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. TO25B0108TN5958378N (F.No. 12024), dated 20/06/2025

PROPOSED QUARRY LEASE DETAILS	
SURVEY NOS	1204/1 (Part), 1204/2, 1204/3, 1204/4 (Part), 1204/5 (Part), 1204/6 (Part), 1204/7 (Part), 1233/3B, 1233/4B, 1233/5B2, 1233/9B, 1233/10, 1223/1B, 1234/1A and 1234/2B
VILLAGE	PUNNAM
TALUK	PUGALUR
DISTRICT	KARUR
EXTENT	1.46.25 ha
CLUSTER EXTENT	7.86.75 ha
MINEABLE RESERVES (upto 31m BGL)	ROUGH STONE: 3,96,055 Ts GRAVEL : 20,952 Ts
PROPOSED PRODUCTION QUANTITY FOR FIRST FIVE YEARS (upto 21m BGL)	ROUGH STONE : 282658.75 Ts GRAVEL : 20,952 Ts
PROPOSED PRODUCTION QUANTITY FOR SECOND FIVE YEARS (upto 31m BGL)	113396.25 Ts OF ROUGH STONE
LAND	PATTA LAND

(Sector No. 1(a) Sector No.1 as per NABET)
Category of the Project: B1 Cluster Mining, Total Cluster Area – 7.86.75 Ha
Baseline Monitoring Period – March 2025 to May 2025

APPLICANT

THIRU.G.SATHISHKUMAR,
S/O.GURUSAMY,
DOOR NO.2/90, PUNNAM, AYYANUR,
PUGALUR TALUK, KARUR DISTRICT, PIN CODE– 639136

ENVIRONMENTAL CONSULTANT	LABORATORY
M/s. GLOBAL MINING SOLUTIONS *(NABET Accredited & ISO 9001 Certified Consultant)* **Plot No. 6, S.F.No. 13/2, A2, VS City,** **RC Chettypatty, Kottamettupatty, Omalur,** **Salem, Tamil Nadu – 636 455.** **NABET Accreditation No: NABET/EIA/23-26/SA 0241** ***Valid up to: 04.01.2026*** **Contact: 97502 23535 & 94446 54520** **Email: infoglobalmining@gmail.com,** **globalminingsolutionssalem@gmail.com**	**M/s. SHRIENT ANALYTICAL & RESEARCH LABS PRIVATE LIMITED** *(NABL Accredited Testing Laboratory)* ***Valid up to: 29.09.2025*** **#416/15, Dhargas Road, Perungalathur,** **West Tambaram, Chennai,** **Tamil Nadu, India.**

JUNE - 2025

EXECUTIVE SUMMARY

1.1 OVER ALL JUSTIFICATION FOR IMPLEMENTATION OF THE PROJECT INTRODUCTION

Thiru.G.Sathishkumar Lessee, has obtained Precise Area communication letter from the Assistant Director, Department of Geology and Mining, Karur to quarry out Mineable reserves of 3,96,055 Ts of Rough Stone and 20,952 Ts of Gravel up to 31 BGL. Proposed production quantity for first five years 282658.75 Ts of Rough Stone, 20,952 Ts of Gravel formation upto a depth of 21m (below ground level) for the period of first five years and remaining quantity of 1,13,396.25 Ts of Rough Stone will be proposed for the period of second five years upto a depth of 31m (below ground level) Over an extent of 1.46.25 ha., located at the Survey No. S.F.No. 1204/1 (Part), 1204/2, 1204/3, 1204/4 (Part), 1204/5 (Part), 1204/6 (Part), 1204/7 (Part), 1233/3B, 1233/4B, 1233/5B2, 1233/9B, 1233/10, 1223/1B, 1234/1A and 1234/2B of Punnam Village, Pugalur Taluk, Karur District, Tamil Nadu State.

As per EIA notification, 2006 and its subsequent amendments the proposed "Rough Stone and Gravel Quarry of Thiru.G.Sathishkumar 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. TO25B0108TN5958378N, dated 20/06/2025 This report has been prepared in line with the approved TOR for production of maximum excavation of 3,96,055 Ts of Rough Stone and 20,952 Ts of Gravel.

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	Fresh Quarry
5.	Extent of the lease	1.46.25 Ha
6.	Proposed depth of mining	31m BGL
7.	Method of mining	Opencast Semi-mechanized.
8.	Proposed lease period	5 Years

9.	Proposed Environmental Clearance	5 Years
10.	Mineable reserves (upto 31m BGL) (Quantity in Ts)	3,96,055 Ts of Rough Stone, 20,952 Ts of gravel
11.	Proposed production quantity for first five years (upto 21m BGL)	1,02,785 m3 (282658.75Ts) of Rough Stone, 10,476 m3 (20,952Ts) of gravel
12.	Proposed production quantity for second five years (upto 31m BGL)	113396.25 Ts of Rough Stone

The Lessee G.Sathishkumar 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.**

1.1.1 LOCATION

The proposed project site is located in Punnam Village, Pugalur Taluk,Karur District, Tamil Nadu State and its Latitude: 10°58'49.10"N to 10°58'56.03"N and Longitude: 77°58'43.36"E to 77°58'47.79"E. with Survey of India Topo Sheet No. 58- F/13. 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)

1.1.2 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^{0}E –S45^{0}W with dipping towards SE80^0.

