25300.00
Total							**15200**	**-**	**41800.00**
IX	XY-AB	Above Ground Level	VIII	10	80	5	4000	2.75	11000.00
			IX	28	80	5	11200	2.75	30800.00
Total							**15200**	**-**	**41800.00**
X	XY-AB	Above Ground Level	IX	5	80	5	2000	2.75	5500.00
			X	33	80	5	13200	2.75	36300.00
Total							**15200**	**-**	**41800.00**
Grand Total							**76065**	**-**	**209178.75**

5.5 Machineries to be used

a. Drilling : It is proposed to use following machineries for quarrying rough stone

S.No	Type	Nos	Dia Hole mm	Size Capacity	Make	Motive power
1	Jack hammer	3	32	1.2m to 6m	Atlas Copco	Compressed air
2	Compressor	1	-	-	Atlas Copco	Diesel Drive

b. Loading : Excavator of 0.90m^3 bucket capacity (with Rock breaker attachment) (2No).

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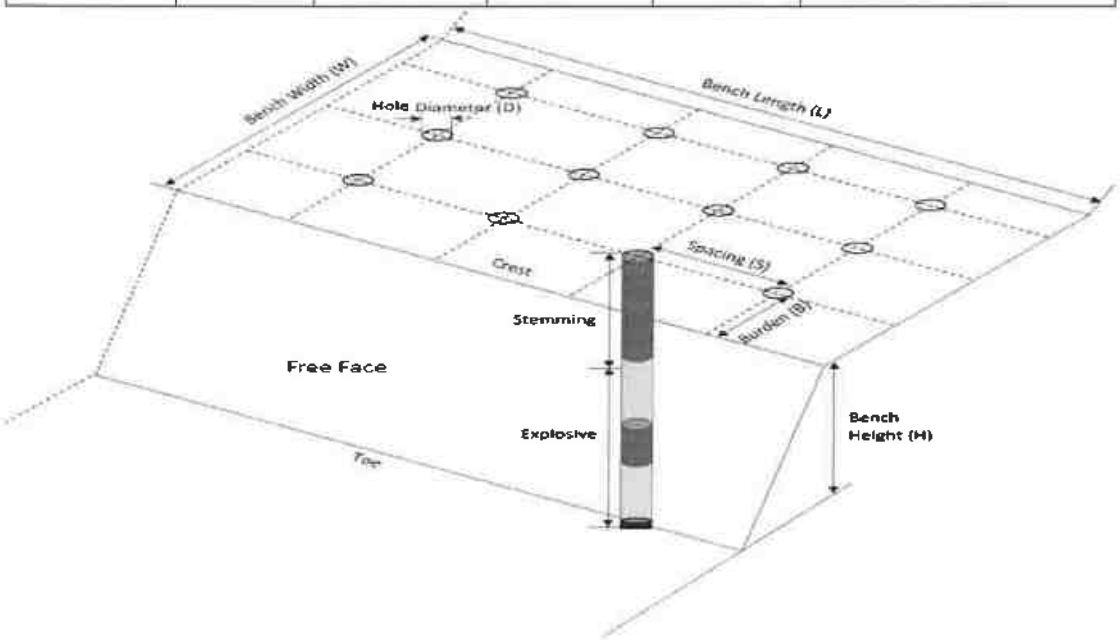
<table>
<tr><td></td><td>c.</td><td>Transportation</td><td>:</td><td>Tipper 3Nos (5/10Ts) capacity.</td></tr>
<tr><td>5.6</td><td></td><td>Disposal of Overburden</td><td>:</td><td>The overburden in the form of topsoil, after excavation topsoil will be preserved along the boundary barrier utilized for afforestation purpose.</td></tr>
<tr><td>5.7</td><td></td><td>Brief Note on Conceptual Mining Plan for the entire lease period</td><td>:</td><td>Conceptual Mining Plan is prepared with an object of ten years of systematic development of bench lay outs, selection of ultimate pit limit, depth of quarrying, ultimate pit slope, selection of sites for construction of infrastructures etc.
Ultimate pit size is designed based on certain practical factors such as the economical depth of mining, safety zones, permissible areas etc.
Ultimate Pit dimension is given as under,
<table>
<tr><td colspan="4">Ultimate Pit dimension (M) end of Mining plan Period</td></tr>
<tr><td>Pit No</td><td>Length (max) in (m)</td><td>Width (Avg) in (m)</td><td>Depth(max) in(m)</td></tr>
<tr><td>I</td><td>160</td><td>80</td><td>47m (above ground level)</td></tr>
<tr><td colspan="4">Ultimate pit dimension End of the lease period</td></tr>
<tr><td>Pit No</td><td>Length (max) in (m)</td><td>Width (Avg) in (m)</td><td>Depth(max) in(m)</td></tr>
<tr><td>I</td><td>160</td><td>80</td><td>47m (above ground level)</td></tr>
</table>
Afforestation has been proposed on all along the boundary barrier by planting trees.
All the baseline information studies like Air Quality monitoring, Noise and Vibration monitoring, Water Analysis studies will be carried out every year as per the MOEF norms.</td></tr>
</table>

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6.0 Blasting:

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

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



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

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PERAMBALUR

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

Number of holes	:	144
Powder factor	:	6Ts/Kg of explosives
Total explosive required	:	72Kg slurry explosives
Charge / hole	:	0.5Kg
Blasting time	:	12-2 Pm

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

7.0 Mine Drainage:

7.1	Depth of Water table	:	The ground water table is reported as 70m below ground level. In the proposed mining plan only 47m (above ground level) for the proposed mining plan period depth has been envisaged as workable depth for safe & economic quarrying for the entire lease period. Hence the quarrying operation may not affect the ground water.
7.2	Arrangement and Places where the mine water is finally proposed to be discharged	:	The ground water may not rise immediately in this type of mining. However, the rain water percolation and collection of water from the seepage shall be less than 300lpm and it shall be pumped about periodically by a stand by diesel powered Centrifugal pump motivated with 7.5H.P.Motor. The quality of water is potable and it is not contaminated with any hazardous things. Hence, water stored in the quarry pit will be pumped into the adjacent agricultural fields. Further the water stored in the old pit will also be used for plantation purposes.

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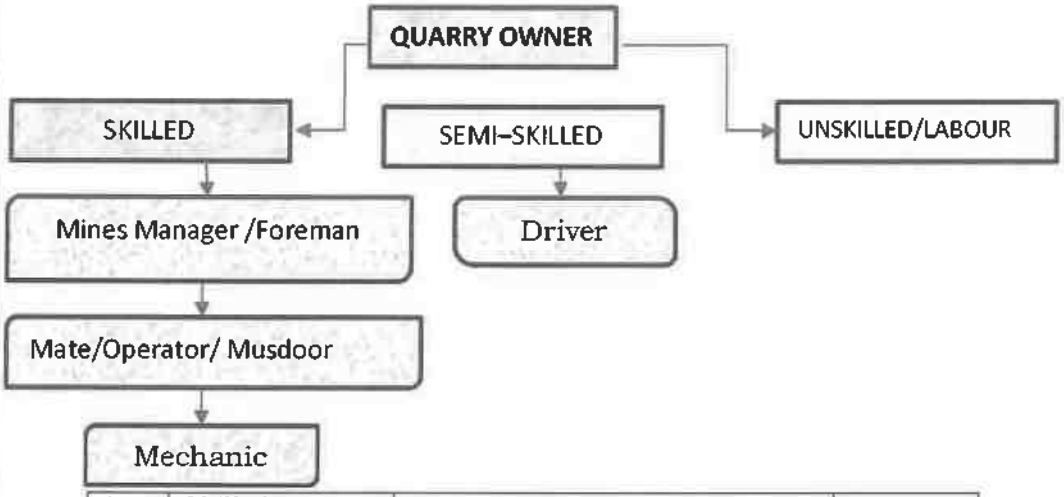
8.0	**Other Permanent Structures**:		
8.1	Habitations / Village	:	There are no habitations within a radius of 300m.
8.2	Power lines (HT/LT)	:	There is no Power lines (HT/LT) within a radius of 50m.
8.3	Water bodies (River, Pond, Lake, Odai, Channel etc)	:	There are no water bodies like rivers, odai, pond, etc., located within a radius of 500m.
8.4	Archeological / Historical Monuments	:	There are no Archeological / Historical Monuments within a radius of 300m.
8.5	Road (NH, SH, Village Road etc)	:	The National Highway (NH-136) Ariyalur – Athur is about 0.42km on south side of the area. The State Highway (SH-157) Perambalur – Athur is about 3Km on southwest side of the area.
8.6	Places of Worship	:	There are no Places of Worship within a radius of 50m.
8.7	Reserved Forest / Forest / Social Forest / Wild Life Sanctuary etc.,	:	There are no Reserved forest / Wild Life Sanctuary within a radius of 1Km.
8.8	Any Interstate Border, Protected areas under the Wild Life (Protection) Act, 1972, Critically Polluted Areas as Identified by Central Pollution Control Board and Notified Eco sensitive areas	:	There are No inter State border within a radius of 10kms.
8.9	Any Other Structures	:	Nil

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9.0 Employment Potential & Welfare Measures:

9.1 Employment Potential (Management & Supervisory personal)

The proposed organization chart



1.	Skilled	Mines Manager	1 No.
		Foreman / Mate	2 No.
		Operator	5 No.
		Mechanic	1 No.
2.	Semi-skilled	Driver	3 No.
3.	Unskilled	Labours	15Nos
		Total =	27Nos

Allowing 10% absentee, the no. of men of roll will be around 24.

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

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

9.2 Welfare Measures

	a.	Drinking Water	:	Packaged drinking water is available from the nearby approved water vendors in Elambalur Village which is about 0.8km on southeast side of the area.
	b.	Sanitary facilities	:	Semi-permanent latrines & urinals shall be maintained at convenient places for use of labours as per the provisions of Rule (33) of the Mines Rules, 1960 separately for males and females. Washing facilities shall also be arranged as per rule (36) of the Mines Rules, 1960.

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	c.	First Aid Facility	:	First aid kits are kept in Mines office room, in case of such eventualities the victim will be given first aid immediately at the site and injured person will be taken to the hospital. Hospital is available at distance of 3Km (south) in Perambalur the competent and Statutory foreman/ permit manager will be in charge of first aid.
	d.	Labour Health	:	As per Mines Rule, Periodic medical examination related to occupational health safety will be conducted to all the workers in applicant's own cost.
	e.	Precautionary safety measures to the Labourers:		

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

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





D. Gowda

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PART – B

10.0 Environmental Management Plan:

10.1	Existing Land Use Pattern	:	1. The area is exhibits hilly terrain covered by topsoil formation. 2. Quarrying operation is proposed up to a depth of 47m (above ground level) for the proposed mining plan period. 3. Fluctuation of Water table in this area is in between 69m and 66m during a year. 4. This region receives the average annual rainfall of 800mm to 900mm. The surrounding area is practiced by the seasonal cultivation. The existing land use pattern is given as under.

Table No-5

Sl. No.	Land Use	Present Area (Ha)	Area in use during the quarrying period (Ha)
1.	Quarrying Pit	Nil	1.28.0
2.	Infrastructure	Nil	0.01.0
3.	Roads	Nil	0.01.0
4.	Green Belt	Nil	0.50.0
5.	Unutilized	1.80.0	Nil
	Total =	**1.80.0**	**1.80.0**

10.2	Water Regime	:	Water table in this area is noticed at a depth of 69m and presently, in the proposed mining plan only 47m (above ground level) for the proposed mining plan period has been envisaged as workable depth for safe & economic quarrying for the entire lease period. hence, it will not affect the ground water depletion of this area.
10.3	Flora and Fauna	:	Except acacia bushes, no other valuable trees are noticed in the applied area. Further, neither flora of botanical interest nor fauna of zoological interest is noticed in this area.
10.4	Climatic conditions	:	Generally subtropical climatic condition prevails throughout the year and there is no sharp variation in climate. This District receives rain both in south west and north east monsoon. The average rainfall is about 800mm to 900mm and the temperature ranges from 18°C during winter and to a maximum of 42°C during the summer.

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<table>
<tr><td>10.5</td><td>Human Settlement</td><td>:</td><td>The nearest habitations with the population is given as under.
Table No-6
<table><tr><th>S. No</th><th>Name of the Village</th><th>Approximate distance & Direction from lease applied area</th><th>Approximate population</th></tr><tr><td>1.</td><td>Thaneerpandhal</td><td>1.8km - NE</td><td>800</td></tr><tr><td>2.</td><td>Erikarai</td><td>0.6km – NW</td><td>400</td></tr><tr><td>3.</td><td>Elambalur</td><td>0.8km-SE</td><td>900</td></tr><tr><td>4.</td><td>Samathuvapuram</td><td>0.9km-SW</td><td>500</td></tr></table></td></tr>
<tr><td>10.6</td><td>Plan for Air, Dust Suppression</td><td>:</td><td>Air or dust expected to be generated from drilling process, hauling roads, places of excavation etc., will be suppressed by periodical wetting of land by water spraying. Wet drilling and dust extractor arrangements will be provided to drilling units so as to control raise of dust from the site of drilling. Operators, those exposed directly to such conditions will be provide such protective equipment like mask, ear plug, helmet, gloze etc., as per the Mines Act.</td></tr>
<tr><td>10.7</td><td>Plan for Noise Control</td><td>:</td><td>Quarrying of Rough Stone will be carried out by drilling and blasting by using low power explosives, and hence, noise will be very minimum. However, periodical noise level monitoring will be carried out to check the noise level in and around the quarry site. Nowhere the noise level should exceed the permissible limit of 80db during the quarry working hours.</td></tr>
<tr><td>10.8</td><td>Environmental Impact Assessment Statement Describing Impact on mining on the next Five years</td><td>:</td><td>The mining plan proposed is for a small production of Rough stone without involving deep hole drilling and heavy blasting. Such limited mining activity is not likely to cause any impact adversely on environment as far as pollution of air, water and noise is concerned, anyhow environmental impact studies will be conducted as per EIA notification issued by MOEF.</td></tr>
</table>

R.Gowri

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PERAMBALUR

10.9	Proposal for Waste Management	:	There is no waste anticipated in this rough stone quarry operation.
10.10	Proposal of Reclamation of Land affected during mining activities and at the end of mining.	:	In the proposed mining plan 47m (above ground level) for the proposed mining plan period and has been envisaged as workable depth for safe & economic mining during the lease period. Hence, after quarry reaches ultimate pit limit (for this lease period) of 47m depth, fencing will be constructed around the quarried pits to prevent inherent entry of the public and cattle.
10.11	Program for Afforestation	:	The 10m safety distance along the lease boundary has been identified to be utilized for afforestation Appropriate native species of Neem/Pungan trees will be planted in the first year. Nearly 5000Sqm area is proposed to use under afforestation by planting 600nos of Neem/Pungan trees during first year with an anticipated survival rate of 80%. The Quarry landuse, layout and afforestation plan is shown in Plate No.III.
10.12	Proposed Financial Estimate / Budget for (EMP) Environment Management		
	A. Fixed Asset Cost: 1. Land Cost (Tender amount) 2. First aid room and accessories 3. Labour Shed 4. Sanitary Facility **Total=**		 Rs.4,74,00,000 Rs. 1,00,000 Rs. 1,00,000 Rs. 1,00,000 **Rs.4,77,00,000/-**
	B. Operational Cost: 1. Machineries 2. Fencing cost **Total**	 : : :	 Rs.70,00,000- Rs. 2,00,000 **Rs.72,00,000/-**

ASSISTANT DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

	C.EMP Cost:	:	Budget Provision for the entire quarrying period. Air Quality Sampling = Rs. 40,000/- Water Quality Sampling = Rs. 40,000/- Noise Monitoring = Rs. 20,000/- Ground vibration test = Rs. 20,000/-
	Expenditure 1. Drinking water facility 2. Sanitary Arrangements 3. Safety kids 4. Water sprinkling 5. Afforestation **Total=**	: : : : : :	 Rs.1,00,000/- Rs. 50,000/- Rs. 50,000/- Rs. 1,50,000/- Rs. 1,00,000/- **Rs. 5,70,000/-**
	Total Project Cost (A+B+C)	:	**Rs. 5,54,70,000 /-**
	CSR Cost(2% of Total Project Cost)	:	**Rs. 11,09,400/-**

11.0 Mine Closure Plan:

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

ASSISTANT DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

12.0 Any Other Details Intend to Furnish by the Applicant:

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

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

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

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

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

Prepared by

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

Place : Salem
Date : 02.05.2025

This Mining Plan is Approved Subject to the Conditions Stipulation & Indicated to the Mining Plan Approval Letter No...110/.../Sand/25 dt.12-5-25 Office of the A.D.Geology & Mining Perambalur

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

12/05/25

Assistant Director
Dept. of Geology and Mining
Perambalur District.

12/05/25

ANNEXURE

Rc.No.110/G&M/2025, Dated:28.04.2025

Department of Geology & Mining
Collectorate,
Perambalur – 621212.

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

PRECISE AREA COMMUNICATION LETTER

Sub : Mines and Minerals - Perambalur District - Rough Stone - e-Tender cum auction conducted on 27.03.2025 under Tender ID: 2025_CGAM_525779_1 - M/s. Chozha Groups (BID ID:1273548) quoted highest Bid amount (H1) For the quarry listed in Serial Number 10 - Declared as H1 bidder - H1 Bid Amount remitted - Solvency Certificate submitted - Precise Area Communicated - Reg.

Ref:
1. G.O.(Ms).No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024
2. Perambalur District Gazette (Extraordinary) Notification No.1, dated:18.02.2025.
3. E-Tender published under Tender ID:2025_CGAM_525779_1 in Tamil Nadu Governmente-tender portal.
4. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.110/G&M/2025, dated:28.03.2025 (to remit 10% of highest bid amount)
5. Remittance challan No. 20250329002376 dated:29.03.2025 submitted by M/s. Chozha Groups (BID ID:1273548)
6. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.110/G&M/2025, dated 01.04.2025 (to remit remaining 90% of the bid amount)
7. Remittance challan No. 20250409007288 dated:09.04.2025 submitted by M/s. Chozha Groups (BID ID:1273548)

******

I invite your attention to the references cited above

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

After Financial Evaluation, M/s. Chozha Groups (BID ID:1273548) was declared as H1 bidder for the quarry listed in Serial Number 10 of the Gazette as the firm quoted highest bid amount of Rs. 4,74,00,000/- for the said quarry. The H1 bidder was directed to remit 10% of the Highest bid amount vide notice in the reference 4th cited and accordingly, the H1 bidder remitted 10% of the bid amount to a sum of Rs. 47,40,000/- and submitted remittance challan No. 20250329002376 dated: 29.03.2025 to this office.

Subsequently, M/s. Chozha Groups (BID ID:1273548) was directed to remit the remaining 90% of Highest bid amount after adjusting the Bid Security already paid by them within one month to Government head of account and to submit original remittance challan to this office. Accordingly, M/s. Chozha Groups (BID ID:1273548) has remitted Rs.3,90,24,983/- after deducting Rs.36,35,017/- (the Bid Security amount already paid by the bidder) in Government account within one month and submitted remittance challans to this office.

The details of H1 Bidder for the quarry listed in Serial No.10 of the District Gazette, H1 Bid Amount offered and remittance of Bid amount by bidder are as follows.

1.	**Quarry Detail**	
	Serial No. in District Gazette No.01, dated 18.02.2025.	10
	Taluk	Perambalur
	Village	Elambalur
	S.F.No.	27/1A (Block-2)
	Extent	1.80.0 Hectares
	Lease Period	10 Years
2.	**H1 Bidder, Bid Amount Remittance**	
	H1 Bidder	M/s. Chozha Groups (BID ID:1273548), Old No:1/85 New No.4/155, Mariyammankovil street, Erthkaranpatti, Rajaji Nagar, Ariyalur 621 713.
	H1 Bid Amount	Rs. 4,74,00,000/-
	10% of H1 bid amount remitted	Rs. 47,40,000/- (Challan No. 20250329002376 dated:29.03.2025)
	Bid Security (EMD) already remitted	Rs. 36,35,017/-
	90% of bid amount paid after adjusting Bid Security already paid	Rs. 3,90,24,983/- (Challan No. 20250409007288 dated:09.04.2025)

The H1 Bidder, M/s. Chozha Groups (BID ID:1273548) has remitted entire H1 Bid Amount of Rs.4,74,00,000/- in Government account within one month as per sub-rule 16 of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959.

Therefore, in exercise of the powers conferred under sub rule 17(a) of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959, an extent of 1.80.0 hectares of Government land in S.F.No. 27/1A (Block-2) of Elambalur Village, Perambalur Taluk and District as notified in Serial Number.10 of the Perambalur District Gazette (Extraordinary) Notification No.1, dated: 18.02.2025 is hereby fixed as Precise Area for grant of permission to quarry Roughstone for a period of 10 years to M/s. Chozha Groups (BID ID:1273548) , subject to the following conditions.

1. 10 meters safety distance should be left out for the adjacent Government lands.

2. The applicant shall not make any hindrance to the adjacent leases and public.

3. The applicant should submit approved Mining Plan, Environment Clearance and Consent to Establish (CTE) & Consent to Operate (CTO) issued by competent authorities for grant of quarrying lease in the subject area.

The applicant M/s. Chozha Groups (BID ID:1273548) is directed to submit draft Mining Plan for the above area within 90 days for the approval of the Assistant Director, Geology and Mining, Perambalur and to submit Environment Clearance obtained from SEIAA, Tamil Nadu and CTE & CTO issued by the Tamil Nadu Pollution Control Board subsequently for further process.

