

EXECUTIVE SUMMARY FOR PROPOSED ROUGH STONE AND GRAVEL QUARRY CATEGORY – B1

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

ToR Identification No. TO26B0106TN5401029N (F. No. 13710), dated 25.06.2026

PROPOSED QUARRY LEASE DETAILS	
SURVEY NOS	50/4, 50/5A, 51/1, 51/2, 51/3, 51/4, 51/5, 51/6, 51/7 and 51/8
VILLAGE	VADIPATTI NORTH
TALUK	PALANI
DISTRICT	DINDIGUL
EXTENT	2.37.0 HA
CLUSTER EXTENT	8.80.0 HA
MINEABLE RESERVES (upto 58m BGL)	ROUGH STONE: 3,71,595 Cu.m GRAVEL: 52,965 Cu.m
PROPOSED PRODUCTION QUANTITY FOR 10 YEARS (upto 58m BGL)	1 st FIVE YEARS : ROUGH STONE: 2,09,745 Cu.m & GRAVEL: 52,965 Cu.m 2 ND FIVE YEARS : ROUGH STONE: 1,61,850 Cu.m
LAND	PATTA LAND

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

Category of the Project: B1 Cluster Mining, Total Cluster Area – 8.80.00 Ha

Baseline Monitoring Period – March to May 2026

APPLICANT

THIRU.B.GOPALAKRISHNAN,

S/o.Balusamy,

No.5/107, Pachapalayam Thottam,

Sulur Taluk,Coimbatore District.

ENVIRONMENTAL CONSULTANT	LABORATORY
M/s. GLOBAL MINING SOLUTIONS <i>(NABET Accredited & ISO 9001 Certified Consultant)</i> Plot No. 6, S.F.No. 13/2, A2, VS City, RC Chettypatty, Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455. NABET Accreditation No: NABET/EIA/26-29/ RA0478 Valid up to: 03.01.2029 Contact: 97502 23535 & 94446 54520 Email: infoglobalmining@gmail.com, globalminingsolutionssalem@gmail.com	M/s. SHRIENT ANALYTICAL & RESEARCH LABS PRIVATE LIMITED <i>(NABL Accredited Testing Laboratory)</i> Valid up to: 29.09.2029 #416/15, Dhargas Road, Perungalathur, West Tambaram, Chennai, Tamil Nadu, India.

SUMMARY & CONCLUSION

OVER ALL JUSTIFICATION FOR IMPLEMENTATION OF THE PROJECT

INTRODUCTION

Thiru.B.Gopalakrishnan, S/o.Balusamy has obtained Precise Area Communication Letter from Assistant Director, Department of Geology and Mining, Dindigul to quarry out 3,71,595 m³ of rough stone, 52,965 m³ of Gravel from an extent of 2.37.00 Ha located in S.F.No.50/4, 50/5A, 51/1, 51/2, 51/3, 51/4, 51/5, 51/6, 51/7 and 51/8 at Vadipatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State.

As per EIA notification, 2006 and its subsequent amendments the proposed "Rough Stone and Gravel Quarry of Thiru.B.Gopalakrishnan, S/o.Balusamy mines cluster falls under Schedule 1(a) of EIA Notification and its subsequent amendments the project comes under Category B1. The ToR for preparation of EIA/EMP report of the project was approved vide ToR Identification No. TO26B0106TN5401029N, dated 25.06.2026. This report has been prepared in line with the approved ToR for production of maximum excavation of 3,71,595 m³ of rough stone, 52,965 m³ of Gravel.

S.No.	Description	Status/Remarks
1.	Sector	1(a), non-coal mining
2.	Category of the project	B1
3.	Proposed mineral	Rough Stone and Gravel
4.	Type of Lease	New Lease
5.	Extent of the lease	2.37.00 Ha
6.	Proposed depth of Mining	58m BGL
7.	Method of mining	Opencast Mechanized
8.	Proposed lease period	10 Years
9.	Proposed Environmental Clearance	5 Years
10.	Proposed production quantity for 1 st Five Years	2,09,745 m ³ of rough stone, 52,965 m ³ of Gravel
11.	Proposed production quantity for 2 nd Five Years	1,61,850 m ³ of rough stone

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The Lessee Thiru.B.Gopalakrishnan, S/o.Balusamy is an individual with sound experience in the identification, quarrying and marketing of Rough Stone and Gravel. The proposed land is a Patta land and attached as **Annexure 6.**

LOCATION

This project site is located in Vadipatti North Village, Palani Taluk, Dindigul District, Tamil Nadu State with Latitude: 10°27'50.66"N to 10°27'56.75"N and Longitude: 77°25'25.54"E to 77°25'33.13"E. with Survey of India Topo Sheet No.58 F/07. 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 to May 2026)

GEOLOGY

The rock type noticed in the area for lease is Charnockite which contains mostly Quartz and Feldspar with some ferromagnesian minerals. The Charnockite is part of peninsular Gneisses, a high-grade metamorphic rock. The strike of the Charnockite formation is N45°E –S45°W with dipping towards SE80°.