1.1.3 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 31m below ground level. The geological reserves are estimated to be 13,12,190 Ts of Rough Stone and 29,288 Ts of gravel. The mineable reserve calculated by deducting 7.5m safety distance and bench loss. The mineable reserves are 3,96,055 Ts of Rough

Stone and 20,952 Gravel which will be recovered at the rate of 100% recovery upto a depth of 31 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 & Gravel quarrying operation.

S.No.	Type of Detail	Description
1	Sector	1(a) Non coal mining
2	Fresh/Existing project	Proposed
3	Category	B1
4	Nature of mineral	Fresh Quarry
5	Life of the mine	10 years
6	Geological reserves (upto 31m BGL)	13,12,190 Ts of Rough stone, 29,288 Ts of gravel
	Mineable reserves (upto 31m BGL)	3,96,055 Ts of Rough Stone, 20,952 Ts of gravel
	Proposed production quantity for first five years (upto 21m BGL)	282658.75 Ts of Rough Stone, 20,952 Ts of gravel
	Proposed production quantity for second five years (upto 31m BGL)	113396.25 Ts of Rough Stone
7	Waste generation and management	Nil
8	Bench height and width	Proposed bench height & width is 5.0m respectively and number of proposed benches is 7 +1 Nos.
9	Ultimate pit depth	31 m BGL
10	End use	The excavated Rough Stone and Gravel is used for construction industries for Government & Public sector projects besides catering domestic housing and infrastructure projects in and around the district.

1.1.4 PROJECT REQUIREMENTS

The requirements of the project is given below.7

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 2.0 KLD drinking water requirement, Green belt development is 1.0 KLD and dust suppression is 4.0 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 1,16,962 L of HSD for entire life of the project.
3	Manpower requirement	This project will give employment opportunities to 23 people
4	Financial requirement	The total project cost as per PFR will be INR . Rs.98.885Lakhs including Operational cost, Fixed Asset cost and EMP cost
5	Funds for Socio economic development	INR 3 Lakhs is allocated. In addition, any demand raised by people during public hearing will also be met.

1.1.5 DESCRIPTION OF LEASE AREA

The features in the study area is given below.

Table 11.1 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	

<table>
<tr><td>A</td><td>Wetlands, water courses or other water bodies,</td><td><table>
<tr><td>Water bodies</td><td>Distance</td><td>Direction</td></tr>
<tr><td>Uppar Odai</td><td>4.5 Km</td><td>S</td></tr>
<tr><td>Amaravathi River</td><td>6.2 Km</td><td>SE</td></tr>
<tr><td>Kaveri River</td><td>9.3 km</td><td>NW</td></tr>
<tr><td>Noyil River</td><td>9.6 km</td><td>NW</td></tr>
</table></td></tr>
<tr><td>B</td><td>Coastal zone, biospheres,</td><td>Nil within 10km radius</td></tr>
<tr><td>C</td><td>Mountains, forests</td><td>Saruvumalai R F – 25.7km (NE)</td></tr>
<tr><td>3</td><td>Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration</td><td>Nil within 15km radius</td></tr>
<tr><td>4</td><td>Inland, coastal, marine or underground waters</td><td>Nil within 15km radius</td></tr>
<tr><td>5</td><td>State, National boundaries</td><td>Nil within 15km radius</td></tr>
<tr><td>6</td><td>Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas</td><td>Nil within 15km radius</td></tr>
<tr><td>7</td><td>Defense installations</td><td>Nil within 15km radius</td></tr>
<tr><td>8</td><td>Densely populated or built-up area</td><td>Densely Populated Karur, 11.0km (E)</td></tr>
<tr><td>9</td><td>Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)</td><td>Densely Populated Karur, 11.0km (E)</td></tr>
<tr><td>10</td><td>Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)</td><td>Nil</td></tr>
<tr><td>11</td><td>Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)</td><td>Nil</td></tr>
<tr><td>12</td><td>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</td><td>No. The area is not prone to earthquakes, floods, etc.</td></tr>
</table>

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.

1.6 EXPLANATION OF HOW ADVERSE EFFECTS HAVE BEEN MITIGATED

1.6.1 AIR ENVIRONMENT

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

Table 11.2: Details Of Ambient Air Quality Monitoring Locations

S. No.	Station Code	Locations	Distance & Direction	Coordinates
1	AAQ 1	Project site	Core Zone	10°58'49.76"N 77°58'46.19"E
2	AAQ 2	Punnanadupalayam village	1.89 km, NW	10°59'37.39"N 77°59'24.85"E
3	AAQ 3	Near Govt school, Kurumpapatti	1.12 km, SW	10°58'22.40"N 77°58'22.83"E
4	AAQ 4	Pudukkanali village	3.59 km, SW	10°57'9.57"N 77°57'46.78"E
5	AAQ 5	Pullaiyampalayam village	2.44 Km, NW	10°57'9.57"N 77°58'16.38"E
6	AAQ6	Pavitiramedu village	2.46 Km, SE	10°57'31.64"N 77°59'8.98"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	25.4	33.6	29.5
AAQ-2	20.1	25.5	22.8
AAQ-3	20.2	25.5	22.85
AAQ-4	17.6	22.6	20.1
AAQ-5	16.6	23.1	19.85
AAQ-6	21.7	26.0	23.85
CPCB NAAQS 2009 for PM $_{2.5}$ - 60 µg/m^3			
Particulate matter PM-$_{10}$ (µg/m^3)			
AAQ-1	55.1	72.9	64
AAQ-2	42.9	54.3	48.6
AAQ-3	42.8	54.4	48.6
AAQ-4	38.2	47.4	42.8
AAQ-5	36.1	49.9	43
AAQ-6	46.7	55.9	51.3
CPCB NAAQS 2009 for PM $_{10}$ - 100 µg/m^3			
Sulphur Di-oxide as SO_2 (µg/m^3)			
AAQ-1	4.7	6.5	5.6

