

EXECUTIVE SUMMARY FOR PROPOSED ROUGH STONE AND GRAVEL QUARRY CATEGORY – B1 (CLUSTER AREA – 8.97.0 Ha.)

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

ToR Identification No. TO25B0108TN5538111N (F.No. 12578), dated 11/01/2026

PROPOSED QUARRY LEASE DETAILS	
SURVEY NOS	496/2, 98/1A, 98/1B, 98/1C, 98/1D1, 98/2A and 98/2B
VILLAGE	PALLI
TALUK	CHEYAR
DISTRICT	TIRUVANNAMALAI
EXTENT	3.52.0 ha
CLUSTER EXTENT	8.97.0 ha
PROPOSED PRODUCTION	7,42,225 m ³ of Rough Stone 57,976 m ³ of Gravel
LAND	PATTA LAND

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

Category of the Project: B1 Cluster Mining, Total Cluster Area – 8.97.0 Ha

Baseline Monitoring Period – March to May 2025

APPLICANT

Tmt. T. POORNIMA,

W/o.TAMILOLI,

NO.1/62, NORTH STREET, PANRUTTI,

KANCHIPURAM DISTRICT – 631 604.

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/26-29/RA 0478, Valid Until - January 3, 2029 Contact: 97502 23535 & 94446 54520 Email: infoglobalmining@gmail.com, globalminingsolutionssalem@gmail.com	M/s. SHRIENT ANALYTICAL & RESEARCH LABS PRIVATE LIMITED (NABL Accredited Testing Laboratory) Valid Until -29.09.2029 #416/15, Dhargas Road, Perungalathur, West Tambaram, Chennai, Tamil Nadu, India.

EXECUTIVE SUMMARY

1.1 INTRODUCTION

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

This proposal is towards obtaining environmental clearance for Rough Stone Quarry located at S. F. No. 496/2, 98/1A, 98/1B, 98/1C, 98/1D1, 98/2A and 98/2B of Palli Village, Cheyyar Taluk, Tiruvannamalai District, Tamil Nadu State., for production capacity of 7,42,225 m³ of Rough Stone and 57,976 m³ of Gravel for the period of 5 years with ultimate depth up to 52 m BGL. The mining plan has prepared and same was approved by Assistant Director, Department of Geology and Mining, Tiruvannamalai, vide Rc.No.165/Kanimam/2025, Dated 18.07.2025.

As per EIA notification, 2006 and its subsequent amendments the proposed "Rough Stone of T.Poornima" is falls under Schedule 1(a) Mining of Minerals. It is further classified under Category B1 due to the overall extent of cluster area is 3.52.00 Ha which is >5 Ha. The ToR for the preparation of EIA/EMP was approved vide ToR identification number TO25B0108TN5538111N, Dated: 11/01/2026. This report has been prepared in line with the approved TOR for maximum excavation of 7,42,225 m³ of Rough Stone and 57,976 m³ of Gravel for the period of 5 years with ultimate depth up to 52 BGL.

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S.No.	Description	Status/Remarks
1.	Sector	1(a), non-coal mining
2.	Category of the project	B1
3.	Proposed mineral	Rough Stone
4.	Type of Lease	Government Land
5.	Extent of the lease	3.52.0 Ha and the cluster area within 500 m radius including the proposed mine is 8.97.0 Ha > 5 Ha
6.	Proposed depth of Mining	52 m BGL for five years
7.	Method of mining	Opencast Mechanized
8.	Proposed lease period	5 Years
9.	Proposed Environmental Clearance	5 Years
10.	Proposed production quantity for Five years	7,42,225 m ³ of Rough Stone and 57,976 m ³ of Gravel

Tmt.T.Poornima, is an individual with sound experience in the identification, quarrying and marketing of Rough Stone. The proposed land is a government land and attached as **Annexure 6**.

1.2 LOCATION

This project site is located in S.F.Nos. 496/2, 98/1A, 98/1B, 98/1C, 98/1D1, 98/2A and 98/2B of Palli Village, Cheyyar Taluk, Tiruvannamalai District, Tamil Nadu State with Latitude : 12°42'55.87"N to 12°43'04.85"N and Longitude : 79°35'46.33"E to 79°35'54.15"E with Survey of India Topo Sheet No.57 P/10. To conduct the study, the proposed mine lease area (core zone) and an impact zone of 10 km radius (called buffer zone) around the proposed mine site were considered. The EIA report is based on three months baseline data (i.e. March 2025 to May 2025)

1.3 GEOLOGY

The rock type noticed in the area for lease is Charnockite which contains mostly Quartz and Feldspar with some ferromagnesian minerals. The Charnockite is part of

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peninsular Gneisses, a high-grade metamorphic rock. The strike of the Charnockite formation is N70°W –S70°E with dipping towards SE70°.

1.4 PROJECT DESCRIPTION

This is a proposed Rough Stone quarry by Opencast Mechanized mining method with drilling and blasting. The quarrying is restricted up to a depth of 52 m below ground level. The geological reserves are estimated to be 17,58,800 m³ of Rough Stone and 70,352 m³ of Gravel. The mineable reserve calculated by deducting 10m safety distance and bench loss. The mineable reserves are 7,42,225 m³ of Rough Stone and 57,976 m³ of Gravel which will be recovered at the rate of 100% recovery upto a depth of 52 m Below ground level for the period of ten years.