Encl: Map showing the proposal lease area.

28/04/25

Assistant Director,
Geology and Mining,
Perambalur.

To
M/s. Chozha Groups (BID ID:1273548),
Old No:1/85 New No.4/155,
Mariyammankovil street,
Erthkaranpatti, Rajaji Nagar,
Ariyalur 621 713.

Copy to:

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

ANNEXURE 7A

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

© GOVERNMENT OF TAMIL NADU 2025

Registered No. TN / SRGM – 10

PERAMBALUR DISTRICT GAZETTE

EXTRAORDINARY PUBLISHED BY AUTHORITY

PERAMBALUR, FEBRUARY 18, 2025

No. 1]

[Maasi 06, Kurothi, Thiruvalluvar Aandu - 2056]

NOTIFICATION BY THE COLLECTOR

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

E-mail: (minespmb@gmail.com)

Notice Inviting Tender(NIT)

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

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

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

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

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

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

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

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

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

ANNEXURE – I

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

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

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

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

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

ASSISTANT DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

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

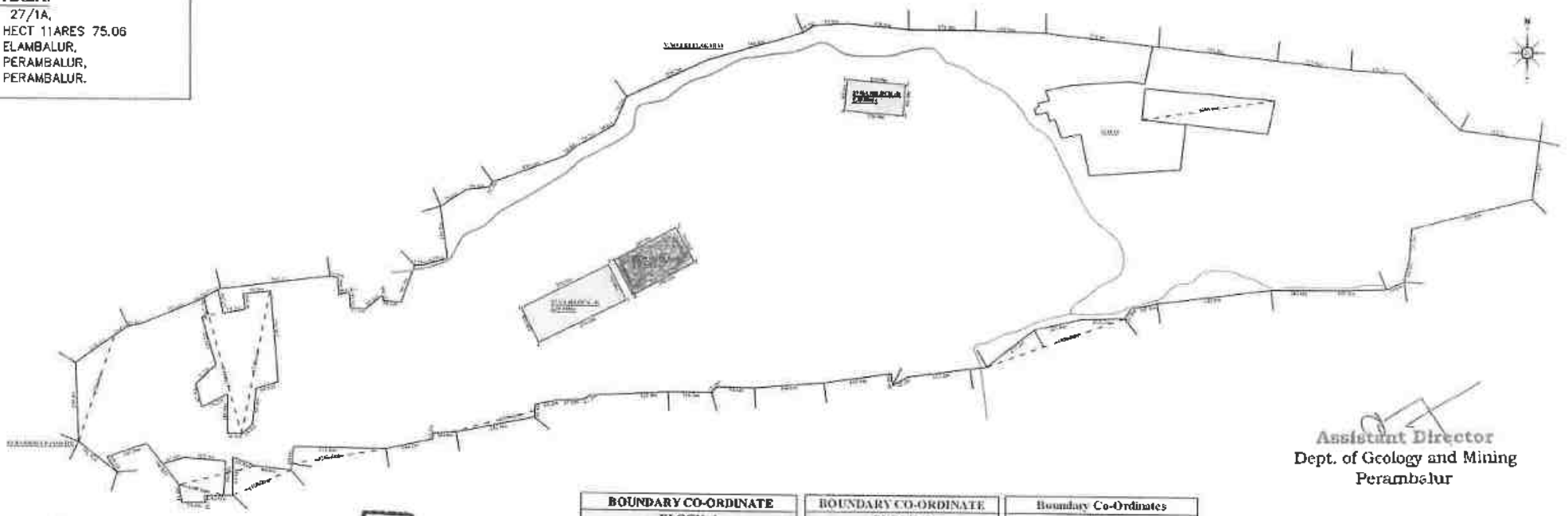
Perambalur,
17th February 2025.

GRACE PACHUAU,
District Collector.

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

LOCATION OF QUARRY LEASE BLOCK AREA:

S.F.NO : 27/1A,
EXTENT : HECT 11ARES 75.06
VILLAGE : ELAMBALUR,
TALUK : PERAMBALUR,
DISTRICT : PERAMBALUR.



BOUNDARY CO-ORDINATE BLOCK-1		
LABEL	LATITUDE	LONGITUDE
1	11°16'43.25"N	78°52'45.95"E
2	11°16'43.35"N	78°52'50.81"E
3	11°16'40.79"N	78°52'50.94"E
4	11°16'40.72"N	78°52'46.01"E
WGS 84 DATUM		

BOUNDARY CO-ORDINATE BLOCK-2		
LABEL	LATITUDE	LONGITUDE
1	11°16'27.86"N	78°52'32.50"E
2	11°16'30.61"N	78°52'36.64"E
3	11°16'27.92"N	78°52'38.40"E
4	11°16'25.17"N	78°52'34.40"E
WGS 84 DATUM		

Boundary Co-Ordinates Block-3		
Label	Latitude	Longitude
1	11°16'23.05"N	78°52'25.16"E
2	11°16'27.43"N	78°52'32.11"E
3	11°16'24.69"N	78°52'33.88"E
4	11°16'20.31"N	78°52'26.94"E
WGS 84 DATUM		

Assistant Director
Dept. of Geology and Mining
Perambalur

LEASE APPLIED AREA

ANNEXURE

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

நில அளவை எண் (1)	உட்பிரிவு எண். (2)	பரப்பு (3)	தீர்வை (4)	ஒரு போகம் தக்கவை இரு போகம் (5)	கைப்பற்று தாரருடைய பெயரும் எண்ணும் அல்லது அனுபோக தாருடைய பெயர். (6)	நிலத்தின் வகை மாவது வரையாளரால் பயிரிடப்பட்டுள்ளதா (7)	முதல் போகம். எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது (8)	பயிரின் பெயர் (9)	பயிரான புறுவகை யான பெயர் (10)	உண்மையான பயிர்செய் ஆதாரம். (11)	விளைச்சல் ஆகு விபரக்கூறு (12)
27	(பிரி)	1.00	300	-	-	-	-	-	-	-	-

எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது (13)	பயிரின் பெயர். (14)	பயிரான புறுவகை யான பெயர். (15)	உண்மையான பயிர்செய் ஆதாரம் (16)	விளைச்சல் ஆகு விபரக்கூறு (17)	கீழ்க்கண்டவைகளில் ஒன்றுக்கு மேற்பட்ட நிலைகளில் பயிரிடப்பட்ட நிலங்களுக்கு மட்டும் நிரப்புக. (1) கைப்பற்றுதாரர்களின் நன்மைக்காகவும் முதல் போகத்தில் பயிரிடப்பட்டவை. (2) கைப்பற்று தாரருக்கு நிலம் பயிரிடப்பட்டவை. (3) முதல் போகத்தில் பயிரிடப்பட்டவை. எனும் பயிரிடப்பட்டவை. (18)	கிழக்கண்டவைகளில் உள்ள நிலத்தில் ஒரு பயிரின் விவரங்கள் அளவை என்ன பகுதியில். (அ) வளம், (ஆ) பய இயலாத நிலம், (இ) இதர காரியங்களுக்கு பயன் நிலம், (ஈ) (உ) நிலையான மற்றும் இதர வேம் (ஊ) விதைக்கப்பட் சேர்க்கப்படாத பர தோப்புகளும், (ஏ) (ஏ) இதர தரிசு நிலங்க (19)
					தோல	

ANNEXURE
ASSISTANT DIRECTOR OF GEOLOGY AND MINING PUDUKKOTTAI

ANNEXURE II

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR ASSISSA

1	2	3	4	5	6	7	8	9	10	11	12
							ஹெ. ஆ.ச.	தென.ஏஸ்.	கு. வரை		
25	1	25-1	மே	கி	...	8-4	16	1 08	0 22.0	0 24	1472 பச்சமுத்து கோவிந்தசாமி மற்றும் பெண்கள்.
	2	-2	மே	கி	...	8-4	16	1 08	5 30-5	5 76	1066 தே. ஜோதியம்மாள்.
									5 52.5	6 00	
									3 01-5	...	.....
26	...	26	அ	கி.ம	...	...	...	...	238 43-0	...	.....
27	1A	27-1A	அ	கி.ம.த	...	...	...	...	1 70-0	...	.....
	1B	-1B	அ	கி.ம	...	...	...	...	0 18.0	...	.....
	1C	-1C	அ	கி.ம.த	...	...	...	...	1 45-5	2 70	380 செ. செல்வராசு.
	2	-2	மே	கி	...	8-4	16	1 08	241 76-5	2 70	
28	1	28-1	அ	கி	...	8-4	16	1 08	0 35 5	0 39	.....
	2	-2	மே	கி	...	8-4	16	1 08	2 02-5	2 18	124 செ. கந்தசாமி.
	3	-3	மே	கி	...	8-4	16	1 08	1 21-5	1 30	828 பெ. முத்து ந. லட்சுமி அம்மாள்.
									3 59-5	3 87	
29	1A	29-1A	மே	கி	...	8-4	16	1 08	0 19-0	0 20	1177 க. பொன்னுச் சாமி (1). செ. முத்து சாமி (2).
	1B	1B	மே	கி	...	8-4	16	1 08	0 19-0	0 20	1232 சா. கோவிந்த சாமி (1). சா. பெரிய சாமி (2).
	1C	-1C	மே	கி	...	8-4	16	1 08	0 09.0	0 10	201 சா. கோவிந்த சாமி
	1D	-1D	மே	கி	...	8-4	16	1 08	0 10.0	0 11	647 க. பெரியசாமி.

*. விவரப் பட்டியலைப் பார்க்கவும்.

27/1A - 27/1A - அ.கு.எ.5 - 238.43.0 - மணல்

27/1A - 27/1ALm - அ.கு.எ.5 - 237.19.0 - மணல்

- 3 - 27/1ALm - அ.மண - 1.24.0 - கரம்பு
238.43.0

27/1A - 27/1ALm - அ.கு.எ.5 - 225.46.5 - மணல்

- 4 - 27/1ALm - அ.கு.எ.5 - 0.21.0 - மணல்

- 6 - 27/1ALm - அ.மண - 1.11.5 - ஏனாங்கோவை

- 7 - 27/1ALm - அ.கு.எ.5 - 0.04.0 - மண்

- 8 - 27/1ALm - அ.கு.எ.5 - 8.62.0 - மணல்

- 9 - 27/1ALm - அ.கு.எ.5 - 1.74.0 - மணல்
237.19.0

2/1A - 27/1ALm - அ.கு.எ.5 - 200.38.0 - மணல்

- 5 - 27/1ALm - அ.மண - 2.22.0 - களிமண்

- 10 - 27/1ALm - அ.மண - 1.21.5 - களிமண்

- 11 - 27/1ALm - அ.மண - 1.03.0 - களிமண்

- 12 - 27/1ALm - அ.மண - 1.03.0 - களிமண்

ASSISTANT DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

ANNEXURE 41

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

भारतीय गैर न्यायिक

भारत INDIA

रु. 500 FIVE HUNDRED RUPEES

पाँच सौ रुपये Rs. 500

सत्यमेव जयते

INDIA NON JUDICIAL

தமிழ்நாடு तमिलनाडु TAMILNADU

RD AK 436116

R.தேவேந்திரன்
முத்திரைதாள் விற்பனையாளர்
உரிமம் எண் 1/2015
காமராஜ் நகர் மதன் தெரு.
அரியலூர். தமிழ்நாடு
PH : 9787563005.

Rs-500/-
8-10-24

Saravanan
Alagapuram

PARTNERSHIP DEED

THIS DEED OF PARTNERSHIP executed this the 08thday of October, 2024

BETWEEN

1. MrK Rajendran, S/o MrKathavarayan, aged about 54years, now residing at No.450, Kalani Street, J Kulathur, Kattathur (South), Kulathur, Ariyalur - 621803 hereinafter referred to as the Party of the FIRST PART ;

AND

2. MrR Saravanan, S/o Mr. Rajarathinam,aged about 55 years, now residing at No.6/83A, South Street, Azhagapuram, Udaiyarpalayam Taluk, Alagapuram, Ariyalur - 608 901 and hereinafter referred to as the Party of the SECOND PART ;

AND WHEREAS both the above parties have decided to commence the business under the name and style of "CHOZHA GROUPS"at Ariyaluron and with effect from 08/10/2024 and now both the partners have decided to execute the Partnership Deed by entering into this formal Partnership Deed.

AND WHEREAS, the partners have mutually agreed and decided amongst themselves to reduce the Terms and Conditions of the Partnership Deed into writing. NOW THIS INDENTURE WITNESSETH AS FOLLOWS:



ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

தமிழ்நாடு तमिलनाडु TAMILNADU AE 777655

Rs-500/-
8-10-24

Saravanan
Alagapuram

R. தேவேந்திரன்
முத்திரைதாள் விற்பனையாளர்
உரிமம் எண் : 1/2015
காமராஜ் நகர் முதல் தெரு,
அரியலூர். தமிழ்நாடு
PH : 9787563005.

1. NAME:

The name of the Partnership shall be **"CHOZHA GROUPS"** which shall be situated at No.1/85A2, Mariyamman Kovil Street, Eruthukaranpatti, Rajaji Nagar (Post), Ariyalur - 621713 and/or other places in India as the Partners may decide from time to time.

2. The Duration of the Partnership shall be determinable 'AT WILL'.

3. NATURE OF BUSINESS:

The nature of business of the partnership shall be to produce, buy, sell, import, export, to act as commission agents, to deal in and

a) to carry onall types ofMining,
b) to carry on Quarry activities,
c) Rough Stones, Boulders etc.,
d) Stones, aggregates and other Minerals
e) All types of Building / Construction materials.

and to carry on such other business or businesses as may be decided by the partners.

R.Sa47

R.Sa47

ASSISTANT DIRECTOR OF GEOLOGY & MINING
PERAMBALUR

4. CAPITAL:

The Capital of the Partnership shall be Rs.2,50,000/- (Rupees TwoLakhs and Fifty ThousandOnly) and which may be increased or decreased, and which shall be contributed by the Partners as under:

1.Mr. K Rajendran	...	Rs.1,00,000/-
2.Mr. R Saravanan	...	Rs. 1,50,000/-
TOTAL		Rs. 2,50,000 /-

5. INTEREST:

The Partners shall be paid interest, calculated at the rate up to 12% Simple Interest per annum on their Capital / current or other account balances before crediting or debiting the Profit or Loss for the relevant year. Wherever there is a Debit Balance in the Current Account, simple interest at the rate up to 12% per annum will be collected from the partners on such balances.

6. REMUNERATION:

The minimum monthly Fixed Remuneration shall be paid to both the Working Partners in the following manner:

1. Mr. K Rajendran	...	Rs. 10,000/-
2. Mr. R Saravanan	...	Rs. 15,000/-
TOTAL		Rs. 25,000 /-

In addition to the above, both the above Working partners are entitled for additional remuneration to the extent permitted under the Income Tax Act 1961, in Sec. 40 (b) and as amended from time to time in the following proportions.

1. Mr. K Rajendran	...	40%
2. Mr. R Saravanan	...	60%

However, the minimum remuneration and the additional remuneration shall not exceed the prescribed limits.

7. ACCOUNTS AND SHARES:

Proper Books and Accounts shall be maintained for the business of the Partnership and the accounts of the Partnership shall be closed on the 31st day of March in each year or on such other day as the Partners agree upon among themselves and after providing for all incomings and outgoings and for Expenses and Losses, including Interest and Remuneration to Partners, the Profits or the losses shall be determined and divided amongst the Partners in the following proportions.

1. Mr. K Rajendran	...	40%
2. Mr. R Saravanan	...	60%

R.Sc47

8. BANK ACCOUNT:

The Partners shall have the authority to open one or more Bank Account/s in the name of the Partnership, which shall be operated bythe partner, MrR Saravanan, individually under the seal of the firm.

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

9. BORROWINGS:

Both the Partners are empowered hereby Jointly to borrow money for the business of the Partnership either from one or more Bank(s) or any other Financier or from one or more of the Financial Institutions of the State or Central Government or such other source as the Partners may deem it convenient and necessary. Both the Partners shall sign the necessary application and execute all the relevant documents by both the partners on behalf of the Firm.

Both the partners shall have full power to sign the documents in respect of all the connected transactions and such power shall be deemed to include power to mortgage, pledge, hypothecate or otherwise create a charge over all or any assets of the firm and also to obtain release of such assets mortgaged or pledged or hypothecated.

10. The party of the second part MrR Saravanan shall have right to make and give receipts, release and discharge for claims and demands of the Partnership in the ordinary course of the Business. They have right to draw, sign, endorse and negotiate bills of exchange, cheques, hundies and other negotiable instruments for and on behalf of the Partnership.

11. Mr. RSaravananshall individually represent the Firm before various Government authorities including the State and the Central Governments and also before Banks and other Institutions. He shall individually represent the Firm before Customers and others and all decision/s taken by such partner shall be final and binding on the firm and the other partner.

12. The Partners shall represent the firm in any Civil or Criminal Courts, Courts of Insolvency, before all Judges, Magistrates, Collectors, Munsiffs, Registrars, Income-Tax Authorities, Official Assignee, Official Receiver, Police Officer and Civilian Officers of the State Governments as well as the Central Government, Import and Export Trade Control Authorities. They are further authorized to conduct all the plaints and appeal petitions, etc. which are to be filed in any Civil or Criminal Courtsor before any Officer of the Indian Government as well as the State Governments and swear necessary affidavits and certify all written statements and defend all suits brought against the firm.

13. The Partners shall have right to have access to all books and records kept by the Partnership and shall have right to take copies of the same and shall act honestly and diligently for the greatest common advantages of the firm.

14. Licenses, Permits, Agencies and other rights if any taken or obtained for the purposes of business of the firm in the name or names of any Partner or Partners of the Firm, shall belong to the Firm irrespective of the fact that they stand either in the name of any Partner or Partners.

15. Retirement or Death or Insolvency of any Partner shall by itself dissolve the firm. Any Partner desirous of retiring from the firm shall do so by giving not less than TWO MONTHS notice in writing and at the expiration of the said period, the accounts of the Partnership shall be made up and Profit and Loss be determined and transferred to the respective Partner's Capital Accounts and settle the accounts among themselves. In the event of death of any Partner, the remaining Partner may carry on the Business with or without the legal heirs of the deceased Partner.

16. The Goodwill of the Firm shall not be valued and taken into account at the time of retirement or death of any Partner. The continuing or surviving Partner shall have the right to the name and goodwill of the firm.

17. The Terms of the Partnership Deed can be altered, amended, substituted or added to by mutual consent of the Parties to this Deed in writing.

R. Sc

R. Sc

18. In case of any dispute between the Parties with regard to the Partnership Agreement or any other matter relating to the firm, the same shall be decided by an arbitrator mutually agreed upon by the Parties.

19. The Provisions of the Indian Partnership Act, 1932 as amended from time to time shall apply to the Partnership to the extent they are not excluded or modified by the preceding clauses.

IN WITNESS WHEREOF THE PARTIES have subscribed their signature to this Deed of Partnership at Ariyalur on the date,

1. (K RAJENDRAN)

2. (R SARAVANAN)

WITNESSES:

1.

ARULMANI
S/O, ANNADURAI,
3/26, PALAKKARAI,
KATTUPPIRINGIYAM,
ASTHINAPURAM (PO).
ARIYALUR 621 704.

2.

ARUL MURUGAN
S/O, CHINNADURAI,
2/112, MIDDLE STREET,
ARUNGAL, ARIYALUR (DT),
ARUNGAL (PO), 621-707.

DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR
ASSISTANT

ASSISTANT DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

सत्यमेव जयते

Government of India

Form GST REG-06

[See Rule 10(1)]

Registration Certificate

Registration Number : 33AAUFC4129N1Z0

1.	**Legal Name**	CHOZHA GROUPS				
2.	**Trade Name, if any**					
3.	**Additional trade names, if any**					
4.	**Constitution of Business**	Partnership				
5.	**Address of Principal Place of Business**	**Building No./Flat No.:** Old Door No. 1/85 A2 New door No.4/155 **Road/Street:** Mariyamman Kovil Street **Locality/Sub Locality:** Eruthukaranpatti Rajaji Nagar(Post) **City/Town/Village:** Ariyalur **District:** Ariyalur **State:** Tamil Nadu **PIN Code:** 621713				
6.	**Date of Liability**					
7.	**Period of Validity**	From	20/02/2025	To	Not Applicable	
8.	**Type of Registration**	Regular				
9.	**Particulars of Approving**	Centre				

Signature

Validity unknownValidity
Digitally signed by GOODS AND SERVICES TAX NETWORK 15
Date: 2025.02.20 10:30:39 IST

Name	LOKENDRA SINGH
Designation	Superintendent
Jurisdictional Office	CHENNAI
Date of issue of Certificate	20/02/2025

Note: The registration certificate is required to be prominently displayed at all places of business in the State.