Station ID	Min	Max	Avg.
AAQ-2	4.3	5.3	4.8
AAQ-3	3.9	5.5	4.7
AAQ-4	4.2	8.8	6.5
AAQ-5	3.4	5.6	4.5
AAQ-6	3.8	5.3	4.5
CPCB NAAQS 2009 for SO_2 – 80 µg/m^3			
Oxide of Nitrogen as NO_2 (µg/m^3)			
AAQ-1	7.7	13.0	10.3
AAQ-2	7.8	10.6	9.2
AAQ-3	7.6	10.8	9.2
AAQ-4	5.4	10.1	7.75
AAQ-5	6.2	8.5	7.35
AAQ-6	7.9	11.9	9.9
CPCB NAAQS 2009 for NO_2 – 80 µg/m^3			

1.6.2 WATER ENVIRONMENT

Table 11.3 Results of Ground Water sampling Analysis in 6 locations							IS:10500: 2012	
	W1	W2	W3	W4	W5	W6	Desirable	Permissible
Odour	AGREEABLE	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity	<1	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	AGREEABLE	Agreeable	Agreeable
pH at 25 ˚C	7.36	<1.0	<1.0	<1	<1	<1	6.5 - 8.5	No Relaxation
Electrical Conductivity	1217	7.42	7.39	7.85	7.94	7.21	1	5
Total Dissolved Solids	736	1950	1189	1016	720.4	821.8	500	2000
Total hardness as CaCO3	492	1172	715	616	435	496	1	15
Calcium as Ca	106	345	326	142	216	276	200	600
Magnesium as Mg	54.5	79.6	66.8	27.4	48	69.6	200	600
Calcium as CaCO3	265	35.0	38.2	17.6	23	24.5	75	200
Magnesium as CaCO3	227	199	167	68.5	120	174		
Total alkalinity as CaCO3	284	146	159	73.5	96.0	102		
Chloride as Cl-	212	462	294	192	210	233	250	1000
Free Residual chlorine as Cl-	BDL (D.L - 0.2)	496	108	234	128	146	30	100
Sulphates as SO42-	115	BDL(DL -0.2)	BDL(DL -0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	BDL (D.L - 0.2)	45	No Relaxation
Iron as Fe	0.07	312	286	180	48.9	52.1	200	400

Nitrate as NO3	2.32	BDL(DL -0.01)	BDL(DL -0.01)	0.03	0.05	0.04	1	No Relaxation
Fluoride as F	0.57	4.26	3.34	2.67	1.28	1.96	0.1	0.3
Manganese as Mn	BDL (D.L - 0.05)	0.52	0.41	0.46	0.42	0.55	Not Specified	Not Specified

All the values were found to be within permissible limits

1.6.3 NOISE ENVIRONMENT

Noise levels were measured in 6 locations and the results are given below.

Table 11.4 Noise monitoring results

S. No	Location	Day equivalent	Night equivalent	Day equivalent limits by CPCB	Night equivalent limits by CPCB
1	Project site	49.7	42.7	75	70
2	Nalmukkal	45.9	38.3		
3	Senalur	48.4	38.7		
4	Kunnappakkam	47.2	39.6		
5	Endur	46.1	38.1		
6	Tennampundi	49.7	39.3		

1.6.4 SOIL ENVIRONMENT

Soil samples are collected from 6 locations and the results are given below.

Table 11.5 Results of Soil Sample Analysis

S. No	Parameter	Unit	S1	S2	S3	S4	S5	S6
1	pH at 25 °C	-	8.23	6.32	6.96	6.22	6.14	6.72
2	Electrical Conductivity	µmhos /cm	92.77	46.72	181.2	79.25	21.94	92.21
3	Dry matter content	%	88.50	96.98	95.82	96.47	96.58	95.24
4	Water Content	%	11.50	3.02	4.18	3.53	3.42	4.76
5	Organic Matter	%	0.31	1.1	0.98	0.58	0.79	1.3
6	Soil texture	-	SILT LOAM	silty clay	silty clay loam	silt loam	silt loam	loam
7	Grain Size Distribution	%						
	i. Sand		25.67	8.82	13.29	24.17	28.42	32.88
8	ii. Silt	%	58.62	46.57	47.55	67.77	52.72	48.93
9	iii. Clay	%	15.71	44.61	39.16	8.06	18.86	18.19
10	Phosphorous as P	mg/kg	0.57	1.9	2.4	1.2	3.1	2.5
11	Sodium as Na	mg/kg	787	420	1055	598	356	404

12	Potassium as K	mg/kg	533	670	876	764	737	646
13	Nitrogen and Nitregenous Compounds	mg/kg	352	270	296	644	230	452
14	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)
15	Porosity	%	19.2	18.4	19.1	16.7	18.9	19.5
16	Water Holding Cabacity	Inches /foot	42	36	40	42	38	40

1.6.5 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.

1.6.6 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:

Table No. 11.5: 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	5.35	1.65
2	Crop land	241.5	75.10
3	Fallow land	8.36	2.59
4	Land with scrub	29.63	9.18
5	Land without scrub	0.76	0.23
6	Existing Quarry	1.7	0.52
7	Plantations	30.21	9.38

10	Water bodies	4.94	1.35
	Total Area	**322.45**	**100**

1.6.7 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 5 villages in the study area namely Punnanadupalayam village, Near Govt school, Kurumpapatti, Pudukkanali village, Pullaiyampalayam village and Pavitiramedu village. 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, primary health centres and Nalmukkal. The following observations were made

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 Punnanadupalayam which is about 1.89 Km from the lease area. Major schools with higher secondary and senior secondary schools are located in Kurupapatti . The major Punnam Union located in the area is KARUR. Facilities like petrol pump stations, ATM facility are available in Punnam.

