

EXECUTIVE SUMMARY FOR
PROPOSED ROUGH STONE AND GRAVEL QUARRY
CATEGORY – B1 (CLUSTER AREA – 6.13.65 Ha.)

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

ToR Identification No. TO26B0108TN5944134N (F. No. 13506), Dated 1304.2026

PROPOSED QUARRY LEASE DETAILS	
SURVEY NOS	127/2(P), 127/4A(P), 127/7A(P) & 127/8A(P)
VILLAGE	ATHIPALAYAM
TALUK	PUGALUR
DISTRICT	KARUR
EXTENT	1.19.25 Ha
CLUSTER EXTENT	6.13.65
PROPOSED PRODUCTION FOR 5 Years	95,750 m ³ OF ROUGH STONE AND 10,440 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 – 6.13.65 Ha

Baseline Monitoring Period – December 2025 to February 2026

APPLICANT

THIRU.K.NAGARAJ,

S/O.KUMAR,

NO.12/1A, PORKODI COMPOUND, PUTHUKADU 2ND STREET,

TIRUPPUR T.C. MARKET, TIRUPPUR -641604.

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 rd , 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) #416/15, Dhargas Road, Perungalathur, West Tambaram, Chennai, Tamil Nadu, India.

EXECUTIVE SUMMARY

1.1 INTRODUCTION

Environmental Impact Assessment (EIA) as a management 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 and Gravel Quarry located at S.F.No. 127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) in Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State., for production capacity of 95,750 m³ of Rough Stone and 10,440 m³ of Gravel for Five years with ultimate depth up to 32 m BGL. The mining plan has prepared and same was approved by Assistant Director, Department of Geology and Mining, Karur, vide Rc.No.170/ Kanimam/ 2024 dated 02.01.2026.

As per EIA notification, 2006 and its subsequent amendments the proposed "Rough Stone and Gravel Quarry of Thiru. K. Nagaraj" 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 1.19.25 Ha which is >5 Ha. The ToR for the preparation of EIA/EMP was approved vide ToR identification number TO26B0108TN5944134N, Dated: 13.04.2026. This report has been prepared in line with the approved TOR for maximum excavation of 95,750 m³ of Rough Stone and 10,440 m³ of Gravel for Five years with ultimate depth up to 32 BGL.

EXECUTIVE SUMMARY OF PROPOSED ROUGH STONE AND GRAVEL QUARRY OF THIRU.K. NAGARAJ OVER AN EXTENT OF 1.19.25HA LOCATED AT S.F.NOS. 127/2(P), 127/4A(P), 127/7A(P) AND 127/8A(P) OF ATHIPALAYAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE

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	Fresh Quarry
5.	Extent of the lease	1.19.25 Ha and the cluster area within 500 m radius including the proposed mine is 6.13.65 Ha > 5 Ha
6.	Proposed depth of Mining	32 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	95,750 m ³ Of Rough Stone And 10,440 m ³ Of Gravel

Thiru. K. Nagaraj, is an individual with sound experience in the identification, quarrying and marketing of Rough Stone.

1.2 LOCATION

The proposed Quarry lease area is situated at S.F.No. 127/2(P), 127/4A(P), 127/7A(P) and 127/8A(P) over an extent of 1.19.25 Ha., in Athipalayam Village, Pugalur Taluk, Karur District, Tamil Nadu State. The area lies in the northern Latitude: 11°01'36.76"N to 11°01'40.32"N eastern Longitude: 77°54'45.61"E to 77°54'51.99"E with Survey of India Topo Sheet No.58 E/16. 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. December 2025 to February 2026)

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

EXECUTIVE SUMMARY OF PROPOSED ROUGH STONE AND GRAVEL QUARRY OF THIRU.K. NAGARAJ OVER AN EXTENT OF 1.19.25HA LOCATED AT S.F.NOS. 127/2(P), 127/4A(P), 127/7A(P) AND 127/8A(P) OF ATHIPALAYAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE

peninsular Gneisses, a high-grade metamorphic rock. The strike of the Charnockite formation is N45°E – S45°W with dipping towards SE60°.

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 32 m below ground level. The geological reserves are estimated to be 3,57,600 m³ of Rough Stone and 23,840 m³ of Gravel. The mineable reserve calculated by deducting 10m safety distance and bench loss. The mineable reserves are 95,750 m³ of Rough Stone and 10,440 m³ of Gravel which will be recovered at the rate of 100% recovery upto a depth of 32 m Below ground level for the period of five 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	95,750 m3 of Rough Stone and 10,440 m3 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	32 m (BGL)
10	End use	Rough Stone will be loaded into tippers to needy buyers for producing aggregates, M-sand.

EXECUTIVE SUMMARY OF PROPOSED ROUGH STONE AND GRAVEL QUARRY OF THIRU.K. NAGARAJ OVER AN EXTENT OF 1.19.25HA LOCATED AT S.F.NOS. 127/2(P), 127/4A(P), 127/7A(P) AND 127/8A(P) OF ATHIPALAYAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE

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 3.0 KLD which will be procured from the outside agencies. Out of 1.0 KLD drinking water requirements, Green belt development is 1.0 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. Total Fuel requirement is 6,03,443 L for entire life of the project.
3	Manpower requirement	25 Nos.
4	Financial requirement	The total project cost as per PFR will be INR 84.60 lakhs including Operational cost, Fixed Asset cost and EMP cost
5	Funds for Socio economic development	INR 3.0 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	
A	Wetlands, water courses or other water bodies,	1. Seasonal odai – 50m (NW) 2. Seasonal odai – 50m (S) 3. Seasonal odai – 160m (E) 4. Noyyal River-1.49Km (NW)

EXECUTIVE SUMMARY OF PROPOSED ROUGH STONE AND GRAVEL QUARRY OF THIRU.K. NAGARAJ OVER AN EXTENT OF 1.19.25HA LOCATED AT S.F.NOS. 127/2(P), 127/4A(P), 127/7A(P) AND 127/8A(P) OF ATHIPALAYAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE

		5. Kaveri River- 4.91Km (N)
B	Coastal zone, biospheres,	Nil within 10km radius
C	Mountains, forests	Nil within a 10Km radius. Arachalur R.F. – 28.24 km (NW)
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	Athipalayam Village – 799m (N)
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Athipalayam Village – 799m (N)
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.