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

S.No.	Type of Detail	Description
1	Sector	1(a) Non coal mining
2	Fresh/Existing project	Fresh Project
3	Category	B1
4	Nature of mineral	Minor mineral
5	Production	7,42,225 m ³ of Rough Stone and 57,976 m ³ of Gravel
6	Life	5 years
7	Waste generation and management	There is no overburden anticipated during the quarrying operation. Hence, no waste generation.
8	Bench height and width	Height and Width – 5m
9	Ultimate pit depth	52 m (BGL)
10	End use	Rough Stone will be loaded into tippers to needy buyers for producing aggregates, M-sand.

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1.5 PROJECT REQUIREMENTS

The requirements of the project is given below.

S.No.	Nature of requirement	Description
1	Water requirement	Total water requirement of 5.0 KLD which will be procured from the outside agencies. Out of 1.5 KLD drinking water requirements, Green belt development is 1.5 KLD and dust suppression is 2.0 KLD.
2	Power requirement	No electricity is needed for mining operations, for office demands, it will be met from the state grid. Total Fuel requirement is 6,03,443 L for entire life of the project.
3	Manpower requirement	33 Nos.
4	Financial requirement	The total project cost as per PFR will be INR 135.70 lakhs including Operational cost, Fixed Asset cost and EMP cost
5	Funds for Socio economic development	INR 5.0 Lakhs is allocated. In addition, any demand raised by people during public hearing will also be met.

1.6 DESCRIPTION OF LEASE AREA

The features in the study area is given below.

Description of the lease area		
S.No.	Areas	Distance from project site
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Nil within 15km radius
2	Areas which are important or sensitive for ecological reasons	

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A	Wetlands, water courses or other water bodies,	Canal – 220m (W), Kulam – 18m (SE) (50m safety distance has been provided), 120m (NE), Tank – 450m (S), 615m(NE), 715m(NW), 860m (W), 1.2km (N), Cheyyar river– 6.0Km (SW)
B	Coastal zone, biospheres,	Nil within 10km radius
C	Mountains, forests	Nil within 10Km radius Enadavadi R.F – 11.53KM(w)
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	Nil within 15km radius
4	Inland, coastal, marine or underground waters	Nil within 15km radius
5	State, National boundaries	Nil within 15km radius
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Nil within 15km radius
7	Defense installations	Nil within 15km radius
8	Densely populated or built-up area	Palli – 490m - SE
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Palli – 490m - SE
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Nil
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	Nil
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earth quakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions) similar effects	No. The area is not prone to earthquakes, floods, etc.

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The baseline data collection for meteorology, air, water, noise and soil environments have been carried out during March to May 2025.

Air, water, noise and soil samples are collected and analyzed through NABL accredited lab.

1.7 AIR ENVIRONMENT

The air monitoring has been carried out in 6 locations and the results are given below.

S. No.	Station Code	Locations	Latitude	Longitude
1	AAQ 1	Project Site	12°43'0.73"N	79°35'49.83"E
2	AAQ 2	Palli	12°42'37.79"N	79°36'5.59"E
3	AAQ 3	Cholavaram	12°43'42.39"N	79°37'43.72"E
4	AAQ 4	Mangalam	12°42'40.15"N	79°35'27.86"E
5	AAQ 5	Vadaelapakkam	12°41'59.98"N	79°35'48.74"E
6	AAQ6	Perumbulimedu	12°43'51.40"N	79°38'56.61"E
7	AAQ7	Vadapoondipattu	12°43'36.65"N	79°35'25.76"E

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

Station ID	Min	Max	Avg.
Particulate matter PM_{2.5} (µg/m³)			
AAQ-1	22.7	32.1	27.8
AAQ-2	18.6	28.6	22.2
AAQ-3	19.7	28.6	23.05
AAQ-4	19.8	30.2	25.3
AAQ-5	21.7	31.3	25.1
AAQ-6	23.3	35.4	26.4
AAQ-7	23.5	35.6	26.6
CPCB NAAQS 2009 for PM_{2.5} - 60 µg/m³			
Particulate matter PM₁₀ (µg/m³)			
AAQ-1	47.5	67.5	58.6
AAQ-2	40.8	52.6	47.8
AAQ-3	43.2	54.5	47.4
AAQ-4	46.2	60.3	51.4
AAQ-5	48.5	63.3	55.3

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AAQ-6	50.3	64.4	55.4
AAQ-7	50.9	65	56.0
CPCB NAAQS 2009 for PM₁₀ - 100 µg/m³			
Sulphur Di-oxide as SO₂ (µg/m³)			
AAQ-1	5.5	8.7	6.8
AAQ-2	3.4	5.9	4.3
AAQ-3	3.7	6	4.6
AAQ-4	4	6.4	4.8
AAQ-5	3.8	8.4	5.7
AAQ-6	4.2	6.6	5.2
AAQ-7	4.4	6.8	5.5
CPCB NAAQS 2009 for SO₂ - 80 µg/m³			
Oxide of Nitrogen as NO₂ (µg/m³)			
AAQ-1	10	12.9	11.2
AAQ-2	7.3	9.8	8.25
AAQ-3	6.7	8.7	7.6
AAQ-4	7.3	10.3	8.4
AAQ-5	7.7	12.4	9.5
AAQ-6	7.9	11.8	9.3
AAQ-7	8.5	12.4	9.9
CPCB NAAQS 2009 for NO₂ - 80 µg/m³			