1.6.8 HYDROGEOLOGY OF THE LEASE AREA

There is Amaravathi River is located at a distance of 6.2 km in Southeast direction of lease area, the hydrological and hydrogeological pattern of the study area is studied in detail using satellite imagery.

There is Amaravathi River is located at a distance of 6.2 km in Southeast direction of 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.

1.6.9 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 31 m BGL. Hence, there will not be any major impact due to mining on water levels or ground water levels in the area.

1.7 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

1.7.1 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 31 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, 1.10.00 Ha of lease area will be left as rain water harvesting pond. 0.34.25 Ha will be developed with green belt. For this, plants like Pongamia pinnata, Syzigium cumini, Albizia lebbeck, Thespesia populnea, Bauhinia racemose, Cassia siamea, Azadirachta indiaca are selected. A total of 2400 trees are planned to be planted. Spacing will be 3m x 3m.

1.7.2 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 31m (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.

Water bodies	Distance	Direction
Uppar Odai	4.5 Km	S
Amaravathi River	6.2 Km	SE
Kaveri River	9.3 km	NW
Noyil River	9.6 km	NW

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

1.7.3 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.

1.7.3 AIR ENVIRONMENT: IMPACT AND MITIGATION MEASURES

The major air pollutants due to mining operations are fugitive emissions like PM_{10}, $PM_{2.5}$. Other than these pollutants, gaseous emissions of sulfur dioxide (SO_2) 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 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.

1.7.4 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.

1.7.5 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

1.7.6 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.

1.8 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, Rhematic 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.

1.9 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 30.61 Lakhs is allocated.

1.10 PROJECT BENEFITS

Financial benefits

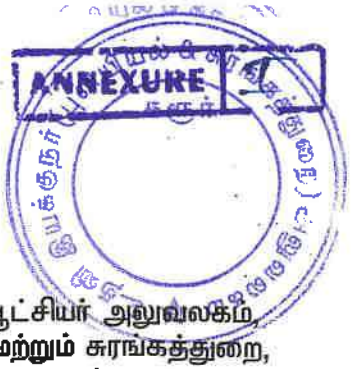
- This project will contribute financially through payment of taxes like royalty, GST, etc
- The project will also contribute via CSR.
- The demands of people during public hearing will also be considered by the project proponent

Social benefits

- This project provides employment to 23 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 an30.61 lakhs for the 10 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. 582/கனிமம்/2024

மாவட்ட ஆட்சியர் அலுவலகம்,
புவியியல் மற்றும் சுரங்கத்துறை,
கரூர்

நாள்:26.02.2025.

குறிப்பாணை

பொருள்: கனிமங்களும் குவாரிகளும் - கரூர் மாவட்டம் - புகளூர் வட்டம் - புன்னம் கிராமம் - பட்டா புல எண்கள்.1204/1(பகுதி) 0.06.50 ஹெக்டேர், 1204/2 (0.07.00 ஹெக்டேர்), 1204/3(0.06.00 ஹெக்டேர்), 1204/4(பகுதி) (0.05.00 ஹெக்டேர்), 1204/5(பகுதி) (0.03.50 ஹெக்டேர்), 1204/6(பகுதி) (0.04.50 ஹெக்டேர்), 1204/7(பகுதி) (0.05.50 ஹெக்டேர்), 1233/3B(0.11.00 ஹெக்டேர்), 1233/4B(0.22.50 ஹெக்டேர்), 1233/5B2(0.05.50 ஹெக்டேர்), 1233/9B(0.24.25 ஹெக்டேர்), 1233/10(0.04.00 ஹெக்டேர்), 1223/1B (0.36.00 ஹெக்டேர்), 1234/1A (0.03.00 ஹெக்டேர்), 1234/2B (0.02.00 ஹெக்டேர்) ஆகியவற்றின் மொத்தம் 1.46.25 ஹெக்டேர் பரப்பில் 10 ஆண்டுகளுக்கு - சாதாரணகல் மற்றும் கிராவல் குவாரி குத்தகை உரிமம் வேண்டி திரு.கு.சதீஷ்குமார் என்பவர் விண்ணப்பம் செய்தது - உரிமம் வழங்க பரிந்துரை செய்யப்பட்டது - தகுதியான நிலப்பரப்பாக கருதி ஏற்பளிக்கப்பட்ட சுரங்க திட்டம் மற்றும் மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணைய இசைவினை பெற்று சமர்ப்பிக்கக் கோருதல் - தொடர்பாக.

பார்வை:

1. திரு.கு.சதீஷ்குமார், த/பெ.குருசாமி, கதவு எண்.2/90, புன்னம், அய்யனூர், புகளூர் வட்டம், கரூர் மாவட்டம் என்பவரின் குவாரி குத்தகை உரிமம் வழங்கக் கோரும் விண்ணப்பம் நாள்: 27.08.2024

2. வருவாய் கோட்டாட்சியர், கரூர் அவர்களின் கடிதம் ந.க.எண். அ1/5749/2024, நாள்:02.01.2025

3. உதவி இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை கரூர் என்பவரது புலத்தணிக்கை அறிக்கை நாள்:24.02.2025

4. அரசாணை (பல்வகை) எண். 169, தொழில் (எம்எம்.சி-1) துறை நாள்: 04.08.2020 இணைத்து வரப்பெற்றுள்ளது. (தமிழ்நாடு அரசிதழ் சிறப்பு வெளியீடு எண். 315 நாள்: 04.08.2020).

