

**EXECUTIVE SUMMARY FOR  
PROPOSED NAGANUR MULTICOLOUR GRANITE QUARRY  
CATEGORY – B1 (MORE THAN 5 HA)**

APPROVED TOR IDENTIFICATION NO. TO25B0106TN5559039N DATED: 11.03.2025

<b>PROPOSED QUARRY LEASE DETAILS</b>		
SURVEY NOS	120 (PART)	
VILLAGE	NAGANUR	
TALUK	KULITHALAI	
DISTRICT	KARUR	
EXTENT	10.12.00 HA	
PROPOSED PRODUCTION QUANTITY FOR FIVE YEARS	TOTAL RUN OFF MINES – 7,20,887 m <sup>3</sup>	
	SALEABLE MULTICOLOUR GRANITE	1,80,221.75 m <sup>3</sup>
	GRANITE WASTE	5,40,665.25 m <sup>3</sup>
LAND	GOVERNMENT PORAMBOKE LAND	

(Sector No. 1(a) (Sector no.1 as per NABET)  
Category of the Project: B1, Total Cluster Area – 21.25.00 Ha

**APPLICANT**

**M/s. TAMIL NADU MINERALS LIMITED  
NO.31, KAMARAJAR SALAI,  
CHEPAUK, CHENNAI – 600 005**

**ORGANIZATION**

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



**MARCH -2025**





**Executive Summary for Proposed Multicolor Granite Quarry of M/s. Tamil Nadu Minerals Limited at S. F. No. 120 (Part) over an extent of 10.12.00 Ha at Naganur Village, Kulithalai Taluk, Karur District, Tamil Nadu State**

**EXECUTIVE SUMMARY**

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

This proposal is towards obtaining environmental clearance for the Proposed Naganur Multicolor Granite Quarry of M/s. Tamil Nadu Minerals Limited at S. F. No. 120 (Part) over an extent of 10.12.00 Ha at Naganur Village, Kulithalai Taluk, Karur District, Tamil Nadu State Nadu, for production capacity of Total Run off Mines of 7,20,887 m<sup>3</sup>, in which Saleable Multicolour granite is 1,80,221.75 m<sup>3</sup> @ 25% recovery and Granite Waste is 5,40,665.25 m<sup>3</sup> for 20 years. The mining plan was prepared and the same was approved by Commissioner of Geology and Mining, Guindy, Chennai vide Rc.No. 5811/MM2/2023 dated 31.01.2025.

As per EIA notification, 2006 and its subsequent amendments the proposed "Naganur Multicolor Granite Quarry of M/s. Tamil Nadu Minerals Limited" is falls under Schedule 1(a) Mining of Minerals. It is further classified under Category B1, as the extent of the quarry lease is >5 Ha. The ToR for the preparation of EIA/EMP was approved by SEIAA-TN vide ToR Identification No. TO25B0106TN5559039N dated: 11.03.2025.

**1.1** **Details of Project Proponent:**

Name of the Proponent : M/s. Tamil Nadu Minerals Limited

**Address:**

No.31, Kamarajar Salai,  
Chepauk, Chennai – 600 005

Status of the Proponent : Company

**1.2** **Size and Location of the Project:**

1	Co-ordinates of the project	Latitude 10° 44' 18.4452"N to 10° 44' 37.8367"N Longitude 78° 23' 44.1074"E to 78°24'03.2847"E
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**Executive Summary for Proposed Multicolor Granite Quarry of M/s. Tamil Nadu Minerals Limited at S. F. No. 120 (Part) over an extent of 10.12.00 Ha at Naganur Village, Kulithalai Taluk, Karur District, Tamil Nadu State.**

2	Type of land	Government Poramboke Land
3	Extent of lease area	10.12.00 Ha
4	Type of lease	New Lease (Quarry Pit exist)
5	Toposheet No.	57J/5 & 6
6	Geological Resource	63,60,307 m <sup>3</sup> of Multicolor Granite (Depth 58 m BGL)
7	Mineable Resource	36,18,453 m <sup>3</sup> of Runoff Mines (58 m BGL) 9,04,613 m <sup>3</sup> of Mineable Saleable Multicolor Granite @ 25% recovery 27,13,840 m <sup>3</sup> of Granite Waste
8	Proposed production quantity for 20 years	Total Run off Mines is 7,20,887 m <sup>3</sup> (58 m BGL) Saleable Multicolour granite is 1,80,221.75 m <sup>3</sup> @ 25% recovery and Granite Waste is 5,40,665.25 m <sup>3</sup>
9	Proposed depth of mining	58 m Below ground level
<b>1.3</b>	<b>Statutory Details:</b> There are no litigation/court cases pending against this project.	
	<p><b>a) Precise Area Communication:</b> The precise area was granted by GoTN, Natural Resources (MME.1) Department, Letter issued vide No.6168728/MME.1/2023-1,dated 24.05.2024.</p> <p><b>b) Mining Plan Approval Letter:</b> Mine plan for this project was approved by Commissioner of Geology and Mining, Guindy, Chennai vide Rc.No.5811/MM2/2023 dated 31.01.2025.</p> <p><b>c) 500m radius quarry features:</b> The project proponent has obtained an official letter from the Assistant Director, Department of Geology and Mining, Karur, vide Rc.No.435/Mines/2016 dated 06.02.2024.</p> <p><b>d) Land document of the proposed lease area:</b> It is a Government Poramboke Land and TAMIN has obtained Tender.</p>	
	<b>Salient Features of the Project</b>	

**Executive Summary for Proposed Multicolor Granite Quarry of M/s. Tamil Nadu Minerals Limited at S. F. No. 120 (Part) over an extent of 10.12.00 Ha at Naganur Village, Kulithalai Taluk, Karur District, Tamil Nadu State.**

1.4	Description	Salient Feature
	Name of the Project	Proposed Naganur Multicolor Granite Quarry of M/s. Tamil Nadu Minerals Limited
	Location of the Project	Survey Nos. 120 (Part) Village: Naganur Taluk: Kulithalai District: Karur State: Tamil Nadu
	Latitude & Longitude	<b>Latitude</b> 10° 44' 18.4452"N to 10° 44' 37.8367"N <b>Longitude</b> 78° 23' 44.1074"E to 78°24'03.2847"E
	Toposheet No.	57J/5 & 6
	ML Area	10.12.00 Ha.
	Type of Land	Government Poramboke Land
	Geological Resource	63,60,307 m <sup>3</sup> of Multicolor Granite (Depth 58 m BGL)
	Mineable Reserves	36,18,453 m <sup>3</sup> of Runoff Mines (58 m BGL) 9,04,613 m <sup>3</sup> of Mineable Saleable Multicolor Granite @ 25% recovery 27,13,840 m <sup>3</sup> of Granite Waste
	Life of the mine	101 Years
	Proposed depth of mining	58 m BGL for 20 years
	Method of Mining	Opencast mechanized Mining
	Proposed bench height and width	Bench Height & Width – 10m.
	Total Waste	27,13,840 m <sup>3</sup> of Granite Waste