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 58m below ground level. The geological reserves are estimated to be 13,01,300 m³ of Rough Stone & 70,980 m³ of Gravel . The mineable reserve calculated by deducting 7.5m safety distance and bench loss. The mineable reserves are 3,71,595 m³ of rough stone, 52,965 m³ of Gravel which will be recovered at the rate of 100% recovery upto a depth of 58m Below ground level for the period of Ten Years.

- It is proposed to quarry out rough stone with 5m bench height, 5m width with 47° slope using conventional Open cast Mechanized method. The quarry operation involves shallow jack hammer drilling, slurry blasting, excavation, Loading and transportation of Rough Stone.

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There is no overburden anticipated during entire rough stone & Gravel quarrying operation.

Sl. No.	Description	Status/Remarks
1.	Sector	Non-coal mining
2.	Category of the project	B1
3.	Proposed mineral	Rough Stone and Gravel quarry
4.	Type of Lease	The applied area is Fresh
5.	Extent of the lease	2.37.00 Ha
6.	Proposed depth of mining	58m BGL
7.	Method of mining	Opencast Semi-mechanized.
8.	Proposed lease period	10 Years
9.	Proposed Environmental Clearance	10 Years
10.	Mineable reserves (upto 58m BGL) (Quantity in m ³)	3,71,595 m ³ of rough stone, 52,965 m ³ of Gravel
11.	Proposed production quantity for 10 years (upto 58m BGL)	1st five Years: 2,09,745 m ³ of rough stone, 52,965 m ³ of Gravel 2nd five Years: 1,61,850 m ³ of rough stone

PROJECT REQUIREMENTS

The requirements of the project is given below.

S.No.	Nature of requirement	Description
1	Water requirement	Total water requirement of 4.0 KLD which will be procured from the outside agencies. Out of 1.0KLD drinking water requirement, green belt development is 2.0 KLD and dust suppression is 1.0 KLD.
2	Power requirement	No electricity is needed for mining operations, for office demands, it will be met from the state grid.
3	Manpower requirement	Permanent employees – 10, temporary employees – 34
4	Financial requirement	Total EMP cost will be Rs.59.80 Lakhs
5	Funds for Socio economic development	INR 5 Lakhs is allocated.

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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			
A	Wetlands, water courses or other water bodies,	Water bodies	Distance	Direction
		Nilaviyal Odai	adjacent to the mine lease area	N
		Sembakulam	1.58Km	W
		Eraviimangalamkulam	2.41Km	SE
		Pudhukulam	3.93Km	SE
B	Coastal zone, biospheres,	Nil within 10km radius		
C	Mountains, forests	Nil within 10km radius		
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	Nil within 15km radius		
4	Inland, coastal, marine or underground waters	Nil within 15km radius		
5	State, National boundaries	Nil within 15km radius		
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Nil within 15km radius		
7	Defense installations	Nil within 15km radius		
8	Densely populated or built-up area	Densely Populated Palani,9.8km (SE)		
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Densely Populated Palani,9.8km (SE)		

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10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Nil
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	Nil
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earth quakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions) similar effects	No. The area is not prone to earthquakes, floods, etc.

The baseline data collection for meteorology, air, water, noise and soil environments have been carried out during March to May 2024. Air, water, noise and soil samples are collected and analyzed through NABL accredited lab.

EXPLANATION OF HOW ADVERSE EFFECTS HAVE BEEN MITIGATED

AIR ENVIRONMENT

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

Details Of Ambient Air Quality Monitoring Locations					
S. No.	Station Code	Locations	Distance & Direction	Latitude	Longitude
1	AAQ 1	Project site	Core Zone	10°27'53.79"N	77°25'28.04"E
2	AAQ 2	Pappampatti	2.46km, SW	10°26'43.65"N	77°24'14.61"E
3	AAQ 3	Kavalapatti	3.14km, S	10°26'6.67"N	77°25'3.64"E
4	AAQ 4	Kasanayampatty	1.33km, NE	10°28'29.57"N	77°26'9.84"E
5	AAQ 5	Chinnakalayamputhur	4.49km, NE	10°28'18.92"N	77°27'56.63"E
6	AAQ 6	Karadikootam	1.16km, SE	10°27'8.63"N	77°26'12.31"E
7	AAQ 7	Ayyampalayam	4.33km, NW	10°29'16.64"N	77°23'31.22"E