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கரூர் மாவட்டம், புகளூர் வட்டம், புன்னம் கிராமம், பட்டா புல எண்கள்.1204/1(பகுதி) 0.06.50 ஹெக்டேர், 1204/2 (0.07.00 ஹெக்டேர்),

1204/3(0.06.00 ஹெக்டேர்), 1204/4(பகுதி) (0.05.00 ஹெக்டேர்), 1204/5(பகுதி) (0.03.50 ஹெக்டேர்), 1204/6(பகுதி) (0.04.50 ஹெக்டேர்), 1204/7(பகுதி) (0.05.50 ஹெக்டேர்), 1233/3B(0.11.00 ஹெக்டேர்), 1233/4B(0.22.50 ஹெக்டேர்), 1233/5B2(0.05.50 ஹெக்டேர்), 1233/9B(0.24.25 ஹெக்டேர்), 1233/10(0.04.00 ஹெக்டேர்), 1223/1B (0.36.00 ஹெக்டேர்), 1234/1A (0.03.00 ஹெக்டேர்), 1234/2B (0.02.00 ஹெக்டேர்) ஆகியவற்றின் மொத்தம் 1.46.25 ஹெக்டேர் பரப்பு நிலத்திலிருந்து பத்து ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் வெட்டியெடுக்க கரூர் மாவட்டம், புகளூர் வட்டம், புன்னம், அய்யனூர் கதவு எண்.2/90 என்ற முகவரியில் வசித்து வரும் திரு.கு.சதீஷ்குமார், த/பெ.குருசாமி என்பவர் பார்வை 1-இல் கண்டுள்ளவாறு விண்ணப்பம் செய்துள்ளார்.

மேற்படி விண்ணப்பம் தொடர்பாக, வருவாய் கோட்டாட்சியர், கரூர் மற்றும் உதவிப் இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை, கரூர் ஆகியோர் புலத்தணிக்கை மேற்கொண்டு கரூர் மாவட்டம், புகளூர் வட்டம், புன்னம் கிராமம், பட்டா புல எண்கள்.1204/1(பகுதி) 0.06.50 ஹெக்டேர், 1204/2 (0.07.00 ஹெக்டேர்), 1204/3(0.06.00 ஹெக்டேர்), 1204/4(பகுதி) (0.05.00 ஹெக்டேர்), 1204/5(பகுதி) (0.03.50 ஹெக்டேர்), 1204/6(பகுதி) (0.04.50 ஹெக்டேர்), 1204/7(பகுதி) (0.05.50 ஹெக்டேர்), 1233/3B(0.11.00 ஹெக்டேர்), 1233/4B(0.22.50 ஹெக்டேர்), 1233/5B2(0.05.50 ஹெக்டேர்), 1233/9B(0.24.25 ஹெக்டேர்), 1233/10(0.04.00 ஹெக்டேர்), 1223/1B (0.36.00 ஹெக்டேர்), 1234/1A (0.03.00 ஹெக்டேர்), 1234/2B (0.02.00 ஹெக்டேர்) ஆகியவற்றின் மொத்தம் 1.46.25 ஹெக்டேர் பரப்பில் மட்டும் தமிழ்நாடு சிறு கனிமச்சலுகை விதிகளில் விதி எண்கள்.19-(1), 20 மற்றும் 22-இன் கீழ் திரு.கு.சதீஷ்குமார் என்பவர் 10 ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்க கீழ்கண்ட நிபந்தனைகளுக்குட்பட்டு அனுமதி வழங்கலாம் என பரிந்துரை செய்துள்ளனர்.

1. விண்ணப்ப புல எண்கள்.1204/4, 1204/5 மற்றும் 1234/2 ஆகியவற்றில் அமைந்துள்ள தொழிலாளர்கள் தங்கும் இரண்டு கட்டிடங்கள் குவாரி குத்தகை உரிமம் வழங்குதற்கு முன் அப்புறப்படுத்தப்பட வேண்டும்.

2. விண்ணப்ப புலத்திற்கு அருகில் உள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டர் மற்றும் புறம்போக்கு நிலத்திற்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு யாதொரு சேதமுமின்றி முறையாக குவாரிப்பணி செய்ய வேண்டும்.

3. குத்தகைக்காலத்தில் கைத்துளைப்பான் கருவி கொண்டு பாறைகளை துளையிட்டும், மிதமான வெடிபொருள் பயன்படுத்தியும், பொதுமக்களுக்கோ, பொது சொத்துக்களுக்கோ யாதொரு சேதமுமின்றி விதிமுறைகளின்படி குவாரிப்பணி செய்ய வேண்டும்.

4. குவாரித் தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்ய Mettaliferrous Mines, விதிகளின்படி அகலமானதும், பாதுகாப்பானதுமான Benches அமைத்து பாதுகாப்பான முறையில் குவாரிக்குள் வாகனங்கள் சென்றுவரவும் மற்றும் குவாரி தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்தும் குவாரிப்பணி செய்ய வேண்டும்.