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

Goods and Services Tax



सत्यमेव जयते

Goods and Services Tax Identification Number: 33AAUFC4129N1Z0

Details of Additional Place of Business(s)

Legal Name CHOZHA GROUPS

Trade Name, if any

Total Number of Additional Places of Business in the State 0

Goods and Services Tax

D.Gcw

ASSISTANT DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

सत्यमेव जयते

Goods and Services Tax Identification Number: 33AAUFC4129N1Z0

Legal Name CHOZHA GROUPS

Trade Name, if any

Details of Managing / Authorized Partners

1		Name	RAJARATHINAM SARAVANAN
		Designation/Status	Partner
		Resident of State	Tamil Nadu
2		Name	KATHAVARAYAN RAJENDRAN
		Designation/Status	partner
		Resident of State	Tamil Nadu

Goods and Services Tax

R. Gowt

ANNEXURE

ASSISTANT DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR


இந்திய அரசாங்கம்
Government of India
சரவணன் ராஜாத்திஸம்
Saravanan Rajarathinam
பிறந்த நாள் / DOB: 29/09/1989
ஆண்பால் / Male
6075 7712 8224
ஆதார் - சாதாரண மனிதனின் அதிகாரம்


Unique Identification Authority of India
முகவரி:
S/O: Rajarathinam, 6/83A,
SOUTH STREET,
AZHAGAPURAM,
UDAIYARPALAYAM TALUK,
Alagapuram, Ariyalur,
Alagapuram, Tamil Nadu, 608901
6075 7712 8224

D. Saravanan

ANNEXURE VIII

870899

DIRECTOR OF GEOLOGY AND MINES
PERAMBALUR

Renewed up to 31.8.2020

சென்னைப் பல்கலைக் கழகம்
University of Madras

அறிவியல் புலம்
FACULTY OF SCIENCE

Regional Controller of Mines
INDIAN BUREAU OF MINES

சென்னைப் பல்கலைக் கழகப் பேரவை 1989 ஆம் ஆண்டு
ஏப்ரல் மாதம் கூடிந்த பயன்முறைக் கணிமவியல்
தேர்வில் நா. ரவீந்திரன் என்பவர்
முதல் வகுப்பில் தேர்ச்சி பெற்றார் என்று தக்க தேர்வாளர்கள்
சான்றளித்தபடி அறிவியல் நிறைஞர் எனும் பட்டத்தை அவருக்குப்
பல்கலைக் கழக இலச்சினையுடன் வழங்குகிறது.

The Senate of the UNIVERSITY OF MADRAS hereby makes known that N. Ravinthiran has been admitted to the Degree of Master of Science, he/~~she~~ having been certified by duly appointed Examiners to be qualified to receive the same in Applied Geology and was placed in the First Class, at the Examination held in April 1989

Given under the Seal of the University.

சேப்பாக்கம், Chepauk,
சென்னை, Madras,
நாள். Dated 19.12.1991

பதிவாளர்
Registrar.

துணை வேந்தர்
Vice-Chancellor

108

T. N. G. S. T. No. 6040126
C. S. T. No. 488148 dt. 30-5-73

Tel : "JANATHACEM"
P. B. No. 45
Phone : 30710
(4 lines)
Quarry : 84761

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

Janathacem Industries Limited

Mfrs : Janathacem Wall Coat

Factory & Admn :
488 / 1, Sankarankoil Road,
RAJAPALAYAM - 626 117.

30.09.2000

TO WHOMSOVER IT MAY CONCERN

This is to certify that Sri.N.RAVINTHIRAN, M.Sc., (Applied Geologist) S/O. R.NARAYANASAMY residing at 3-105, Kannithevanpatti village, Keelarajagularaman (Post) Rajapalayam (Taluk) Virudhunagar Dist. Pin code 626136, was employed as a Geologist from 01.09.1993 to 30.09.2000 at Our THENMALAI LIMESTONE MINES Of M/S. JANATHACEM INDUSTRIES LIMITED (formarly M/S.LIMENAPH CHEMICALS) RAJAPALAYAM.

He has been vested with the work involing prospecting, Collecting samples, Knowing the chemicals analysis etc. He was also Supervising various Mining operation including drilling, blasting and excavation by powershovel. He has been successfully carrying out his duties and has proven himself a quite efficient, competent, sincere and hard working official in the company.

He has got a total of seven years post graduate experience in the Mechanished mining field.

He deserves all the encouragement and I wish him all the success in his carrier.

JANATHACEM INDUSTRIES LTD S PUDUR QUARRY

For JANATHACEM INDUSTRIES LIMITED,
(FORMARLY LIMENAPH CHEMICALS)

30.09.2000

(R.SARGUNAM)
DEPUTY GENERAL MANAGER (MINES)
THENMALAI LIMESTONE MINE

janathacem®

R.Sgnt

ASSISTANT DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

T. N. G. S. T. No. 6040126
C. S. T. No. 488148 dt. 30-5-73

P. B. No. 45
Phone : 30710
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Janathacem Industries Limited

Mfrs : Janathacem Wall Coat

Factory & Admn :
488 / 1, Sankarankoil Road,
RAJAPALAYAM - 626 117.

30.09.2000

TO WHOMSOVER IT MAY CONCERN.

This is to certify that Sri.N.RAVINTHIRAN, M.Sc., (Applied Geology) S/O.R.Narayanasamy , joined in our Organisation as Geologist on 01.09.1993. Due to his Personnel reasons he submitted his resignation and the same was accepted with regret. He was releaved from his duties with effect from 30.09.2000.

During his tenure his conduct and character was good, and he carried out his duties to the best satisfaction of his superiors and Management.

We wish him all success in his life.

For JANATHACEM INDUSTRIES LTD.

(T.VENKATARAJAGOPALAN)
GENERAL MANAGER

janathacem®

R.Gcw

ASSISTANT DIRECTOR OF GEOLOGY & MINES PERAMBALUR

GOVERNMENT OF INDIA
MINISTRY OF LABOUR & EMPLOYMENT
DIRECTORATE GENERAL OF MINES SAFETY

Certificate of practical experience granted by the Manager to a candidate for a **MANAGER'S/SURVEYOR'S/FOREMAN'S/MATE'S** Certificate of competency examination under the Metalliferous Mines Regulations 1961.

R.SARGUNAM being the Manager of **THENMALAI LIMESTONE MINES, S.PUDUR** belonging to **M/S.LIMENAPH CHEMICALS, RAJAPALAYAM** do hereby certify that Sri.**N.RAVINTHIRAN S/O.R.NARAYANASAMY** (whose signature appended) worked in the above Mine from 01.09.1993 to 09.08.96 and is still working. During his term of work aforesaid he has obtained practical experience as detailed overleaf. The duties connected with his work have involved his continuous attendance at the Mine and have been efficiently performed by him.

I believe him to be of good character and a fit and proper Person to be examined for a certificate of competency.

10.8.96

SIGNATURE & DATE

MANAGER (MINES)
Thenmalai Limestone Mines
(Owners: Limenaph Chemicals)
Senthattiapuram Pudur
THENMALAI POST-627 770.

N. Ravinthiran.

Signature of the candidate

Note: Delete if not applicable

State name of Mineral : **LIMESTONE**

Sl No.	Particulars of practical Experience	Place of Experience (B)	Period of practical Experience (C) From -- To	Total Experience Y	M	D
1.	Drilling(Rock drills)	Machanised open cast	01.09.93 15.04.94 --	7	14	
2.	Blasting (small dia)	,,	16.04.94 20.11.94 --	7	14	
3.	Wagon drilling	,,	21.11.94 10.08.95 --	8	19	
4.	Blasting(long&large dia holes)	,,	11.08.95 08.03.96 -	6	26	
5.	Supervision (All mining activities)	,,	09.03.96 09.08.96 --	5	---	

(Still working) Grand total ----------

Two years eleven months and thirteen days only. 02. 11. 13

d. Average monthly output during the above period : 3000 Tons

e. Average daily employment of Men&Machinery in H.P. during the period is given below:

In below ground working	In opencast working		In all
--- Nil --	Men	126+17	143
	Machinery	1559 H.P.	

N. Ravinthiran.

Signature of the candidate

10.8.96

Signature of Manager with date

MANAGER (MINES)
Thenmalai Limestone Mines
(Owners: Limenaph Chemicals)
Senthattiapuram Pudur
THENMALAI POST-627 770.

R. Sargunam

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

GOVERNMENT OF INDIA
MINISTRY OF LABOUR & EMPLOYMENT
DIRECTORATE GENERAL OF MINES SAFETY

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(Owners: Limenaph Chemicals)
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THENMALAI POST-627 770

R.Ravinthiran.
Signature of the candidate

Note: Delete if not applicable

State name of Mineral : **LIMESTONE**

Sl No.	Particulars of practical Experience	Place of Experience (B)	Period of practical Experience (C) From -- To	Total Experience Y	M	D
1.	Mining mate	Semi-Mechanised open cast working	10.08.96 15.06.99	2	10	5
2.	Mining Foreman	,,	16.06.99 30.09.2000	1	3	14
			Grand total	04.	01.	19

Four years One month Nineteen days only

d. Average monthly output during the above period : 4000 Tons

e. Average daily employment of Men&Machinery in H.P. during the period is given below:

In below ground working	In opencast working	In all
--- Nil ---	Men 102+13	115
	Machinery 1559 H.P.	

R.Ravinthiran.
Signature of the candidate

30.09.2000

Signature of Manager (Mines) date

MANAGER (MINES)
Thenmalai Limestone Mines
(Owners: Limenaph Chemicals)
Senthattiapuram Pudur
THENMALAI POST-627 770

R.Sarg

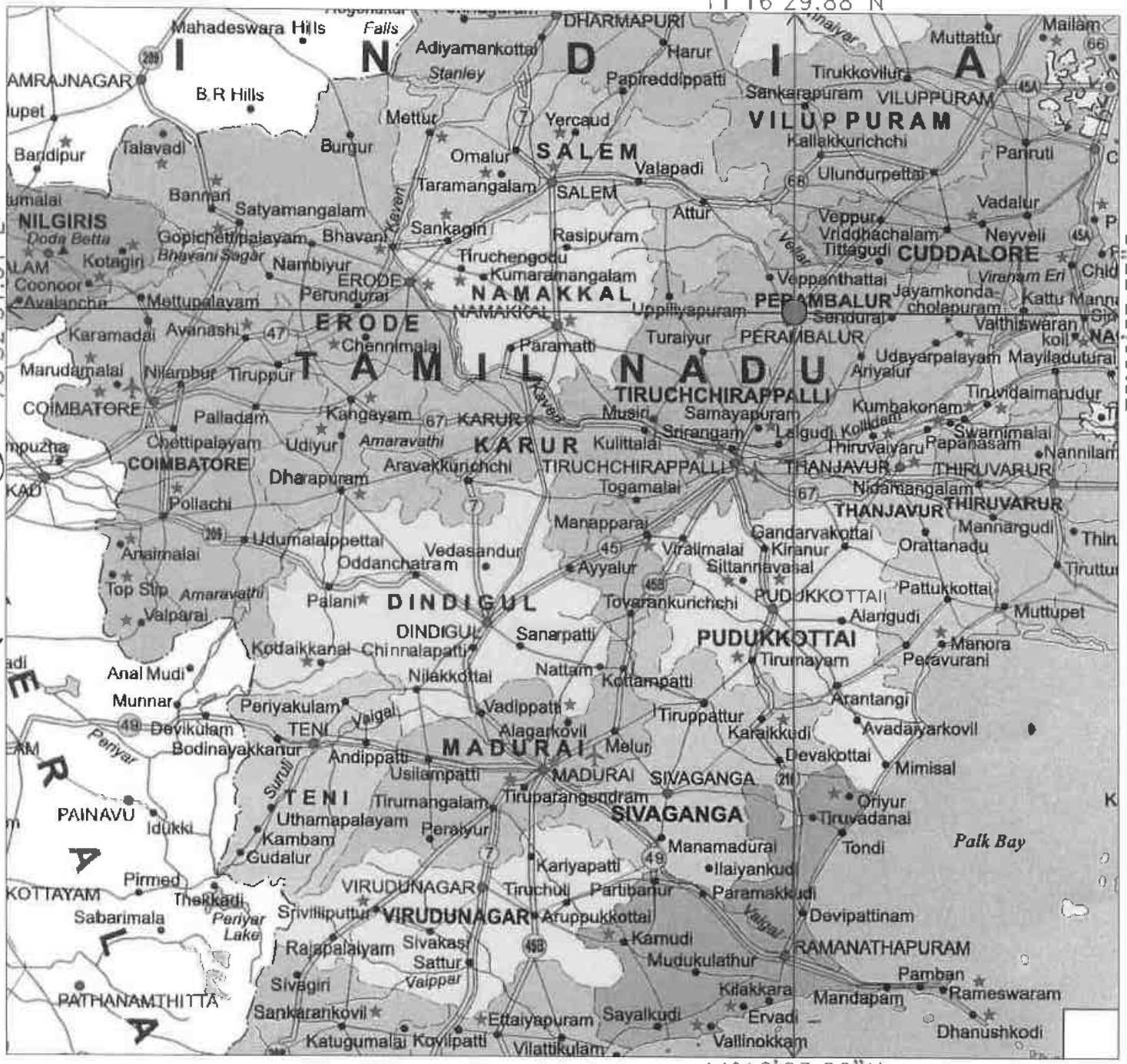


PLATE NO-I

DATE OF SURVEY : 29.04.2025

APPLICANT:

M/s.CHOZHA GROUPS,
OLD NO.1/85, NEW NO.4/155,
MARIYAMMANKOVIL STREET,
ERUTHUKARANPATTI, RAJAJI NAGAR,
ARIYALUR – 621 713.

QUARRY APPLIED LEASE AREA:

S.F.NO : 27/1A (BLOCK-2),
EXTENT : 1.80.0 Ha,
VILLAGE : ELAMBALUR,
TALUK : PERAMBALUR,
DISTRICT : PERAMBALUR.

INDEX

Q. L. APPLIED AREA :

TOPO SHEET NO : 58 I / 15

LATITUDE : 11°16'23.90"N to 11°16'29.88"N

LONGITUDE : 78°52'31.01"E to 78°52'37.77"E

LOCATION PLAN

NOT TO SCALE

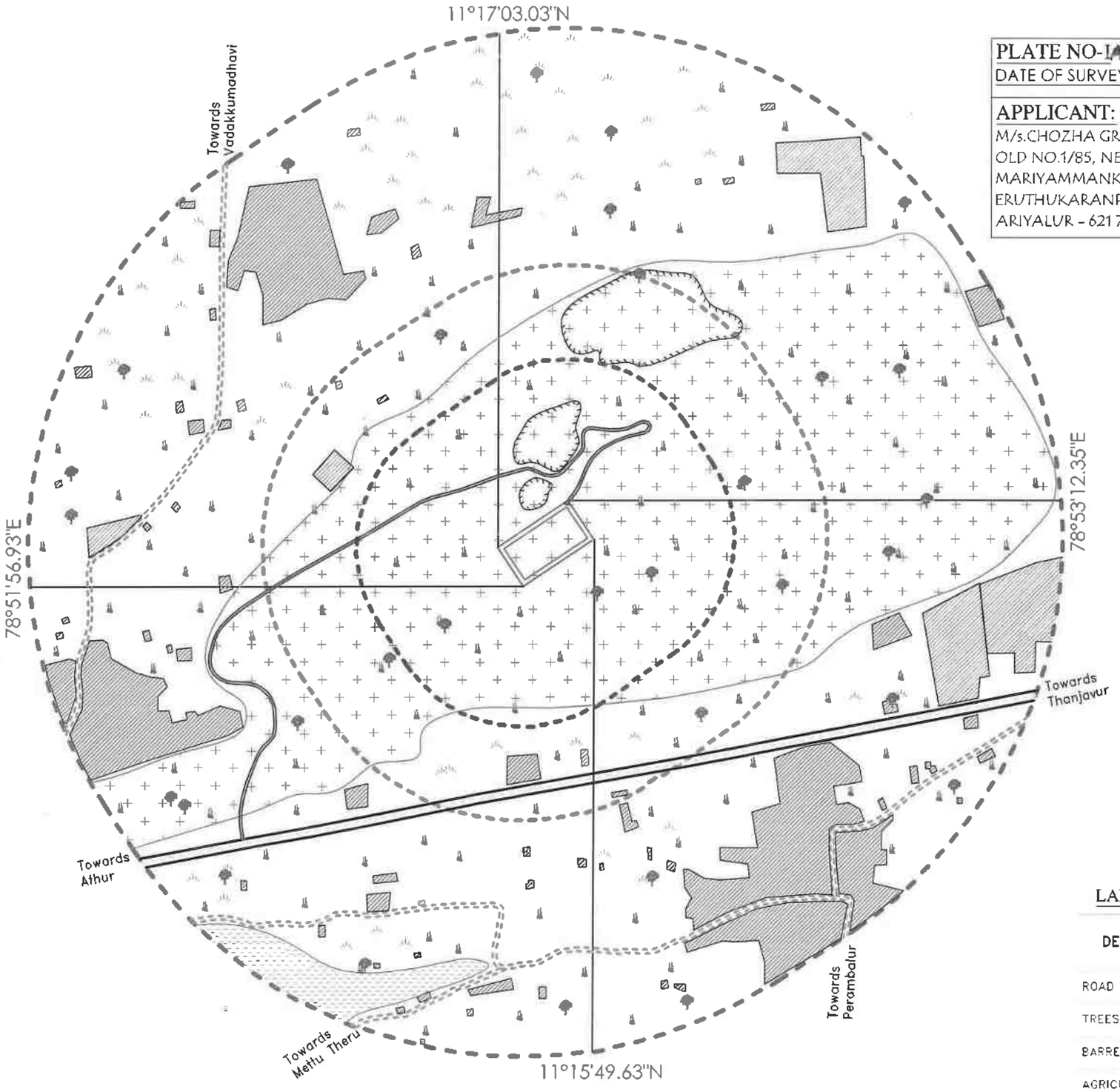
PREPARED BY :

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

N.RAVINTHIRAN, M.Sc.,
QUALIFIED PERSON

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

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N

PLATE NO-IA
DATE OF SURVEY : 29.04.2025

APPLICANT:
M/s.CHOZHA GROUPS,
OLD NO.1/85, NEW NO 4/155,
MARIYAMMANKOVIL STREET,
ERUTHUKARANPATTI, RAJAJI NAGAR,
ARIYALUR - 621 713.

QUARRY LEASE APPLIED AREA:
S.F.NO : 27/1A (BLOCK-2),
EXTENT : 1.80.0 Ha,
VILLAGE : ELAMBALUR,
TALUK : PERAMBALUR,
DISTRICT : PERAMBALUR.

ASSISTANT DIRECTOR OF GEOLOGY AND MINING * PERAMBALUR

INDEX
TOPO SHEET NO : 58 I / 15

LATITUDE : 11°16'23.90"N to 11°16'29.88"N

LONGITUDE : 78°52'31.01"E to 78°52'37.77"E

Q.L.APPLIED AREA	
10m SAFETY	
300M RADIUS	
500M RADIUS	
1KM RADIUS	
APPROACH ROAD	
PANCHYAT ROAD	
NATIONAL HIGHWAY	
BARREN LAND	
TREES	
AGRICULTURAL LAND	
HABITATIONS	
QUARRY PIT	
CRUSHER PLANT	
TANK	
HILLOCK	
FACTORY	

LAND USE PATTERN

DESCRIPTION	AREA IN (%)
ROAD	10
TREES	05
BARREN LAND	30
AGRICULTURAL LAND	10
HABITATIONS	03
WATER BODIES	03
HILLOCK	39

ENVIRONMENTAL PLAN
SCALE 1:10,000

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

N.RAVINTHIRAN, M.Sc.,
QUALIFIED PERSON

114

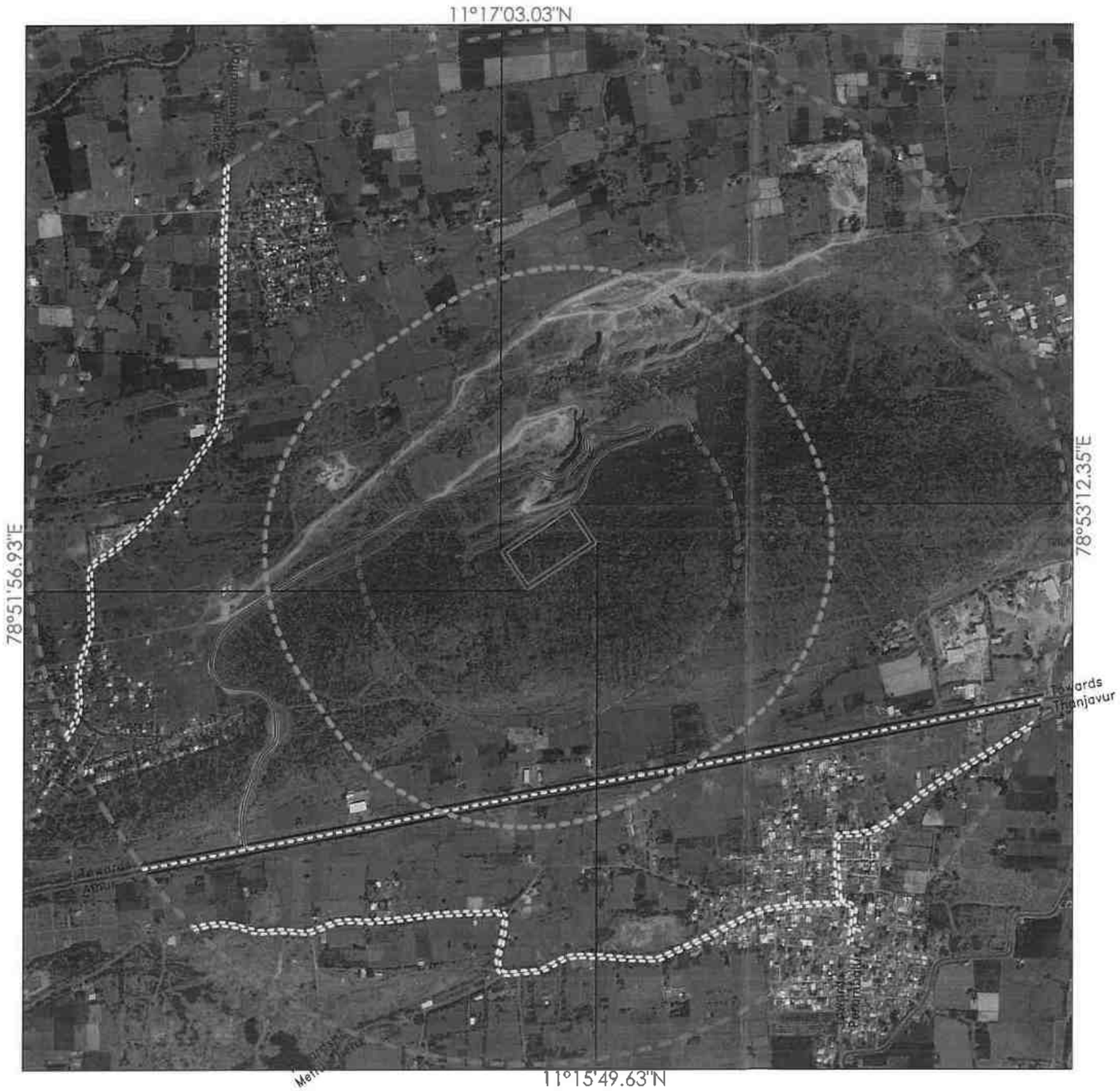


PLATE NO-IB

DATE OF SURVEY : 29.04.2025

APPLICANT:

M/s.CHOZHA GROUPS,
OLD NO.1/85, NEW NO.4/155,
MARIYAMMANKOVIL STREET,
ERUTHUKARANPATTI, RAJAJI NAGAR,
ARIYALUR - 621713.