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Top Soil / Overburden	The granite waste will be dumped within the Lease as per approved mining plan.
Water Requirement & source	Total – 9.5 KLD. The required water will be procured from outside agencies initially. Later, water collected in settling tank will be used to meet the needs.
Proposed Manpower Deployment	40 People
Total Project Cost	Rs. 914.44 Lakhs
Nearest Highway	National Highway (NH-83) Tiruchirappalli - Dindigul - 12.1 Km (SE)
Nearest Railway Station	Samudram Railway Station – 14.0 Km (SE)
Nearest Airport	Tiruchirappalli Airport - 33.60 Km (SE)
Nearest Major Water bodies	<b>Core Zone</b> – NIL <b>Buffer Zone</b> <ul style="list-style-type: none"> <li>• Odai – 480 m (S)</li> <li>• Venkatachalam Kulam – Adjoining the M.L Area (S)</li> <li>• Kusavan Kuttai – 255 m (NE)</li> <li>• Vellai kulam – 460 m (S)</li> <li>• Kalugur Tank – 1.30km (NW)</li> </ul>
Environmental sensitive areas, Protected areas as per Wildlife Protection Act, 1972 (Tiger reserve, Elephant reserve, Biospheres, National parks, Wildlife sanctuaries, community reserves and conservation reserves)	NIL within 10 km radius Kadavur Slender Loris Sanctuary- 20.80Km (SW)
Reserved / Protected Forests	Veeramalai R.F – 2.80 km (SW) Naganur R.F – 3.10 km (SW)
Nearest Village	Mettupatti Habitations - 300m (SW)
Seismic Zone	Zone II (Least active)
<b>2. Project Description</b>	

**Executive Summary for Proposed Multicolor Granite Quarry of M/s. Tamil Nadu Minerals Limited at S. F. No. 120 (Part) over an extent of 10.12.00 Ha at Naganur Village, Kulithalai Taluk, Karur District, Tamil Nadu State.**

The type of the project is opencast mechanized mining method to excavate Rough Stone within the proposed Mine Lease area with drilling, blasting, loading and transportation.

**2.1 Location details**

The proposed quarry project is located in S.F. No. 120(Part) of Naganur Village, Kulithalai Taluk, Karur District, Tamil Nadu State as shown in Figure 2.1. The nearest highway is the National Highway (NH-83) Tiruchirappalli - Dindigul - 12.1 Km (SE). The nearest railway station is Samudram Railway Station - 14.0 Km (SE). The nearest airport is Tiruchirappalli - 33.60 Km (SE).

**2.2 Geological Reserves and Mineable Reserves:** The Geological and Recoverable reserves are estimated by Cross Sectional method.

S. No.	Geological Reserves (m <sup>3</sup> )	Run off Mines (m <sup>3</sup> )	Mineable saleable Granite Reserves (@25% recovery)	Granite Waste @ 75% Recovery
1	63,60,307	36,18,453	9,04,613	27,13,840

**2.3 Yearwise production resources:** Year wise productions for 20 years for the ultimate depth of 58m BGL is given below

S. No.	Year	Runoff Mines (m <sup>3</sup> )	Saleable Multicolour Granite (@25% recovery)	Granite Waste @ 75% Recovery
1	1-5	1,80,220	45,055	1,35,165
2	5-10	1,80,218	45,054.50	1,35,163.50
3	10-15	1,80,191	45,047.75	1,35,143.25
4	15-20	1,80,258	45,064.50	1,35,193.50
<b>Total</b>		<b>7,20,887</b>	<b>1,80,221.75</b>	<b>5,40,665.25</b>

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**2.4 Land use of the project area**

The entire area is the Government Poramboke Land and M/s. TAMIN has obtained tender from the Government.

Sl. No	Land Use	Present Area (Ha)	Area at conceptual stage (Ha)
1.	Area under mining	4.15.50	8.12.00
2.	Old Pit	0.25.00	0.25.00
3.	Waste Dump	2.53.00	-
4.	Infrastructure	0.12.00	0.12.00
5.	Mineral Stock Yard	0.53.50	-
6.	Roads	0.31.50	0.10.50
7.	Afforestation	0.23.50	0.42.50
8.	Unutilized	1.98.00	1.10.00
<b>Total</b>		<b>10.12.00</b>	<b>10.12.00</b>

The ultimate pit dimension at the end of conceptual period is given below.

Sl. No.	Ultimate Pit Dimensions at Top (m)		Ultimate Pit Dimensions at Bottom (m)		Depth(Avg) in(m)
	Length	Width	Length	Width	
1	680.012	136.50	620.002	66.77	55.13 BGL

**2.5 Method of mining:**

Opencast method of Mechanized Mining with a bench height of 10.0m and width of 10.0m. It is proposed to excavate Multicolour Granite for a period of 20 years for the ultimate depth of 58.00m BGL.

**2.6 Greenbelt Development:** Proposed Green belt development plan is given below.

- As per SEAC norms, PP have to plant 5000 Saplings (500\*10.12.00 Ha=5,000). The safety zone area will be maintained as green belt area. This area will be planted with local Species of 400 Nos. of saplings as per the afforestation plan of the approved mining plan.
- Remaining 4,600 saplings will be planted outside the lease such as at project surrounding schools, temples, road sides, etc.,



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<b>3.0</b>	<b>Description of the Environment:</b>
<b>3.1</b>	The proposed quarry project is located in S.F. No. 120(Part) of Naganur Village, Kulithalai Taluk, Karur District, Tamil Nadu State over an extent of 10.12.00 Ha. The project area is considered as Core zone and the area in the surrounding 10km radius is considered as Buffer Zone. The baseline data collected in the study area from December 2024 to February 2025.
<b>3.2</b>	<b>Meteorology:</b> The climatic conditions of Karur are characterized by a tropical climate. As per the Köppen-Geiger classification, the prevailing weather conditions in this region are categorized under Aw. The average temperature in Karur is 26.7 to 38.56 °C. The Average annual rainfall here is around 635.6 mm. The predominant wind direction is blowing from South West to NE.
<b>3.3</b>	<b>Ambient Air monitoring Data:</b> Ambient air quality monitoring has been carried out in 7 locations. One in the core zone and remaining six locations are in the buffer zone areas. The concentrations of the monitoring value well within the prescribed government norms. The details are given in table No. – 1. For all the components in the table, the unit are in $\mu\text{g}/\text{m}^3$
<b>3.4</b>	<b>Water Environment:</b> Water samples (5 Ground Water) were collected from 8 different locations and the results are given in Table – 2.
<b>3.5</b>	<b>Noise Monitoring:</b> Noise Monitoring were done at 7 different locations and the results are given in Table – 3.
<b>3.6</b>	<b>Soil Sampling:</b> Soil samples have been collected at 7 different locations and the results are given in Table – 4.
<b>4.0</b>	<b>Anticipated Environmental Impacts and Mitigation Measures:</b> In order to maintain the existing environmental scenario of the proposed mine lease area it is mandatorily required to assess the present ecology and environment of the proposed mine lease area and buffer area of the project before starting mining operations.
<b>4.1</b>	<b>Land Environment:</b> This is a Proposed Multicolor Granite Quarry of M/s. Tamil Nadu Minerals Limited at S.F. No. 120(Part) of Naganur Village, Kulithalai Taluk, Karur District, Tamil Nadu over an extent of 10.12.00 Ha. The method of mining is Opencast method of Mechanized Mining with a bench height of 10.0m and width of 10.0m. It is proposed to excavate Multicolour Granite for a period of 20 years for the ultimate depth of 58.00m BGL