EXECUTIVE SUMMARY OF PROPOSED ROUGH STONE AND GRAVEL QUARRY OF THIRU.K. NAGARAJ OVER AN EXTENT OF 1.19.25HA LOCATED AT S.F.NOS. 127/2(P), 127/4A(P), 127/7A(P) AND 127/8A(P) OF ATHIPALAYAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE

The baseline data collection for meteorology, air, water, noise and soil environments have been carried out during December 2025 to February 2026.

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 7 locations and the results are given below.

Details Of Ambient Air Quality Monitoring Locations			
S. No.	Station Code	Locations	Coordinates
1	AAQ 1	Within Mine Lease area	11° 1'38.20"N & 77°54'48.06"E
2	AAQ 2	Iyampalayam	11° 1'38.28"N & 77°55'45.70"E
3	AAQ 3	Valayapalayam	11° 2'36.50"N & 77°55'4.84"E
4	AAQ 4	Athipalayam	11° 1'32.48"N & 77°54'0.97"E
5	AAQ 5	Andisangilipalayam	10°59'54.73"N & 77°55'58.02"E
6	AAQ 6	Salapudur	11° 3'31.43"N & 77°53'5.28"E
7	AAQ 7	Munnur	10°59'46.18"N & 77°53'18.66"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/m ³)			
AAQ-1	24.5	32.5	28.6
AAQ-2	20.3	25.9	23.1
AAQ-3	18.4	23.6	20.6
AAQ-4	18.0	24.6	21.2
AAQ-5	20.7	26.0	23.3
AAQ-6	22.7	26.8	24.6
AAQ-7	22.7	26.9	24.8
CPCB NAAQS 2009 for PM _{2.5} - 60 µg/m ³			
Particulate matter PM ₁₀ (µg/m ³)			
AAQ-1	52.9	70.3	61.9
AAQ-2	43.2	54.9	48.6
AAQ-3	40.4	49.6	45.0
AAQ-4	39.3	53.2	46.1

EXECUTIVE SUMMARY OF PROPOSED ROUGH STONE AND GRAVEL QUARRY OF THIRU.K. NAGARAJ OVER AN EXTENT OF 1.19.25HA LOCATED AT S.F.NOS. 127/2(P), 127/4A(P), 127/7A(P) AND 127/8A(P) OF ATHIPALAYAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE

AAQ-5	43.9	55.5	49.4
AAQ-6	49.8	57.8	53.1
AAQ-7	48.9	58.6	53.5
CPCB NAAQS 2009 for PM₁₀ - 100 µg/m³			
Sulphur Di-oxide as SO₂ (µg/m³)			
AAQ-1	4.4	6.1	5.4
AAQ-2	4.2	5.2	4.7
AAQ-3	4.5	9.3	6.9
AAQ-4	3.9	6.1	4.9
AAQ-5	4.2	5.8	4.9
AAQ-6	4.4	5.8	5.0
AAQ-7	4.4	6.6	5.5
CPCB NAAQS 2009 for SO₂ – 80 µg/m³			
Oxide of Nitrogen as NO₂ (µg/m³)			
AAQ-1	7.1	12.3	9.8
AAQ-2	7.6	10.5	9.1
AAQ-3	6.0	10.8	8.4
AAQ-4	7.0	9.3	8.2
AAQ-5	8.2	11.4	10.0
AAQ-6	9.1	12.9	10.9
AAQ-7	8.7	13.8	11.0
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	
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	<1.0	<1	<1	1	5
pH at 25 °C	7.76	7.82	7.78	8.28	7.69	8.34	7.57	6.5-8.5	No Relaxation
Electrical Conductivity	1293.6	2070.6	1255.8	1076.3	1217	769.1	873.2	-	-

EXECUTIVE SUMMARY OF PROPOSED ROUGH STONE AND GRAVEL QUARRY OF THIRU.K. NAGARAJ OVER AN EXTENT OF 1.19.25HA LOCATED AT S.F.NOS. 127/2(P), 127/4A(P), 127/7A(P) AND 127/8A(P) OF ATHIPALAYAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE

Total Dissolved Solids	778	1242	760	650	732	462	530	500	2000
Total hardness as CaCO ₃	519	365	347	152	338	229	294	200	600
Calcium as Ca	112	84.8	69.3	29.3	68.0	51.2	73.9	75	200
Magnesium as Mg	57.2	36.8	41.6	19.0	40.3	24.2	26.2	30.0	100
Calcium as CaCO ₃	280	212	173	73.2	170	128	185	-	-
Magnesium as CaCO ₃	238	153	173	79	168	101	109	-	-
Total alkalinity as CaCO ₃	296	483	307	199	305	215	242	200	600
Chloride as Cl ⁻	221	523	116	248	107	137	155	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⁻	126	332	305	193	294	52.7	57.1	200	400
Iron as Fe	0.07	BDL(D L-0.01)	BDL(D L-0.01)	0.08	BDL(D L-0.01)	0.08	0.07	0.3	No Relaxation
Nitrate as NO ₃	2.57	4.88	4.08	2.88	3.74	1.56	2.22	45	No Relaxation
Fluoride as F	0.58	0.51	0.46	0.5	0.38	0.47	0.6	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