5. குவாரி குத்தகை வழங்க ஏதுவாக உதவி இயக்குநர் (சுரங்கம்) அவர்களால் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தினையும், மாநில அளவிலான சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் (SEIAA) அனுமதி பெற்று மாவட்ட நிர்வாகத்திற்கு விண்ணப்பதாரரால் சமர்ப்பிக்கப்பட வேண்டும்.

எனவே, வருவாய் கோட்டாட்சியர், கரூர் மற்றும் உதவி இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை, கரூர் ஆகியோரின் பரிந்துரைகள் மற்றும் நிபந்தனைகளின் அடிப்படையில் கரூர் மாவட்டம், புகளூர் வட்டம், புன்னம் கிராமம், பட்டா புல எண்கள்.1204/1(பகுதி) 0.06.50 ஹெக்டேர், 1204/2 (0.07.00 ஹெக்டேர்), 1204/3(0.06.00 ஹெக்டேர்), 1204/4(பகுதி) (0.05.00 ஹெக்டேர்), 1204/5(பகுதி) (0.03.50 ஹெக்டேர்), 1204/6(பகுதி) (0.04.50 ஹெக்டேர்), 1204/7(பகுதி) (0.05.50 ஹெக்டேர்), 1233/3B(0.11.00 ஹெக்டேர்), 1233/4B(0.22.50 ஹெக்டேர்), 1233/5B2(0.05.50 ஹெக்டேர்), 1233/9B(0.24.25 ஹெக்டேர்), 1233/10(0.04.00 ஹெக்டேர்), 1223/1 B (0.36.00 ஹெக்டேர்), 1234/1A (0.03.00 ஹெக்டேர்), 1234/2B (0.02.00 ஹெக்டேர்) ஆகியவற்றின் மொத்தம் 1.46.25 ஹெக்டேர் பரப்பில் 1959-ம் வருட தமிழ்நாடு சிறுகனிம விதிகள், விதி எண். 19(1), 20 மற்றும் 22-இன்படியும் மேலும் மேற்கண்ட நிபந்தனைகளுக்கு உட்பட்டு 10 (பத்து) வருட காலத்திற்கு

திரு.கு.சதீஷ்குமார் என்பவர் சாதாரண கற்கள் மற்றும் கிராவல் குவாரி உரிமம் வழங்குவதற்குரிய தகுதியான நிலப்பரப்பாக கருதப்படுகிறது.

அதற்கிணங்க, தமிழ்நாடு சிறு கனிம சலுகை விதிகள்-1959 விதி எண்.41-இன்படி குவாரிப்பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்க திட்டத்தினை 90 நாட்களுக்குள் சமர்ப்பிக்குமாறு திரு.கு.சதீஷ்குமார் என்பவர் கேட்டுக்கொள்ளப்படுகிறார். மேலும் ஏற்பளிக்கப்பட்ட சுரங்கத்திட்டத்தின் தொடர்ச்சியாக 1959-ஆம் வருடத்திய தமிழ்நாடு சிறுகனிம சலுகை விதிகள், விதி எண்.42-இன்படி சுற்றுச்சூழல் தாக்க மதிப்பீட்டு ஆணையத்தின் இசைவினைப் பெற்று சமர்பிக்கும் பட்சத்தில் மட்டுமே குவாரி குத்தகை உரிமம் வழங்கப்படும் என்ற விவரம் இதன் மூலம் தெரிவிக்கப்படுகிறது.

24/2/25

உதவி இயக்குநர்,
புவியியல் மற்றும் சுரங்கத்துறை,
கரூர்.

பெறுநர்

திரு.கு.சதீஷ்குமார்,
த/பெ.குருசாமி,
கதவு எண்.2/90,
புன்னம்,
அய்யனூர்,
புகளூர் வட்டம்,
கரூர் மாவட்டம்.

நகல்:-

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

ANNEXURE-2

From
Thiru.S.Poornavel, M.Sc.,
Assistant Director,
Geology and Mining,
Karur.

To
Thiru.G.Sathishkumar,
S/o.Gurusamy,
Door No.2/90,
Punnam,
Ayyanur,
Pugalur Taluk,
Karur District.

Rc.No.582/Mines/2024, Dated:12.03.2025

Sir,

Sub: Mines and Minerals – Minor Mineral – Karur District – Pugalur Taluk - Punnam Village - Patta lands in S.F.Nos.1204/1(Part) (0.06.50 hectares), 1204/2 (0.07.00 hectares), 1204/3(0.06.00 hectares), 1204/4(Part) (0.05.00 hectares), 1204/5(Part) (0.03.50 hectares), 1204/6(Part) (0.04.50 hectares), 1204/7(Part) (0.05.50 hectares), 1233/3B (0.11.00 hectares), 1233/4B (0.22.50 hectares), 1233/5B2(0.05.50 hectares), 1233/9B(0.24.25 hectares), 1233/10(0.04.00 hectares), 1223/1B (0.36.00 hectares), 1234/1A(0.03.00 hectares), 1234/2B(0.02.00 hectares) Over an extant of 1.46.25 hectares - Quarry lease application preferred by Thiru.G.Sathishkumar for quarrying Rough Stone and Gravel – 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.G.Sathishkumar, S/o.Gurusamy, Door No.2/90, Punnam, Ayyanur, Pugalur Taluk, Karur District dated: 27.08.2024.
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. Assistant Director, Geology and Mining, Karur Notice Rc.No.582/Mines/2024, Dated:26.02.2025
7. Mining Plan submitted by Thiru.G.Sathishkumar letter Dated: 10.03.2025