**Executive Summary for Proposed Multicolor Granite Quarry of M/s. Tamil Nadu Minerals Limited at S. F. No. 120 (Part) over an extent of 10.12.00 Ha at Naganur Village, Kulithalai Taluk, Karur District, Tamil Nadu State.**

	<p><b>Anticipated Impacts and Mitigation Measures:</b> The major impact due to this project on land environment is the change in land use. Further 75% of runoff mines will be dumped with the M.L as per the approved mining plan. Garland drain will be constructed with silt traps to collect the rainfall runoff. At the mine closure stage, 8.37 Ha of lease area will be left as rain water harvesting pond. 0.42.50 Ha will be developed with green belt. For this, plants like Pongamia pinnata, Syzigium cumini, Albizia lebbeck, Thespesia populnea, Bauhinia racemose, Cassia siamea, Azadirachta indica are selected. A total of 400 trees are planned to be planted in the mine lease area and out side 4600 nos. Spacing will be 3m x 3m.</p>
4.2	<p><b>Solid Waste Management:</b> The waste generation in the form of Solid waste (Municipal Waste) is very negligible. A detailed solid waste management system for the project area is given below and the same will be executed by proper awareness and sign boards. The sign boards will be in two language i.e., Vernacular language (Tamil) and common language (English). The plastic waste generation is very negligible and it will be collected from the source level in specific dustbin and disposed through the municipal bins.</p>
4.3	<p><b>Water Environment:</b></p> <p><b>Impacts on Surface Water Resources:</b> There is a Kulam named Venkatachalam Kulam located adjacent to the lease area in southern side, for which 50m safety distance has been left. Further there is a odai at 480m (S), Kusavan Kuttai, Vellai Kulam, Kalugur Tank at 255m (NE), 460m (S) and 1.30 km (NW) respectively. There are no rivers within 1 km radius from the project site. There is no proposal for discharging of wastewater outside the project area. There is no proposal for processing of mineral or workshop within the project area, so no effluent is anticipated in the mine.</p> <p>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 into these water bodies, there is no major impact. The project proponent will restrict the mining operation only within the lease and no other work will be carried out near the water bodies or any area outside the mining lease.</p> <p><b>Impacts due to water use in Mines:</b> In the proposed mine, water will be mainly used for domestic purpose, dust suppression &amp; plantation. Total water requirement for the project is 9.5 KLD which will be sourced from outside agencies. Negligible amount of sewage will be generated from domestic usage, for which a septic tank with soak pit will be set up.</p>

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**Impacts on Ground Water:** The ground water table is at the depth of 50m and detail impact study on the water table will be conducted.

**Mitigation Measures:** Entire lease area will be provided with proper garland drains. Check wears will be provided to prevent solids from wash off. Construction of garland drains around freshly excavated so that flow of water with loose material is prevented. The mine water will be passed through the natural slopes and valleys and gets accumulated in the settling tank and bottom of the pit.

**4.4 Air Environment:**

**Impacts due to mining operation:**

Mining activities in the proposed lease area not only pollutes the air in the core zone but also the nearby areas. The major air pollutants due to mining operations are fugitive emissions like PM<sub>10</sub>, PM<sub>2.5</sub>. Other than these pollutants, gaseous emissions of sulfur dioxide (SO<sub>2</sub>) and oxides of nitrogen (NO<sub>x</sub>) due to excavation/loading equipment and vehicles plying on haul roads are the cause of air pollution in the project area.

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

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

**4.5 Mitigation measures for various impacts:**

S. No.	Impact	Mitigation measures
1	Dust emission due to drilling	Since this is a granite quarry, blasting will be done only to create heaving effect to move the rock from the parent rock mass. Hence, only small quantity of low-strength explosives will be required. However controlled blasting method will be practiced to reduce eliminate the impacts to the nearby environment.
2	Dust emission due to Blasting	

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		3	Transportation	<ul style="list-style-type: none"> <li>• Using mist sprayers</li> <li>• Regular wetting of transport roads</li> <li>• Covering the materials carried in tippers with tarpaulin</li> <li>• Proper maintenance of vehicles used for transportation</li> <li>• Conducting regular emission tests for vehicles used for transport</li> <li>• Development of greenbelt is proposed in the safety zone.</li> </ul>	
4.6	<p><b>Noise Environment:</b> The main noise generating source during mining operation and related activities are drilling, blasting, Wire saw cutting, excavation, loading and transportation. Intermittent noise is generated due to operation of diesel generator.</p> <p><b>Impacts:</b> 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) 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.</p> <p><b>Mitigation Measures:</b> As the distance between the source and receptor increases, the noise level decreases. Hence, there will be a natural attenuation. The proponent has planned to develop green belt in the periphery of the lease area which diminishes sound volume by dampening them. All the equipment/machinery/tippers 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. Providing green walls/nets wherever possible.</p>				
4.7	<p><b>Socio Economic Impact:</b> No land is acquired from anyone. No rehabilitation is needed. Hence, there is no negative impact. The proponent has planned to spend INR 10,00,000 for CER activities. This amount will be subjected to change after public hearing.</p>				

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**Occupational Health:**

**Impacts:** The occupational risk due to proposed mining may be due to drilling, blasting, wire saw cutting, excavation and transportation. A total of 40 workers will be engaged in the mining activity. Mining activity may cause various health problems to the mines workers as follows:

- Dust generated during excavation, drilling, stone cutting, sizing and transportation may cause health problems like Silicosis, Asthma, Tuberculosis and other respiratory lungs disorders.
- Noise generated during the mining activity may cause Noise Induced Hearing Loss (NIHL).