EXECUTIVE SUMMARY OF PROPOSED ROUGH STONE AND GRAVEL QUARRY OF THIRU.K. NAGARAJ OVER AN EXTENT OF 1.19.25HA LOCATED AT S.F.NOS. 127/2(P), 127/4A(P), 127/7A(P) AND 127/8A(P) OF ATHIPALAYAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE

Surface Water Analysis Results

S.No	Parameter	Unit	SW1	SW2	Surface water standards (IS 2296 Class-A)
1	Odour	-	AGREEABLE	AGREEABLE	-
2	Turbidity	NTU	2.4	4.8	1
3	pH at 25 °C	-	7.62	7.85	6.5-8.5
4	Electrical Conductivity	µs/cm	1420	1850	-
5	Total Dissolved Solids	mg/l	880	1450	500
6	Total hardness as CaCO ₃	mg/l	310	440	-
7	Calcium as Ca	mg/l	73	90.0	300
8	Magnesium as Mg	mg/l	30.7	51.6	-
9	Calcium as CaCO ₃	mg/l	182	225	-
10	Magnesium as CaCO ₃	mg/l	128	215	-
11	Total alkalinity as CaCO ₃	mg/l	245	412	-
12	Chloride as Cl ⁻	mg/l	256	326	-
13	Free Residual chlorine as Cl ⁻	mg/l	BDL (D.L - 0.2)	BDL(DL-0.2)	250
14	Sulphates as SO ₄ ²⁻	mg/l	112	198	400
15	Iron as Fe	mg/l	0.08	0.15	1.0
16	Nitrate as NO ₃	mg/l	3.65	4.98	20
17	Fluoride as F	mg/l	0.59	0.63	1.5
18	Manganese as Mn	mg/l	BDL (D.L - 0.05)	BDL(DL-0.05)	0.5
19	TSS	mg/l	12	8	
20	DO	mg/l	6.2	5.8	
21	COD	mg/l	BDL	BDL	
22	BOD	mg/l	BDL	BDL	

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.

EXECUTIVE SUMMARY OF PROPOSED ROUGH STONE AND GRAVEL QUARRY OF THIRU.K. NAGARAJ OVER AN EXTENT OF 1.19.25HA LOCATED AT S.F.NOS. 127/2(P), 127/4A(P), 127/7A(P) AND 127/8A(P) OF ATHIPALAYAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE

Noise monitoring results					
S. No	Location	Day equivalent	Night equivalent	Day equivalent limits by CPCB	Night equivalent limits by CPCB
1	Within Mine Lease area	51.2	44.2	75	70
2	Iyampalayam	47.4	39.8		
3	Valayapalayam	47.6	39.6		
4	Athipalayam	48.7	41.1		
5	Andisangilipalayam	49.9	40.2		
6	Salapudur	51.2	40.8		
7	Munnur	47.1	39.1		

1.10 SOIL ENVIRONMENT

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

S.No	Parameter	Unit	S1	S2	S3	S4	S5	S6	S7
1	PH	-	8.61	6.66	7.19	6.75	7.12	6.83	7.27
2	EC	µmhos/cm	100.47	51.89	172.14	81.12	197.69	69.94	95.65
3	DRY CONTENT	%	95.17	96.21	97.21	94.32	92.54	91.76	97.62
4	WATER CONTENT	%	4.83	3.79	2.79	5.68	7.46	8.24	2.38
5	ORGANIC MATTER	%	0.48	1.28	1.11	0.83	1.11	1	1.4
6	TOTAL SOLUBLE SULPHATE	-	BDL(D .L.0.02)	BDL(D .L.0.02)	BDL(D .L.0.02)	BDL(D .L.0.02)	BDL(D .L.0.02)	BDL(D .L.0.02)	BDL(D .L.0.02)
7	PHOSPHOROUS	mg/kg	0.92	1.89	2.25	1.42	2.93	3.15	2.55
	TEXTUER	-	SILT LOAM	silty clay	silty clay loam	silt loam	silty clay loam	silt loam	loam
8	SAND	%	28.17	9.48	14.15	25.83	14.16	30.79	35.76
9	SILT	%	62.03	50.4	50.43	72.33	51.15	56.53	52.53
10	CLAY	%	9.80	40.12	35.42	1.84	34.69	12.68	11.71
11	NITROGEN & NITREGENOUS COMPOUNDS	mg/kg	362.5	276.7	301	662.5	320.1	233.2	467.5
12	SODIUM	mg/kg	811	437	1094	610	1124	367	418
13	POTASSIUM	mg/kg	544	689	907	789	937	760	663
14	Water Holding Capacity	Inches/foot	43.5	40.3	44.5	42.4	44.5	43.5	44.5
15	Porosity	%	20.8	19.3	20.5	18.6	20.8	21	21.4

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.

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 (%)
1	Built-up Land	14.07	4.51
2	Crop Land	223.53	71.15
3	Existing Quarry	3.27	1.04
4	Fallow Land	5.89	1.87
5	Land with Scrub	5.23	1.66
6	Land without Scrub	19.78	6.29
7	Plantation	28.28	9.06
8	Water Body	13.91	4.42
Total		314.16	100.0

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.

The expert visited nearby villages in the study area. Discussions were held with the people from nearby locality to study the social and economic conditions prevailing in the area. The expert also visited nearby hospitals 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 Pugalur which is about 4.63 km (SE) from the lease area. Major schools with higher secondary and senior secondary schools are located in Pugalur. The major Pugalur Union located in the area is karur. Facilities like petrol pump stations, ATM facility are available in Pugalur.