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

1.8 WATER ENVIRONMENT

Results of Ground Water sampling Analysis in 7 locations								Standards as Per IS 10500: 2012	
Parameters	W1	W2	W3	W4	W5	W6	W7	Accept able Limits	Permissible Limits
Odour	Agree able	Agree able	Agree able	Agreea ble	Agree able	Agreea ble	Agreea ble	Agreea ble	Agreea ble
Turbidity	<1	<1	<1	<1.0	<1	<1	<1	1	5
pH at 25 °C	7.36	7.88	6.96	7.41	7.32	7.56	7.38	6.5- 8.5	No Relaxati on

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Electrical Conductivity	1024	402.5	716.8	1680	1002	1156	1864	-	-
Total Dissolved Solids	615	242	430	1010	602	695	1120	500	2000
Total hardness as CaCO ₃	430	172	234	350	405	330	436	200	600
Calcium as Ca	81.6	43.6	56.8	65.6	76	72.8	74.4	75	200
Magnesium as Mg	54.2	15.1	22.1	44.6	51.6	35.5	60.0	30.0	100
Calcium as CaCO ₃	204	109	142	164.0	190	182	186	-	-
Magnesium as CaCO ₃	226	63	92	186	215	148	250	-	-
Total alkalinity as CaCO ₃	316	148	159	320	254	256	305	200	600
Chloride as Cl ⁻	80.4	32.5	160	332	115	180	354	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 SO ₄ ²⁻	120	14.2	73.5	208	114	212	355	200	400
Iron as Fe	0.07	0.05	0.05	0.09	0.07	BDL (D.L-0.01)	BDL (D.L-0.01)	0.3	No Relaxation
Nitrate as NO ₃	2.45	BDL (D.L-1.0)	3.65	2.15	2.78	2.02	3.63	45	No Relaxation
Fluoride as F	0.34	0.25	0.27	0.38	0.27	0.56	0.64	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

All the values were found to be within permissible limits

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Surface Water Analysis Results

Results of Surface Water sampling Analysis in 2 locations				
Parameter	Unit	SW1 (Cheyyar River Up Stream)	SW2 (Cheyyar River Down Stream)	Surface water standard s (IS 2296 Class-A)
Odour	-	Agreeable	Agreeable	-
Turbidity	NTU	<1.0	<1.0	1
pH at 25 °C	-	7.72	7.89	6.5-8.5
Electrical Conductivity	µs/cm	252	243	-
Total Dissolved Solids	mg/l	152	146	500
Total hardness as CaCO ₃	mg/l	94.2	92.2	-
Calcium as Ca	mg/l	23.4	22.2	300
Magnesium as Mg	mg/l	8.57	8.81	-
Calcium as CaCO ₃	mg/l	58.5	55.5	-
Magnesium Hardness as CaCO ₃	mg/l	35.7	36.7	-
Total alkalinity as CaCO ₃	mg/l	35.6	35.1	-
Chloride as Cl ⁻	mg/l	142	138	250
Free Residual chlorine as Cl ⁻	mg/l	BDL (D.L - 0.2)	BDL (D.L - 0.2)	-
Sulphates as SO ₄ ²⁻	mg/l	15.6	18.9	20
Iron as Fe	mg/l	BDL (D.L - 0.01)	BDL (D.L - 0.01)	0.3
Nitrate as NO ₃	mg/l	BDL(DL-1.0)	BDL(DL-1.0)	20
Fluoride as F	mg/l	0.28	0.32	1.5
Manganese as Mn	mg/l	BDL (D.L-0.05)	BDL (D.L-0.05)	0.5
Chemical Oxygen Demand	-	BDL (D.L – 4.0)	BDL (D.L – 4.0)	-

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Bio Chemical Oxygen Demand 3 Days at 27oc	-	BDL (D.L – 2.0)	BDL (D.L – 2.0)	-
Total Suspended Solids	-	BDL (D.L – 2.0)	BDL (D.L – 2.0)	-
Dissolved Oxygen	-	6.2	6.3	6.0

All the values were found to be within permissible limits

1.9 NOISE ENVIRONMENT

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

Noise monitoring results					
S. No	Location	Day equivalent	Night equivalent	Day equivalent limits by CPCB	Night equivalent limits by CPCB
1	Project Site	46.6	39.3	75	70
2	Palli	48.9	39.7	55	45
3	Cholavaram	47.8	40.6		
4	Mangalam	46.8	39.1		
5	Vadaelapakkam	50.3	40.3		
6	Perumbulimedu	44.9	37.6		
7	Vadapoondipattu	47.2	38.0		

1.10 SOIL ENVIRONMENT

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

Results of Soil sampling Analysis in 7 locations								
Parameters	S1	S2	S3	S4	S5	S6	S7	Unit
pH at 25 °C	6.92	6.87	6.95	7.01	7.44	6.92	7.86	-
Electrical Conductivity	78.73	46.65	60.97	42.58	132	48.95	59.58	µmhos/cm
Dry matter content	94.28	97.44	96.57	97.05	95.57	97.32	95.29	%
Water Content	5.72	2.56	3.43	2.95	4.43	2.68	4.71	%
Organic Matter	0.58	0.74	0.81	1.18	0.98	0.76	1.05	%