**Mitigation Measures:**

- The mines worker will be provided with dust mask to minimize the inhalation of the dust.
- Water sprinkling twice in a day is in practice on the haul roads, near excavation and roads to reduce the fugitive dust emission.
- Wet drilling and drilling with dust extractor will be practiced.
- Ear muffs will be supplied to the workers working in the noise prone area
- The mining site will be supplied with first aid facilities and the entire mines worker will have access to that.
- The mines workers will be well trained about the safety practices in the mining activities.
- As per Mines Rules, 1955, medical examination of employees at the initial stage and periodically, shall be done by a team of qualified medical officers provided by the project proponent.
- Regular medical checkup camps shall also be arranged for detection of occupational diseases and minor disease in the nearby rural population.
- Free checkup and medicine for treatment for their acute and chronic illness shall be provided by the lessee. Conducting periodical Medical Examination as per DGMS.
- 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.

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<b>5.0</b>	<b>Analysis of Alternatives (Technology &amp; Sites):</b> The mining technology is Opencast Mechanized Mining in single-shift operation without any change in technology. The operation will be carried out as per DGMS norms. No alternate technology will be used.
<b>6.0</b>	<b>Environmental Monitoring Programme:</b> 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. The schedule is framed based on MoEF & CC and Tamil Nadu State Pollution Control Board. In case the SEIAA/TNPCB/MoEF & CC or other statutory bodies demand monitoring of any additional parameter/factor, the same will also be done.  Mines-in-charge will be responsible for environmental related activities. After obtaining EC, the conditions mentioned in EC will be strictly followed. The Mines-in-charge will be responsible for implementing the conditions. EC compliance report will also be submitted periodically.
<b>7.0</b>	<b>Additional Studies:</b> <b>Risk Assessment &amp; Management:</b> Risk assessment is a method in method in which possible threats/hazards which may arise during mining operations are identified so that adequate machinery/equipment are made available in precaution.  <b>Rehabilitation and Resettlement (R&amp;R) Plan:</b> No land is acquired from people dwelling in the area. The lease area is an uninhabited land. No R & R plan is proposed.  <b>Hydrogeological Study:</b> There is a Kulam named Venkatachalam Kulam located adjacent to the lease area in southern side, for which 50m safety distance has been left. Further there is a odai at 480m (S), Kusavan Kuttai, Vellai Kulam, Kalugur Tank at 255m (NE), 460m (S) and 1.30 km (NW) respectively. There are no rivers within 1 km radius from the project site. There is no proposal for discharging of wastewater outside the project area. There is no proposal for processing of mineral or workshop within the project area, so no effluent is anticipated in the mine. The ground water table is at the depth of 50m and detail impact study on the water table will be conducted  <b>Slope Stability Study:</b> Opencast mechanized mining with a bench height of 10m and bench width of 10m and 80° Slope is proposed. The depth of mining is proposed as 58 m below ground

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level for 20 years, which is the ultimate pit limit. Action plan proposed for maintaining the stability of the slope is given as follows;

- The slope face will be monitored for the formation cracks.
- In case of cracks, it will be painted and periodical monitoring will be carried out to measure their stability.
- No haul road will be maintained steeper than 1 in 16 and Gradient of ramps will not be steeper than 1 in 10.
- Adequate drainage management system comprising peripheral garland drain, settling pond to regulate monsoon water will be created to prevent saturation of compact layers, apparent drainage over the bench slope to avert damages to quarry face and manage the water flow
- After quarrying reaches 30m of depth, slope stability will be analyzed through reputed institution and slope stabilization measures will be implemented.
- No person will be allowed to work under overhanging ledges or in the place of evident of more fractured slope faces until the danger has been ensured to be cleared.

**Disaster Management Plan:** Precautionary measures are well explained to all staff by the mines in-charge. PPE necessary for all staff are available in the quarry. No person is allowed to enter inside without PPE. Avoiding quarrying during unfavorable environmental conditions. Carrying out safe blasting by following DGMS norms. Safety equipment like fire extinguisher, first aid kit, etc are present in the mine. Proper maintenance of machinery used for mining. In case of any emergency, the contact numbers of mines in-charge, mines manager, Management contact are available in the mines office.

**Mine Closure Plan:** The quarrying operation is proposed up to a depth of 58 m below ground level and anticipated life of the mine. The quarry will be fenced and after completion of quarrying operation, the mined-out pit will be left as rain water harvesting pond and existing fencing will be strengthened and repaired to prevent the inherent entry of the public and cattles.

**8.0 Project Benefits**

**Financial benefits:** This project will contribute financially through payment of taxes like royalty, GST, etc & The project will also contribute via CSR.

**Executive Summary for Proposed Multicolor Granite Quarry of M/s. Tamil Nadu Minerals Limited at S. F. No. 120 (Part) over an extent of 10.12.00 Ha at Naganur Village, Kulithalai Taluk, Karur District, Tamil Nadu State.**

	<p><b>Social benefits:</b> This project provides employment to 40 people directly. Local people will be hired for unskilled labour &amp; Through CSR, nearby schools, hospitals will be benefitted &amp; For CSR, INR 10,00,000 is allocated.</p>
<b>9.0</b>	<p><b>Environmental Management Plan:</b> The Environmental Management Plan is developed to ensure that a project is implemented in an environmentally sustainable manner, where all contractors and subcontractors, including consultants, understand the potential environmental risks arising from the project and take appropriate actions to minimize those risks. EMP also ensures that the project implementation is carried out in accordance with the planned design and by taking appropriate mitigation measures to reduce adverse environmental impacts during the project's life cycle. The effective implementation of EMP is not only reduce pollution load and comply the regulatory requirement but also increase productivity and improve marketability of product. Total EMP Cost for 20 years is 716.29 lakhs i.e., Rs. 57.62 Lakhs of Capital Cost + Rs. 658.67 Lakhs of Recurring cost.</p>
<b>10</b>	<p><b>Conclusion:</b> 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 EMP funds has been allocated. 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.</p>



**Executive Summary for Proposed Multicolor Granite Quarry of M/s. Tamil Nadu Minerals Limited at S. F. No. 120 (Part) over an extent of 10.12.00 Ha at Naganur Village, Kulithalai Taluk, Karur District, Tamil Nadu State**