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Station ID	Min	Max	Avg.
Particulate matter PM-2.5 ($\mu\text{g}/\text{m}^3$)			
AAQ-1	22.6	34.8	28.9
AAQ-2	19.5	29.4	24.1
AAQ-3	20.2	25.8	23
AAQ-4	18.8	23.6	21
AAQ-5	18.5	25.1	21.8
AAQ-6	20.7	27.4	24.2
AAQ-7	23.4	30	26.6
CPCB NAAQS 2009 for PM_{2.5} - 60 $\mu\text{g}/\text{m}^3$			
Particulate matter PM-10 ($\mu\text{g}/\text{m}^3$)			
AAQ-1	47.5	72.8	60.8
AAQ-2	41.8	61.4	51.4
AAQ-3	44.4	56.8	50.7
AAQ-4	40.6	51.2	45.5
AAQ-5	40.6	55.1	48
AAQ-6	44.8	59.4	52.1
AAQ-7	48.8	62.5	55.3
CPCB NAAQS 2009 for PM₁₀ - 100 $\mu\text{g}/\text{m}^3$			
Sulphur Di-oxide as SO₂ ($\mu\text{g}/\text{m}^3$)			
AAQ-1	5.4	7.8	6.6
AAQ-2	5	7.4	6.2
AAQ-3	4.6	7.1	5.9
AAQ-4	5.1	7.5	6.3
AAQ-5	4.9	7.3	6.1
AAQ-6	3.9	5.4	4.5
AAQ-7	6.2	8.1	7.5
CPCB NAAQS 2009 for SO₂ - 80 $\mu\text{g}/\text{m}^3$			
Oxide of Nitrogen as NO₂ ($\mu\text{g}/\text{m}^3$)			
AAQ-1	8.3	12.2	9.8
AAQ-2	7.7	11.1	9.1
AAQ-3	7.9	11.5	9.3
AAQ-4	7.7	11.7	9.4
AAQ-5	7.9	11.5	9.3
AAQ-6	8.5	10.8	9.7
AAQ-7	10.1	13.3	11.5
CPCB NAAQS 2009 for NO₂ - 80 $\mu\text{g}/\text{m}^3$			

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

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WATER ENVIRONMENT

Surface Water monitoring results				
		SW1	SW2	Surface water standards (IS 2296 Class-A)
Odour	-	AGREEABLE	AGREEABLE	-
Turbidity	NTU	143.48	80.18	1
pH at 25 °C	-	7.52	7.72	6.5-8.5
Electrical Conductivity	µS/cm	370.6	273.4	-
Total Dissolved Solids	mg/l	222	164	500
Total hardness as CaCO ₃	mg/l	72.1	97.5	300
Calcium as Ca	mg/l	15.2	27.1	-
Magnesium as Mg	mg/l	8.25	7.20	-
Calcium as CaCO ₃	mg/l	38.1	67.8	-
Magnesium as CaCO ₃	mg/l	34.0	29.6	-
Total alkalinity as CaCO ₃	mg/l	102.1	63.9	-
Chloride as Cl ⁻	mg/l	72.3	39.5	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	39.2	42.5	400
Iron as Fe	mg/l	0.59	0.41	1.0
Nitrate as NO ₃	mg/l	1.39	1.32	20
Fluoride as F	mg/l	0.36	0.31	1.5
Manganese as Mn	mg/l	BDL (D.L - 0.05)	BDL (D.L - 0.05)	0.5
COD	mg/l	35.9	38.9	-
BOD	mg/l	7.2	8.4	-
DO	mg/l	6.1	6.5	-
TSS	mg/l	24	16	-

All the values were found to be within permissible limits

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Ground Water monitoring results							
	GW1	GW2	GW3	GW4	GW5	GW6	GW7
Odour	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE
Turbidity	<1	<1	<1	<1	<1	<1	<1
pH at 25 °C	7.94	7.71	7.44	7.56	7.16	7.19	7.24
Electrical Conductivity	241.3	1072.9	641.5	1336.7	1451.7	1013.5	1316.6
Total Dissolved Solids	145	644	385	802	872	608	790
Total hardness as CaCO ₃	65.6	289	212	292	466	318	347
Calcium as Ca	18.7	78.9	50.9	45.7	103.4	76.3	79.8
Magnesium as Mg	4.61	22.30	20.59	43.25	50.45	30.89	35.97
Calcium as CaCO ₃	46.6	197	127	114	258	191	199
Magnesium as CaCO ₃	19.0	91.8	84.7	178.0	208	127	148
Total alkalinity as CaCO ₃	85.2	260	158	294	200	185	276
Chloride as Cl ⁻	47.8	264	127	243	283	189	227
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)
Sulphates as SO ₄ ²⁻	12.87	117	69.0	230	208	150	164
Iron as Fe	0.14	0.05	0.08	0.06	0.13	0.08	0.14
Nitrate as NO ₃	1.35	1.39	3.42	2.83	5.77	3.85	2.68
Fluoride as F	0.28	0.38	0.47	0.59	0.65	0.57	0.38
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)

NOISE ENVIRONMENT

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

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Noise monitoring results					
S. No	Location	Day equivalent	Night equivalent	Day equivalent limits by CPCB	Night equivalent limits by CPCB
1	Project site	53.5	40.3	55	45
2	Pappampatti	52.5	39.3		
3	Kavalapatti	48.6	40.7		
4	Kasanayampatty	50.5	43.3		
5	Chinnakalayamputhur	51.8	44.2		
6	Karadikootam	49.9	41.1		
7	Ayyampalayam	53.8	41.5		