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Soil texture	CLAY LOAM	loam	loam	loam	SANDY LOAM	loam	SILTY CLAY LOAM	-
Grain Size Distribution								
i. Sand	30.72	48.65	34.45	40.06	66.72	49.55	6.75	%
ii. Silt	42.34	31.66	45.49	36.55	23.76	31.69	62.09	%
iii. Clay	26.94	19.69	20.06	23.39	9.52	18.76	31.16	%
Phosphorus as P	1.27	1.65	1.22	2.1	1.98	1.24	1.23	mg/kg
Sodium as Na	552	432	389	423	475	432	796	mg/kg
Potassium as K	320	632	589	658	295	630	405	mg/kg
Total Nitrogen	205	145	182	232	164	149	302	mg/kg
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)	%
Water Holding Capacity	45	40	42	44	41	40	38	Inches/foot
Porosity	19.7	20.7	22.2	24.1	20.9	22.6	20.5	%

1.11 BIOLOGICAL ENVIRONMENT

FLORA

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

FAUNA

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

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1.12 LAND USE

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

Major Land Use Units of the Study Area in Percentage

S. No	1st Level Classification	Area in (sq.km)	Percentage (%)	2nd Level Classification	Area in (sq.km)	Percentage (%)
1	Built-up or habitation	12.0	3.82	Residential	11.72	3.73
				Commercial/Industrial	0.28	0.09
2	Agriculture	165.0	52.51	Crop land	160.18	50.98
				fallow land	4.82	1.53
3	Water bodies	56.25	17.94	Reservoir/Lake /Pond	50.34	16.06
				River/Stream	5.91	1.88
4	Waste Land	17.15	5.42	Open without scrub	4.6	1.46
				Open with scrub	12.55	3.99
5	Mines	1.9	0.60	Mines	1.9	0.60
6	Plantation	60.5	19.25	Plantation	60.5	19.25
7	Salt Affected land	1.36	0.43	Salt Affected land	1.36	0.43
Total		314.16	100		314.16	100

1.13 SOCIO ECONOMIC ENVIRONMENT

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

The following data area collected from secondary data.

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

The expert visited villages in the study area namely Palli, Cholvaram, Mangalam, Vadaelapakkam, Perumbulimedu, and Vadapoondipattu Villages. Discussions were

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held with the people from nearby locality to study the social and economic conditions prevailing in the area. The expert also visited nearby hospitals and primary health centres. The following observations were made.

Primary schools are available in many villages. For hospital facilities, people in the locality have to go to hospital in Thiruvannamalai which is about 2 - 5 km (SE) from the lease area. Major schools with higher secondary and senior secondary schools are located in Palli. The major Palli Union located in the area is Palli. Facilities like petrol pump stations, ATM facility are available in Palli..

1.14 HYDROGEOLOGY OF THE LEASE AREA

The hydrological and hydrogeological pattern of the study area is studied in detail using satellite imagery.

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

1.15 GROUND WATER STUDY

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

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

As far as the mining lease area is considered, the area is rocky and no major seepage is envisaged. The production quantity is very less and the depth proposed is 52 m BGL. Hence, there will not be any major impact due to mining on water levels or ground water levels in the area.

ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

Environmental impacts on the following environments are identified.

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

1.16 LAND ENVIRONMENT: IMPACT AND MITIGATION MEASURES

The major impact due to this project on land environment is the change in land use. Since this quarry is a small one and the production is less, mining activity will be carried out upto 52 m BGL. Other than quarrying of minerals, no other change will be done since there is no dumping. To prevent soil erosion during monsoon season, garland drain will be constructed with silt traps. At the mine closure stage, 2.70.5 Ha of lease area will be left as rain water harvesting pond. 0.78.5 Ha will be developed with green belt. For this, plants like Pongamia pinnata, Syzigium cumini, Albizia lebbeck, Thespesia populnea, Bauhinia racemose, Cassia siamea, Azadirachta indica are selected. A total of 785 trees are planned to be planted. Spacing will be 3m x 3m.

1.17 WATER ENVIRONMENT: IMPACT AND MITIGATION MEASURES

There is no water body present inside the lease area. The entire water requirement for the project is 5.0 KLD which will be sourced from outside agencies. Negligible sewage will be generated, for which a septic tank with soak pit will be set up.

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

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Since the mining operation will be limited upto depth of 52 m (BGL), there will not be any seepage. However, the rain water percolation and collection of water from seepage shall be less than 300lpm and it shall be pumped out periodically by a stand by diesel powered Centrifugal pump motivated with 7.5 H.P. Motor. The quality of water is expected to be potable. Hence, water stored in the quarry pit will be pumped into the adjacent agricultural fields. Further the water can also be used for plantation purposes

The major water bodies found in the buffer zone are Canal – 220m (W), Kulam – 18m (SE) (50m safety distance has been provided), 120m (NE), Tank – 450m (S), 615m(NE), 715m(NW), 860m (W), 1.2km (N), Cheyyar river– 6.0Km (SW)

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

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

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

1.18 BIOLOGICAL ENVIRONMENT: IMPACT AND MITIGATION MEASURES **Impacts**

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

Mitigation measures

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

1.19 AIR ENVIRONMENT: IMPACT AND MITIGATION MEASURES

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

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

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

1.20 NOISE ENVIRONMENT: IMPACT AND MITIGATION MEASURES

Impacts

- ✚ Noise generation in mining is due to operation like drilling, blasting and transportation of minerals within and outside the lease area.
- ✚ As per DGMS (Directorate General of Mines Safety) and OSHA

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(Occupational Safety and Health Administration) limits, the acceptable noise level is 90 dB(A) for an exposure period of 8 hours.