**Table - 1**

**Ambient Air Quality Data**

Code	PM 10 ( $\mu\text{g}/\text{m}^3$ )				PM 2.5 ( $\mu\text{g}/\text{m}^3$ )				SO2 ( $\mu\text{g}/\text{m}^3$ )				NOx ( $\mu\text{g}/\text{m}^3$ )			
	Max	Min	Avg	98 percentile	Max	Min	Avg	98 percentile	Max	Min	Avg	98 percentile	Max	Min	Avg	98 percentile
AAQ 1	62.8	52.2	56.3	62.2	29.8	25.5	27.3	29.706	8.5	5.8	7.1	8.5	11.8	8.9	10.6	11.8
AAQ 2	59.2	52.3	54.9	58.8	27.2	24.1	25.3	27.0	8.3	6.2	7.3	8.3	11.2	9.1	10.1	11.2
AAQ 3	53.2	46.3	50.0	53.1	26.9	21.4	24.2	26.7	8.2	5.5	6.6	8.1	10.2	7.5	8.8	10.1
AAQ 4	52.8	44.2	48.6	52.6	25.1	21.0	23.1	25.0	7.4	5.1	6.3	7.4	10.4	8.6	9.6	10.4
AAQ 5	54.9	45.7	50.2	54.9	25.5	21.3	23.4	25.5	8.4	5.3	6.6	8.2	11.3	8.1	9.5	11.0
AAQ 6	49.9	40.8	46.0	49.8	22.0	18.0	20.2	21.9	6.8	4.3	5.4	6.7	9.8	7.5	8.7	9.8
AAQ 7	51.2	42.1	47.3	51.1	22.6	18.6	20.8	22.5	7.1	4.6	5.7	7.0	10.3	8.1	9.2	10.3
<b>NAAQ Standards - Residential Area</b>	<b>100 (<math>\mu\text{g}/\text{m}^3</math>)</b>				<b>60(<math>\mu\text{g}/\text{m}^3</math>)</b>				<b>80 (<math>\mu\text{g}/\text{m}^3</math>)</b>				<b>80 (<math>\mu\text{g}/\text{m}^3</math>)</b>			

**Executive Summary for Proposed Multicolor Granite Quarry of M/s. Tamil Nadu Minerals Limited at S. F. No. 120 (Part) over an extent of 10.12.00 Ha at Naganur Village, Kulithalai Taluk, Karur District, Tamil Nadu State**

**Table – 2**

**Ground Water Analysis Results**

S. No	Parameters	GW 1	GW 2	GW 3	GW 4	GW 5
1	Odour	<1	<1	<1	<1	<1
2	Turbidity	7.48	7.65	7.32	7.66	7.45
3	pH at 25 °C	569.5	1146	833.2	1040	1226
4	Electrical Conductivity	342	690	502	626	738
5	Total Dissolved Solids	133	234	250	242	392
6	Total hardness as CaCO <sub>3</sub>	22.6	43.6	48.5	64.6	85.6
7	Calcium as Ca	18.4	30.1	31.0	19.4	42.7
8	Magnesium as Mg	56.6	109	121	162	214
9	Calcium as CaCO <sub>3</sub>	76.8	125	129	80.8	178
10	Magnesium as CaCO <sub>3</sub>	155	296	332	235	195
11	Total alkalinity as CaCO <sub>3</sub>	140	230	121	232	255
12	Chloride as Cl <sup>-</sup>	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)
13	Free Residual chlorine as Cl <sup>-</sup>	45.6	181	105	156	218
14	Sulphates as SO <sub>4</sub> <sup>2-</sup>	0.05	0.05	0.04	0.06	0.03
15	Iron as Fe	3.22	1.68	5.64	2.58	1.77
16	Nitrate as NO <sub>3</sub>	0.36	0.45	0.52	0.47	0.45
17	Fluoride as F	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)
18	Manganese as Mn	<1	<1	<1	<1	<1

**Executive Summary for Proposed Multicolor Granite Quarry of M/s. Tamil Nadu Minerals Limited at S. F. No. 120 (Part) over an extent of 10.12.00 Ha at Naganur Village, Kulithalai Taluk, Karur District, Tamil Nadu State**

**Table - 3**

**Noise Monitoring Report**

Noise Levels	N1	N2	N3	N4	N5	N6	N7
Day Equivalent	50.5	48.3	44.0	46.1	43.9	46.3	47.2
Night Equivalent	41.8	39.8	40.9	39.3	39.9	40.7	42.5
Day Standard	75	55	55	55	55	55	55
Night Standard	70	45	45	45	45	45	45

**Table - 4**

**Soil Quality Report**

S. No	Parameter	Unit	SQ1	SQ2	SQ3	SQ4	SQ5	SQ6	SQ7
1	pH at 25 °C	-	6.65	7.25	7.25	6.95	7.31	7.57	7.73
2	Electrical Conductivity	µmhos/cm	124.50	138.40	102.50	132.50	97.54	103.70	80.76
3	Dry matter content	%	96.57	97.54	94.58	97.63	97.57	97.86	93.85
4	Water Content	%	3.43	2.46	5.42	2.37	2.43	2.14	6.15
5	Organic Matter	%	0.65	0.77	1.02	1.54	0.62	1.21	0.81
6	Soil texture	-	CLAY LOAM	CLAY	SILT LOAM	SILTY CLAY	Clay loam	Clay loam	Silt loam
7	Grain Size Distribution	%	30.59	4.01	41.47	6.56	29.87	31.42	21.56
	i. Sand								
	ii. Silt								
8	iii. Clay	%	33.11	33.64	50.41	43.60	34.38	39.86	52.64
9		%	36.30	62.35	8.12	49.84	35.75	28.72	25.80

**Executive Summary for Proposed Multicolor Granite Quarry of M/s. Tamil Nadu Minerals Limited at S. F. No. 120 (Part) over an extent of 10.12.00 Ha at Naganur Village, Kulithalai Taluk, Karur District, Tamil Nadu State**

10	Phosphorous as P	mg/kg	0.55	0.79	1.02	0.66	1.83	2.28	1.59
11	Sodium as Na	mg/kg	840	952	978	736	782	820	656
12	Potassium as K	mg/kg	392	425	724	456	456	479	342
13	Nitrogen and Nitrogenous Compounds	mg/kg	210	270	312	405	126	175	108
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)	BDL(D.L.0 .02)
15	Porosity	%	14.5	13.2	11.9	12.6	3.7	3.5	3.8
16	Water Holding Capacity	Inches/foot	36	32	34	39	38	37	36



# **ANNEXURE-1**



Natural Resources  
(MME.1) Department  
Secretariat, Chennai - 600 009.



**Letter No.6168728/MME.1/2023-1, Dated: 24.05.2024**

From  
Thiru K. Phanindra Reddy, IAS.,  
Additional Chief Secretary to Government (FAC).

To  
The Managing Director,  
Tamil Nadu Minerals Limited,  
Chepauk, Chennai - 600 005.



Sir,

Sub: Natural Resources - Minor Mineral - Multi-colour Granite - Quarry lease renewal application preferred by TAMIN for quarrying of Multi-colour Granite over an extent of 10.12.0 Hectares of poramboke land in S.F.Nos.120 (Part) of Naganur Village, Kulithalai Taluk, Karur District for a period of 20 years - Precise area communicated - Approved Mining Plan and Environmental Clearance - Called for.

- Ref: 1. Your Quarry Lease Renewal Application dated 24.08.2022.
2. From the District Collector, Karur Lr.No.411/Mines/2022, dated: 14.08.2023.
3. From the Commissioner of Geology and Mining, Chennai, Rc.No.5811/MM2/2023, dated: 23.11.2023.