SOIL ENVIRONMENT

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

Result of Soil Analysis									
S.No	Parameter	Unit	S1	S2	S3	S4	S5	S6	S7
1	pH at 25 °C	-	7.10	5.48	7.47	7.14	7.07	7.55	7.96
2	Electrical Conductivity	µmhos /cm	94.9	146	141	186	199	135	184
3	Dry matter content	%	97.44	97.44	94.64	96.97	97.44	94.78	97.36
4	Water Content	%	2.56	2.54	5.36	3.03	4.93	5.22	2.64
5	Organic Matter	%	1.56	1.22	1.84	2.16	1.32	1.35	2.91
6	Soil texture	-	SILTY CLAY	CLAY	SILTY CLAY LOAM	CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY
7	Grain Size Distribution	%	2.67	5.46	8.43	8.19	6.26	6.60	7.88
	i. Sand								
8	ii. Silt								
9	iii. Clay	%	43.79	78.64	23.73	61.58	44.81	48.45	37.90
10	Phosphorous as P	mg/kg	1.45	0.86	1.84	2.06	1.96	1.44	1.36
11	Sodium as Na	mg/kg	670	504	786	590	667	514	960
12	Potassium as K	mg/kg	426	238	389	361	314	260	569
13	Nitrogen and Nitrogenous Compounds	mg/kg	338	131	270	199	233	186	258
14	Total Soluble Sulphate	%	BDL	BDL	BDL	BDL	BDL	BDL	BDL
15	Porosity	%	30.2	45.3	35.1	35.1	46.2	40.6	35.1
16	Water Holding Capacity	Inches /foot	44.3	42.2	40.1	41.1	42.2	44.3	46.4

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. 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.

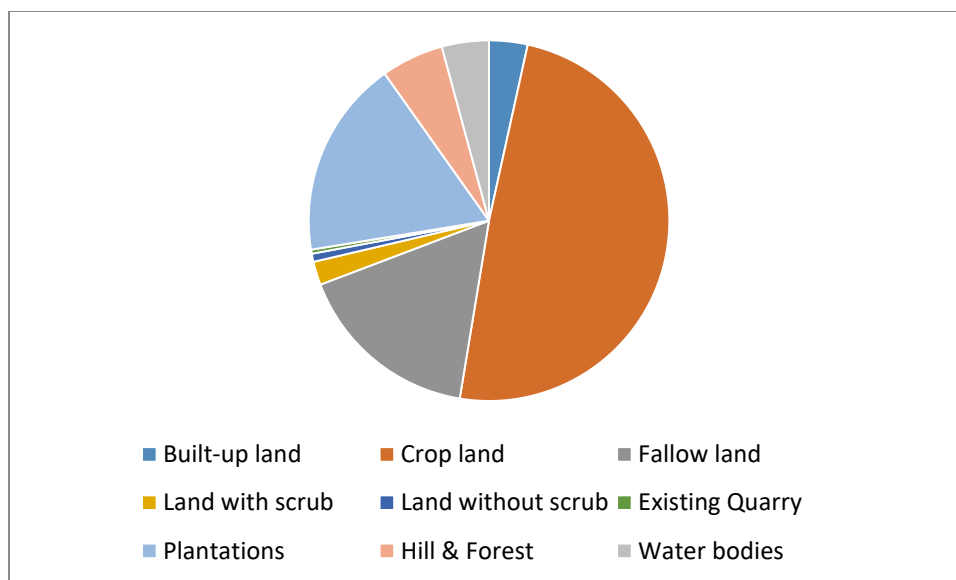
LAND USE

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

Sl.No.	Land Use / Land Cover	Area in Sq.Km	Area in Percentage
1	Built-up land	10.85	3.4
2	Crop land	154.39	49.14
3	Fallow land	52.25	16.63
4	Land with scrub	6.6	2.13
5	Land without scrub	2.3	0.73
6	Existing Quarry	1.15	0.36
7	Plantations	55.76	17.74
8	Hill & Forest	17.6	5.60
9	Water bodies	13.26	4.22
	Total Area	34.9	100

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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.

HYDROGEOLOGY OF THE LEASE AREA

Since there is Kondamur River is located at a distance of 5.5 km in South west direction of lease area, the hydrological and hydrogeological pattern of the study area is studied in detail using satellite imagery.

Kondamur River is the major river in the lease area. But there is no running water currently in the river. Only during monsoons, water gets stagnated at a few places.

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.

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 58m 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

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 58m 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, 1.75.50

Ha of lease area will be left as rain water harvesting pond. 0.59.5Ha 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 595 trees are planned to be planted. Spacing will be 3m x 3m.

WATER ENVIRONMENT: IMPACT AND MITIGATION MEASURES

There is no water body present inside the lease area. The entire water requirement for the project is 4.0 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.

Since the mining operation will be limited upto depth of 58m (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 7.5H.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.

Nilaviyal Odai- adjacent to the mine lease area (N), Sembakulam- 1.58 km (W), Eraviimangalamkulam – 2.41 km (SE) & Pudukulam- 3.93 km (SE) 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

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.