✚ Exposure to loud noise can also cause high blood pressure, heart disease, sleep disturbances, and stress. Noise pollution also impacts the health and well-being of wildlife.

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

Mitigation measures

✚ As the distance between the source and receptor increases, the noise level also decreases. Hence, there will be a natural attenuation

✚ The proposed has planned to develop green belt in the periphery of the lease area, which diminishes sound volume by dampening them.

✚ All the equipment/machinery/trucks involved will be properly maintained to control noise generation

✚ Conducting regular health checkups for employees involved

✚ Employees will be made to work on shifts to reduce their exposure time

✚ Providing earplugs to all employees

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

VIBRATION: IMPACT AND MITIGATION MEASURES

Impacts

✚ Though vibration will be only felt by the people working inside the lease area, it is usually undesired.

✚ Vibration may also cause flyrocks

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

Mitigation measures

✚ Carrying out blasting on limited scale, only from 12:00 PM to 2:00 PM

✚ Control of fly rock and vibration by maintaining peak particle velocity with

in standard as prescribed by the DGMS and MOEF & CC.

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

1.21 SOCIO ECONOMIC ENVIRONMENT

Impact and Mitigation measures

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

1.22 OCCUPATIONAL HEALTH

Impacts

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

Mitigation measures

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

- Keeping fire extinguisher in place
- Educating the employees about how to handle unexpected happenings
- Posting information containing emergency contact numbers in mines office
- By adopting all these measures, the safety of the employees working in the quarry will be ensured.

1.23 ENVIRONMENTAL MONITORING PROGRAMME

Monitoring is done to measure the efficiency of control measures implemented. Regular monitoring of various environmental parameters like air, water, noise and soil environments is needed to assess the status of environment during the project operation. A schedule is framed with timeline to monitor various parameters during the operation of the project. To evaluate the effectiveness of environmental management programme, regular monitoring of the important environmental parameters will be taken up. Air monitoring will be carried out once in 3 months, water sample will be collected once in a season, noise will be monitored once in 3 months, soil samples will be analyzed once per season. For EMP, a budget of INR 24.58 lakhs is allocated.

1.24 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 30 people directly. Local people will be

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hired for unskilled labour.

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

Various aspects of mining activities were considered and related impacts were evaluated. Considering all the possible ways to mitigate the environmental concerns Environmental Management Plan was prepared and 24.58 lakhs for the five years has been allocated as EMP cost. The EMP is dynamic, flexible and subjected to periodic review. For project where the major environmental impacts are associated, EMP will be under regular review. Thus, the proper steps will be taken to accomplish all the goals mentioned in the EMP and the project will bring the positive impact in the study area.



ANNEXURE-1

நக.எண்.165/கனிமம்/2025

துணை இயக்குநர் அலுவலகம்,
மாவட்ட ஆட்சியர் அலுவலக
வளாகம், திருவண்ணாமலை.

நாள். 08.07.2025

குறிப்பாணை

பொருள்: கனிமங்களும் சுரங்கங்களும் - சிறுகனிமம் - சாதாரண கற்கள் - திருவண்ணாமலை மாவட்டம் செய்யார் வட்டம் - பல்லி கிராம புல எண்கள். 496/2, 98/1A மற்றும் பலவற்றின் மொத்தப்பரப்பு 3.91.0 ஹெக்டேர் பரப்பில் - சாதாரண கற்கள் மற்றும் கிராவல் மண் வெட்டியெடுக்க குவாரி குத்தகை உரிமம் வழங்கக்கோரி திருமதி.பூர்ணிமா க/பெ.தமிழ்ஒளி என்பவர் 5 ஆண்டுகளுக்கு அனுமதிக்கோரி 1959ம் ஆண்டு தமிழ்நாடு சிறுகனிம சலுகை விதிகள் விதி எண்.19-ன் கீழ் விண்ணப்பம் செய்தது - அறிக்கைகள் வரப்பெற்றது - புலத்தணிக்கை செய்யப்பட்டது - 3.52.0 ஹெக்டேர் பரப்பினை தகுதியான நிலப்பரப்பாக கருதி ஏற்பளிக்கப்பட்ட சுரங்கதிட்டம் மற்றும் சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணைய தடையின்மை சான்று பெற்று சமர்ப்பிக்க கோருதல் தொடர்பாக.