\*\*\*\*\*

I am directed to invite attention to the references second and third cited, wherein the District Collector, Karur and the Commissioner of Geology and Mining, Chennai have recommended and forwarded your quarry lease renewal application for grant of quarry lease renewal for quarrying of Multi-colour Granite over an extent of 10.12.0 Hectares of Poramboke land in S.F.No.120 (Part) of Naganur Village, Kulithalai Taluk, Karur District for a period of 20 years under rule 8-C of the Tamil Nadu Minor Mineral Concession Rules, 1959.

2. The Government carefully examined the recommendations of the District Collector, Karur and the Commissioner of Geology and Mining, to communicate precise area for quarrying Multi-colour Granite over an extent of 10.12.0 Hectares of poramboke land in S.F.No.120(Part) of

A CMLD/Pl.

of  
5/6/24

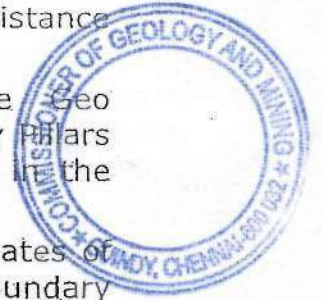
Naganur Village, Kulithalai Taluk, Karur District for a period of 20 years and accordingly, the Government hereby communicate Precise Area for the above said area under 8-C of the Tamil Nadu Minor Mineral Concession Rules, 1959 for grant of quarry lease.

3. I therefore request you to furnish the Approved Mining Plan for the above-mentioned Precise Area through the Commissioner of Geology and Mining within a period of 3 months as per Rule 8-C of the Tamil Nadu Minor Mineral Concession Rules, 1959 and to produce Environmental Clearance obtained from the competent authority for the above said area for grant of quarry lease renewal, subject to the following conditions:-

- i. Tvl.TAMIN Ltd shall submit the approved mining plan and Environmental clearance for the renewal period.
- ii. Tvl.TAMIN Ltd should remit an amount of Rs.5,26,936/- as penalty for the quantum of 215.076 cbm Multi-colour Granite blocks were transported without Environmental clearance after 15.01.2016 to 13.11.2016.
- iii. Tvl.TAMIN Ltd should produce latest valid mining due clearance certificate before the execution of lease deed.
- iv. A safety distance of 50 meters should be provided to the Venkatachalamkulam situated in the S.F.No.151 to the south side of the applied area.
- v. A safety distance of 7.5 and 10 meters should be provided to the adjacent patta and poramboke lands respectively.
- vi. The four boundaries of the applied area should be fixed and the District administration/Geology and Mining Department should ensure that the quarrying pertains should be restricted within the area granted on lease.
- vii. The applicant should obtained Environment Clearance from the competent authority in respect of the subject area as per rule 42 of Tamil Nadu Minor Minerals Concession Rules, 1959 and as per the notification of the Ministry of Environment and Forest and any other clearances if any.
- viii. Quarrying activity should be carried out between 7.00 A.M. to 5.00 P.M.
- ix. A green belt should be constructed to prevent sound and air pollution due to the proposed quarrying activity by planting at least 500 seedlings of Neem and Pungan all around the area.
- x. Barbed wire fencing or Compound wall should be erected all along the boundary of the lease granted area.
- xi. The waste materials generated during the course of quarrying should be dumped only within the lease hold area.
- xii. The applicant should fence the lease granted area with barbed wire before the execution of lease deed as follows:-
  - (a) The applicant shall at his own expenses erect, maintain and keep in repair all the boundary pillars.
  - (b) The pillar post shall be firmly grounded with concrete

foundation of height not less than 2 meters with a distance between two pillars shall not be more than 3 meters.

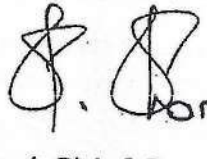
- (c) The applicant company shall incorporate all the Geo Coordinates taken by the DGPS for the entire boundary pillars of the area and the same should be clearly shown in the mining plan.
- (d) A soft copy of the digitized map with the Geo Coordinates of the boundary pillar and shape file of the lease boundary should be submitted in the CD to the Deputy Director (G&M), Karur.
- xiii. The applicant should use mills explosives during quarrying.
- xiv. The child labourer should not be engaged in the quarry works
- xv. The applicant should ensure that while starting the quarry work, all the quarry workers working under their control are registered in the Labour Welfare Board and also enrolled in the ongoing insurance scheme.
- xvi. The conditions mentioned in G.O No.79, Industries Department, dated 06.04.2015 should be complied with.
- xvii. The applicant company should comply with the conditions stipulated in the Government of India, Ministry of Mines order No.11/02/2020, dated 14.01.2020 issued as per the orders of Hon'ble supreme Court of India dated 08.01.2020 which states that "The mining lease holders shall after ceasing mining operations, under take re-grassing the mining area and any other area which may have been disturbed due to this mining activities and restore the land to a condition which is fit for growth of fodder, flora and fauna etc.,"
- xviii. The applicant company should carry out DGPS survey and erection of RCC boundary pillars as per the norms stipulated in the EOI notification in Rc.No.2921/ MM4/ 2019, dated 01.02.2018 and subsequent corrigendum, dated 13.08.2019 and carry out the drone survey before execution of quarry lease through empanelled agencies
- xix. The applicant company shall strictly adhere to the statutory and safety requirements.
- xx. 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.
- xxi. The applicant company shall submit scheme of mining; mine closure plan and other statutory requirements within the time stipulated for submission of the above, as per rules.
- xxii. If any violation is found during quarrying operation, the penal provisions of the Tamil Nadu Minor Mineral Concession Rules, 1959 and other rules and act in force will attract.





4. The District Collector, Karur may be instructed to obtain a sworn-in-affidavit from the applicant / firm, containing the above conditions before execution of lease deed and also ensure that the instructions issued in Government Letter No.12789/MMB.2/2002-7, Industries Department, dated 09.01.2003 are complied with. Further, the District Administration / Geology and Mining Department should ensure the conditions imposed in G.O. (Ms) No.79, Industries (MMC.1) Department, dated 06.04.2015

Yours faithfully,

 S. Sannuganathan,  
24/5/24

for Additional Chief Secretary to Government (FAC).

*Rix*  
24/5/2024

Copy to:

The Commissioner of Geology and Mining,  
Guindy, Chennai - 600 032.

The District Collector, Karur.



**ANNEXURE-2**

COMMISSIONERATE OF GEOLOGY AND MINING



From  
Thiru.E.Saravanelraj, I.A.S.,  
Commissionerate of Geology and Mining,  
Industrial Estate,  
Guindy, Chennai - 600 032.