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.

NOISE ENVIRONMENT: IMPACT AND MITIGATION MEASURES

Impacts

✚ Noise generation in mining is due to operation like drilling, blasting and transportation of minerals within and outside the lease area.

✚ As per DGMS (Directorate General of Mines Safety) and OSHA (Occupational Safety and Health Administration) limits, the acceptable noise level is 85 dB(A) for an exposure period of 8 hours.

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

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

Mitigation measures

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

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

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

✚ Conducting regular health checkups for employees involved

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

- ✚ Providing earplugs to all employees

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

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

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.

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.

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 59.80 Lakhs is allocated.

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 29 people directly. Local people will be hired for unskilled labour.
- Through CSR, nearby schools, hospitals will be benefitted.
- For CSR, INR 5,00,000 is allocated.
- Based on the demand of the people during public hearing, further funds will be allocated, if necessary.
- Various aspects of mining activities were considered and related impacts were evaluated. Considering all the possible ways to mitigate the environmental concerns Environmental Management Plan was prepared and 59.80 Lakhs for the Ten 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

புவியியல் மற்றும் சுரங்கத்துறை

ந.க.எண்: 1207/2025 (கனிமம்)

உதவி இயக்குநர் அலுவலகம்,
மாவட்ட ஆட்சியர் அலுவலக வளாகம்,
திண்டுக்கல்.

நாள்: 10.03.2026



குறிப்பாணை

பொருள்: கனிமங்களும் சுரங்கங்களும் - திண்டுக்கல் மாவட்டம் - திண்டுக்கல் மாவட்டம், பழனி வட்டம், வடக்கு வாடிப்பட்டி கிராமம், புல எண்கள். 50/4 (0.28.0 ஹெக்டேர்), 50/5ஏ (0.25.50 ஹெக்டேர்), 51/1 (0.24.50 ஹெக்டேர்), 51/2 (0.23.50 ஹெக்டேர்), 51/3 (0.21.50 ஹெக்டேர்), 51/4 (0.23.50 ஹெக்டேர்), 51/5 (0.24.50 ஹெக்டேர்), 51/6 (0.21.00 ஹெக்டேர்), 51/7 (0.24.50 ஹெக்டேர்), 51/8 (0.20.50 ஹெக்டேர்) ஆகியவற்றில் 2.37.0 ஹெக்டேர் - பத்து வருடங்களுக்கு உடைகல் மற்றும் கிராவல் குவாரி குத்தகை உரிமம் வழங்கல் - உகந்த பரப்பு (Precise Area) தேர்வு செய்யப்பட்டது - சுரங்கத்திட்டம் மற்றும் மாநில அளவிலான சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் இசைவினைப் பெற்று சமர்ப்பிக்க கோருவது - தொடர்பாக.

- பார்வை:**
1. திரு.பா.கோபாலகிருஷ்ணன், த/பெ.பாலுச்சாமி, எண்.5/107, பச்சாபாளையம் தோட்டம், குலூர் வட்டம், கோயம்புத்தூர் என்பவரது மின்னனு விண்ணப்பம் எண். 25DGL0405144 நாள்: 16.10.2025
 2. இவ்வலுவலக கடிதம் ந.க. எண்: 1207/2025 (கனிமம்), நாள்: 28.10.2025 பழனி வருவாய் கோட்டாட்சியருக்கு முகவரியிட்டது.
 3. பழனி வருவாய் கோட்டாட்சியர் கடிதம் எண்: 130/2026/அ7, நாள்: 09.01.2026
 4. உதவி இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை அவர்களின் புலத்தணிக்கை அறிக்கை நாள்: 17.02.2026
 5. திரு.பா.கோபாலகிருஷ்ணன், த/பெ.பாலுச்சாமி, எண்.5/107, பச்சாபாளையம் தோட்டம், குலூர் வட்டம், கோயம்புத்தூர் என்பவரது கடிதம் நாள்: 04.03.2026
 6. 1959 -ம் வருடத்திய தமிழ்நாடு சிறுகனிம சலுகை விதிகள் 41 மற்றும் 42.
 7. அரசாணை எண்.169 தொழில் (எம்.எம்.சி.1) துறை, நாள்: 04.08.2020.
 8. அரசாணை எண்.208, தொழில் (எம்.எம்.சி.1) துறை, நாள்: 21.09.2020.
 9. தொடர்புடைய ஆவணங்கள்.