- பார்வை: 1. திருமதி.பூர்ணிமா க/பெ.தமிழ்ஒளி என்பவரின் விண்ணப்பம் நாள். 26.02.2025.
2. இவ்வலுவலக கடிதம் இதே எண். நாள். 26.02.2025.
3. வட்டாட்சியர், செய்யார் அவர்களின் ந.க.ஆ1/1036/2025, நாள்.28.03.2025.
4. வருவாய் கோட்ட அலுவலர் (மு.கூ.பொ.) செய்யார் அவர்களின் ந.க.அ5/1046/2025, நாள். 02.07.2025.
5. உதவி புவியியலாளர், புவியியல் மற்றும் சுரங்கத்துறை மற்றும் தனி வருவாய் ஆய்வாளர் (கனிமம்) அவர்களின் புலத்தணிக்கை நாள். 05.07.2025.
6. மற்றும் உரிய ஆவணங்கள்

பார்வையில் காணும் கடிதங்களின் மீது கனிவான கவனம் வேண்டப்படுகிறது.



2) திருவண்ணாமலை மாவட்டம், செய்யாடி வட்டம், புல எண்கள். 496/2 (1.47.50), 98/1A (0.12.0), 98/1B (0.15.0), 98/1C (0.16.0), 98/1D (0.12.50), 98/2A (0.64.0), 98/2B (0.65.0) மற்றும் 98/3B (0.39.0) கிராம புல 3.91.0 ஹெக்டேர் பரப்பில் சாதாரண கற்கள் / கிராவல் மண் குவாரி செய்ய 5 ஆண்டுகளுக்கு குத்தகை உரிமம் வழங்கக்கோரி திருமதி.பூர்ணிமா க/பெ.தமிழ்ஒளி என்பவர் உரிய ஆவணங்களுடன் 26.02.2025 அன்று விண்ணப்பம் அளித்துள்ளார்.

3. மேற்கண்ட விண்ணப்பம் தொடர்பாக வட்டாட்சியர் செய்யாடி, வருவாய் கோட்ட அலுவலர் (மு.க.பொ), செய்யாடி, உதவி புனிடியலாளர் மற்றும் தனி வருவாய் ஆய்வாளர் (கனிமம்) திருவண்ணாமலை ஆகியோர் புலத்தணிக்கை மேற்கொண்டு அளித்த அறிக்கையின் அடிப்படையில் புல எண்.98/3B நீங்கலாக திருவண்ணாமலை மாவட்டம், செய்யாடி வட்டம், புல எண்.496/2 (1.47.50), 98/1A (0.12.0), 98/1B (0.15.0), 98/1C (0.36.0), 98/1D (0.12.50), 98/2A (0.64.0) மற்றும் 98/2B (0.65.0)-ல் மொத்தப்பரப்பு 3.52.0 ஹெக்டேரில் மட்டும் திருமதி.பூர்ணிமா க/பெ.தமிழ்ஒளி என்பவருக்கு கிராவல் மண் மற்றும் சாதாரண கற்குவாரி உரிமம் வழங்க ஏற்கனவே குவாரி பணி செய்யாத புலமாக இருப்பினும் மனுதாரரின் கோரிக்கையின்படி 5 ஆண்டு காலத்திற்கு கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு அனுமதி வழங்கலாம் என பரிந்துரை செய்துள்ளனர்.

நிபந்தனைகள்

1. அருகில் உள்ள பட்டா நிலங்களுக்கு 7.5மீ. மற்றும் அரசு நிலங்களுக்கு 10 மீ. பாதுகாப்பு இடைவெளியும் விட வேண்டும்.
2. புல எண். 496/1ல் அமைந்துள்ள பாட்டை புறம்போக்கு நிலத்திற்கு 10 மீ. பாதுகாப்பு இடைவெளி விட வேண்டும்.
3. புல எண்.98/3B-ற்கு கிழக்கே 14மீ தொலைவில் புல எண்.112ல் அமைந்துள்ள குளத்திற்கு 50 மீ. பாதுகாப்பு இடைவெளி விட வேண்டும்.
4. புல எண். 496/1ல் மின் தாழ்வழுத்த மின்கம்பங்கள் நடப்பட்டு இணைப்பு வழங்காமல் உள்ள நேர்வில் மின்கம்பி இணைப்பு வழங்கும் பட்சத்தில் மின்கம்பி பாதையில் இருந்து 50 மீ. பாதுகாப்பு இடைவெளி விட வேண்டும்.
5. பொதுமக்களுக்கும் அருகிலுள்ள நிலங்களுக்கும் எவ்வித பாதிப்பும் ஏற்படுத்தக்கூடாது.



6. குவாரிப்பணி தொடங்குவதற்கு முன்பாக குவாரியை கம்பிவேலி அமைத்து குவாரிப்பணி தொடங்க வேண்டும்.
7. முறைப்படியும், விஞ்ஞானப்பூர்வமாகவும் குவாரிப்பணி செய்ய வேண்டும்.
8. சான்றிதழ் பெறப்பட்ட பேர்மென், வெடிப்பாளர் மற்றும் சுரங்க மேலாளர் மூலம் முறையே குவாரிப்பணி செய்யப்பட வேண்டும்.
9. குவாரிப்பணி தொடங்குவதற்கு முன் சுரங்க பாதுகாப்பு இயக்குநர், சென்னை அவர்களுக்கு தகவல் தெரிவிக்கப்பட வேண்டும்.
10. பாறைகளைத் தகர்க்க தமிழ்நாடு சிறுகனிம சலுகை விதிகள் 1959 விதி 36 (1-A) (b)-ல் தெரிவிக்கப்பட்டுள்ள வழிமுறைகளை பின்பற்றி குவாரிப்பணி செய்ய வேண்டும்.

5. இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை, சென்னை அவர்களின் 10.08.2020 நாளிட்ட கடிதத்துடன் இணைத்து வரப்பெற்ற அரசாணை எண்.169 தொழில் துறை (எம்.எம்.சி-1) நாள் 04.08.2020-ன்படி பட்டா புலங்களில் கிராவல், சாதாரண வகை கற்கள் ஆகிய சிறுகனிம உரிமம் வழங்கும் நேர்வுகளில் நடவடிக்கை எடுக்க விதி 19 மற்றும் 33-ல் மாவட்ட ஆட்சியருக்கு வழங்கப்பட்ட அதிகாரம் தற்போது சம்மந்தப்பட்ட உதவி/துணை இயக்குநர் அவர்களுக்கு மாற்றி வழங்க உத்திரவிடப்பட்டுள்ளது.

6. எனவே, வட்டாட்சியர் செய்யார், வருவாய் கோட்ட அலுவலர் (மு.கூ.பொ), செய்யார், உதவி புவியியலாளர் மற்றும் தனி வருவாய் ஆய்வாளர் (கனிமம்) திருவண்ணாமலை ஆகியோரின் பரிந்துரை, நிபந்தனைகள் மற்றும் மனுதாரரின் கோரிக்கையின் அடிப்படையில் திருவண்ணாமலை மாவட்டம், செய்யார் வட்டம், பல்லி கிராம புல எண்கள்.496/2 (1.47.50), 98/1A (0.12.0), 98/1B (0.15.0), 98/1C (0.36.0), 98/1D1 (0.12.50), 98/2A (0.64.0) மற்றும் 98/2B (0.65.0)-ல் மொத்தப்பரப்பு 3.52.0 ஹெக்டேரில் 1959-ம் வருட தமிழ்நாடு சிறுகனிம விதிகள், விதி எண்.19-ன்படி மேற்கண்ட நிபந்தனைகளுக்குட்பட்டு 5 (ஐந்து) வருட காலத்திற்கு திருமதி.பூர்ணிமா க/பெ.தமிழ்ஒளி கிராவல் / சாதாரண கற்கள் குவாரி உரிமம் வழங்குவதற்குரிய தகுதியான நிலப்பரப்பாக கருதப்படுகிறது.

7. மேலும், தமிழ்நாடு சிறுகனிம சலுகை விதிகள் 1959, விதி 41-ன்படி குவாரிப் பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்க திட்டத்தினை 90



தினங்களுக்குள் சமர்ப்பிக்குமாறு மனுதாரரைக் கேட்டுக் கொள்ளப்படுகிறது. மேலும் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தின் தொடர்ச்சியாக 1959-ம் வருடத்திய தமிழ்நாடு சிறு கனிம சலுகை விதிகள், விதி எண்.42-ன்படி சுற்றுச் சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் தடையின்மை சான்று பெற்று சமர்ப்பிக்கும் பட்சத்தில் மட்டுமே குவாரி உரிமம் வழங்கப்படும் என இதன் மூலம் தெரிவிக்கப்படுகிறது.


துணை இயக்குநர்,

புனியியல் மற்றும் சுரங்கத்துறை,
திருவண்ணாமலை.

பு
8/7/21

பெறுநர்
திருமதி. T. பூர்ணிமா
க/பெ. தமிழ்ஒளி,
எண். 1/62 வடக்குத் தெரு,
பண்ணாட்டி, காஞ்சிபுரம்.

நகல்.

1. தலைவர், மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையம், சென்னை
2. ஆணையர், புனியியல் மற்றும் சுரங்கத்துறை, சென்னை-32.



ANNEXURE-2

From
Dr.S.Vediappan, M.Sc., Ph.D.,
Deputy Director,
Geology and Mining,
Tiruvannamalai - 4.

To
Tmt.Poornima,
W/o. T.Tamil Oli,
No.1/62 Notth Street.
Panruti,
Kanchipuram District.

Rc.No.165/Kanimam/2025, dated 18.07.2025.

Sir,

Sub: Mines and Minerals – Minor Mineral - Rough Stone and Gravel - Tiruvannamalai District – Cheyyar Taluk - Palli Village Patta land SF.Nos. 496/2, 98/1A & etc. over an extent of 3.52.0 hecets., – Application preferred by **Tmt.Poornima** W/o. Tamil Oli - Precise area communicated – Submission of three copies of draft Mining Plan for approval - Approval accorded - regarding.

- Ref:**
1. Application from Tmt.Poornima W/o. Tamil Oli dated 26.02.2025.
 2. Precise Area Communication Notice Rc.No.165/Kanimam/2025, dated 08.07.2025.
 3. Mining Plan submitted by Tmt.Poornima W/o. Tamil Oli dated 15.07.2025.

