

# **SUMMARY**

OF

## **DRAFT EIA / EMP REPORT**

FOR

### **ROUGSHTONE AND GRAVEL QUARRY**

<b>Extent</b>	0.990 Ha
<b>Land Type</b>	Patta Land
<b>Production for 5 years</b>	Roughstone – 64,842 m <sup>3</sup> Gravel – 39,250.5 m <sup>3</sup>
<b>Depth</b>	30m bgl
<b>Lease Period</b>	5 years

**SURVEY NO -48/2A, 48/2B and 49/1**  
**VILLAGE – ALADIPATTI, TALUK – ARUPPUKOTTAI,**  
**DISTRICT – VIRUDHUNAGAR, STATE – TAMILNADU.**

- Terms of Reference issued by SEIAA, Tamil Nadu vide SEIAA-TN/F.No.9061/SEAC/ToR-1180/2022 Dated :13.06.2022.
- Baseline Monitoring Period – March – May 2022 (Summer Season)

#### **PROJECT PROPONENT**

**TMT.S.MEENAKSHI**

2/171, North Street, Ulakkudi, Thiruchuli Taluk – 626607, Virudhunagar

#### **CONSULTANT**

**CREATIVE ENGINEERS & CONSULTANTS**

NABET ACCREDITED CONSULTANCY, NABL ACCREDITED TESTING LAB

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**NOVEMBER 2022**

**SUMMARY FOR ROUGH STONE AND GRAVEL QUARRY OF TMT.S. MEENAKSHI AT SURVEY NOS. 48/2A, 48/2B AND 49/1 OVER AN AREA OF 0.990HA IN ALADIPATTI VILLAGE, ARUPPUKOTTAI TALUK, VIRUDHUNAGAR DISTRICT, TAMIL NADU**

**SUMMARY**

**1.1 INTRODUCTION:**

Tmt.S.Meenakshi proposes to operate a Rough Stone and Gravel Quarry at Survey Nos. 48/2A, 48/2B and 49/1 over an area of 0.990Ha in Aladipatti Village, Aruppucottai Taluk, Virudhunagar District, Tamil Nadu and has initiated action towards obtaining environmental clearance. IN entire land is own patta land.

It is proposed to mine 64,842m<sup>3</sup> of Roughstone and 39,250.5m<sup>3</sup> of Gravel for a period of five years upto a depth of 30m as per approved TOR as against the mining plan approved quantity of 66,652.5m<sup>3</sup> of Roughstone and 39250.5m<sup>3</sup> of Gravel a period of five years upto a depth of 36m.

Although the individual lease area of this project is less than 5 Ha, the other quarries within the 500m radius along with this subject project works out to > 5Ha and as such this proposal is considered under Category – B1 Necessitating preparation of EIA/EMP Report and public hearing .

**1.2 STATUTORY APPROVALS:**

1.	Precise Area Communication Letter	KV1/1059/2021 Dated: 06.01.2022
2.	Mining Plan Approval	Roc. KV1/1059/2021, dated 20.01.2022
3.	Terms of Reference	Letter No. SEIAA-TN/F.No.9061/SEAC/ToR-1180/2022 Dated: 13.06.2022

Based on the conditions of Precise Area Communication letter, a safety distance of 10m is provided for the cart track on the north and 7.5m safety distance has been left for the adjoining patta lands. As per TOR Condition, EIA/EMP report is prepared. Salient details of the report is given below.