To  
The Managing Director,  
Tvl. Tamil Nadu Minerals Ltd,  
No.31, Kamarajar Salai,  
TWAD House, Chepauk  
Chennai- 05

Rc.No. 5811/MM2/2023 Dated. 31 .01.2025

Sir,

Sub : Mines and Minerals – Multicolour Granite- Karur District – Kulithalai Taluk – Naganur Village - S.F.No.120(Part) - Over an extent of 10.12.0 hectares – Poramboke land - Granite quarry lease renewal application preferred by Tvl.Tamil Nadu Minerals Limited (TAMIN Ltd) for 20 Years period – sent to the Government – Precise area communicated by the Government – Draft revised Mining Plan forwarded and recommended by the Assistant Director (G&M), Karur – Approval accorded - Regarding.

- Ref :
1. Granite Quarry Lease Renewal Application of Tvl.TAMIN dated 24.08.2022.
  2. Revenue Divisional Officer, Kulithalai Report Rc.No.A1/6820/2022, dated:12.05.2023.
  3. Technical Report of the Deputy Director, Department of Geology & Mining, Karur dated: 14.06.2023.
  4. District Collector, Karur Single File System Note File No.411/Mines/2022, dated 14.08.2023 addressed to the Director of Geology and Mining.
  5. Government letter No.6168728/MME.1/2023-1, dated:24.05.2024.
  6. Assistant Director (G&M), Karur letter in Rc.No.411/Mines/2022, dated:10.10.2024.
  7. This Office Letter in Rc.No.5811/MM2/2023, dated:18.11.2024.
  8. Assistant Director (G&M), Karur letter in Rc.No.411/Mines/2022, dated:09.01.2025.

\*\*\*\*\*

Kind attention is invited to the references cited above.

2) In the reference 1<sup>st</sup> cited, Tvl. TAMIN Ltd, 31, Kamarajar Salai Chepauk, Chennai - 600 005 has preferred a Granite quarry lease renewal application for quarrying Multi Coloured Granite over an extent of 10.12.0 hectares of Poramboke land in Naganur Village, Kulithalai Taluk, Karur District under rule 8-C of Tamil Nadu Minor Mineral Concession Rules 1959 for a period of 20 years.

3) In the reference 5<sup>th</sup> cited, the Government has communicated precise area to the Tvl.TAMIN Ltd with a direction to submit Approved Mining Plan and Environmental Clearance on the proposal recommending for grant of multi-coloured

quarry lease. Accordingly, Tvl.TAMIN Ltd has submitted draft mining plan for the approval of the Commissioner of Geology and Mining. The same have been forwarded and recommended vide reference 6<sup>th</sup> cited by the Assistant Director (G&M), Karur. In this connection, the Commissioner of Geology and Mining vide reference 7<sup>th</sup> cited returned the draft mining plan and requested to submit revised draft Mining Plan for approval.

4) In the reference 8<sup>th</sup> cited, the Assistant Director (G&M), Karur has forwarded the revised draft Mining Plan and reported that Tvl.TAMIN Ltd has submitted the revised draft mining plan in accordance with rule 8-C and rule 42 of TNMMCR, 1959. The conditions stipulated in the precise area communication are incorporated in the revised draft mining plan. The content in the revised draft mining plan is verified and found correct along with field conditions. Finally, the Assistant Director of Geology and Mining, Karur has recommended for approval of the Commissioner of Geology and Mining.

5) On examining the revised draft mining plan, it is observed that the total Geological reserves and mineable reserves available in the area are 63,60,307 cbm and 36,18,453 cbm respectively. The saleable mineable reserves at 25% recovery is about 9,04,613 cbm for a maximum depth of 58 mts. Further, the proposed Run of Mine and saleable multi coloured granite for the first five years are 180220m<sup>3</sup> and 45,055m<sup>3</sup>.

6) Based on the recommendation of the Assistant Director (G&M), Karur and in exercise of the powers conferred under Rule, 18(4) of Granite Conservation and Development Rules, 1999 read with G.O.(Ms). No.87, Industries (MMC.1) Department dated 22.02.2001, the Mining Plan submitted by Tvl.TAMIN Ltd is hereby approved subject to the following conditions:

- i. This 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. The approval of the mining plan does not in any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Development and Regulation) Act 1957, or any other connected laws including Forest (Conservation) Act, 1980, Forest Conservation Rules, 1981, Environment Protection Act, 1980, Indian Explosives Act, 1884 (Central Act IV of 1884) and the rules made there under and the Tamil Nadu Minor Mineral Concession Rules, 1959.
- iii. This mining plan including Progressive mine closure plan is approved without prejudice to any other order or direction from any court of competent jurisdiction.
- iv. Provisions of the Mines Act, 1952 and the Rules and Regulations made there under including submission of notice of opening, appointment of manager and other statutory officials as required under Mines Act, 1952 shall be complied with.
- v. Provisions made under Mines and Minerals (Development & Regulation) Act, 1957, MMDR Amendment Act, 2015 and Granite Conservation and Development Rules, 1999 made there under shall be complied with.

- vi. Tvl.Tamin Ltd should produce latest valid mining due clearance certificate before the execution of lease deed.
- vii. A safety distance of 50 meters should be provided to the Venkatachalamkulam situated in the S.F.No.151 to the south side of the applied area.
- viii. A safety distance of 7.5 meters and 10 meters should be provided to the adjacent patta and poramboke lands respectively.
- ix. No encroachment shall be allowed in the adjacent patta lands and Government lands during quarrying operation.
- x. Environmental Clearance should be obtained from the competent authority in respect of the subject area as per rule 42 of the Tamil Nadu Minor Mineral Concession Rules, 1959 and as per the notification of the Ministry of Environment and Forest and also obtain any other clearances, if any, required as per the notifications.
- xi. The four boundaries of the applied area are fixed and the quarrying activity should be restricted within the area granted on lease.
- xii. Quarrying activity should be carried out from 07.00 AM to 05.00 PM only.
- xiii. No hindrance should be caused to the adjacent pattadars and public while quarrying and transportation of minerals from the subject area.
- xiv. Relaxation to be obtained under Rule 105(2 )(a) &(b) of Metalliferous Mines Regulations, 1961 from the Director of Mines Safety, if necessary.
- xv. The applicant should fence the lease granted area with barbed wire before the execution of lease deed as follows:-
  - The applicant shall at his own expenses erect, maintain and keep in repair all the boundary pillars.
  - The pillar post shall be firmly grounded with concrete foundation of height not less than 2 meters with a distance between two pillars shall not be more than 3 meters.
  - A soft copy of the digitalized map with the Geo Coordinates of the boundary pillar and shape file of the lease boundary should be submitted in the CD form to the Deputy/Assistant Director (G&M), Karur and the Director of Geology and Mining.
- xvi. A Green belt should be constructed to prevent sound and air pollution due to the proposed quarrying activity by planting at least 500 seedlings of Neem and Pungan all around the area.
- xvii. The waste materials generated during the course of quarrying should be dumped only within the lease hold area.
- xviii. The applicant should use mild explosives during quarrying.
- xix. The applicant should ensure that while starting the quarry work, all the quarry workers working under their control are registered in the Labour Welfare Board and also enrolled in the ongoing insurance scheme.
- xx. Child labourer should not be engaged in the quarry works.
- xxi. The conditions mentioned in G.O. No. 79 Industries Department, dated 06.04.2015 should be complied with.
- xxii. The applicant should comply with the conditions stipulated in the Government of India, Ministry of Mines order no.11/02/2020, dated 14.01.2020 issued as per the orders of the Hon'ble Supreme Court of India dated 08.01.2020 that,

“the mining lease holders shall after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to this mining activities and restore the land to a condition which is fit for growth of fodders, flora and fauna etc.”