QUARRY LEASE APPLIED AREA:

S.F.NO : 27/1A (BLOCK-2),
EXTENT : 1.80.0 Ha,
VILLAGE : ELAMBALUR,
TALUK : PERAMBALUR,
DISTRICT : PERAMBALUR.

INDEX

TOPO SHEET NO : 58 I / 15

LATITUDE : 11°16'23.90"N to 11°16'29.88"N

LONGITUDE : 78°52'31.01"E to 78°52'37.77"E

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

SATELLITE IMAGERY MAP

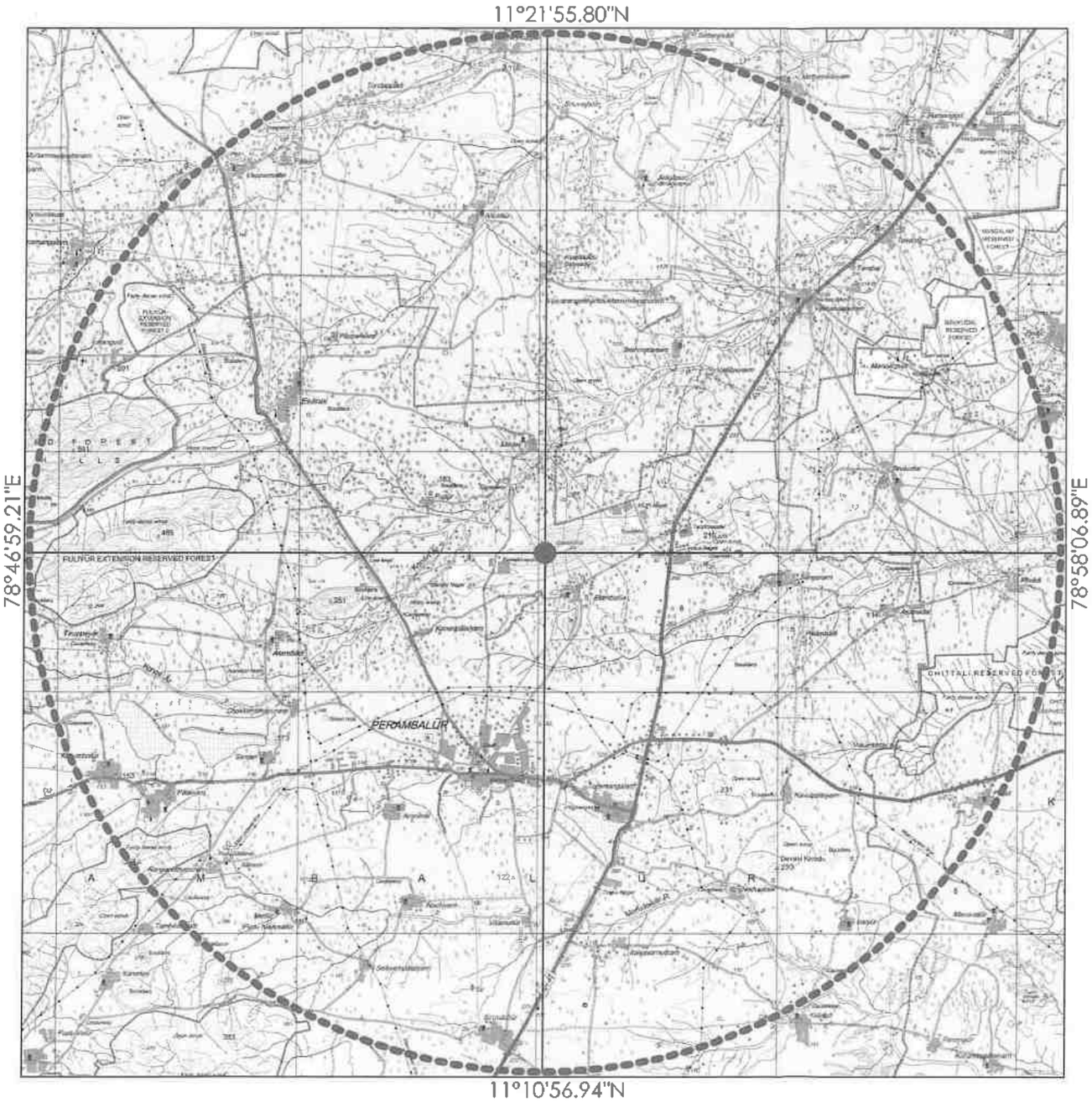
SCALE 1:10,000

PREPARED BY :

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N.RAVINTHIRAN, M.Sc.,
QUALIFIED PERSON

D.Sc(W)



N

ASSISTANT DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

PLATE NO-IC

DATE OF SURVEY : 29.04.2025

APPLICANT:

M/s.CHOZHA GROUPS,
OLD NO.1/85, NEW NO.4/155,
MARIYAMMANKOVIL STREET,
ERUTHUKARANPATTI, RAJAJI NAGAR,
ARIYALUR - 621 713.

QUARRY LEASE APPLIED AREA:

S.F.NO : 27/1A (BLOCK-2),
EXTENT : 1.80.0 Ha,
VILLAGE : ELAMBALUR,
TALUK : PERAMBALUR,
DISTRICT : PERAMBALUR.

INDEX

TOPO SHEET NO : 58 I / 15

LATITUDE : 11°16'23.90"N to 11°16'29.88"N

LONGITUDE : 78°52'31.01"E to 78°52'37.77"E

Q.L.APPLIED AREA

10KM RADIUS



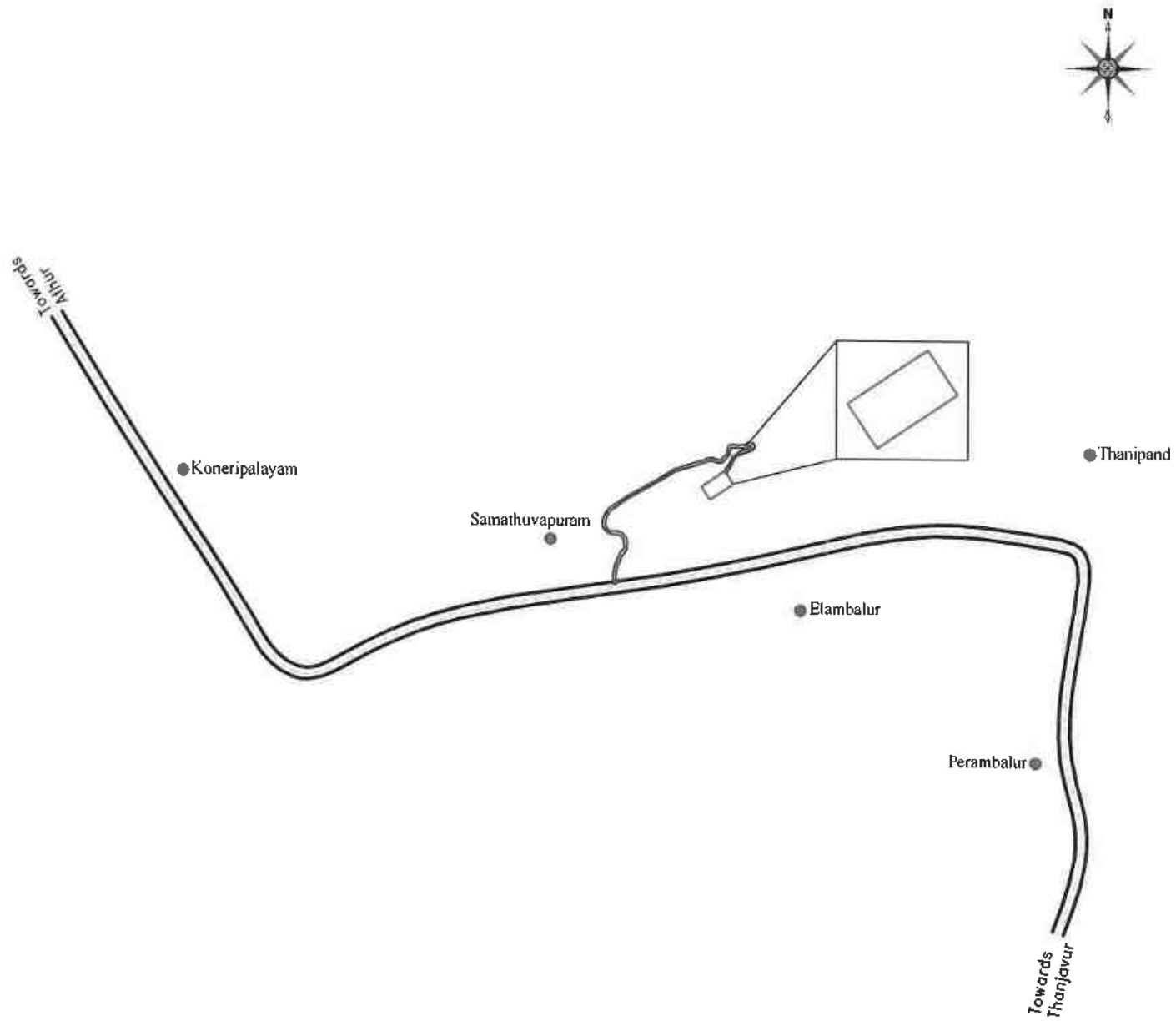
TOPO SKETCH OF QUARRY LEASE APPLIED AREA FOR 10Km RADIUS

SCALE- 1:100000

PREPARED BY :

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N.RAVINTHIRAN, M.Sc.,
QUALIFIED PERSON



ASSISTANT DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

PLATE NO-ID

DATE OF SURVEY : 29.04.2025

APPLICANT:

M/s.CHOZHA GROUPS,
OLD NO.1/85, NEW NO.4/155,
MARIYAMMANKOVIL STREET,
ERUTHUKARANPATTI, RAJAJI NAGAR,
ARIYALUR - 621 713.

QUARRY LEASE APPLIED AREA:

S.F.NO : 27/1A (BLOCK-2),
EXTENT : 1.80.0 Ha,
VILLAGE : ELAMBALUR,
TALUK : PERAMBALUR,
DISTRICT : PERAMBALUR.

INDEX

Q.L. APPLIED AREA	
APPROACH ROAD	
NATIONAL HIGHWAY	
HABITATIONS	

KEY PLAN

Not To Scale

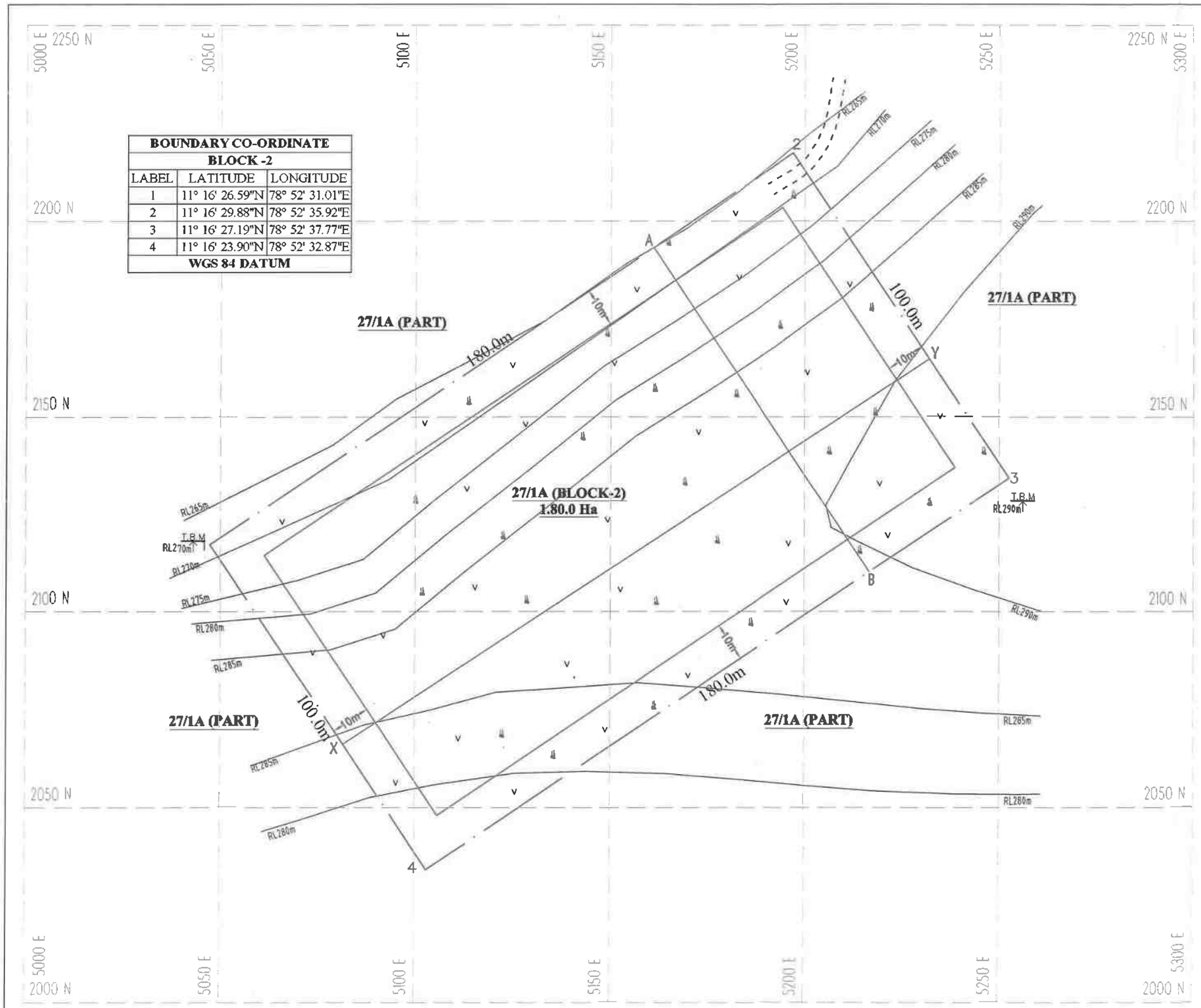
PREPARED BY:

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N.RAVINTHIRAN, M.Sc.,
QUALIFIED PERSON

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BOUNDARY CO-ORDINATE		
BLOCK -2		
LABEL	LATITUDE	LONGITUDE
1	11° 16' 26.59"N	78° 52' 31.01"E
2	11° 16' 29.88"N	78° 52' 35.92"E
3	11° 16' 27.19"N	78° 52' 37.77"E
4	11° 16' 23.90"N	78° 52' 32.87"E
WGS 84 DATUM		



N

ASSISTANT DIRECTOR GEOLOGY AND MINING * PERAMBALUR

PLATE NO-II

DATE OF SURVEY : 29.04.2025

APPLICANT:

M/s.CHOZHA GROUPS,
OLD NO.1/85, NEW NO.4/155,
MARIYAMMANKOVIL STREET,
ERUTHUKARANPATTI, RAJAJI NAGAR,
ARIYALUR - 621 713.

QUARRY APPLIED LEASE AREA:

S.F.NO : 27/1A (BLOCK-2),
EXTENT : 1.80.0 Ha,
VILLAGE : ELAMBALUR,
TALUK : PERAMBALUR,
DISTRICT : PERAMBALUR.

INDEX

- Q.L. APPLIED BOUNDARY
- 10m SAFETY DISTANCE
- TEMPORARY BENCH MARK (T.B.M)
- APPROACH ROAD
- CONTOUR
- SCRUB
- TOP SOIL

QUARRY LEASE & SURFACE PLAN

SCALE 1 : 1000

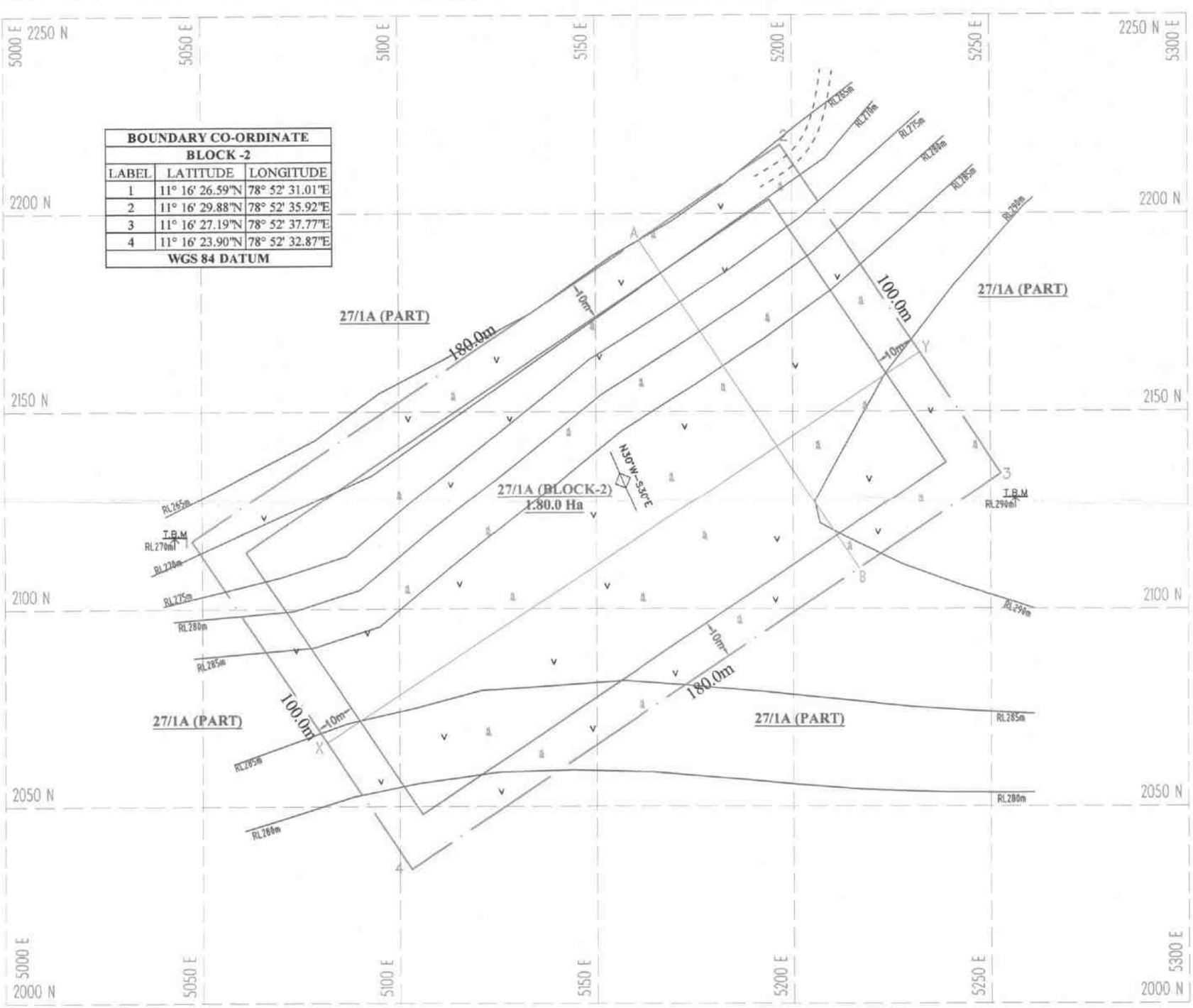
PREPARED BY:

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N.RAVINTHIRAN, M.Sc.,
QUALIFIED PERSON