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 32 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 32 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, 0.79.90 Ha of lease area will be left as rain water harvesting pond. 0.37.35 Ha will be developed with green belt. For this, plants like Pongamia pinnata, Syzigium cumini,

EXECUTIVE SUMMARY OF PROPOSED ROUGH STONE AND GRAVEL QUARRY OF THIRU.K. NAGARAJ OVER AN EXTENT OF 1.19.25HA LOCATED AT S.F.NOS. 127/2(P), 127/4A(P), 127/7A(P) AND 127/8A(P) OF ATHIPALAYAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE

Albizia lebbeck, Thespesia populnea, Bauhinia racemose, Cassia siamea, Azadirachta indica are selected. A total of 373 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 3.0 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 32 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. 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.

EXECUTIVE SUMMARY OF PROPOSED ROUGH STONE AND GRAVEL QUARRY OF THIRU.K. NAGARAJ OVER AN EXTENT OF 1.19.25HA LOCATED AT S.F.NOS. 127/2(P), 127/4A(P), 127/7A(P) AND 127/8A(P) OF ATHIPALAYAM VILLAGE, PUGALUR TALUK, KARUR DISTRICT, TAMIL NADU STATE

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 (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 3,00,000 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 19.96 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 25 people directly. Local people will be hired for unskilled labour.
- Through CSR, nearby schools, hospitals will be benefitted.
- For CSR, INR 3,00,000 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 19.96 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

ந.க.எண். 170/கனிமம்/2024

மாவட்ட ஆட்சியர் அலுவலகம்,
புவியியல் மற்றும் சுரங்கத்துறை,
கரூர்

நாள்: 09.12.2025.

குறிப்பாணை

பொருள்: கனிமங்களும் குவாரிகளும் - கரூர் மாவட்டம் - புகழூர் வட்டம் - அத்திப்பாளையம் கிராமம், பட்டா புல எண்கள்.127/2(P) (0.28.75 ஹெக்டேர்ஸ்), 127/3A (0.08.00 ஹெக்டேர்ஸ்), 127/4A(P) (0.40.25 ஹெக்டேர்ஸ்), 127/7A(P) (0.30.75 ஹெக்டேர்ஸ்) மற்றும் 127/8A(P) (0.19.50 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 1.27.25 ஹெக்டேர்ஸ் பரப்பில் - சாதாரணகற்கல் மற்றும் கிராவல் குவாரி குத்தகை உரிமம் வேண்டி திரு.K.நாகராஜ் என்பவர் விண்ணப்பம் செய்தது - வருவாய் கோட்டாட்சியர் நிலயிருப்பு அறிக்கை வரப்பெற்றது - உதவி இயக்குநர் புலத்தணிக்கை மேற்கொண்டு அறிக்கை சமர்ப்பித்தது - புல எண்.127/3A அருகே ஓடை செல்வதால் ஓடைக்கு அருகில் உள்ள மேற்படி புல எண்ணை தவிர்த்து மீதம் உள்ள புல எண்கள். 127/2(P) (0.28.75 ஹெக்டேர்ஸ்), 127/4A(P) (0.40.25 ஹெக்டேர்ஸ்), 127/7A(P) (0.30.75 ஹெக்டேர்ஸ்) மற்றும் 127/8A(P) (0.19.50 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 1.19.25 ஹெக்டேர்ஸ் தகுதியான நிலப்பரப்பாக கருதி ஏற்பளிக்கப்பட்ட சுரங்க திட்டம் மற்றும் மாநில சுற்றுச்சூழல் தாக்கல் மதிப்பீட்டு ஆணைய இசைவினை பெற்று சமர்ப்பிக்கக் கோருதல் - தொடர்பாக.

- பார்வை:**
1. திரு.K.நாகராஜ், த/பெ.குமார், நெ.12/1ஏ, பொற்கொடி காம்ப்வுண்ட், புதுகாடு 2 வீதி, திருப்பூர் டி.சி.மார்க்கெட், திருப்பூர் - 641604 குவாரி குத்தகை உரிமம் வழங்கக் கோரும் விண்ணப்பம் நாள்: 11.06.2024.
 2. திரு.K.நாகராஜ், என்பவரின் திருத்திய விண்ணப்பம் இவ்வலுவலகத்தில் பெறப்பட்ட நாள்: 03.01.2025
 3. வருவாய் கோட்டாட்சியர், கரூர் அவர்களின் நில இருப்பு அறிக்கை ந.க.எண்.அ1/2831/2025, நாள்: 15.10.2025.
 4. உதவி இயக்குநர் மற்றும் தனிவருவாய் அலுவலர், புவியியல் மற்றும் சுரங்கத்துறை கரூர் ஆகியோரின் கூட்டு புலத்தணிக்கை அறிக்கை நாள்: 13.11.2025.
 5. அரசாணை (பல்வகை) எண். 169, தொழில் (எம்.எம்.சி-1) துறை நாள்: 04.08.2020 இணைத்து வரப்பெற்றுள்ளது. (தமிழ்நாடு அரசிதழ் சிறப்பு வெளியீடு எண். 315 நாள்: 04.08.2020).

K. N. N. N.



கரூர் மாவட்டம், புகழூர் வட்டம், அத்திப்பாளையம் கிராமம், பட்டா புல எண்கள், 127/2 (0.43.00 ஹெக்டேர்ஸ்), 127/3A (0.08.00 ஹெக்டேர்ஸ்), 127/4A (0.67.00 ஹெக்டேர்ஸ்), 127/4C (0.12.0 ஹெக்டேர்ஸ்), 127/7A (0.55.00 ஹெக்டேர்ஸ்), 127/8A (0.47.50 ஹெக்டேர்ஸ்) மற்றும் 127/8C(P) (0.08.00 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 2.40.50 ஹெக்டேர்ஸ் பரப்பு நிலத்திலிருந்து பத்து ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க நெ.12/1ஏ, பொற்கொடி கம்பவுண்ட், புதுகாடு 2 வீதி, திருப்பூர் டி.சி.மார்க்கெட், திருப்பூர் - 641604 என்ற முகவரியில் வசித்து வரும் திரு.க.நாகராஜ், த/பெ.குமார் என்பவர் பார்வை 1-இல் கண்டுள்ளவாறு விண்ணப்பம் செய்துள்ளார்.