**2.1 SITE DESCRIPTION:**

**Table No.1: SITE DETAILS**

S.No	Particulars	Details		
1.	Name of the Project	Rough Stone and Gravel Quarry of Tmt.S.Meenakshi		
2.	Location of the project	Aladipatti Village, Aruppucottai Taluk, Virudhunagar District, Tamil Nadu		
3.	Proposed production	<b>YEAR</b>	<b>RoughStone m<sup>3</sup></b>	<b>Gravel in m<sup>3</sup></b>
		1	8814.0	13152
		2	8814.0	13152

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S.No	Particulars	Details		
		3	10678.5	12946.5
		4	19090.5	-
		5	17445.0	-
		<b>Total</b>	<b>64842.0</b>	<b>39,250.5</b>
4.	Latitude & Longitude	<b>Latitude:</b> 09°29'15.8"N to 09°29'18.8"N <b>Longitude:</b> 78°11'28.4"E to 78°11'32.0"E		
5.	Mining Lease area	0.990 Ha		
6.	Type of land	Private Patta Land in the name of the applicant		
7.	Mine site topography	Almost Plain Terrain		
8.	Accessibility	The lease area can be approached from Tamilpadi – Aladipatti Road (SH-183) which lies on the eastern side of the lease area at a distance of 520m which joins SH-42 ( Arupukottai – Parthibanoor) on the northern side at a distance of 2.55Km		
9.	Nearest Highway	(NH-38) – 9.0 km (W)		
10.	Nearest Railway station	Tiruchuli RS – 5.5km - N		
11.	Nearest Airport	Madurai – 50Km – NE		
12.	Nearest major water bodies	<ul style="list-style-type: none"> <li>• Aladipatti Kanmai -100m, E</li> <li>• Drainage Channel – 40m, S</li> <li>• Kanal Odai-8.5 km – NE</li> </ul> Gundar River – 3.8 km (NE).		
13.	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		
14.	Local Places of Historical and Tourism Interest	Nil within 10 Km radius		
15.	Reserved / Protected Forests	Nil within 10 Km radius		
16.	Seismic Zone	Zone – II (Least Active)		

**Table No.2: TECHNICAL DESCRIPTION**

S.No	Particulars	Details		
1.	Geological reserve	Roughstone – 2,97,000cum , Gravel- 59,400cum		
2.	Mineable reserve	Roughstone – 66,652.5cum , Gravel – 39.250.5cum		
3.	Method of Mining	Open cast mechanized mining method with drilling, blasting, excavation, loading and transportation of Roughstone to needy buyers.		
4.	Production	<b>YEAR</b>	<b>RoughStone m<sup>3</sup></b>	<b>Gravel in m<sup>3</sup></b>
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		<b>Total</b>	<b>64842.0</b>	<b>39,250.5</b>
5.	Life of the mine	5 Years		
6.	Waste Generation and Management	No waste generation anticipated in this quarry operation since the entire excavated material will be utilized.		
7.	Ultimate Mine depth	30m		
8.	Manpower	9 People directly and more than 50 people indirectly		
9.	Water Requirement & source	Total water – 6 KLD Will be procured from outside agencies initially. Later, water collected in the mine pit will be used to meet the needs.		
10.	Power Requirement	All the equipment will be diesel operated. No electricity is needed for mining operation. The minimum power requirement for office, etc will be met from state grid.		
11.	Site services	Mine office, first aid room, rest shelters, toilets etc. will be provided as semi-permanent structures.		
12.	Project cost	Rs. 30,16,818/-		
13.	CER cost	Rs.5.0 Lakhs		

**3.1 EXISTING ENVIRONMENTAL SCENARIO:**

The studies and data collection have been carried out systematically and meticulously as per relevant IS codes, CPCB and MoEF&CC guidelines and as per approved ToR during **Summer Season (March 2022 to May 2022)** For the purposes of this study, the area has been divided into two zones, namely, core and buffer zones. The entire lease area is considered to be the core zone while the buffer zone encompasses a 10km radius from the periphery of the core zone. Based on 2011 census data, in the 10km radius there are 71 Rural villages from Three Taluks namely Arupukottai, Tiruchuli, Kamuthi and 3 urban areas of Arupukottai Taluk namely Arupukottai (M), Palayampatti (CT), Athipatti (CT) belonging to Virudhunagar and Ramanathapuram District.