- xxiii. The applicant company should carry out DGPS survey and erection of RCC boundary pillars as per the norms stipulated in the EOI notification in Rc.No.2921/MM4/2019, dated: 01.02.2018 and subsequent corrigendum, dated: 13.08.2019 and carry out the drone survey before execution of quarry lease through empaneled agencies.
- xxiv. The applicant firm shall strictly adhere to the statutory and safety requirements.
- xxv. The applicant firm shall erect and maintain the boundary pillars at his own expense all along the lease area.
- xxvi. The applicant firm should carry out DGPS survey and erection of RCC boundary pillars as per the norms stipulated in the EOI notification in RC No.2921/MM4/2019, dated:01.02.2018 and subsequent corrigendum dated 13.08.2019 and carry out the Drone survey before execution of quarry lease through the empaneled agencies.
- xxvii. The owner, agent, mining engineer or manager of mine or quarry shall review the mining plan as prescribed under sub-rule (1) of 18 of the GCDR, 1999 and submit a scheme of mining for the next five years of the lease for approval of the Commissioner of Geology and Mining.
- xxviii. The applicant firm shall submit scheme of mining, mine closure plan and other statutory requirements within the time stipulated for submission of the above, as per rules.
- xxix. If any violation is found during quarrying operation, the penal provisions of Tamil Nadu Minor Mineral Concession Rules, 1959 and other rules and act in force will attract.
- xxx. 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.
- xxxi. The District Collector, Karur shall obtain sworn-in-affidavit from the applicant for the compliance or the above conditions, before execution of the lease deed and also ensure that the said conditions and the instructions issued in Government Letter No. 6168728/MME.1/2023-1, dated:24.05.2024 are complied by the applicant.

Approved Mining Plan is sent herewith for further necessary action.

**Encl:** Approved Mining Plan.

Sd/- E.Saravanelraj,  
Commissioner of Geology and Mining

Forwarded / By Order

  
Assistant Director

  
31/01/25

**Copy Submitted to:**

Additional Chief Secretary  
to Government(FAC),  
Natural Resources Department,  
Secretariat, Chennai-9.

**Copy to**

1. The Director of Mines Safety,  
Lapis Lagoon, AA Block,  
Shanthi Colony, Anna Nagar,  
Chennai-40. (With AMP)
2. The District Collector,  
Karur.
3. The Deputy Director,  
Geology and Mining,  
Karur (With AMP).



**ANNEXURE-3**



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

To  
The Manager,  
Tvl.Tamil Nadu Minerals  
Limited,  
Opp. to Anna Sports Stadium,  
Race Course Road,  
Kaja Nagar Post,  
Trichy - 620 023.

**R.C. No.435/Mines/2016, Dated:06.02.2024**

Sir,

Sub: Mines and Minerals – Minor Mineral – Multicolour Granite – Kulithalai Taluk – Naganoor Village – Government land – S.F.No.120(Part) over an extent of 10.12.0 hectares - quarry lease granted to Tvl.Tamil Nadu Minerals Limited - Requested for existing/proposed/expired and abandoned quarries situated within 500 mts radial distance - details furnished – Regarding.

- Ref: 1. G.O.Ms.14, Industries (MME-1) Department,  
Dated:27.01.2005.
2. Tvl.Tamil Nadu Minerals Limited letter  
dated:03.02.2025.

In the reference 1<sup>st</sup> cited, Tvl.Tamil Nadu Minerals Limited had been granted quarry lease for Multicoloured Granite in S.F.No.120(Part) over an extent of 10.12.0 hectares of Government land in Naganur Village Kulithalai Taluk, Karur District.

In this regard, Tvl.Tamil Nadu Minerals Limited have requested to provide the details of existing/proposed/ expired and abandoned quarries with 500 meter radial distance from the lease granted area in the reference 2<sup>nd</sup> cited.

As requested by the lessee the particulars furnished as detailed below.

**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	Remarks
1	Thiru.M. Gandhi, S/o. Masanam, Karuttupatti Village, Andipatti Taluk,	Multicoloured Granite	Kulithalai Taluk & Naganur,	135/1A 136/1A 136/2	2.93.0	25.12.2008 to 24.12.2028	---
2	Tvl.TAMIN Ltd., 31.Kamarajar Salai Chepauk Chennai-5	Multicoloured Granite	Kulithalai Taluk & Naganur,	120 (Part)	10.12.0	06.03.2023 to 05.03.2043	Proposed area

3	M/s. P.R.P. Exports, Tberkkutheru Village, Metur, Madurai District.	Mulit coloured Granite	Kulithalai Taluk & Naganur,	149/3B (Part) 150/ (Part)	1.83.0	17.12.2008 to 16.12.2028	---
4	M/s. P.R.P. Exports, Tberkkutheru Village, Metur, Madurai District.	Mulit coloured Granite	Kulithalai Taluk & Naganur,	123/4 134/1	1.95.0	17.12.2008 to 16.12.2028	---
5	M/s.G.V. Granites, 19 G Main Road, Thogamalai, Kulithalai Taluk Karur District.	Mulit coloured Granite	Kulithalai Taluk & Naganur,	160/2B 160/5A 160/5C 449/1B	1.39.0	21.09.2004 to 20.09.2024	---
6	M/s.P.R.P. Exports, Vehu Complex, Madurai Main Road, Melur, Madurai Dt	Mulit coloured Granite	Kulithalai Taluk & Naganur,	149/1B1(P) 149/3A1(P) 149/3B (P) 150 (P)	2.01.5	08.06.2005 to 07.06.2025	---
7	Thiru.M. Singaram, 21/B Chathiram St Thogamalai Kulithalai Taluk	Mulit coloured Granite	Kulithalai Taluk & Naganur,	148/1F2(P) 160/2A1 160/3 160/4	1.01.5	06.07.2007 to 05.07.2027	---

### 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	-- Nil--					

### III. Lease Expired 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--					

### 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--					

*S. P. 1012/2025*  
Assistant Director,  
Geology and Mining,  
Karur.

*DBOLAS*