Tmt.Poornima W/o. Tamil Oli has preferred an application for the grant of Rough Stone and Gravel quarry lease over an extent of 3.52.0 hecets., of Patta land in SF.Nos. 496/2 (1.47.50), 98/1A (0.12.0), 98/1B (0.15.0), 98/1C (0.36.0), 98/1D1 (0.12.50), 98/2A (0.64.0) & 98/2B (0.65.0) of Palli Village, Cheyyar Taluk, Tiruvannamalai District for a period of 5 (Five years) vide in the reference 1st cited and the precise area has been communicated to the applicant vide in the reference 2nd cited with a direction to submit the approved mining plan and Environmental Clearance.

2. As directed, the applicant has submitted three copies of mining plan for approval vide in the reference 3rd cited. The Mining Plan has been verified in detail and found that it has been prepared in accordance with the guidelines / instructions issued by the

Commissioner of Geology and Mining in letter RC. No. 3868 / LC / 2012 dated 19.11.2012.

i) The reserves estimated in the mining plan is

Depth in Mts.	Geological Resources			Mineable Reserves		
	Mineral	in Cbm	in Tons	Mineral	in Cbm	in Tons
52m (BGL)	Rough Stone	1758800	4836700	Rough Stone	742225	2041118.75
	Gravel	70352	140704	Gravel	57976	115952

ii) Year wise production proposed for the **five year period** are as follows:-

Year	Rough Stone Quantity		Gravel Quantity	
	CBM	Tons	CBM	Tons
I	143160	393690.00	34176	68352
II	150740	414535.00	23800	47600
III	152490	419347.50	23800	-
IV	151645	417023.75	-	-
V	144190	396522.50	-	-
Total	742225	2041118.75	57976	115952

3. Therefore in exercise of the powers conferred under Rule 41(2) of Tamil Nadu Minor Mineral Concession Rules, 1959, the mining plan is hereby approved, subject to the following conditions:-

- The mining plan is approved without prejudice to any other Law applicable to the quarry lease from time to time whether such laws are made by the Central Government, State Government or any other authority.
- This approval of the mining plan does not in any way convey the approval of the Government in terms or any other provisions of the Mines and Minerals (Development and Regulation) Act, 1957, or any other connected laws including Forest (Conservation) Act, 1980, Forest Conservation Rules, 1981, Environment Protection Act, 1980, Explosives Act, 1884 (Central Act IV of 1884) Minor Mineral Concession and Development Rules, 2010 and the Rules made there under and the Tamil Nadu Minor Mineral Concession Rules, 1959.
- The mining plan is approved without prejudice to any other order or direction from any court of competent jurisdiction.

- iv. The validity of the mining plan is co-terminus with the lease period.
- v. Quarrying shall be done in accordance with the approved Mining Plan.
- vi. If anything is found to be concealed in the contents of the mining plan which are required by the mines act or if any proposed for rectification has not been made, the approval shall be deemed to have been withdrawn with immediate effect.
- vii. All the conditions stipulated in the precise area communication dated 08.07.2025 should be duly complied with.

4. Further, other quarries situated within 500m radial distance are as follows.

Existing Quarries

Name of the Owner	Village & S.F. Nos.	Extent in Hects.	Lease Period	Remarks
S.Nirmal	Palli 115/1, 2,3,4 & 116 (Part)	2.000	29.08.2023 to 28.08.2028	Rough Stone Quarry

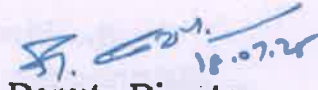
Abandoned quarries

Name of the Owner	Village & S.F. Nos.	Extent in Hects.	Lease Period	Remarks
R.Velmurugan	Palli 79/2 (Part)Etc.	0.80.0	19.05.2012 to 18.05.2017	Expired Quarries
R.Venkatachalam,	Palli 66/3A (1.03.0) & 66/3B (1.87.0)	(2.90.0)	21.07.2016 to 20.07.2021	
R.Velmurugan,	Palli 80/2(0.02.5), 81/1 (0.31.0), 81/2A(0.17.5), 81/2B (0.48.0), 84/1 (0.21.0)	1.20.0	17.09.2018 to 16.09.2023	
M.Marimuthu,	Palli 74/3,74/4	0.98.5	16.11.2018 to 15.11.2023	
R. Velmurugan	Palli 79/2,80/1& 81/1	0.80.0	09.11.2006 to 08.11.2011	
R.Velmurugan,	80/2, 81/1, 2A , 2B , 84/1	1.20.0	17.09.2023 to 16.09.2024	

Present Proposed Quarries

Sl. No	Name of the Owner	Village & S.F. Nos.	Extent in Hects.
1	Tmt.T.Poornima, W/o.Tamiloli, No.1/62, South Street, Panrutti, Kanchipuram	Palli 496/2 & etc.,	3.91.0
2	Thiru.S.Gokulraj, S/o.Saravanaraj, No. 14 Kamaraj Nagar. Pammal Post, Kanchipuram.	Palli 95/1, 95/10, 95/2, 95/3, 95/4, 95/5, 95/6, 95/7, 95/8 & 95/9	3.45.0

Encl: 2 Copies of Approved Mining Plan.


Deputy Director,
Geology and Mining,
Tiruvannamalai.

Copy submitted to:

1. The Chairman, SEIAA,
Tamil Nadu, 3rd Floor, Panagal Maaligai,
No.1, Jeenis Road, Saidapet, Chennai-15. 
2. The Commissioner of Geology and Mining, Chennai-32.
3. The District Collector, Tiruvannamalai.