D.Sign

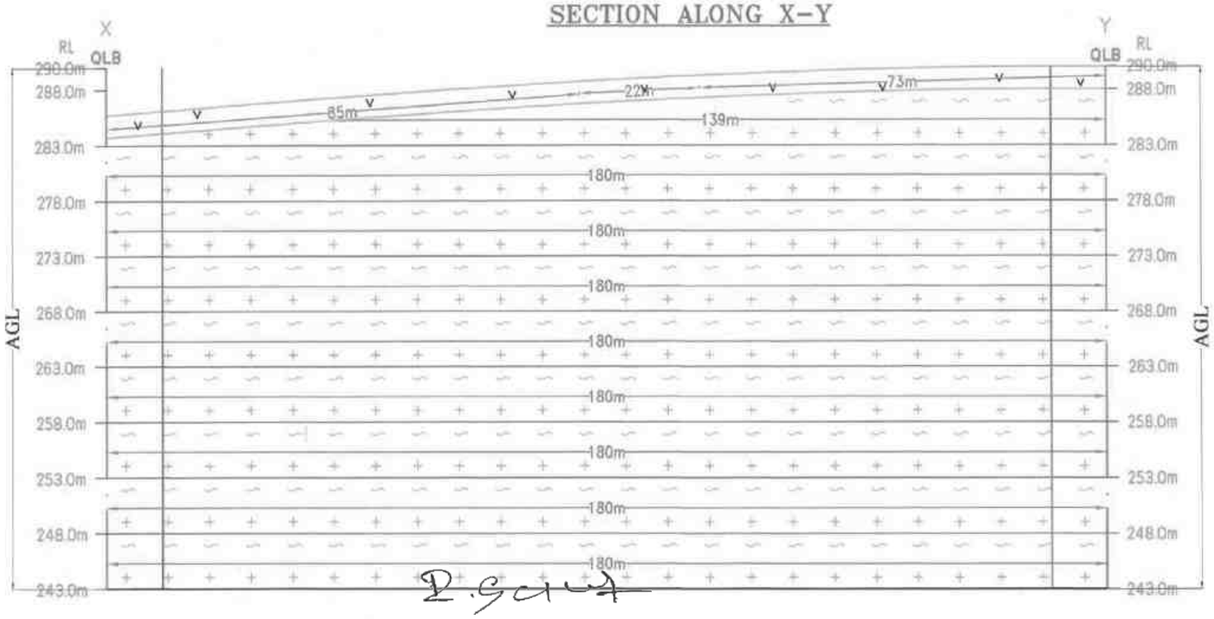
BOUNDARY CO-ORDINATE		
BLOCK -2		
LABEL	LATITUDE	LONGITUDE
1	11° 16' 26.59"N	78° 52' 31.01"E
2	11° 16' 29.88"N	78° 52' 35.92"E
3	11° 16' 27.19"N	78° 52' 37.77"E
4	11° 16' 23.90"N	78° 52' 32.87"E
WGS 84 DATUM		



ASSISTANT DIRECTOR OF GEOLOGY AND MINING * PERAMBALUR

AGL-Above Ground Level

SECTION ALONG X-Y



SECTION ALONG A-B

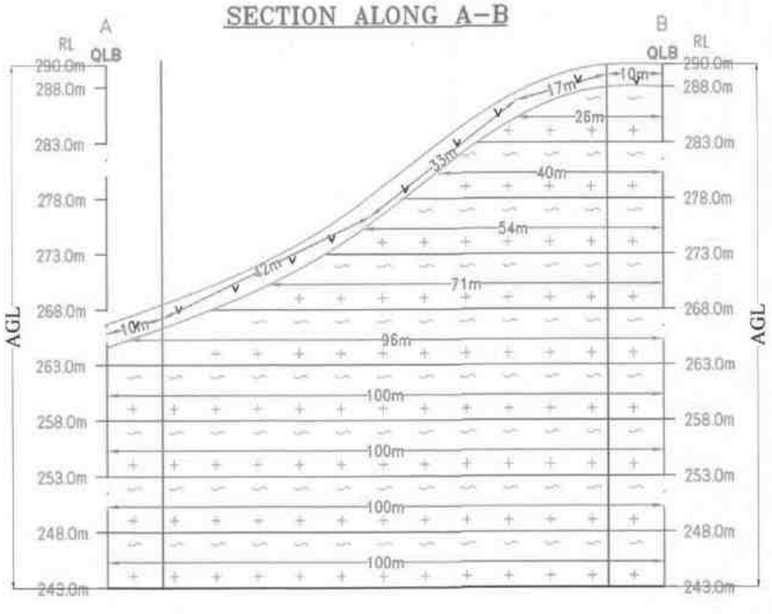


PLATE NO-III
DATE OF SURVEY : 29.04.2025

APPLICANT:
M/s.CHOZHA GROUPS,
OLD NO.1/85, NEW NO.4/155,
MARIYAMMANKOVIL STREET,
ERUTHUKARANPATTI, RAJAJI NAGAR,
ARIYALUR - 621 713.

QUARRY APPLIED LEASE AREA:
S.F.NO : 27/1A (BLOCK-2),
EXTENT : 1.80.0 Ha,
VILLAGE : ELAMBALUR,
TALUK : PERAMBALUR,
DISTRICT : PERAMBALUR.

INDEX

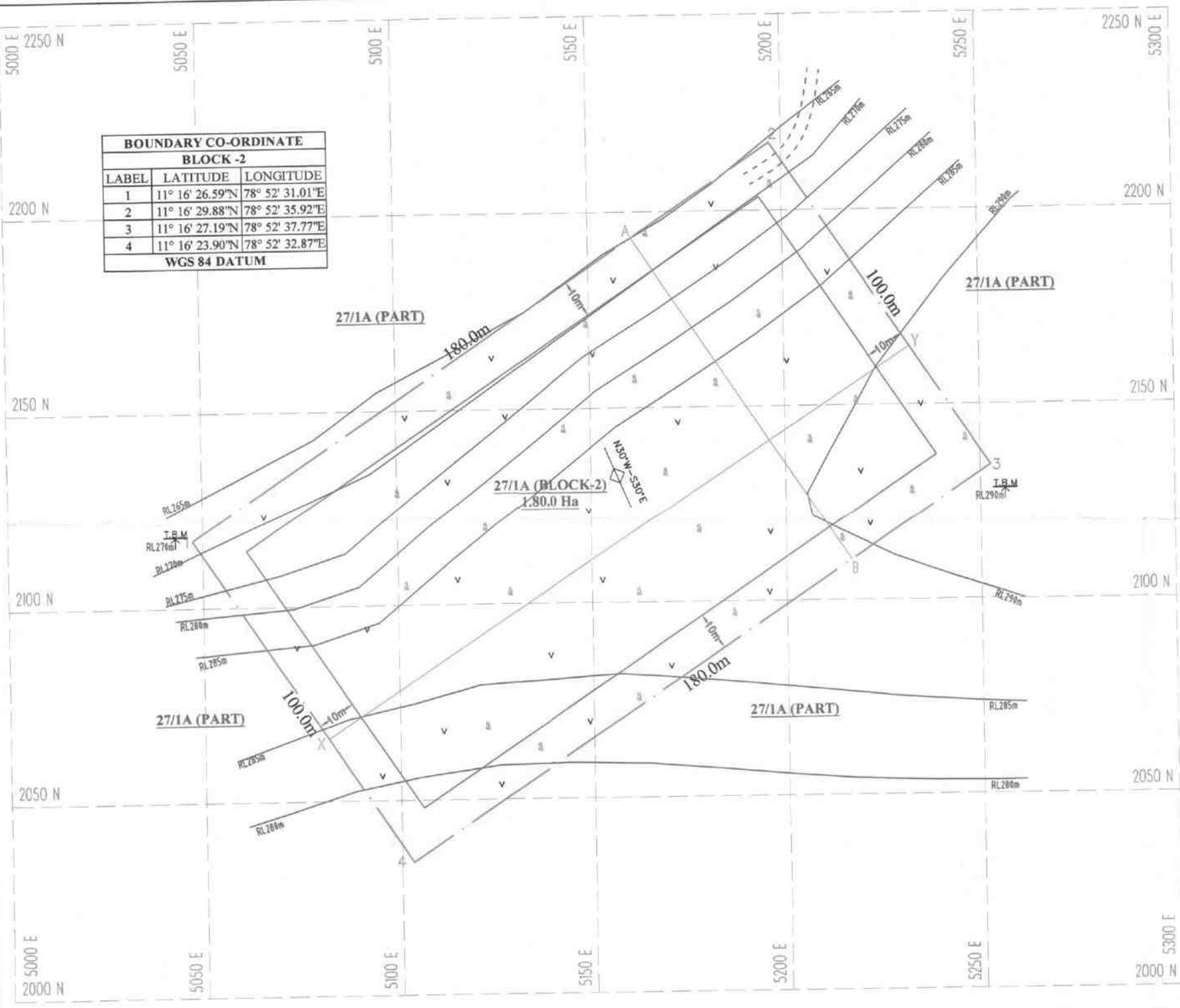
- Q.L. APPLIED BOUNDARY
- 10m SAFETY DISTANCE
- TEMPORARY BENCH MARK (T.B.M)
- APPROACH ROAD
- CONTOUR
- SCRUB
- TOP SOIL
- ROUGH STONE
- STRIKE & DIP

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

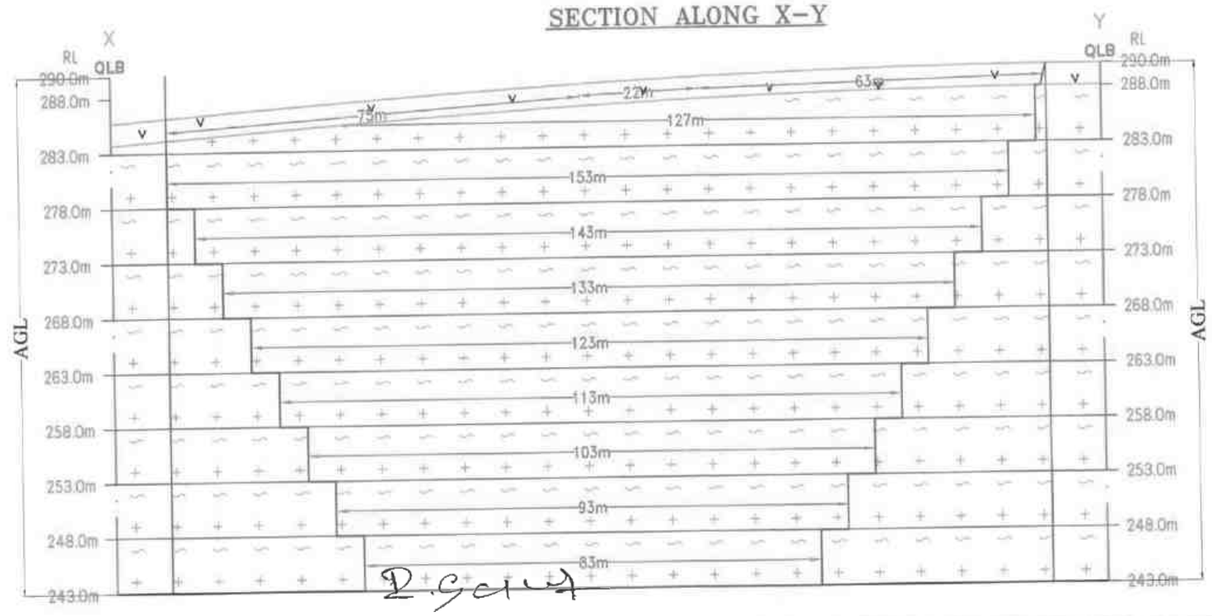
N.RAVINTHIRAN, M.Sc.,
QUALIFIED PERSON

BOUNDARY CO-ORDINATE		
BLOCK -2		
LABEL	LATITUDE	LONGITUDE
1	11° 16' 26.59"N	78° 52' 31.01"E
2	11° 16' 29.88"N	78° 52' 35.92"E
3	11° 16' 27.19"N	78° 52' 37.77"E
4	11° 16' 23.90"N	78° 52' 32.87"E
WGS 84 DATUM		



AGL-Above Ground Level

SECTION ALONG X-Y



SECTION ALONG A-B

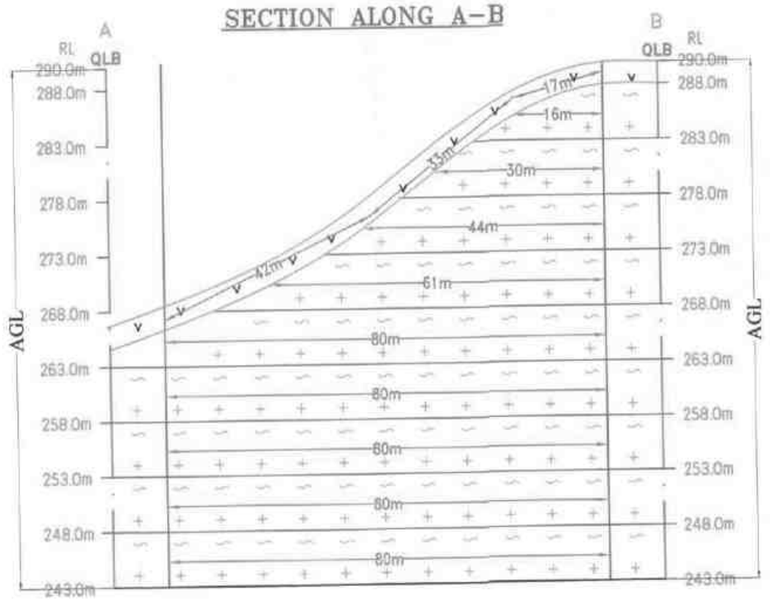


PLATE NO-IV
DATE OF SURVEY : 29.04.2025

APPLICANT:
M/s.CHOZHA GROUPS,
OLD NO.1/85, NEW NO.4/155,
MARIYAMMANKOVIL STREET,
ERUTHUKARANPATTI, RAJAJI NAGAR,
ARIYALUR – 621 713.

QUARRY APPLIED LEASE AREA:
S.F.NO : 27/1A (BLOCK-2),
EXTENT : 1.80.0 Ha,
VILLAGE : ELAMBALUR,
TALUK : PERAMBALUR,
DISTRICT : PERAMBALUR.

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- Q.L. APPLIED BOUNDARY
- 10m SAFETY DISTANCE
- TEMPORARY BENCH MARK (T.B.M)
- APPROACH ROAD
- CONTOUR
- SCRUB
- TOP SOIL
- ROUGH STONE
- STRIKE & DIP

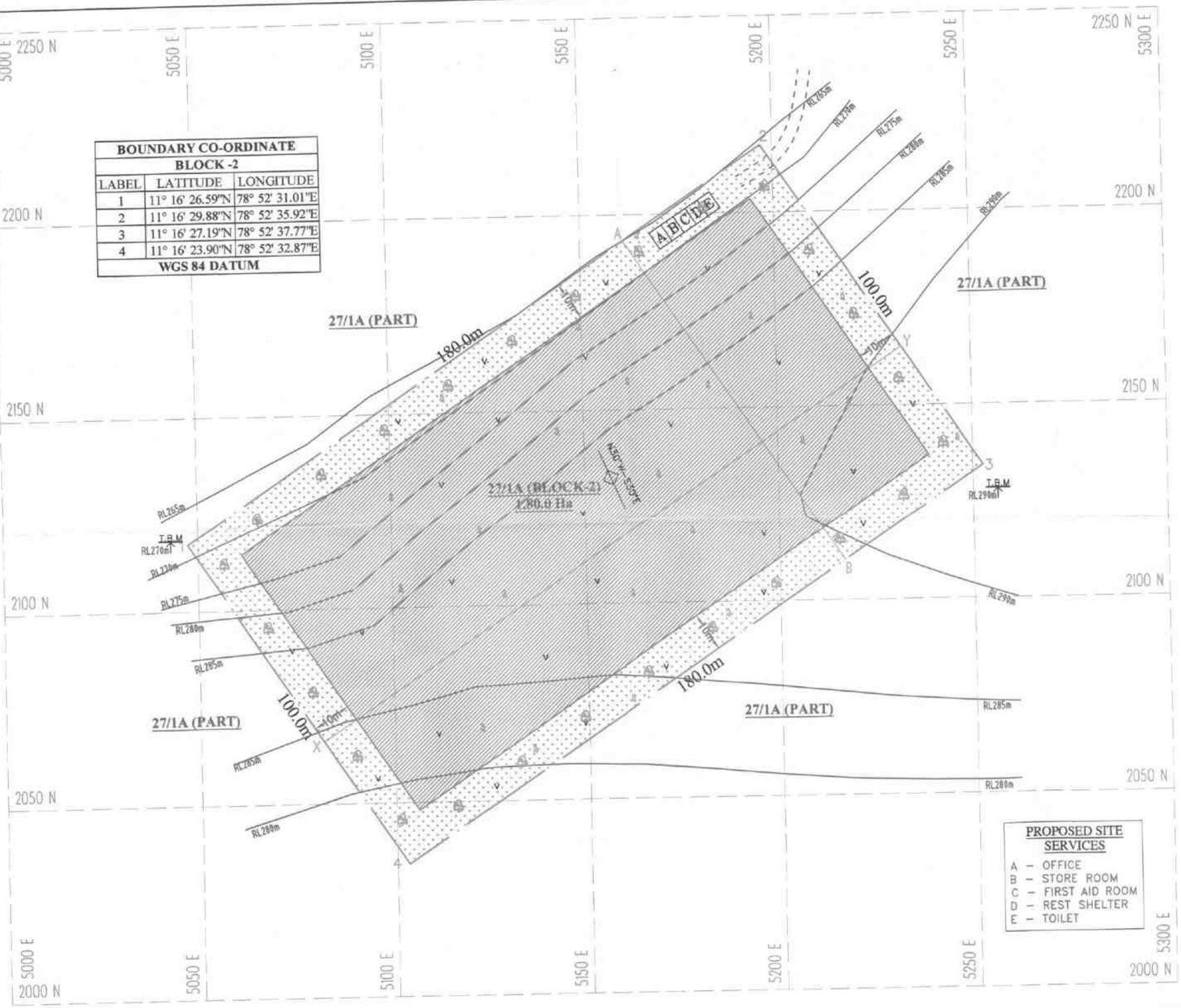
MINEABLE PLAN & SECTIONS
SCALE 1:1000
SECTIONS HOR 1:1000, VER 1:500

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.RAVINTHIRAN, M.Sc.,
QUALIFIED PERSON

ASSISTANT DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

BOUNDARY CO-ORDINATE		
BLOCK -2		
LABEL	LATITUDE	LONGITUDE
1	11° 16' 26.59"N	78° 52' 31.01"E
2	11° 16' 29.88"N	78° 52' 35.92"E
3	11° 16' 27.19"N	78° 52' 37.77"E
4	11° 16' 23.90"N	78° 52' 32.87"E
WGS 84 DATUM		



1st yr Proposed area to be Quarried

2nd yr Proposed area to be Quarried

3rd yr Proposed area to be Quarried

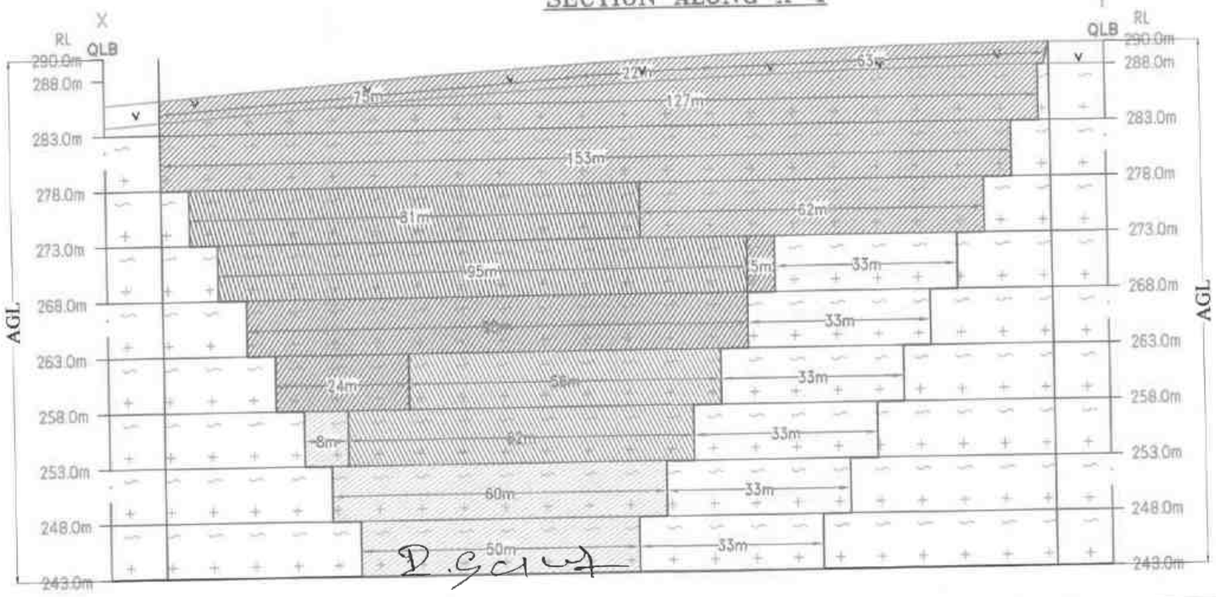
4th yr Proposed area to be Quarried

5th yr Proposed area to be Quarried

Proposed area to be Planted

AGL-Above Ground Level

SECTION ALONG X–Y



SECTION ALONG A–B

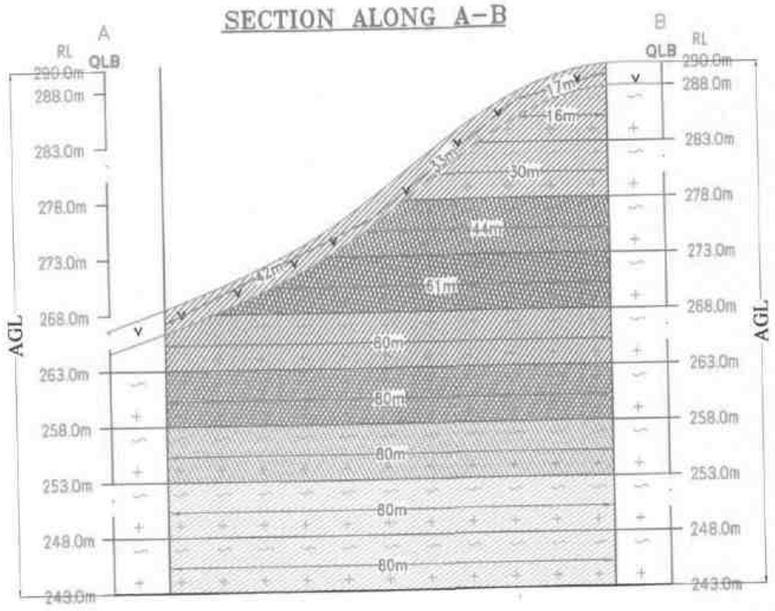


PLATE NO-V

DATE OF SURVEY : 29.04.2025

APPLICANT:

M/s.CHOZHA GROUPS,
OLD NO.1/85, NEW NO.4/155,
MARIYAMMANKOVIL STREET,
ERUTHUKARANPATTI, RAJAJI NAGAR,
ARIYALUR - 621 713.