பார்வை 2-இல் காணும் விண்ணப்பத்தில் திரு.க.நாகராஜ் என்பவர் தான் ஏற்கனவே விண்ணப்பித்த இடத்திற்கு அருகே ஓடை செல்வதால் ஓடைக்கு அருகில் உள்ள புல எண்களை தவிர்த்து மீதம் உள்ள பட்டா புல எண்கள். 127/2(P) (0.28.75 ஹெக்டேர்ஸ்), 127/3A (0.08.00 ஹெக்டேர்ஸ்), 127/4A(P) (0.40.25 ஹெக்டேர்ஸ்), 127/7A(P) (0.30.75 ஹெக்டேர்ஸ்) மற்றும் 127/8A(P) (0.19.50 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 1.27.25 ஹெக்டேர்ஸ் பரப்பில் மட்டும் பத்து ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க கோரியுள்ளார்.

எனவே, பார்வை -3 இல் விண்ணப்பம் தொடர்பாக, வருவாய் கோட்டாட்சியர், கரூர் அவர்கள் புலத்தணிக்கை மேற்கொண்டு கரூர் மாவட்டம், புகழூர் வட்டம், அத்திப்பாளையம் கிராம புல எண்.127/3A அருகே ஓடை செல்வதால் ஓடைக்கு அருகில் உள்ள மேற்படி புல எண்ணை தவிர்த்து மீதம் உள்ள புல எண்கள்.127/2(P) ஹெக்டேர் 0.28.75 ஏர்ஸ், 127/4A(P) ஹெக்டேர் 0.40.25 ஏர்ஸ் 127/7A(P) ஹெக்டேர் 0.30.75 ஏர்ஸ், 127/8A(P) ஹெக்டேர் 0.19.50 ஏர்ஸ் ஆகியவற்றின் மொத்தம் ஹெக்டேர்.01.19.25 ஏர்ஸ் நிலப்பரப்பில் திரு.க.நாகராஜ் என்பவருக்கு பத்து ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க குத்தகை உரிமம் வழங்கலாம் எனப் பரிந்துரை செய்துள்ளார்.

எனவே, பார்வை -4 இல் மேற்படி விண்ணப்பம் தொடர்பாக உதவி புவியியலாளர், மற்றும் தனி வருவாய் ஆய்வாளர், புவியியல் மற்றும் சுரங்கத்துறை, கரூர் ஆகியோர் புலத்தணிக்கை மேற்கொண்டு கரூர் மாவட்டம், புகழூர் வட்டம், அத்திப்பாளையம் கிராம புல எண்.127/3A அருகே ஓடை செல்வதால் ஓடைக்கு அருகில் உள்ள மேற்படி புல எண்ணை தவிர்த்து மீதம் உள்ள புல எண்கள். 127/2(P) (0.28.75 ஹெக்டேர்ஸ்), 127/4A(P) (0.40.25 ஹெக்டேர்ஸ்), 127/7A(P) (0.30.75 ஹெக்டேர்ஸ்) மற்றும் 127/8A(P) (0.19.50 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 1.19.25 ஹெக்டேர்ஸ் பரப்பில் மட்டும் தமிழ்நாடு சிறு கனிமச்சலுகை விதிகளில் விதி எண்கள்.19-(1), 20 மற்றும் 33-இன் கீழ் திரு.க.நாகராஜ் என்பவருக்கு 10

K. N. N. N.

ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி வழங்கலாம் என பரிந்துரை செய்துள்ளார்.

எனவே, வருவாய் கோட்டாட்சியர், கரூர் மற்றும் உதவி இயக்குநர் மற்றும் தனிவருவாய் ஆய்வாளர், புவியியல் மற்றும் சுரங்கத்துறை, கரூர் ஆகியோரின் பரிந்துரைகள், விண்ணப்பதாரரின் கோரிக்கை மற்றும் நிபந்தனைகளின் அடிப்படையில் கரூர் மாவட்டம், புகளூர் வட்டம், அத்திப்பாளையம் கிராமம், பட்டா புல எண்கள். 127/2(P) (0.28.75 ஹெக்டேர்ஸ்), 127/4A(P) (0.40.25 ஹெக்டேர்ஸ்), 127/7A(P) (0.30.75 ஹெக்டேர்ஸ்) மற்றும் 127/8A(P) (0.19.50 ஹெக்டேர்ஸ்) ஆகியவற்றின் மொத்தம் 1.19.25 ஹெக்டேர்ஸ் பரப்பில் 1959-ம் வருட தமிழ்நாடு சிறுகனிம விதிகள், விதி எண். 19(1), 20 மற்றும் 33-இன்படியும் மேலும் கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு பத்து வருட காலத்திற்கு திரு. K.நாகராஜ், என்பவருக்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்குவதற்குரிய தகுதியான நிலப்பரப்பாக கருதப்படுகிறது.

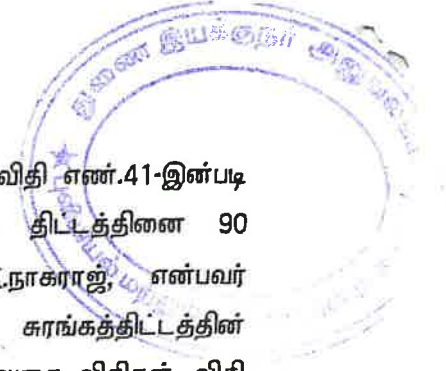
சிறப்பு நிபந்தனைகள்:-

விண்ணப்ப புலத்திற்கு தெற்கில் செல்லும் வாய்க்காலுக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு குவாரிப் பணி செய்ய வேண்டும்.