திண்டுக்கல் மாவட்டம், பழனி வட்டம், வடக்கு வாடிப்பட்டி கிராமம், புல எண்கள். 50/4 (0.28.0 ஹெக்டேர்), 50/5ஏ (0.25.50 ஹெக்டேர்), 51/1 (0.24.50 ஹெக்டேர்), 51/2 (0.23.50 ஹெக்டேர்), 51/3 (0.21.50 ஹெக்டேர்), 51/4 (0.23.50

ஹெக்டேர்), 51/5 (0.24.50 ஹெக்டேர்), 51/6 (0.21.00 ஹெக்டேர்), 51/7 (0.24.50 ஹெக்டேர்), 51/8 (0.20.50 ஹெக்டேர்) ஆகியவற்றில் 2.37.0 ஹெக்டேர் பரப்பில் உடைகல் மற்றும் கிராவல் குவாரி குத்தகை உரிமம் வழங்கக்கோரி திரு.பா.கோபாலகிருஷ்ணன் என்பவர் பார்வை 1-ல் காணும் விண்ணப்பத்தினை சமர்ப்பித்துள்ளார்.

பழனி, வருவாய் கோட்டாட்சியர் மற்றும் புவியியல் மற்றும் சுரங்கத்துறை, உதவி இயக்குநர் ஆகியோரின் அறிக்கையில் விண்ணப்பிக்கப்பட்டுள்ள புல எண்கள் 50/4, 50/5ஏ, 51/1, 51/2, 51/3, 51/4, 51/5, 51/6, 51/7 மற்றும் 51/8 ஆகியவை பட்டா எண்.1089-ன்படி பாலுச்சாமி மகன் கோபாலகிருஷ்ணன்(1), வேலுச்சாமி மகன் தினேஷ்(2), ராமசாமி மகன் பாலச்சந்துரு (3), மயில்சாமி மகன் கார்த்தி (4) ஆகியோர் பெயரில் பட்டா தாக்கலாகியுள்ளது என்றும், கூட்டுப்பட்டாதாரர்களான வேலுச்சாமி மகன் தினேஷ்-1, ராமசாமி மகன் பாலச்சந்துரு-2, மயில்சாமி மகன் கார்த்தி-3 ஆகிய மூவரும் மனுதாரர் திரு.பா.கோபாலகிருஷ்ணன் என்பவருக்கு குத்தகை பத்திர ஆவண எண். 3251/2025 நாள்: 02.09.2025-ன்படி 15 ஆண்டுகளுக்கு மட்டும் குத்தகை பத்திரம் செய்து கொடுத்துள்ளனர் எனவும், விண்ணப்பிக்கப்பட்ட புலங்களில் இருந்து 300 மீட்டர் சுற்றளவிற்குள் அங்கீகரிக்கப்பட்ட குடியிருப்புகள், வழிபாட்டுதலங்கள், வீட்டுமனைகள் ஏதுமில்லை என்றும், 50 மீட்டர் சுற்றளவில் தேசிய/மாநில நெடுஞ்சாலைகள், ஆறுகள், உயர் /தாழ்வழுத்த மின்கம்பங்கள், உயர் வகை மரங்கள் இல்லை எனவும், மனுதாரர் விண்ணப்ப புலங்களின் மேற்கு புல எண்.52 மற்றும் தெற்கு புல எண்.46-ல் செல்லும் வண்டிப்பாதை செல்கிறது எனவும், மேலும் புலங்களில் இருந்து உடைகற்கள் உற்பத்தி செய்ய இயலும் என தெரிவித்து கீழ்காணும் நிபந்தனைகளுக்குட்பட்டு மேற்கண்ட புலங்களில் உடைகல் குவாரி குத்தகை உரிமம் பத்து (10) ஆண்டுகளுக்கு வழங்க பரிந்துரை செய்துள்ளனர்.

- 1) அருகிலுள்ள பட்டா நிலங்களுக்கு 7.5 மீ மற்றும் அரசு புறம்போக்கு நிலங்களுக்கு 10 மீ பாதுகாப்பு இடைவெளி விடுத்து குவாரி செய்தல் வேண்டும்.
- 2) விண்ணப்ப புலங்களின் மேற்கு புல எண்.52 மற்றும் தெற்கு புல எண்.46-ல் செல்லும் வண்டிப்பாதைக்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட வேண்டும்.
- 3) 1959 ஆம் வருடத்திய தமிழ்நாடு சிறுகனிமச் சலுகை விதிகள் விதி எண். 41 மற்றும் 42-ன்படி சுரங்கத்திட்டம் மற்றும் சுற்றுச்சூழல் தடையில்லாச் சான்று குத்தகை உரிமம் வழங்குவதற்கு முன் சமர்ப்பிக்க வேண்டும்.

எனவே, துறை அலுவலர்களின் பரிந்துரை மற்றும் மனுதாரரின் கோரிக்கையினை ஏற்றும் நிபந்தனைகளுக்கு உட்பட்டும், திண்டுக்கல் மாநிலம், பழனி வட்டம், வடக்கு வாடிப்பட்டி கிராமம், புல எண்கள். 50/4 (0.28.0 ஹெக்டேர்), 50/5ஏ (0.25.50 ஹெக்டேர்), 51/1 (0.24.50 ஹெக்டேர்), 51/2 (0.23.50 ஹெக்டேர்), 51/3 (0.21.50 ஹெக்டேர்), 51/4 (0.23.50 ஹெக்டேர்), 51/5 (0.24.50 ஹெக்டேர்), 51/6 (0.21.00 ஹெக்டேர்), 51/7 (0.24.50 ஹெக்டேர்), 51/8 (0.20.50 ஹெக்டேர்) ஆகியவற்றில் 2.37.0 ஹெக்டேர் பரப்பில் உடைகல் குவாரி குத்தகை உரிமம் 1959-ம் வருடத்திய தமிழ்நாடு சிறுகனிம சலுகை விதிகள் விதி எண்: 19 (1) மற்றும் 20-ன்படி பத்து (10) வருட காலத்திற்கு உடைகல் மற்றும் கிராவல் குவாரி உரிமம் வழங்க தகுதி வாய்ந்த நிலப்பரப்பாக (Precise Area) கருதப்படுகிறது.