QUARRY APPLIED LEASE AREA:

S.F.NO : 27/1A (BLOCK-2),
EXTENT : 1.80.0 Ha,
VILLAGE : ELAMBALUR,
TALUK : PERAMBALUR,
DISTRICT : PERAMBALUR.

INDEX

- Q.L. APPLIED BOUNDARY
- 10m SAFETY DISTANCE
- TEMPORARY BENCH MARK (I.B.M)
- APPROACH ROAD
- CONTOUR
- SCRUB
- TOP SOIL
- ROUGH STONE
- STRIKE & DIP

YEARWISE DEVELOPMENT & PRODUTION PLAN & SECTIONS

SCALE 1:1000

SECTIONS HOR 1:1000, VER 1:500

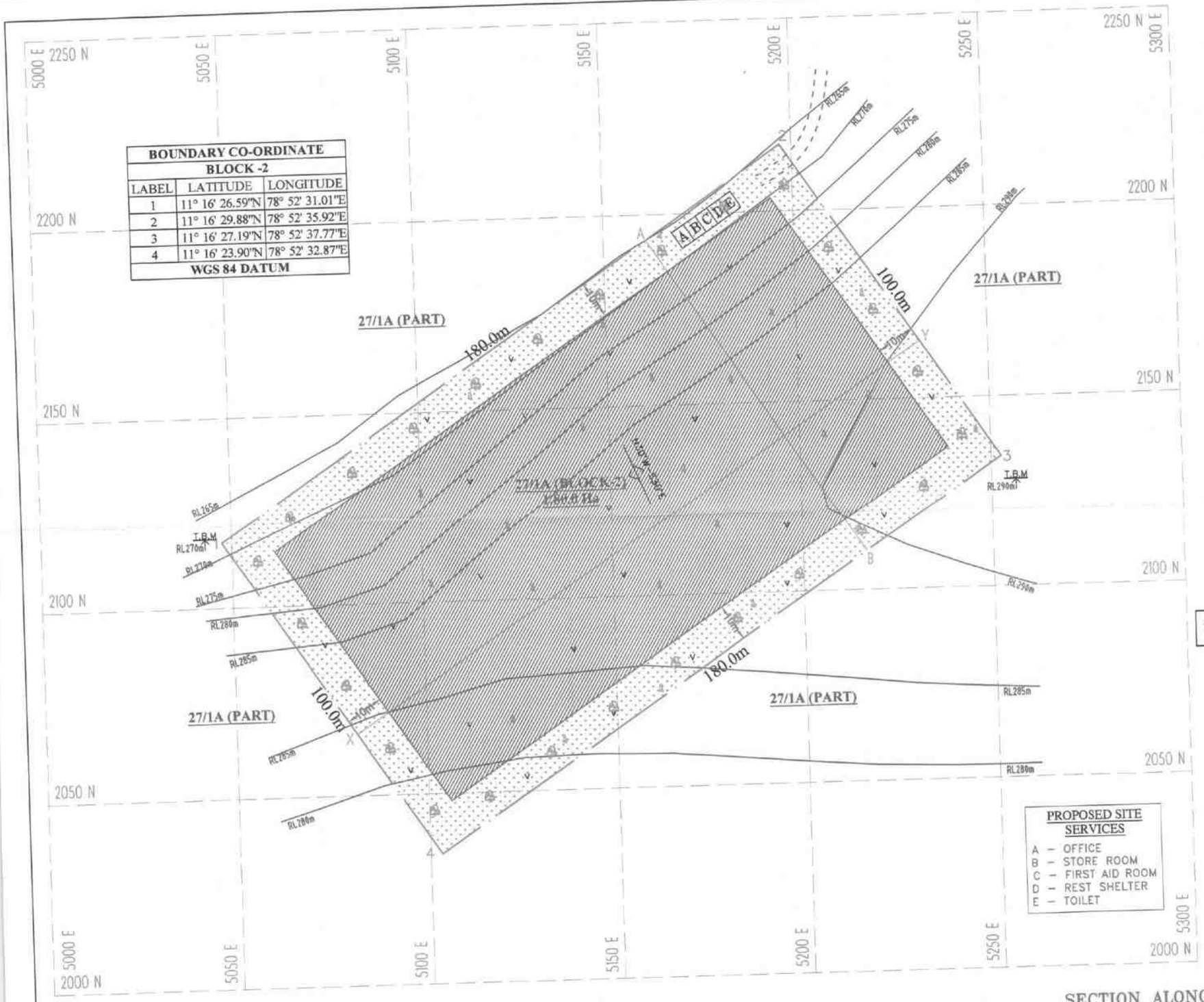
PREPARED BY:

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.RAVINTHIRAN, M.Sc.,
QUALIFIED PERSON

ASSISTANT DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

BOUNDARY CO-ORDINATE BLOCK -2		
LABEL	LATITUDE	LONGITUDE
1	11° 16' 26.59"N	78° 52' 31.01"E
2	11° 16' 29.88"N	78° 52' 35.92"E
3	11° 16' 27.19"N	78° 52' 37.77"E
4	11° 16' 23.90"N	78° 52' 32.87"E
WGS 84 DATUM		



PROPOSED SITE SERVICES

A – OFFICE
B – STORE ROOM
C – FIRST AID ROOM
D – REST SHELTER
E – TOILET

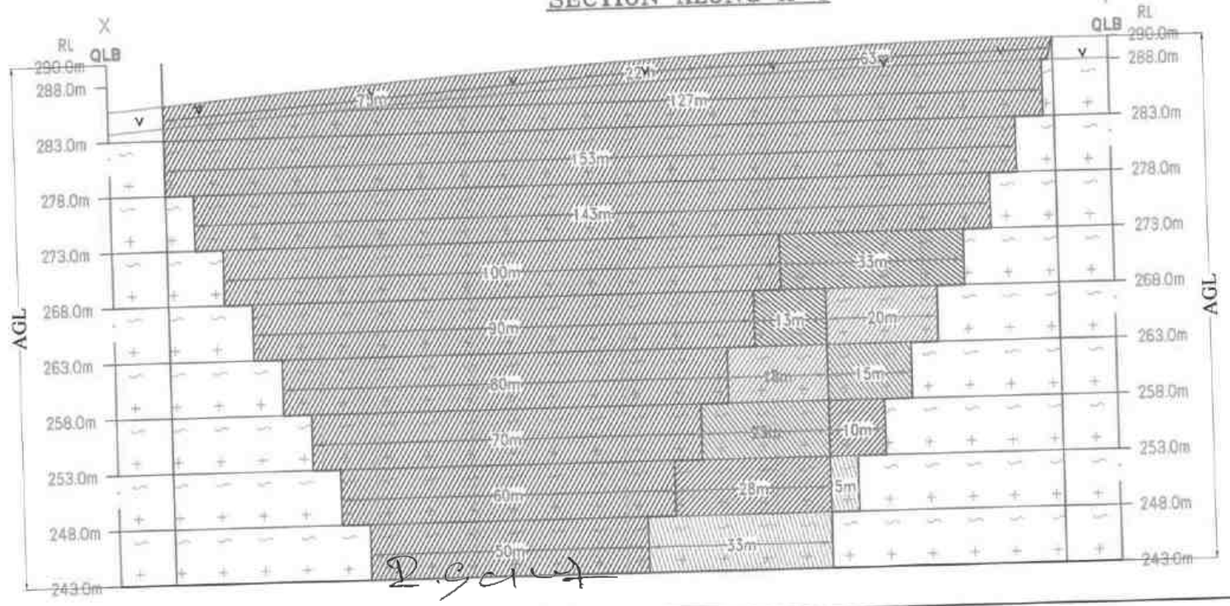
1st 5 Year Proposed area to be Quarried

6th yr Proposed area to be Quarried
7th yr Proposed area to be Quarried
8th yr Proposed area to be Quarried
9th yr Proposed area to be Quarried
10th yr Proposed area to be Quarried

Proposed area to be Planted

AGL-Above Ground Level

SECTION ALONG X-Y



SECTION ALONG A-B

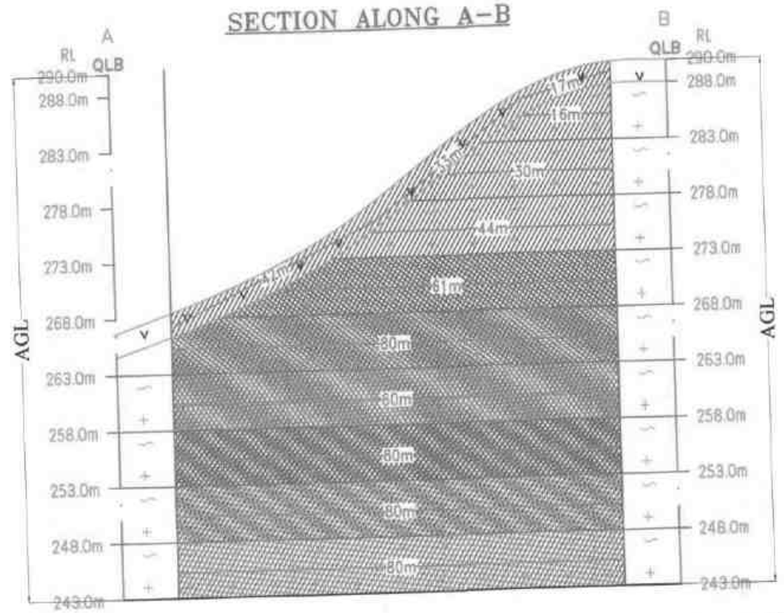


PLATE NO-VA
DATE OF SURVEY : 29.04.2025

APPLICANT:
M/s.CHOZHA GROUPS,
OLD NO.1/85, NEW NO.4/155,
MARIYAMMANKOVIL STREET,
ERUTHUKARANPATTI, RAJAJI NAGAR,
ARIYALUR - 621 713.

QUARRY APPLIED LEASE AREA:
S.F.NO : 27/1A (BLOCK-2),
EXTENT : 1.80.0 Ha,
VILLAGE : ELAMBALUR,
TALUK : PERAMBALUR,
DISTRICT : PERAMBALUR.

INDEX

- Q.L. APPLIED BOUNDARY
- 10m SAFETY DISTANCE
- TEMPORARY BENCH MARK (T.B.M)
- APPROACH ROAD
- CONTOUR
- SCRUB
- TOP SOIL
- ROUGH STONE
- STRIKE & DIP

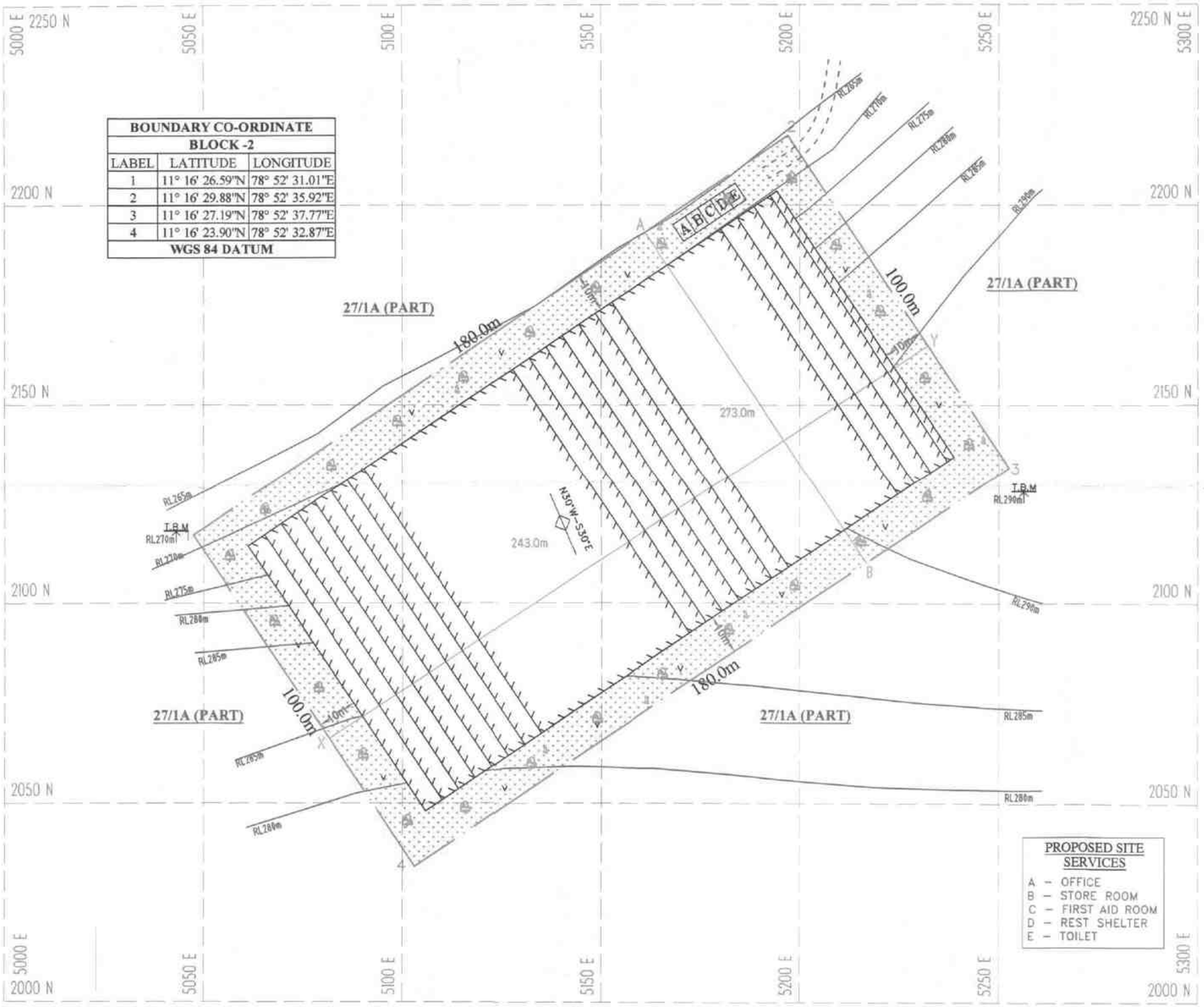
SECOND FIVE YEARYEARWISE DEVELOPMENT & PRODUTION PLAN & SECTIONS
SCALE 1:1000
SECTIONS HOR 1:1000, VER 1:500

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

N.RAVINTHIRAN, M.Sc.,
QUALIFIED PERSON

ASSISTANT DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

BOUNDARY CO-ORDINATE		
BLOCK -2		
LABEL	LATITUDE	LONGITUDE
1	11° 16' 26.59"N	78° 52' 31.01"E
2	11° 16' 29.88"N	78° 52' 35.92"E
3	11° 16' 27.19"N	78° 52' 37.77"E
4	11° 16' 23.90"N	78° 52' 32.87"E
WGS 84 DATUM		



PROPOSED SITE SERVICES

A – OFFICE
B – STORE ROOM
C – FIRST AID ROOM
D – REST SHELTER
E – TOILET

PRESENT & POST LAND USE PATTERN

DESCRIPTION	PRESENT AREA (Ha)	AREA AT THE END OF THIS QUARRYING PERIOD (Ha)
AREA UNDER QUARRYING	Nil	1.28.0
INFRASTRUCTURE	Nil	0.01.0
ROADS	Nil	0.01.0
GREEN BELT	Nil	0.50.0
UN-UTILIZED AREA	1.80.0	Nil
GRAND TOTAL	1.80.0	1.80.0

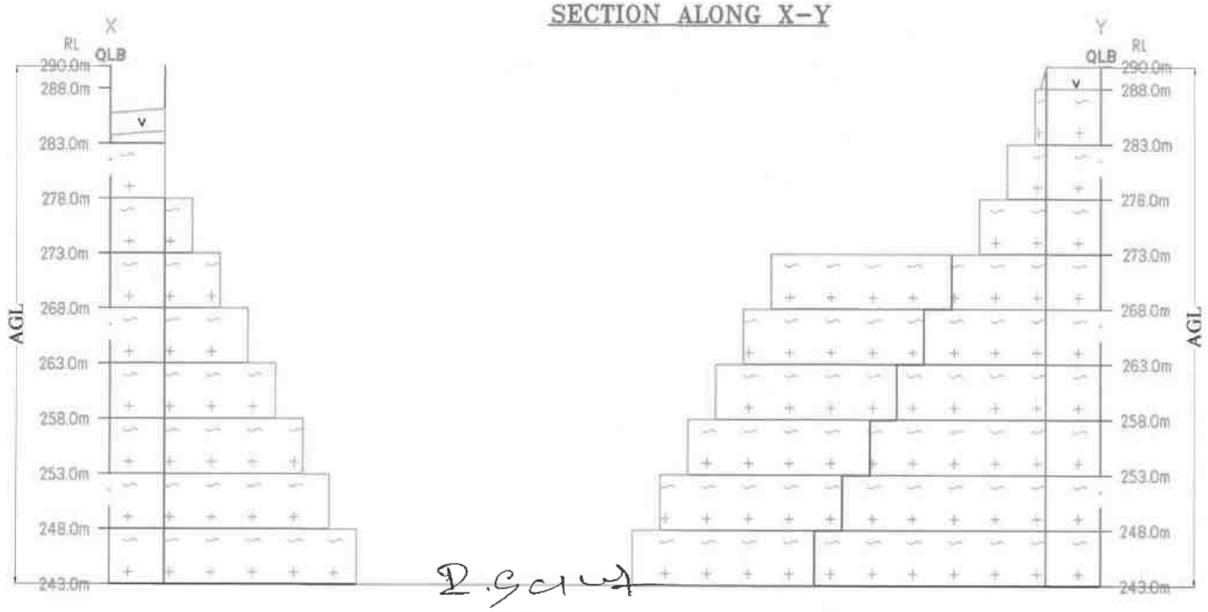
Ultimate Pit Dimension of End of the Mining Plan Period

L160mX80(Avg)mXD47m(Max)
(Above Ground Level)

Proposed area to be Planted

AGL-Above Ground Level

SECTION ALONG X–Y



SECTION ALONG A–B

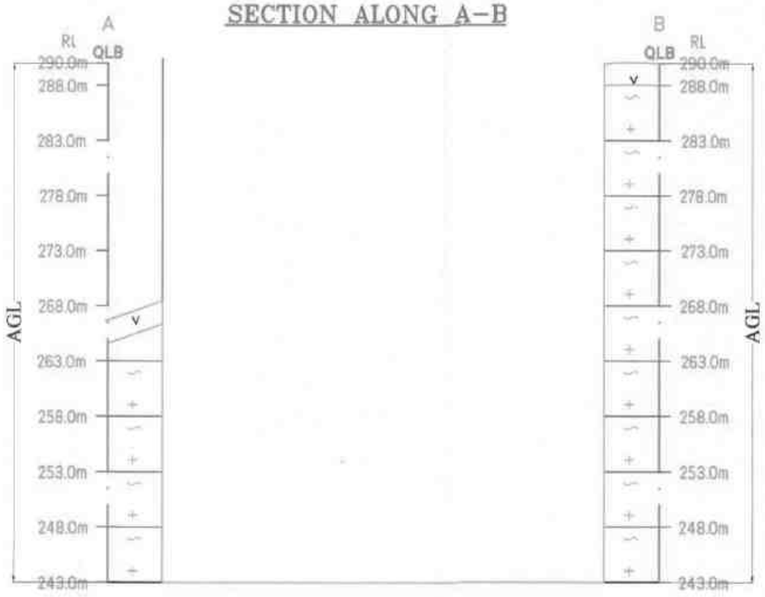


PLATE NO-VI
DATE OF SURVEY : 29.04.2025

APPLICANT:
M/s.CHOZHA GROUPS,
OLD NO.1/85, NEW NO.4/155,
MARIYAMMANKOVIL STREET,
ERUTHUKARANPATTI, RAJAJI NAGAR,
ARIYALUR - 621 713.

QUARRY APPLIED LEASE AREA:
S.F.NO : 27/1A (BLOCK-2),
EXTENT : 1.80.0 Ha,
VILLAGE : ELAMBALUR,
TALUK : PERAMBALUR,
DISTRICT : PERAMBALUR.