நிபந்தனைகள்:-

1. விண்ணப்ப புலத்திற்கு அருகில் உள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டர் மற்றும் புறம்போக்கு நிலத்திற்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு யாதொரு சேதமுமின்றி முறையாக குவாரிப்பணி செய்ய வேண்டும்.
2. குத்தகைக்காலத்தில் கைத்துளைப்பான் கருவி கொண்டு பாறைகளை துளையிட்டும், மிதமான வெடிபொருள் பயன்படுத்தியும், பொதுமக்களுக்கோ, பொது சொத்துக்களுக்கோ சேதம் ஏற்படாத வண்ணம் குவாரிப்பணி செய்ய வேண்டும்.
3. குவாரித் தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்ய Mettalliferous Mines, விதிகளின்படி அகலமானதும், பாதுகாப்பானதுமான Benches அமைத்து பாதுகாப்பான முறையில் குவாரிக்குள் வாகனங்கள் சென்றுவரவும் மற்றும் குவாரி தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்தும் குவாரிப்பணி செய்ய வேண்டும்.
4. குவாரி குத்தகை வழங்க ஏதுவாக துணை இயக்குநர் (சுரங்கம்) அவர்களால் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தினையும், மாநில அளவிலான சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் (SEIAA) அனுமதி பெற்று மாவட்ட நிர்வாகத்திற்கு விண்ணப்பதாரரால் சமர்ப்பிக்கப்பட வேண்டும்.

K. Nagaraj



எனவே, தமிழ்நாடு சிறு கனிம சலுகை விதிகள்-1959 விதி எண்.41-இன்படி குவாரிப்பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்க திட்டத்தினை 90 தினங்களுக்குள் இணையவழியில் சமர்ப்பிக்குமாறு திரு.K.நாகராஜ், என்பவர் கேட்டுக்கொள்ளப்படுகிறார். மேலும் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தின் தொடர்ச்சியாக 1959-ஆம் வருடத்திய தமிழ்நாடு சிறுகனிம சலுகை விதிகள், விதி எண்.42-இன்படி சுற்றுச்சூழல் தாக்கல் மதிப்பீட்டு ஆணையத்தின் இசைவினைப் பெற்று சமர்ப்பிக்கும் பட்சத்தில் மட்டுமே குவாரி உரிமம் வழங்கப்படும் என இதன் மூலம் தெரிவிக்கப்படுகிறது.

ஓம்/-திரு.பொ.ஜெயபால்
துணை இயக்குநர்,
புவியியல் மற்றும் சுரங்கத்துறை,
கரூர்.

//உண்மை நகல்/ உத்தரவுபடி//

திரு.பொ.ஜெயபால்
உதவி இயக்குநர், 9/12/25
புவியியல் மற்றும் சுரங்கத்துறை,
கரூர்.

9/12/25

பெறுநர்
திரு.K.நாகராஜ்,
த/பெ.குமார்,
நெ.12/1ஏ, பொற்கொடி காம்ப்வுண்ட்,
புதுகாடு 2 வீதி,
திருப்பூர் டி.சி.மார்க்கெட்,
திருப்பூர் - 641604.

நகல்:-

1. மாநில சுற்றுச்சூழல் தாக்கல் மதிப்பீட்டு ஆணையம், சென்னை.
2. ஆணையர், புவியியல் மற்றும் சுரங்கத்துறை, கிண்டி, சென்னை.

K. N. Nagaraj



ANNEXURE-2

From
Dr.P.Jayapal M.Sc., Ph.D.,
Deputy Director,
Geology and Mining,
Karur.

To
Thiru.K.Nagaraj,
S/o.Kumar,
No.12/1A, Porkodi Compound,
Puthukadu 2nd Street,
Tiruppur T.C. Market,
Tirunbaur District

Rc.No.170/Mines/2024, Dated: 02.01.2026

Sir,

Sub: Mines and Minerals – Minor Mineral – Karur District –
Pugalur Taluk – Athipalayam Village - Patta land in
S.F.Nos. 127/2(P) (0.28.75 hectares), 127/4A(P)
(0.40.25 hectares), 127/7A(P)(0.30.75 hectares), and
127/8A(P) (0.19.50 hectares) Over an extent of 1.19.25
hectares - Quarry lease application preferred by
Thiru.K.Nagarajan for quarrying Rough Stone and
Gravel – Land availability report received from Revenue
Divisional Officer, Karur - Precise area communicated -
mining plan submitted for approval – Mining Plan
Approved – Regarding.

- Ref: 1. Quarry lease application for quarrying Rough stone
and Gravel preferred by Thiru.K.Nagaraj,
S/o.Kumar, No.12/1A, Porkodi Compound,
Puthukadu 2nd Street, Tiruppur T.C. Market,
Tiruppur District, dated: 11.06.2024.
2. Order of the Hon'ble Supreme Court of India in
I.A.Nos.12-13/2011 in SLP (C) No.19628-
19629/2009, dt: 27.02.2012.
3. Government of India, Ministry of Environment and
Forest Office Memorandum, Dated:18.05.2012.
4. The Chairman, State Level Environment Impact
Assessment Authority, Tamil Nadu
D.O.Lr.No.SEIAA-TN/Minor Minerals/2012, Dated:
17.09.2012.
5. The Commissioner of Geology and Mining, Chennai
letter Rc.No.3868/LC/2012, dt: 19.11.2012.
6. The Revenue Divisional Officer, Karur, Land
availability Report vide Rc.No.A1/132/2025, dt:
03.11.2025.
7. Deputy Director, Geology and Mining, Karur Notice
Rc.No.170/Mines/2024, Dated:09.12.2025