தமிழ்நாடு சிறுகனிம சலுகை விதிகள்-1959 விதி எண்: 41 -ன்படி குவாரி பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்கத் திட்டத்தினை (Mining Plan) 90 தினங்களுக்குள் சமர்ப்பிக்குமாறும், விதி எண்: 42-ன்படி மாநில அளவிலான சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் (State Level Environmental Impact Assessment Authority) இசைவினைப் பெற்று சமர்ப்பிக்குமாறும் மனுதாரர் திரு.பா.கோபாலகிருஷ்ணன் என்பவர் கேட்டுக் கொள்ளப்படுகிறார்.

உதவி இயக்குநர்,
புவியியல் மற்றும் சுரங்கத்துறை,
திண்டுக்கல்.

பெறுநர்

திரு.பா.கோபாலகிருஷ்ணன்,
த/பெ.பாலுச்சாமி,
எண்.5/107,
பச்சாபாளையம் தோட்டம்,
சூலூர் வட்டம்,
கோயம்புத்தூர் மாவட்டம்

நகல்

உறுப்பினர் செயலர்,
மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையம் (SEIAA),
சென்னை.



ANNEXURE-2

From

S.Krishna Mohan,
Assistant Director,
Geology and Mining,
Dindigul

To

Thiru.B.Gopalakrishnan,
S/o.Balusamy,
No.5/107, Pachapalayam Thottam
Sulur Taluk,
Coimbatore

Rc.No. 1207/2025 (Mines), dated: .04.2026.

Sir,

Sub: Mines and Minerals - Minor Mineral - Rough stone -
Dindigul District - Palani Taluk - North Vadipatti Village -
Patta Land in S.F.No.50/4, 50/5A, 51/1, 51/2, 51/3, 51/4,
51/5, 51/6, 51/7 & 51/8 over an extent of 2.37.0 Hectare -
preferred by Thiru.B.Gopalakrishnan - Precise area
communicated - Submission of Mining Plan for approval -
Approved - Regarding.

- Ref: 1. Application from Thiru.B.Gopalakrishnan,
S/o.Balusamy, Sulur Taluk Coimbatore online
application No.25DGL0405144 dated 16.10.2025
2. Precise Area Communication letter Rc.No.1207/2025
(Mines), dated 10.03.2026
3. Mining Plan submitted by Thiru.B.Gopalakrishnan,
S/o.Balusamy, Sulur Taluk Coimbatore
dated.24.03.2026

In the reference 2nd cited, the Assistant Director of Geology and Mining Dindigul has communicated the S.F.No. S.F.No.50/4, 50/5A, 51/1, 51/2, 51/3, 51/4, 51/5, 51/6, 51/7 & 51/8 over an extent of 2.37.0 Hect of North Vadipatti Village, Palani Taluk, Dindigul District as precise area to the applicant Thiru.B.Gopalakrishnan for grant of quarry lease for quarrying Rough Stone and Gravel for a period of 10 years with a direction to produce an approved mining plan in respect of the precise area as per Rule 41 of Tamil Nadu Minor Mineral Concession Rules, 1959 by incorporating the conditions stipulated in the Assistant Director of Geology and Mining letter dated 10.03.2026.

In response to the precise area communication letter issued by the Assistant Director of Geology and Mining Dindigul vide reference 2nd cited, the applicant has submitted three copies of mining plan duly prepared by Qualified Person for approval vide reference 3rd cited.

The draft mining plan submitted in respect of the precise area communication has been examined with reference to the provisions of Rule 41 of Tamil Nadu Minor Mineral Concession Rules, 1959 and the followings are observed.

i) All the conditions stipulated in the Assistant Director of Geology and Mining Dindigul Letter Rc.No.1207/2025 (Mines) dated: 10.03.2026 have been incorporated in the mining plan.

ii) The boundary Co-ordinates (GPS readings) for the entire boundary pillars of the area have been incorporated and shown in the mining plan.

iii) The Geological resources is 13,01,300 Cbm (or) 35,78,575 MT of Roughstone and 70,980 Cbm (or) 1,41,960 MT of Gravel. After deducting safety distances and bench loss, the Mineable reserves fixed for Roughstone is 3,71,595 Cbm (or) 10,21,886.25 MT for the 10 years; for Gravel, the reserves are 52,965 Cbm (or) 1,05,930 MT.