INDEX

- Q.L. APPLIED BOUNDARY
- 10m SAFETY DISTANCE
- TEMPORARY BENCH MARK (TBM)
- APPROACH ROAD
- CONTOUR
- SCRUB
- TOP SOIL
- ROUGH STONE
- STRIKE & DIP
- PROPOSED QUARRY PIT

PROGRESSIVE QUARRY CLOSER 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.RAVINTHIRAN, M.Sc.,
QUALIFIED PERSON

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

BOUNDARY CO-ORDINATE		
BLOCK -2		
LABEL	LATITUDE	LONGITUDE
1	11° 16' 26.59"N	78° 52' 31.01"E
2	11° 16' 29.88"N	78° 52' 35.92"E
3	11° 16' 27.19"N	78° 52' 37.77"E
4	11° 16' 23.90"N	78° 52' 32.87"E
WGS 84 DATUM		

27/1A (PART)

180.0m

100.0m

10m

243.0m

S.30°E-N.30°W

T.B.M RL270m

T.B.M RL290m

PROPOSED SITE SERVICES

A – OFFICE
B – STORE ROOM
C – FIRST AID ROOM
D – REST SHELTER
E – TOILET

Ultimate Pit Dimension of End of the Quarry Lease Period

L160mX80(Avg)mXD47m(Max)
(Above Ground Level)

Proposed area to be Planted

AGL-Above Ground Level

SECTION ALONG X–Y

SECTION ALONG A–B

PLATE NO-VII
DATE OF SURVEY : 29.04.2025

APPLICANT:
M/s.CHOZHA GROUPS,
OLD NO.1/85, NEW NO.4/155,
MARIYAMMANKOVIL STREET,
ERUTHUKARANPATTI, RAJAJI NAGAR,
ARIYALUR - 621 713.

QUARRY APPLIED LEASE AREA:
S.F.NO : 27/1A (BLOCK-2).
EXTENT : 1.80.0 Ha,
VILLAGE : ELAMBALUR,
TALUK : PERAMBALUR,
DISTRICT : PERAMBALUR.

INDEX
- Q.L. APPLIED BOUNDARY
- 10m SAFETY DISTANCE
- TEMPORARY BENCH MARK
- APPROACH ROAD
- CONTOUR
- SCRUB
- TOP SOIL
- ROUGH STONE
- STRIKE & DIP
- PROPOSED QUARRY PIT

CONCEPTUAL PLAN & SECTIONS
SCALE 1:1000
SECTIONS HOR 1:1000, VER 1:500

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

N.RAVINTHIRAN, M.Sc.,
QUALIFIED PERSON

ASSISTANT DIRECTOR OF GEOLOGY AND MINING * PERAMBALUR

ANNEXURE-4

From

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

To

M/s.Chozha Groups,
Old No.1/85, New No.4/155,
Mariyammankovil Street,
Eruthukaranpatti, Rajaji Nagar,
Ariyalur - 621 713.

Rc.No.110/G&M/2025 Dated:12.05.2025

Sub: Mines and Minerals - Perambalur District – Rough Stone - e-Tender cum auction conducted for Roughstone quarries in Government lands -M/s. Chozha Groups, quoted highest Bid amount (H1) for the quarry in S.F.No.27/1A (Block -2), OAE of 1.80.0 hectare in Elambalur Village, Perambalur Taluk – Declared as H1 bidder – H1 Bid Amount remitted – Precise Area Communicated – Draft Mining Plan submitted for approval – Details of quarries situated within 500 mts radial distance requested – furnished - Reg.

Ref:
1. G.O.(Ms). No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024.
2. Perambalur District Gazette (Extraordinary) Notification No.1, dated:18.02.2025.
3. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.110/G&M/2025, dated:28.03.2025 &
4. The Assistant Director, Geology and Mining, Perambalur Precise Area Communication letter Rc.No.110/G&M/2025, dated 28.04.2025.
5. M/s. Chozha Groups, letter dated. 08.05.2025.

******

The applicant M/s. Chozha Groups, Perambalur in the reference 5th cited has requested to provide the details of quarries situated within 500 mts radius distance from the proposed lease area.

Hence the details of existing quarries situated within 500 mts radial distance from the subject area are furnished as follows,

1)Existing quarries:

Sl. No	Name of the Owner	Taluk / Village	S.F.Nos	Extent	Rc.No.	Lease Period
1	Thiru.A.Abner Maximus Fernando, S/o. Armstrong Fernando, No.1/766, Chandiragiri Street, Pamban, Ramanathapuram District-623 521	Perambalur /Elambalur	27/1A (Block-9)	1.00.0	R.C.No.138/G&M/2019 dated: 03.02.2021	15.02.2021 to 14.02.2026

2	Thiru.M.Kumar, S/o.Muthuasamy, No.285, Sivan Kovil Back Side, ElambalurTaluk, Perambalur District-621 212	Perambalur /Elambalur	27/1A	1.00.0	R.C.No.137/G& M/2019 dated 18.06.2021	21.06.2021 to 20.06.2026

2)Proposed quarries:

Sl. No	Name of the Owner	Taluk / Village	S.F.Nos.	Extent	Lease Period	Remarks
1	M/s.Chozha Groups, Old No.1/85, New No.4/155, Mariyammankovil Street, Eruthukaranpatti, Rajaji Nagar, Ariyalur – 621 713.	Perambalur/ Elambalur	27/1A (Block -2),	1.80.0	-	Instant Proposal
2	M/s. Elangovan Stone Crusher 1/154, East STreet, Somandapudur, Esanai, Perambalur – 621219	Perambalur/ Elambalur	27/1A (Block-3)	2.50.0		Presently Proposed
3	M/s. K.C.R Bluemetal, No.285, Sivan Kovil Back Side, Elambalur Taluk, Perambalur District-621 212	Perambalur/ Elambalur	27/1A (Block-1)	1.20.0		Presently Proposed

3) Expired quarries

Sl. No	Name of the Owner	Taluk / Village	S.F.Nos.	Extent	Lease Period	Remarks
1	Nil					

4) Abandoned quarries:

Sl. No	Name of the Owner	Taluk / Village	S.F.Nos.	Extent	Lease period	Remarks
1	Nil					

12/05/25

Assistant Director,
Geology and Mining,
Perambalur.

D.Gcl 13/5/25

ANNEXURE-5

TOPOGRAPHICAL VIEW OF ELAMBALUR

ROUGH STONE QUARRY



NAME OF THE APPLICANT :		M/s. CHOZHA GROUPS
EXTENT	:	1.80.0 Ha
S.F.NO	:	27/1A (BLOCK-2)
VILLAGE	:	ELAMBALUR
TALUK	:	PERAMBALUR
DISTRICT	:	PERAMBALUR
STATE	:	TAMIL NADU

27.05.2025

VAO SIGN & SEAL கிராம நிர்வாக அலுவலர்
4, எளம்பலூர்,
பெரம்பலூர் வட்டம்.

Place:

Date:

Scanned with OKEN Scanner

பெரும்பாலான இடங்கள், எனவே தான் இந்த

இடம் நிச்சயமாக அரசுக்கு தான்

அனைத்து மாவட்டங்களிலும் இதே

புதிய கருத்துரை 1/85 , பழைய கருத்துரை 4/155

மாவட்டங்களில் இதேபோல் எந்த, எந்த கருத்துரையில் நான்காகிறதோ

அந்த குறைவாகவும் இயங்கிவரும் அரசாணை (நிலை) எண் 27/1A1A1-ல்

நிலையில் எனவே தான் இந்த அரசாணை 27/1A1A1-ல்

1.80.0 ஹெக்டேர்

187.81.54 ஹெக்டேரில், இதே போன்ற அமைக்க அனுமதி

பெற்றுள்ளனர். ஆனால் அவர்களில் அதில் உள்ள இவரி

சுற்றி 300 மீ சுற்றளவில் இருக்கும் பகுதிகள், அரசு

நிலங்களில், பள்ளிகள், மயான பகுதி மற்றும் உயர்

மின்னழுத்த மின்சார தூண்களை தவிர, 50 மீட்டர்

சுற்றளவில் வீடுகள், அலுவலகம் ஏதுமில்லை எனவும், 50 மீட்டர்

தான் என்பதாலும் தெளிவு வழங்கிறது. எனவே சான்று

வழங்கப்படுகிறது.

27.05.2025

கிராம நிர்வாக அலுவலர்

4, எளம்பலூர்,

பெரம்பலூர் வட்டம்

R. Sathya

Scanned with OKEN Scanner

ANNEXURE-6

ANNEXURE 7A

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

© GOVERNMENT OF TAMIL NADU 2025

Registered No. TN / SRGM – 10

PERAMBALUR DISTRICT GAZETTE

EXTRAORDINARY PUBLISHED BY AUTHORITY

PERAMBALUR, FEBRUARY 18, 2025

No. 1]

[Maasi 06, Kurothi, Thiruvalluvar Aandu - 2056]

NOTIFICATION BY THE COLLECTOR

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

E-mail: (minespmb@gmail.com)

Notice Inviting Tender(NIT)

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

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

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

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

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

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

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

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

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

ANNEXURE – I

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

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

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

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR 3

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

D.Gl47

ASSISTANT DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

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

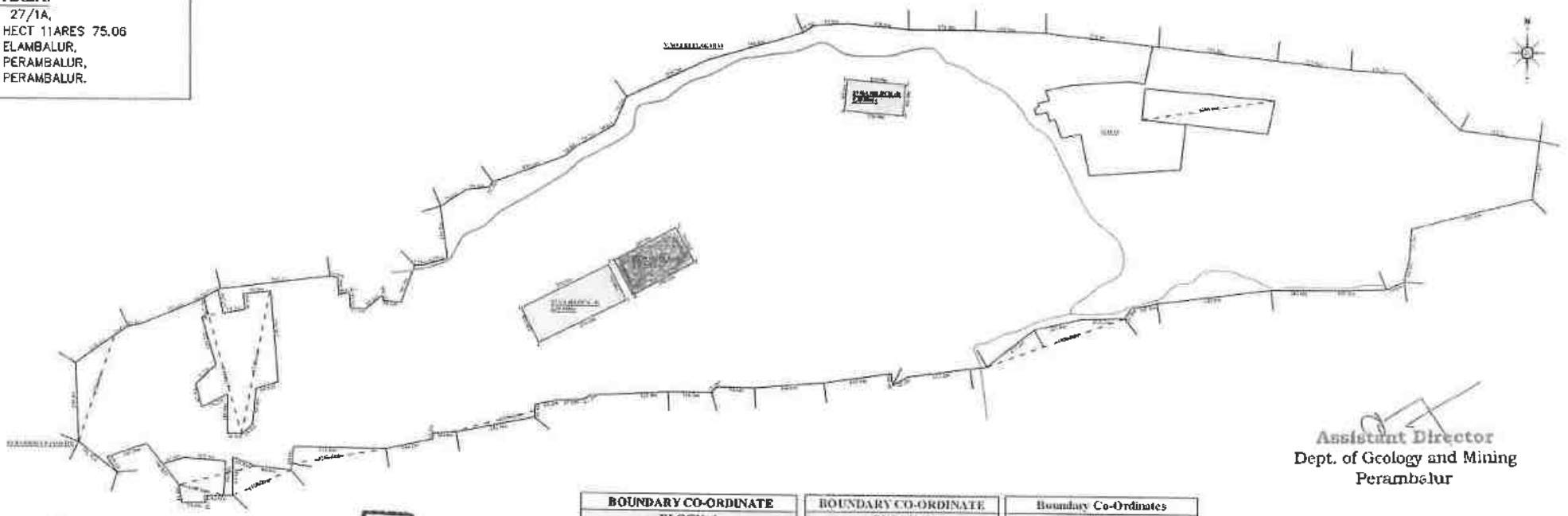
Perambalur,
17th February 2025.

GRACE PACHUAU,
District Collector.

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

LOCATION OF QUARRY LEASE BLOCK AREA:

S.F.NO : 27/1A,
EXTENT : HECT 11ARES 75.06
VILLAGE : ELAMBALUR,
TALUK : PERAMBALUR,
DISTRICT : PERAMBALUR.



BOUNDARY CO-ORDINATE BLOCK-1		
LABEL	LATITUDE	LONGITUDE
1	11°16'43.25"N	78°52'45.95"E
2	11°16'43.35"N	78°52'50.81"E
3	11°16'40.79"N	78°52'50.94"E
4	11°16'40.72"N	78°52'46.01"E
WGS 84 DATUM		

BOUNDARY CO-ORDINATE BLOCK-2		
LABEL	LATITUDE	LONGITUDE
1	11°16'27.86"N	78°52'32.50"E
2	11°16'30.61"N	78°52'36.64"E
3	11°16'27.92"N	78°52'38.40"E
4	11°16'25.17"N	78°52'34.40"E
WGS 84 DATUM		

Boundary Co-Ordinates Block-3		
Label	Latitude	Longitude
1	11°16'23.05"N	78°52'25.16"E
2	11°16'27.43"N	78°52'32.11"E
3	11°16'24.69"N	78°52'33.88"E
4	11°16'20.31"N	78°52'26.94"E
WGS 84 DATUM		

Assistant Director
Dept. of Geology and Mining
Perambalur

LEASE APPLIED AREA

ANNEXURE

ASSISTANT DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

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எண் 2

கிராமத்தில் வருடவாரி புலவாரி கைப்பற்று சாகுபடி அடங்கல் கணக்கு

நில அளவை எண் (1)	உட்பிரிவு எண். (2)	பரப்பு (3)	தீர்வை (4)	ஒரு போகம் தள்ளுபடி போகம் (5)	கைப்பற்று தாரருடைய பெயரும் எண்ணும் அல்லது அனுபோக தாரருடைய பெயர். (6)	கிராமத்தின் பெயர் மாவட்டம் எழுதுவதாக இருந்தால் பயிரிடப்பட்டுள்ளதா (7)	முதல் போகம். எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது (8)	பயிரின் பெயர் (9)	பயிரை புறுவகை யாக பிரி (10)	உண்மையான பாய்ச்சல் ஆகாரம். (11)	விளைச்சல் ஆகு விழுக்காடு (12)
27	(illegible)	1.00									

எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது (13)	பயிரின் பெயர். (14)	பயிரை / தழுவலாக பார். (15)	உண்மையான பாய்ச்சல் ஆகாரம் (16)	விளைச்சல் ஆகு விழுக்காடு (17)	கீழ்க்கண்டவைகளில் ஒன்றை குறிப்பிடவும் (i) புலவகைகள் பகுதிகளில் பயிரிடப்பட்ட நிலங்களுக்கு அல்லது (ii) கைப்பற்று தாரருக்கு நிலங்களில் சாகுபடியில் இல்லாத நிலம் (iii) முந்தைய பாகுபாடு பயிர்கள் உள்ளிட்டவை எதுவும் பயிரிடப்படாத நிலம் அல்லது பிறவகை நிலங்களில் தரிசாக விடப்பட்டவை. (18)	கீழ்க்கண்டவைகளில் உள்ள நிலத்தில் தரிசாக விடப்பட்டுள்ள பரப்பின் விவரங்கள் அனைத்தும் கண்டறியப்பட்டு பதிவிடப்பட்டுள்ளதா (அ) வளம், (ஆ) பல இயலாத நிலம், (இ) இதர காரியங்களுக்கு பயன் நிலம், (ஈ) (உ) நிலையான மற்றும் இதர வேம் (ஊ) விதைக்கப்பட் சேர்க்கப்படாத பர தோய்ப்புகளும், (எ) (ஏ) இதர தரிசு நிலங்க (19)
					தோல	

ASSISTANT DIRECTOR OF GEOLOGY AND MINING
ANNEXURE

ANNEXURE II

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR TAMILNADU ASSISSA

1	2	3	4	5	6	7	8	9	10	11	12
							ஹெ. ஆ.ச.	மெ.டன்ஸ்	ஹெ. ஆ.ச.		
25	1	25-1	மே	செ	...	8-4	16	1 08	0 22.0	0 24	1472 பச்சை... தென்னை மற்றும் பல்வகை பேர்க்கை...
	2	-2	மே	செ	...	8-4	16	1 08	5 30-5	5 76	1066 தே. ஜோதியம்மாள்.
									5 52.5	6 00	
									3 01-5	...	..... நத்தம் குரி.
26	...	26	அ	புஞ	...	...	...	...	238 43-0	...	..... மலை
27	1A	27-1A	அ	ஜ-வ-த	...	...	...	...	1 70-0	...	..... ஞாயம்.
	1B	-1B	அ	புஞ	...	...	...	...	0 18.0	...	..... மலை.
	1C	-1C	அ	ஜ-வ-த	...	...	...	...			
	2	-2	மே	செ	...	8-4	16	1 08	1 45-5	2 70	380 செ. செல்வராசு.
									241 76-5	2 70	
28	1	28-1	அ	செ	...	8-4	16	1 08	0 35 5	0 39	..... தரிசு.
	2	-2	மே	செ	...	8-4	16	1 08	2 02-5	2 18	124 செ. கந்தசாமி.
	3	-3	மே	செ	...	8-4	16	1 08	1 21-5	1 30	828 பெ. முத்து நா. லட்சுமி அம்மாள்.
				அ					3 59-5	3 87	
29	1A	29-1A	மே	செ புஞ	...	8-4	16	1 08	0 19-0	0 20	1177 க. பொன்னுச் சாமி (1). செ. முத்து சாமி (2).
	1B	1B	மே	செ	...	8-4	16	1 08	0 19-0	0 20	1232 சா. கோவிந்த சாமி (1). சா. பெரிய சாமி (2).
	1C	-1C	மே	செ	...	8-4	16	1 08	0 09.0	0 10	201 சா. கோவிந்த சாமி
	1D	-1D	மே	செ	...	8-4	16	1 08	0 10.0	0 11	647 க. பெரியசாமி.

*. விவரப் பட்டியலைப் பார்க்கவும்.

27/1A - 27/1A - அ.நி.ஏ.5 - 238.43.0 - மண

27/1A - 27/1ALm - அ.நி.ஏ.5 - 237.19.0 - மண

- 3 - 27/1ALm - அ.மண - 1.24.0 - கரம்பு

238.43.0

27/1A - 27/1ALm - அ.நி.ஏ.5 - 225.46.5 - மண

- 4 - 27/1ALm - அ.நி.ஏ.5 - 0.21.0 - மண

- 6 - 27/1ALm - அ.மண - 1.11.5 - ஏனைய மண்

- 7 - 27/1ALm - அ.நி.ஏ.5 - 0.04.0 - மண்

- 8 - 27/1ALm - அ.நி.ஏ.5 - 8.62.0 - மண

- 9 - 27/1ALm - அ.நி.ஏ.5 - 1.74.0 - மண

237.19.0

2/1A - 27/1ALm - அ.நி.ஏ.5 - 200.38.0 - மண

- 5 - 27/1ALm - அ.மண - 2.22.0 - கரம்பு

- 1.21.5 - கரம்பு

- 10 - 27/1ALm - அ.மண - 1.03.0 - கரம்பு

- 11 - 27/1ALm - அ.மண - 1.03.0 - கரம்பு

- 12 - 27/1ALm - அ.மண

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ANNEXURE-7

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TEST REPORT

Report No.	SARL/25/2604	Report Date.	17.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2604	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	$\mu g/m^3$	57.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.2	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	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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

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TEST REPORT

Report No.	SARL/25/2605	Report Date.	17.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2605	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	$\mu g/m^3$	57.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2606	Report Date.	17.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2606	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	05.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2607	Report Date.	17.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2607	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	05.03.2025	Test Completed on	17.03.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2608	Report Date.	17.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2608	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	06.03.2025	Test Completed on	17.03.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.4	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	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2609	Report Date.	17.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2609	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	06.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/25/2610	Report Date.	17.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2610	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	07.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2611	Report Date.	17.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2611	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	07.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2612	Report Date.	17.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2612	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	08.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2613	Report Date.	17.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2613	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	08.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2614	Report Date.	17.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2614	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	08.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2615	Report Date.	17.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2615	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	09.03.2025	Test Completed on	17.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	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

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TEST REPORT

Report No.	SARL/25/2616	Report Date.	17.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2616	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	09.03.2025	Test Completed on	17.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.4	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	$\mu g/m^3$	13.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2617	Report Date.	17.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2617	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	09.03.2025	Test Completed on	17.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.5	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	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2632	Report Date.	24.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2632	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2633	Report Date.	24.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2633	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	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/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2634	Report Date.	24.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2634	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2635	Report Date.	24.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2635	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	12.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2636	Report Date.	24.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2636	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	$\mu g/m^3$	58.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2637	Report Date.	24.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2637	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.3	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	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2638	Report Date.	24.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2638	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	$\mu g/m^3$	61.8	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	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2639	Report Date.	24.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2639	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	$\mu g/m^3$	47.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2640	Report Date.	24.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2640	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	14.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2641	Report Date.	24.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2641	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	$\mu g/m^3$	49.1	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	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/25/2642	Report Date.	24.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2642	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	15.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2643	Report Date.	24.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2643	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	$\mu g/m^3$	63.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2644	Report Date.	24.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2644	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	16.03.2025	Test Completed on	24.03.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.8	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	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2645	Report Date.	24.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2645	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	16.03.2025	Test Completed on	24.03.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2660	Report Date.	31.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2660	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	18.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2661	Report Date.	31.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2661	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	18.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	65.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	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/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2662	Report Date.	31.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2662	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	19.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2663	Report Date.	31.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2663	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	19.03.2025	Test Completed on	31.03.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/2664	Report Date.	31.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2664	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	20.03.2025	Test Completed on	31.03.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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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/25/2665	Report Date.	31.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2665	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	20.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.2	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	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2666	Report Date.	31.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2666	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	21.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2667	Report Date.	31.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2667	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	21.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2668	Report Date.	31.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2668	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	22.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	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