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In the reference 1st cited, Thiru.G.Sathishkumar, S/o.Gurusamy, Door No.2/90, Punnam, Ayyanur, Pugalur Taluk, Karur District has preferred for the grand of Ten years lease to quarry Rough Stone and Gravel over an extent of 1.46.25 hectares of patta land in S.F.Nos.1204/1(Part) (0.06.50 hectares), 1204/2 (0.07.00 hectares), 1204/3(0.06.00 hectares), 1204/4(Part) (0.05.00 hectares), 1204/5(Part) (0.03.50 hectares), 1204/6(Part) (0.04.50 hectares), 1204/7(Part) (0.05.50 hectares), 1233/3B (0.11.00 hectares), 1233/4B (0.22.50 hectares), 1233/5B2(0.05.50 hectares), 1233/9B(0.24.25 hectares), 1233/10(0.04.00 hectares), 1223/1B (0.36.00 hectares), 1234/1A(0.03.00 hectares), 1234/2B(0.02.00 hectares) of Punnam 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 Assistant 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 Geologist, Geology and Mining, Karur in the reference 6th cited. In perusal to that the draft mining plan submitted by the applicant as per the Rule 41 in the reference 7th cited and also instructed to the applicant to submit the Environmental Clearance as per Rule 42 of Tamil Nadu Minor Mineral Concession Rules.

The above submitted mining plan for the grant of Rough stone and Gravel quarry lease patta lands in S.F.Nos.1204/1(Part) (0.06.50 hectares), 1204/2 (0.07.00 hectares), 1204/3(0.06.00 hectares), 1204/4(Part) (0.05.00 hectares), 1204/5(Part) (0.03.50 hectares), 1204/6(Part) (0.04.50 hectares), 1204/7(Part) (0.05.50 hectares), 1233/3B (0.11.00 hectares), 1233/4B (0.22.50 hectares), 1233/5B2(0.05.50 hectares), 1233/9B(0.24.25 hectares), 1233/10(0.04.00 hectares), 1223/1B (0.36.00 hectares), 1234/1A(0.03.00 hectares), 1234/2B(0.02.00 hectares) Over an extant of 1.46.25 hectares of Punnam 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 Ten years.

b. The Geological reserve in the subject area is assessed as 1312190 Tons of Rough Stone and 29288 Tons of Gravel upto a depth of 31 m below ground level only.

c. The Mineable reserve is estimated as 396055 Tons of Rough Stone and 20952 Tons of Gravel upto a depth of 31 m below ground level only.

d. It has been proposed to quarry 282658.75 Tones of Rough Stone for First five years and 20952 Tons of Gravel for first 3 years upto a depth of 21 m below ground level.

e. Machineries like tractor mounted compressor attached with jack hammers, excavators with rock breaker attachment are proposed for quarrying operation.

f. Water table level in the area applied is in between 68 m to 65 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 Toposketch of quarry lease applied area for 10Km Radius (1:1,00,000), Quarry lease & Surface plan (1:1,000), Conceptual plan and sections (1:1,000), Topography, Geological & Year wise development & Production plan & Sections (1: 1,000) 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 Assistant Director, Geology and Mining, Karur notice in Rc.No.582/Mines/2024, Dated.26.02.2024 the following conditions are incorporated in the Mining Plan plates.

1. விண்ணப்ப புல எண்கள்.1204/4, 1204/5 மற்றும் 1234/2 ஆகியவற்றில் அமைந்துள்ள தொழிலாளர்கள் தங்கும் இரண்டு கட்டிடங்கள் குவாரி குத்தகை உரிமம் வழங்குதற்கு முன் அப்புறப்படுத்தப்பட வேண்டும்.

2. விண்ணப்ப புலத்திற்கு அருகில் உள்ள பட்டா நிலங்களுக்கு 7.5 மீட்டர் மற்றும் புறம்போக்கு நிலத்திற்கு 10 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு யாதொரு சேதமுமின்றி முறையாக குவாரிப்பணி செய்ய வேண்டும்.

3. குத்தகைக்காலத்தில் கைத்துளைப்பான் கருவி கொண்டு பாறைகளை துளையிட்டும், மிதமான வெடிபொருள் பயன்படுத்தியும், பொதுமக்களுக்கோ, பொது சொத்துக்களுக்கோ யாதொரு சேதமுமின்றி விதிமுறைகளின்படி குவாரிப்பணி செய்ய வேண்டும்.

4. குவாரித் தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்ய Mettaliferrous Mines, விதிகளின்படி அகலமானதும், பாதுகாப்பானதுமான Benches அமைத்து பாதுகாப்பான முறையில் குவாரிக்குள் வாகனங்கள் சென்றுவரவும் மற்றும் குவாரி தொழிலாளர்களின் பாதுகாப்பினை உறுதி செய்தும் குவாரிப்பணி செய்ய வேண்டும்.

5. குவாரி குத்தகை வழங்க ஏதுவாக உதவி 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.

12/3/25

Assistant Director,
Geology and Mining,
Karur.

12/3/25

ANNEXURE-3

From
Thiru.S.Poornavel, M.Sc.,
Assistant Director,
Geology and Mining,
Karur.

To
Thiru.G.Sathishkumar,
S/o.Gurusamy,
Door No.2/90,
Punnam,
Ayyanur,
Pugalur Taluk,
Karur District.