The applicant has proposed to carryout 2,09,475 Cbm (or) 5,76,798.75MT of Roughstone and 52,965 Cbm (or) 1,05,930 MT of Gravel for the first five years and remaining quantity of 1,61,850cbm (or) 4,45,087.50 MT of Roughstone for the period of second five years upto a depth of 58m (below ground level).

4. In the light of the above, in exercise of the powers conferred under Rule 41 (7) of Tamil Nadu Minor Mineral Concession Rules, 1959 the mining plan in respect of Rough Stone & Gravel quarry of Thiru.B.Gopalakrishnan is approved subject to the following conditions.

i) The applicant must adhere to benching slope, safety distances depth and boundary conditions as indicated in the approved mining plan without deviation.

ii) 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.

iii) The approval of the mining plan does not in any way imply the approval of the Government it terms of 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, Forest

Conservation Rules, 1981, Environment Protection Act, 1980, Indian Explosives Act, 1884 (Central Act IV of 1884) and the rules made there under and the Tamil Nadu Minor Mineral Concession Rules, 1959.

iv) The mining Plan is approved without prejudice to any other order or direction from any court of competent jurisdiction.

v) Quarrying operations and production shall be carried out as per the approved Mining Plan and the applicant shall be liable to pay the cost of mineral if there is any deviation in the quantum indicated in the approved year wise quantum of production and any such cases as on date are to be dealt with as per Court direction.

Encl: 2 Copies of Approved Mining Plan.

Chidambaram 21.08.2016
Assistant Director,
Geology and Mining,
Dindigul

Copy submitted to:

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



ANNEXURE-3

From

S.Krishna Mohan,
Assistant Director,
Geology and Mining,
Dindigul

To

Thiru.B.Gopalakrishnan,
S/o.Balusamy,
No.5/107, Pachapalayam Thottam
Sulur Taluk,
Coimbatore

Rc.No. 1207/2025 (Mines), dated: 21.04.2026.

Sir,

Sub: Mines and Minerals - Minor Mineral - Rough stone -
Dindigul District - Palani Taluk - North Vadipatti Village
- Patta Land in S.F.No.50/4, 50/5A, 51/1, 51/2, 51/3,
51/4, 51/5, 51/6, 51/7 & 51/8 over an extent of
2.37.0 Hectare - preferred by Thiru.B.Gopalakrishnan
- requesting Rough Stone quarry lease - Details of quarries
located in 500m radius - requested - furnished - reg.

Ref: Mining Plan submitted by Thiru.B.Gopalakrishnan,
S/o.Balusamy, Sulur Taluk Coimbatore dated.24.03.2026

♦♦♦♦♦

In the reference cited, Thiru.B.Gopalakrishnan the applicant of
proposed Rough Stone quarry lease in S.F.No.50/4, 50/5A, 51/1, 51/2,
51/3, 51/4, 51/5, 51/6, 51/7 & 51/8 over an extent of 2.37.0 Hectare., of
North Vadipatti Village, Palani Taluk has requested to furnish the details of
quarries located within 500 meters radius from his proposed quarry.

In this regard, the followings are furnished.

i). Existing quarries

Sl. No.	Name of the Owner (Tvl.)	Village & S.F. Nos.	Extent in Hect.	Lease Period
1.	P.Devaraj, S/o.Palanisamy Gounder, D.No.30, Thirukumaran Nagar, Singanallur, Coimbatore	North Thathanaicken patti 160/1(P)	2.00.0	13.09.2021 to 12.09.2026
2.	S.Manikandan, S/o.Sooriyamoorthi No.2/227, Kallar Street, Karambaviduthy, Karambakkudi Taluk, Pudukottai District	North Thathanaicken patti 49(P)	1.20.0	23.11.2021 to 22.11.2026

ii). Expired / Abandoned quarries

Sl. No.	Name of the Owner (Tvl.)	Village & S.F. Nos.	Extent in Hect.	Lease Period
--NIL--				

iii). Present Proposed quarries

Sl. No	Name of the Owner (Tvl)	Village & S.F. Nos.	Extent in Hect.	Lease Period
1.	Tmt.S.Thamayanathi, W/o.Shanmugam. No.1/132, Kannamma Agam,R.G.Nagar, Chenniyampalayam, Tirupur	47/1(P), 47/2(P) & 47/3(P) North Thatha naickenpatti	1.75.0	applied area
2.	Thiru.P.Manikandan, S/o.Perumalsamy, Door No.7/68, Kinathukadavu, Karachery, Coimbatore	157/2 North Thatha naickenpatti	1.48.0	applied area
3.	Thiru.B.Gopalakrishnan, S/o.Balusamy, No.5/107, Pachapalayam Thottam Sulur Taluk, Coimbatore	50/4, 50/5A, 51/1, 51/2, 51/3, 51/4, 51/5, 51/6, 51/7 & 51/8 North Vadipatti	2.37.0	applied area


Assistant Director,
Geology and Mining,
Dindigul