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2669	Report Date.	31.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2669	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	22.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.6	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	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2670	Report Date.	31.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2670	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	22.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2671	Report Date.	31.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2671	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	23.03.2025	Test Completed on	31.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2672	Report Date.	31.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2672	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	23.03.2025	Test Completed on	31.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2673	Report Date.	31.03.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2673	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	23.03.2025	Test Completed on	31.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.9	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	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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Phone Number +91 82208 36377 Email: -**info@shrientanalytical.com**
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TEST REPORT

Report No.	SARL/25/2688	Report Date.	07.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2688	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	$\mu g/m^3$	46.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2689	Report Date.	07.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2689	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	$\mu g/m^3$	60.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2690	Report Date.	07.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2690	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	25.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.8	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	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2691	Report Date.	07.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2691	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	26.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.9	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	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2692	Report Date.	07.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2692	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	26.03.2025	Test Completed on	07.04.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2693	Report Date.	07.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2693	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	26.03.2025	Test Completed on	07.04.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.1	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	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2694	Report Date.	07.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2694	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	27.03.2025	Test Completed on	07.04.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2695	Report Date.	07.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2695	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	$\mu g/m^3$	55.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2696	Report Date.	07.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2696	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	28.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.3	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	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2697	Report Date.	07.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2697	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	28.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2698	Report Date.	07.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2698	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	29.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.6	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	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2699	Report Date.	07.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2699	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	$\mu g/m^3$	51.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2700	Report Date.	07.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2700	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	$\mu g/m^3$	51.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	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

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TEST REPORT

Report No.	SARL/25/2701	Report Date.	07.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2701	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	$\mu g/m^3$	55.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2716	Report Date.	14.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2716	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	01.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2717	Report Date.	14.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2717	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	01.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	62.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2718	Report Date.	14.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2718	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	02.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2719	Report Date.	14.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2719	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	02.04.2025	Test Completed on	14.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2720	Report Date.	14.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2720	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	03.04.2025	Test Completed on	14.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	64.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.0	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	$\mu g/m^3$	14.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2721	Report Date.	14.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2721	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	03.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2722	Report Date.	14.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2722	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	04.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	62.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	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

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TEST REPORT

Report No.	SARL/25/2723	Report Date.	14.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2723	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	04.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2724	Report Date.	14.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2724	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	05.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2725	Report Date.	14.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2725	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	05.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2726	Report Date.	14.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2726	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	05.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2727	Report Date.	14.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2727	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	06.04.2025	Test Completed on	14.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2728	Report Date.	14.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2728	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	06.04.2025	Test Completed on	14.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2729	Report Date.	14.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2729	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	06.04.2025	Test Completed on	14.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2744	Report Date.	21.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2744	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	$\mu g/m^3$	53.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2745	Report Date.	21.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2745	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	08.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2746	Report Date.	21.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2746	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	$\mu g/m^3$	46.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2747	Report Date.	21.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2747	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	09.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2748	Report Date.	21.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2748	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	09.04.2025	Test Completed on	21.04.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2749	Report Date.	21.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2749	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	09.04.2025	Test Completed on	21.04.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2750	Report Date.	21.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2750	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	$\mu g/m^3$	51.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2751	Report Date.	21.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2751	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	10.04.2025	Test Completed on	21.04.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2752	Report Date.	21.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2752	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	$\mu g/m^3$	56.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2753	Report Date.	21.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2753	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	$\mu g/m^3$	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	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2754	Report Date.	21.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2754	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	12.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2755	Report Date.	21.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2755	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	$\mu g/m^3$	67.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2756	Report Date.	21.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2756	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	13.04.2025	Test Completed on	21.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2757	Report Date.	21.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2757	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	13.04.2025	Test Completed on	21.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2772	Report Date.	28.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2772	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	15.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2773	Report Date.	28.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2773	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	15.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2774	Report Date.	28.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2774	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	16.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.3	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	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2775	Report Date.	28.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2775	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	16.04.2025	Test Completed on	28.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2776	Report Date.	28.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2776	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	17.04.2025	Test Completed on	28.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2777	Report Date.	28.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2777	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	17.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2778	Report Date.	28.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2778	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	18.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2779	Report Date.	28.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2779	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	18.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2780	Report Date.	28.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2780	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	19.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2781	Report Date.	28.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2781	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	19.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2782	Report Date.	28.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2782	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	19.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2783	Report Date.	28.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2783	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	20.04.2025	Test Completed on	28.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2784	Report Date.	28.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2784	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	20.04.2025	Test Completed on	28.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.4	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	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2785	Report Date.	28.04.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2785	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	20.04.2025	Test Completed on	28.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2800	Report Date.	05.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2800	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	22.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2801	Report Date.	05.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2801	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	22.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	61.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2802	Report Date.	05.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2802	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	$\mu g/m^3$	51.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2803	Report Date.	05.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2803	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	23.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2804	Report Date.	05.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2804	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	$\mu g/m^3$	53.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2805	Report Date.	05.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2805	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	23.04.2025	Test Completed on	05.05.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.3	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	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2806	Report Date.	05.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2803	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	24.04.2025	Test Completed on	05.05.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2807	Report Date.	05.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2807	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	$\mu g/m^3$	56.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	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/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2808	Report Date.	05.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2808	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	25.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	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

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TEST REPORT

Report No.	SARL/25/2809	Report Date.	05.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2809	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	25.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2810	Report Date.	05.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2810	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	26.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2811	Report Date.	05.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2811	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	$\mu g/m^3$	57.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2812	Report Date.	05.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2812	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	27.04.2025	Test Completed on	05.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2813	Report Date.	05.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2813	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	27.04.2025	Test Completed on	05.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2828	Report Date.	12.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2828	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	29.04.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2829	Report Date.	12.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2829	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	29.04.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	62.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2830	Report Date.	12.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2830	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	30.04.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2831	Report Date.	12.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2831	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	30.04.2025	Test Completed on	12.05.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	64.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2832	Report Date.	12.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2832	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	01.05.2025	Test Completed on	12.05.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	63.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	14.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2833	Report Date.	12.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2833	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	$\mu g/m^3$	48.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2834	Report Date.	12.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2834	Sample Received on	05.05.2025
Sample Collected by	02.05.2025	Test Commenced on	05.05.2025
Sample Collected on	18.04.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.1	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	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2835	Report Date.	12.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2835	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	02.05.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.7	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	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2836	Report Date.	12.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2836	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	03.05.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2837	Report Date.	12.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2837	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	$\mu g/m^3$	49.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2838	Report Date.	12.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2838	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	$\mu g/m^3$	46.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2839	Report Date.	12.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2839	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	$\mu g/m^3$	54.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2840	Report Date.	12.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2840	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	$\mu g/m^3$	60.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/2841	Report Date.	12.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2841	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	$\mu g/m^3$	51.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2856	Report Date.	19.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2856	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	06.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.8	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	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2857	Report Date.	19.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2857	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	06.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2858	Report Date.	19.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2858	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	06.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2859	Report Date.	19.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2859	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	07.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2860	Report Date.	19.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2860	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	07.05.2025	Test Completed on	19.05.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	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

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TEST REPORT

Report No.	SARL/25/2861	Report Date.	19.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2861	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	07.05.2025	Test Completed on	19.05.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.1	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	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.58	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2862	Report Date.	19.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2862	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	08.05.2025	Test Completed on	19.05.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2863	Report Date.	19.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2863	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	08.05.2025	Test Completed on	19.05.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	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	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2864	Report Date.	19.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2864	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	$\mu g/m^3$	53.9	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	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2865	Report Date.	19.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2865	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	09.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2866	Report Date.	19.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2866	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	$\mu g/m^3$	58.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2867	Report Date.	19.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2867	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	$\mu g/m^3$	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	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2868	Report Date.	19.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2868	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	11.05.2025	Test Completed on	19.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2869	Report Date.	19.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2869	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	11.05.2025	Test Completed on	19.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2884	Report Date.	26.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2884	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	13.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2885	Report Date.	26.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2885	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	$\mu g/m^3$	53.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2886	Report Date.	26.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2886	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	14.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.3	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	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2887	Report Date.	26.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2887	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	14.05.2025	Test Completed on	26.05.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	62.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2888	Report Date.	26.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2888	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	15.05.2025	Test Completed on	26.05.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	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

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TEST REPORT

Report No.	SARL/25/2889	Report Date.	26.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2889	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	15.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.0	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	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2890	Report Date.	26.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2890	Sample Received on	19.05.2025
Sample Collected by	02.05.2025	Test Commenced on	19.05.2025
Sample Collected on	16.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2891	Report Date.	26.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2891	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	16.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2892	Report Date.	26.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2892	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	17.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.9	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	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2893	Report Date.	26.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2893	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	17.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2894	Report Date.	26.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2894	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	17.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.8	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	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2895	Report Date.	26.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2895	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	18.05.2025	Test Completed on	26.05.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2896	Report Date.	26.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2896	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	18.05.2025	Test Completed on	26.05.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2897	Report Date.	26.05.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2897	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	18.05.2025	Test Completed on	26.05.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	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	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2930	Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2930	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	20.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2931	Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2931	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	20.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2932	Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2932	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	20.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2933	Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Vadakumadhavi
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2933	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	21.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	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/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2934	Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Mettu theru, Perambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2934	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	21.05.2025	Test Completed on	02.06.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2935	Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Erikarai
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2935	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	21.05.2025	Test Completed on	02.06.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2936	Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2936	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	22.05.2025	Test Completed on	02.06.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2937	Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2937	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	22.05.2025	Test Completed on	02.06.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2938	Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Thanipand
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2938	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	23.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	62.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2939	Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Elambalur
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2939	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	23.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2940	Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2940	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	24.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2941	Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2941	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	$\mu g/m^3$	65.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2942	Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2942	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2943	Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

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

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2943	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

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

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TEST REPORT

Report No.	SARL/25/2944

Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	WATER
Sample Mark	GW 1 - Within Mine Lease area

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2944	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.66	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	916	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	550	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	314	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	84.0	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	25.0	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	210	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	104	-
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	86.2	1000

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TEST REPORT

Report No.	SARL/25/2944

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	186	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	3.35	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.26	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/25/2945

Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	WATER
Sample Mark	GW 2 - Samathuvapuram

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2945	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.42	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1520	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	920	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	338	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	105	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	18.2	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	262	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	76.0	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	338	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	182	1000

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TEST REPORT

Report No.	SARL/25/2945

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	320	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL(DL-0.01)	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.67	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.45	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2946

Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	WATER
Sample Mark	GW 3- Thanipand

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2946	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.71	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1502	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	902	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	394	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	78.4	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	47.5	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	196	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	198	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	386	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	245	1000

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TEST REPORT

Report No.	SARL/25/2946

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	238	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL(DL-0.01)	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	1.75	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.38	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2947

Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	WATER
Sample Mark	GW 4- Elambalur

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2947	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.39	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1120	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	675	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	452	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	124	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	34.1	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	310	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	142	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	280	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	124	1000

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TEST REPORT

Report No.	SARL/25/2947

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	156	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL(DL-0.01)	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.12	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.31	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2948	Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	WATER
Sample Mark	GW 5- Vadakumadhavi

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2948	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.84	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1915	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1150	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	254	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	50.4	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	30.7	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	126	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	128	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	398	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	384	1000

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TEST REPORT

Report No.	SARL/25/2948

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	310	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.04	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.45	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.19	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2949

Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	WATER
Sample Mark	GW 6- Mettu theru, Perambalur

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2949	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.56	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	2074	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1246	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	485	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	104	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	54.0	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	260	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	225	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	414	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	386	1000

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TEST REPORT

Report No.	SARL/25/2949

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	392	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	3.28	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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Shrient Analytical & Research Labs Pvt. Ltd Chennai - 45

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2950

Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	WATER
Sample Mark	GW 7- Erikarai

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2950	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.62	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	864	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	520	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	274	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	52.8	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	34.1	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	132	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	142	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	154	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	138	1000

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TEST REPORT

Report No.	SARL/25/2950

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	98.6	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL(DL-0.01)	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.54	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.18	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/25/2951

Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	WATER
Sample Mark	SW 1-Koneri Ar – Up Stream

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2951	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.06.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result
A.	**Physical parameters**			
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.66
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1346
B.	**Chemical parameters**			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	810
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	490
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	98.0
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	58.8
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	245
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	245
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	210
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	243

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TEST REPORT

Report No.	SARL/25/2951

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	202
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL(DL-0.01)
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.78
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.36
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	32.5
20	Bio Chemical Oxygen Demand 3 Days at 27°c	IS 3025 (Part 44): 1993	mg/L	7.2
21	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	25
22	Dissolved Oxygen	IS 3025 (Part 38): 1989	mg/L	6.1

Remarks: BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2952

Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	WATER
Sample Mark	SW 2-Koneri Ar – Down Stream

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2952	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.06.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result
A.	**Physical parameters**			
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.45
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1105
B.	**Chemical parameters**			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	670
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	450
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	123
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	34.1
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	308
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	142
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	272
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	136

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TEST REPORT

Report No.	SARL/25/2952

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	162
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL(DL-0.01)
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.69
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.35
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	25.4
20	Bio Chemical Oxygen Demand 3 Days at 27°c	IS 3025 (Part 44): 1993	mg/L	5.9
21	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	16
22	Dissolved Oxygen	IS 3025 (Part 38): 1989	mg/L	6.3

Remarks: BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2953

Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	SOIL
Sample Mark	S1-Within Mine Lease area

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2953	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	-	7.42
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	119.4
3	Dry matter content	IS 15106: 2002	%	96.34
4	Water Content	IS 15106: 2002	%	3.66
5	Organic Matter	IS 2720: Part 22: 1972	%	0.94
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	165
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Sandy loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	62.47
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	26.56
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	10.97
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.82
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	454
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	312
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	%	15.8
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	38

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2954

Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	SOIL
Sample Mark	S2-Samathuvapuram

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2954	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	-	6.55
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	80.2
3	Dry matter content	IS 15106: 2002	%	96.48
4	Water Content	IS 15106: 2002	%	3.52
5	Organic Matter	IS 2720: Part 22: 1972	%	0.66
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	228
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	%	46.89
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	36.57
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	16.54
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.54
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	622
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	425
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	16.7
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	32

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2955

Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	SOIL
Sample Mark	S3-Thanipand

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2955	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	-	7.01
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	95.7
3	Dry matter content	IS 15106: 2002	%	97.34
4	Water Content	IS 15106: 2002	%	2.66
5	Organic Matter	IS 2720: Part 22: 1972	%	0.72
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	172
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty clay loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	20.33
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	40.24
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	39.43
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.69
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	590
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	484
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	35

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/25/2956

Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	SOIL
Sample Mark	S4-Elambalur

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2956	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	-	7.49
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	66.48
3	Dry matter content	IS 15106: 2002	%	96.25
4	Water Content	IS 15106: 2002	%	3.75
5	Organic Matter	IS 2720: Part 22: 1972	%	0.68
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	184
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	%	47.64
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	30.26
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	22.10
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.31
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	670
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	368
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	17.5
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	34

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

END OF THE REPORT

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

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TEST REPORT

Report No.	SARL/25/2957

Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	SOIL
Sample Mark	S5-Vadakumadhavi

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2957	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	-	6.94
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	73.25
3	Dry matter content	IS 15106: 2002	%	95.33
4	Water Content	IS 15106: 2002	%	4.67
5	Organic Matter	IS 2720: Part 22: 1972	%	0.86
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	210
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	%	36.59
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	44.22
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	19.19
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.19
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	564
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	326
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	16.6
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	35

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2958

Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	SOIL
Sample Mark	S6-Mettu theru, Perambalur

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2958	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	-	7.29
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	78.95
3	Dry matter content	IS 15106: 2002	%	97.32
4	Water Content	IS 15106: 2002	%	2.68
5	Organic Matter	IS 2720: Part 22: 1972	%	0.78
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	204
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	%	47.58
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	30.62
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	21.80
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.21
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	690
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	378
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	17.5
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	34

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

END OF THE REPORT

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TEST REPORT

Report No.	SARL/25/2959

Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	SOIL
Sample Mark	S7-Erikarai

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2959	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.05
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	75.24
3	Dry matter content	IS 15106: 2002	%	96.55
4	Water Content	IS 15106: 2002	%	3.45
5	Organic Matter	IS 2720: Part 22: 1972	%	0.96
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	230
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	%	37.22
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	44.35
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	18.43
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.29
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	584
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	346
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	16.6
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	38

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

END OF THE REPORT

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TEST REPORT

Report No.	SARL/25/2960

Report Date.	02.06.2025

Customer Name & Address	Rough Stone Quarry of M/s. Chozha Groups at S.F. No. 27/1A(Block-2) over an Area of 1.80.0 Ha. at Elambalur Village, Perambalur Taluk, Perambalur District.
Sample Description	NOISE LEVEL DATA

Customer Reference	As per work order	Sampling Method	SARL/IOP/023
Sample Reference No	SARL/NO/CHE-2960	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	44.0	43.8	43.3	40.1	39.6	48.0	45.6
07.00	45.8	43.4	44.6	42.1	41.5	48.8	43.3
08.00	47.2	44.9	45.4	43.8	45.3	48.0	45.9
09.00	45.6	50.3	50.5	48.4	49.5	46.1	47.8
10.00	50.3	52.4	52.5	53.4	49.8	47.9	47.9
11.00	46.6	51.5	47.4	54.9	45.6	48.8	46.8
12.00	47.2	52.1	46.6	53.8	47.7	47.0	45.8
13.00	49.1	51.3	53.6	51.6	45.5	50.9	45.0
14.00	46.5	50.9	53.8	49.2	46.3	48.0	43.3
15.00	46.9	50.3	51.5	49.8	48.5	49.8	45.2
16.00	44.2	43.1	53.3	56.3	50.6	49.0	49.0
17.00	46.4	42.5	51.9	53.8	51.8	45.9	45.8
18.00	44.9	44.9	47.9	55.4	49.5	47.9	43.3
19.00	43.3	46.5	44.9	50.3	50.3	49.9	44.8
20.00	44.0	43.0	43.1	45.1	46.2	48.0	45.9
21.00	41.4	41.5	42.6	44.6	45.6	46.8	44.2
22.00	42.0	42.1	41.3	41.5	43.3	49.0	43.3
23.00	43.1	41.3	39.9	40.6	42.5	47.8	44.0
24.00	40.2	40.1	40.8	40.3	40.6	45.8	40.9
01.00	41.9	39.5	40.6	40.9	39.5	45.1	42.8
02.00	39.8	39.6	40.0	39.0	39.6	44.0	42.2
03.00	38.9	39.9	39.1	40.0	40.8	41.9	39.0
04.00	40.2	40.2	41.8	40.6	42.1	44.1	40.1
05.00	42.1	39.1	43.0	42.4	41.3	43.3	41.2

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TEST REPORT

Report No.	SARL/25/2960

Report Date.	02.06.2025

	N1	N2	N3	N4	N5	N6	N7
DAY EQUIVALENT	**46.4**	**48.7**	**50.0**	**51.7**	**48.1**	**48.4**	**45.9**
NIGHT EQUIVALENT	**41.2**	**40.3**	**41.0**	**40.8**	**41.4**	**45.7**	**42.0**
DAY & NIGHT EQUIVALENT	**45.2**	**47.2**	**48.5**	**50.2**	**46.8**	**47.7**	**45.0**

Remarks:

LOCATIONS:

N1-Within Mine Lease Area
N2-Samathuvapuram
N3-Thanipand
N4-Elambalur
N5-Vadakumadhavi
N6-Mettu theru, Perambalur
N7-Erikarai

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

*****END OF THE REPORT*****

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

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ANNEXURE-8

National Accreditation Board for Testing and Calibration Laboratories

NABL

CERTIFICATE OF ACCREDITATION

SHRIENT ANALYTICAL & RESEARCH LABS PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

416/15, DHARGAS ROAD, PERUNGALATHUR, WEST TAMBARAM, CHENNAI, KANCHIPURAM, TAMIL NADU, INDIA

in the field of

TESTING

Certificate Number: TC-12339

Issue Date: 30/09/2025 **Valid Until:** 29/09/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: SHRIENT ANALYTICAL AND RESEARCH LABS PRIVATE LIMITED

Signed for and on behalf of NABL

Anuja Anand
Director

Chakravarthy T. Kannan
Chief Executive Officer

ANNEXURE-9

அனுப்புநர்

திருமதி.கி. ராணி
M.Sc, B.Ed, M.Phil

தலைமை ஆசிரியர்
அரசு மேல்நிலைப்பள்ளி,
எளம்பலூர் – 621 220,
பெரம்பலூர் மாவட்டம்.

பெறுநர்

மாண் 1/85 ; மா.எண் 4/155,
மரியம்மன் கோவில் தெரு,
அரசுமருத்துவமனை, ராமலிங்க நகர்,
அரியலூர் - 621713

ந.க.எண் 04/2025-2026 நாள் 28.05.2025

ஐயா,

பொருள்:- எளம்பலூர் அரசு மேல் நிலைப் பள்ளி சுற்றுப்புறங்
– காண மேலை, நாற்காலி வழங்க கோருதல்
– சார்பு

எளம்பலூர் அரசு மேல் நிலைப் பள்ளியில் 338 மாணவ/
மாணவிகள் பயின்று வருகின்றனர். 16 சுற்றுப்பு அறைகள்
வருகை பதிவுகள் குறைந்தவைகளும், மாணவர்களின் பாட
மேலை, மற்றும் நாற்காலி (கிருமி) 16 சேர்த்து வழங்கி.
உதவுமாறு தாழ்மையுடன் கேட்டுக் கொள்கிறோம்

திருமதி 28/05/25
தலைமை ஆசிரியர்
அரசு மேல்நிலைப்பள்ளி,
எளம்பலூர் – 621 220,
பெரம்பலூர் மாவட்டம்.

R. ராணி

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