8. Mining Plan submitted by Thiru.K.Nagaraj, letter received in this office on 18.12.2025.

In the reference 1st cited Thiru.K.Nagaraj, S/o.Kumar, No.12/1A, Porkodi Compund, Puthukadu 2nd Street, Tiruppur T.C. Market, Tiruppur District has preferred an application for the grant of Ten years lease to quarry Rough Stone and Gravel over an extent of 1.19.25 hectares of patta land in S.F.Nos.127/2(P) (0.28.75 hectares), 127/4A(P) (0.40.25 hectares), 127/7A(P)(0.30.75 hectares), and 127/8A(P) (0.19.50 hectares) of Athipalayam Village, Pugalur Taluk, Karur District under Rule 19(1) of Tamil Nadu Minor Mineral Concession Rule 1959.

The Precise area has been communicated by the Deputy Director, Geology and Mining, Karur to the applicant for the period of Ten years based on the recommendation of the Revenue Divisional Officer, Karur and Assistant Director and Special Revenue Inspector, Geology and Mining, Karur in the reference 7th cited. In perusal to that the draft mining plan submitted by the applicant as per the Rule 41 in the reference 8th cited.

The above submitted mining plan for the grant of Rough stone and Gravel quarry lease patta land in S.F.Nos.127/2(P) (0.28.75 hectares), 127/4A(P) (0.40.25 hectares), 127/7A(P)(0.30.75 hectares), and 127/8A(P) (0.19.50 hectares) Over an extent of 1.19.25 hectares of Athipalayam Village, Pugalur Taluk, Karur District has been examined in detail.

Scrutiny remarks on the draft Mining Plan are furnished below.

- a. The Rough Stone & Gravel quarry has been planned to be operated for a period of 10 years.
- b. The Geological reserve in the subject area is assessed 3,57,600m³/9,83,400 MT of Rough Stone and 23,840 m³/47,680 MT of Gravel upto a depth of 32m below ground level only.
- c. The Mineable reserve is estimated as 95,750m³/2,63,312.50 MT of Rough Stone and 10,440 m³/20,880 MT of Gravel upto a depth of 32m below ground level only.

- d. The total quantity proposed to quarry $95,750\text{m}^3/2,63,312.50$ MT of Rough Stone for 5 years and $10,440\text{ m}^3/20,880$ MT of Gravel first Two years only upto a depth of 32m below ground level only.
- e. Machineries like compressors, jack hammers, Hydraulic excavators with Rock Breaker attachment are proposed for quarrying operation.
- f. Water table level in the area applied is about 78 m during the year.
- g. As per the Rule 111 of Metalliferrous Mining Regulations 1961, the boundary barrier zone of 7.5 meters is ear-marked as neutral zone.
- h. The draft Mining plan is submitted within the prescribed time limit of 90 days from the date of receipt of the precise area communication and stipulations made in the rule 36 of the TNMMCR, 1959 are adhered.
- i. The plates including Topo sketch of quarry lease applied area for 10Km Radius (1:1,00,000), Quarry lease and Surface plan (1:1,000), Topography and Geological plan & sections (1:1,000), Conceptual plan and sections (1:1000), Geological, Mineable & Year wise development & Production plan & Sections (1: 1000) and Environmental plan (1:10,000) were verified with reference to the field evidences.

As per the guidelines/ instructions issued by the Commissioner of Geology and Mining, Chennai vide letter Rc.No.3868/LC/2012, date: 19.11.2012. The mining plan submitted by the applicant is hereby approved, subject to the following conditions:

- (i) 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.
- (ii) This approval of the mining plan does not in any way imply 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.

- (III) The mining plan is approved without prejudice to any other order or direction from any court of competent jurisdiction.
- (IV) The approval is valid up to five years from the date of execution of lease deed and the applicant should submit scheme of mining at lease 180 days before the expiry of the mining plan period.
- (V) As per the Deputy Director, Geology and Mining, Karur notice in Rc.No.170/Mines/20225, Dated.09.12.2025 the following conditions are incorporated in the Mining Plan plates.

சிறப்பு நிபந்தனைகள்:-

விண்ணப்ப புலத்திற்கு தெற்கில் செல்லும் வாய்க்காலுக்கு 50 மீட்டர் பாதுகாப்பு இடைவெளிவிட்டு குவாரிப் பணி செய்ய வேண்டும்.

நிபந்தனைகள்:-

1. விண்ணப்ப புலத்திற்கு அருகில் உள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டர் மற்றும் புறம்போக்கு நிலத்திற்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு யாதொரு சேதமுமின்றி முறையாக குவாரிப்பணி செய்ய வேண்டும்.
 2. குத்தகைக்காலத்தில் கைத்துளைப்பான் கருவி கொண்டு பாறைகளை துளையிட்டும், மிதமான வெடிபொருள் பயன்படுத்தியும், பொதுமக்களுக்கோ, பொது சொத்துக்களுக்கோ சேதம் ஏற்படாத வண்ணம் குவாரிப்பணி செய்ய வேண்டும்.
 3. குவாரித் தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்ய Mettalliferous Mines, விதிகளின்படி அகலமானதும், பாதுகாப்பானதுமான Benches அமைத்து பாதுகாப்பான முறையில் குவாரிக்குள் வாகனங்கள் சென்றுவரவும் மற்றும் குவாரி தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்தும் குவாரிப்பணி செய்ய வேண்டும்.
 4. குவாரி குத்தகை வழங்க ஏதுவாக துணை இயக்குநர் (சுரங்கம்) அவர்களால் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தினையும், மாநில அளவிலான சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் (SEIAA) அனுமதி பெற்று மாவட்ட நிர்வாகத்திற்கு விண்ணப்பதாரரால் சமர்ப்பிக்கப்பட வேண்டும்.
- (VI) Quarrying shall be done as per the approved Mining Plan and that 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.