Rc.No.582/Mines/2024, Dated:24.03.2025

Sir,

Sub: Mines and Minerals – Minor Mineral – Karur District – Pugalur Taluk - Punnam Village - Patta lands in S.F.Nos.1204/1(Part) (0.06.50 hectares), 1204/2 (0.07.00 hectares), 1204/3(0.06.00 hectares), 1204/4(Part) (0.05.00 hectares), 1204/5(Part) (0.03.50 hectares), 1204/6(Part) (0.04.50 hectares), 1204/7(Part) (0.05.50 hectares), 1233/3B (0.11.00 hectares), 1233/4B (0.22.50 hectares), 1233/5B2(0.05.50 hectares), 1233/9B(0.24.25 hectares), 1233/10(0.04.00 hectares), 1223/1B (0.36.00 hectares), 1234/1A(0.03.00 hectares), 1234/2B(0.02.00 hectares) Over an extant of 1.46.25 hectares - Quarry lease application preferred by Thiru.G.Sathishkumar 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.G.Sathishkumar, S/o.Gurusamy, Door No.2/90, Punnam, Ayyanur, Pugalur Taluk, Karur District dated: 27.08.2024.
2. Precise Area Communication Memorandum Rc.No.582/Mines/2024, Dated: 26.02.2025.

3 Mining Plan submitted by Thiru.G.Sathishkumar letter Dated: 10.03.2025

4. The Assistant Director, Geology and Mining, Karur Mining Plan approved letter Rc.No. 582/Mines/2024, Dated:12.03.2025.
5. Thiru.G.Sathishkumar letter dated: 21.03.2025

In the reference 1st cited, Thiru.G.Sathishkumar, S/o.Gurusamy, Door No.2/90, Punnam, Ayyanur, Pugalur Taluk, Karur District has preferred for the grand of Ten years lease to quarry Rough Stone and Gravel over an extent of 1.46.25 hectares of patta land in S.F.Nos.1204/1(Part) (0.06.50 hectares), 1204/2 (0.07.00 hectares), 1204/3(0.06.00 hectares), 1204/4(Part) (0.05.00 hectares), 1204/5(Part) (0.03.50 hectares), 1204/6(Part) (0.04.50 hectares), 1204/7(Part) (0.05.50 hectares), 1233/3B (0.11.00 hectares), 1233/4B (0.22.50 hectares), 1233/5B2(0.05.50 hectares), 1233/9B(0.24.25 hectares), 1233/10(0.04.00 hectares), 1223/1B (0.36.00 hectares), 1234/1A(0.03.00 hectares), 1234/2B(0.02.00 hectares) of Punnam Village, Pugalur Taluk, Karur District under Rule 19(1) of Tamil Nadu Minor Mineral Concession Rule 1959.

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

In the reference 5th cited, the applicant has requested to the Assistant 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.	Tvl.V.S.T. Blue Metals S.F.No.645/B1 PunnamChathiram, Erode Main Road Pugalur Taluk, Karur District	Rough Stone & Gravel	Pugalur Taluk, Punnam Village	1199/2 1199/3 1199/4 1199/5 1199/6 1199/7 1199/8 1199/9 1200/4 1200/5 1200/6 1200/7 1200/8 1200/9 1200/10 1200/11 1200/12 1201(Part)	**03.82.50**	15.11.2022 to 14.11.2028
2.	Tvl.V.S.T. Blue Metals S.F.No.645/B1 PunnamChathiram, Erode Main Road Pugalur Taluk, Karur District	Rough Stone& Gravel	Pugalur Taluk Punnam Village	1197/1(p) 1197/5 1197/6 1197/7	**2.58.0**	08.05.2023 to 07.05.2028

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.G.Sathishkumar , S/o.Gurusamy, Door No.2/90, Punnam, Ayyanur, Pugalur Taluk, Karur District.	Rough Stone & Gravel	Pugalur Taluk, Punnam Village	1204/1(P), 1204/2, 1204/3, 1204/4(P), 1204/5(P), 1204/6(P), 1204/7(P), 1233/3B, 1233/4B, 1233/5B2, 1233/9B 1233/10, 1223/1B, 1234/1A and 1234/2B	**1.46.25**	Proposed Area

III. Lease Expired Quarries : -

	Name of the lessee/firm it holder	Name of the Mineral	Taluk & Village	S.F.No.	Extent (hect)	Lease Period
1.	K.Samyappan, S/o. Karuppana Gr., Pungodai, Kulathupalayam, Vettamangalam, Karur	Rough Stone	Pugalur (Erstwhile Aravakurichi) Taluk, Punnam Village	1076/2 part	**0.60.0**	03.04.2007 to 02.04.2012
2.	Thiru.K.M.Gurusamy, S/o.Marappan, 2/90, Iyyanur, Punnam (Post) Aravakurichi Taluk, Karur District.	Rough Stone & Gravel	Pugalur Taluk, Punnam Village	1232/11(Part) 1232/1(Part) 1232/3 1232/4(Part) 1232/5(Part) 1232/6(Part) 1232/7(Part) 1232/8(Part) 1232/9(Part) 1233/5(Part) 1233/6(Part) 1233/7(Part) 1238/8(Part) 1233/9(Part)	**2.00.50**	03.12.2018 to 02.12. 2023
3.	Tvl.V.S.T. Blue Metals S.F.No.645/B1 PunnamChathiram, Erode Main Road Aravakurichi Taluk, Karur District	Rough Stone & Gravel	Pugalur Taluk, Punnam Village	1196/1A 1196/1B (P) 1197/12A (p)	**3.61.0**	23.10.2017 to 22.10.2022 **Covid Extension** 23.10.2022 to 22.04.2024

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					

29/3/25

Assistant Geologist,
Geology and Mining,
Karur.

3/4/25