- (VII) If anything is found to be concealed as required by the Mines Act in the contents of the Mining Plan and the proposal for rectification has not been made, the approval shall be deemed to have been withdrawn with immediate effect.

Encl: Two copies of Approved Mining Plan.

Sd/-P.Jayapal,
Deputy Director,
Geology and Mining,
Karur.

/True Copy/ By Order/

S. P. Jayapal
29/1/26
For Deputy Director,
Geology and Mining,
Karur.

S. P. Jayapal
29/1/26



ANNEXURE-3

From
Dr.P.Jayapal M.Sc., Ph.D.,
Deputy Director,
Geology and Mining,
Karur.

To
Thiru.K.Nagaraj,
S/o.Kumar,
No.12/1A, Porkodi Compund,
Puthukadu 2nd Street,
Tiruppur T.C. Market,
Tiruppur District.

Rc.No.170/Mines/2024, Dated: 02.01.2026

Sir,

Sub: Mines and Minerals – Minor Mineral – Karur District
– Pugalur Taluk – Athipalayam Village - Patta land
in S.F.Nos. 127/2(P) (0.28.75 hectares), 127/4A(P)
(0.40.25 hectares), 127/7A(P)(0.30.75 hectares),
and 127/8A(P) (0.19.50 hectares) Over an extent
of 1.19.25 hectares - Quarry lease application
preferred by Thiru.K.Nagarajan for quarrying Rough
Stone and Gravel – Mining Plan approved -
requested for the details of Existing/
Proposed/Expired and Abandoned quarries situated
within 500 mts radial distance - furnished -
Regarding.

Ref:

1. Quarry lease application for quarrying Rough
stone and Gravel preferred by Thiru.K.Nagaraj,
S/o.Kumar, No.12/1A, Porkodi Compund,
Puthukadu 2nd Street, Tiruppur T.C. Market,
Tiruppur District, dated: 11.06.2024.
2. Deputy Director, Geology and Mining, Karur
Notice, Rc.No.170/Mines/2024,
Dated:09.12.2025
3. Mining Plan submitted by Thiru.K.Nagaraj, letter
received in this office on 18.12.2025.
4. The Deputy Director, Geology and Mining, Karur
Mining Plan approved letter
Rc.No.170/Mines/2024, Dated: 02.01.2026
5. Thiru.K.Nagaraj, letter received in this office
on:02.01.2026.

In the reference 1st cited Thiru.K.Nagaraj, S/o.Kumar, No.12/1A, Porkodi Compund, Puthukadu 2nd Street, Tiruppur T.C. Market, Tiruppur District has preferred an application for the grant of Ten years lease to quarry Rough Stone and Gravel over an extent of 1.19.25 hectares of patta land in S.F.Nos.127/2(P) (0.28.75 hectares), 127/4A(P) (0.40.25 hectares), 127/7A(P)(0.30.75 hectares), and 127/8A(P) (0.19.50 hectares) of Athipalayam Village, Pugalur Taluk, Karur District. The Deputy Director of Geology and Mining, Karur had issued precise area memorandum to the proposed lease area vide reference 2nd cited.

Accordingly, the applicant has submitted the 3 copies of draft Mining Plan and the same was approved by the Deputy Director, Geology and Mining, Karur vide reference 4th cited.

In the reference 5th cited, the applicant has requested to the Deputy Director of Geology and Mining, Karur to provide the details of existing, proposed, expired and abandoned quarries situated within 500 meter radial distance from the subject area and the same has been furnished as follows:-

I. Existing Quarries:-

Sl No.	Name of the lessee/firm it holder	Name of the Mineral	Taluk & Village	S.F.No.	Extent (hect)	Lease Period
1.	Thiru.K.Manisekaran S/o.Krishnasamy No.10/1 Ram Nagar Gandhigramam South Karur Tluk& District	Rough Stone	Pugalur Taluk, Athipalayam Village	140/1 (P) 140/2A (P) 140/3A (P) 141/1A (P) 141/2A (P) 141/3A (P)	1.69.40	01.02.2023 to 31.01.2028
2.	Thiru.T.S.P. Kannappan, VN Puthur, Aththipalayam P.O., Pugalur Taluk, Karur District	Rough Stone	Pugalur Taluk, Athipalayam Village	127/3C(P) 127/5(P) 127/6(P) 127/9(P) 130/A 130/B	3.25.00	11.09.2023 to 10.09.2028

II. Proposed Quarries: -

Sl No.	Name of the lessee/firm it holder	Name of the Mineral	Taluk & Village	S.F.No.	Extent (hect)	Lease Period
1.	Thiru.K.Nagaraj, S/o.Kumar, No.12/1A, Porkodi Compund, Puthukadu 2 nd Street, Tiruppur T.C. Market, Tiruppur District	Rough Stone & Gravel	Pugalur Taluk, Athipalaya m Village	127/2 (P) 127/4A(P) 127/7A(P) 127/8A(P)	1.19.25	Proposed Area

III. Lease Expired Quarries : -

Sl No.	Name of the lessee/firm it holder	Name of the	Taluk & Village	S.F.No.	Extent (hect)	Lease Period
1.	Nil					

IV. Abandoned Quarries : -

Sl No.	Name of the lessee/firm it holder	Name of the Mineral	Taluk & Village	S.F.No.	Extent (hect)	Lease Period
1.	Nil					


 Deputy Director,
 Geology and Mining,
 Karur.

2.1.26