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**Table No.3: SOCIAL, ECONOMIC AND DEMOGRAPHIC PROFILE OF THE STUDY AREA**

Details	Population	Percentage
<b>A. Gender-wise distribution</b>		
Male Population	104250	49.94
Female Population	104488	50.06
<b>Total</b>	<b>208738</b>	<b>100</b>
<b>B. Caste-wise population distribution</b>		
Scheduled Caste	19128	9.16
Scheduled Tribes	222	0.11
Other	189388	90.73
<b>Total</b>	<b>208738</b>	<b>100</b>
<b>C. Literacy Levels</b>		
Total Literate Population	159856	76.58
Others	48882	23.42
<b>Total</b>	<b>208738</b>	<b>100</b>
<b>D. Occupational structure</b>		
Main workers	88795	42.50
Marginal workers	10755	5.20
<b>Total Workers</b>	<b>99550</b>	<b>47.70</b>
<b>Total Non-workers</b>	<b>109188</b>	<b>52.30</b>
<b>Total</b>	<b>208738</b>	<b>100</b>

**3.2.1 EXISTING ENVIRONMENTAL QUALITY:**

The details of the same are provided below:

**Table 1: Baseline Data**

A) AMBIENT AIR QUALITY PARAMETER	Monitoring Location – 7 locations		*LIMIT (µg/m3)
	Location	RESULT (µg/m3)	
	Core Zone	Buffer Zone	
Particulate Matter (Size <10 µm)	50.5-59.7	40.4-68.6	100
Particulate Matter (Size <2.5 µm)	23.7-28.1	18.4-32.2	60
Sulphur Dioxide (as SO <sub>2</sub> )	4.2-6.5	3.6-6.9	80
Nitrogen Dioxide (as NO <sub>2</sub> )	7.2-10.8	5.4-11.1	80

**Conclusion:** The existing Ambient Air Quality levels for PM10, PM2.5, SO2 and NO2, are within the NAAQ standards prescribed CPCB limits of 100 µg/m3, 60 µg/m3, 80 µg/m3 & 80 µg/m3.

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<b>B) WATER QUALITY</b>		<b>Monitoring Location – 6 locations</b>	
<b>PARAMETER</b>	<b>Result</b>	<b>*LIMIT (µg/m3)</b>	
pH at 25 °C	7.71 – 8.36	<b>6.5-8.5</b>	
Total Dissolved Solids, mg/L	325 – 1012	<b>2000</b>	
Chloride as Cl-, mg/L	70.60 – 460	<b>1000</b>	
Total Hardness (as CaCO <sub>3</sub> ), mg/L	198 – 412	<b>600</b>	
Total Alkalinity (as CaCO <sub>3</sub> ), mg/L	172– 300	<b>600</b>	
Sulphates as SO <sub>4</sub> <sup>2-</sup> , mg/L	23 – 226	<b>400</b>	
Iron as Fe, mg/L	BDL(D.L - 0.01)– 0.06	<b>0.3</b>	
Nitrate as NO <sub>3</sub> , mg/L	BDL(D.L – 1.0)– 3.04	<b>45</b>	
Fluoride as F, mg/L	0.09 – 0.35	<b>1.5</b>	
<b>Conclusion:</b> The water quality of ground water is found to be within the prescribed Permissible limits of IS: 10500 Norms in the absence of an alternative source as per Drinking Water Specifications.			
<b>C) NOISE LEVELS</b>		<b>Monitoring Location – 7 locations</b>	
<b>PARAMETER</b>	<b>RESULT dB(A)</b>		<b>*LIMIT (µg/m3)</b>
	<b>Day Equivalent</b>	<b>Night Equivalent</b>	
Core Zone	48.0	42.2	<b>90</b>
Buffer Zone	45.5-49.2	37.3-43.1	<b>Day Equivalent - 55dB(A), Night Equivalent - 45dB(A)</b>
*Permissible noise for industrial workers as laid down by CPCB (at 8 hrs Exposure Time). While comparing with the MoEF&CC Norms, the monitored ambient noise levels are generally within the limit values.			
<b>D) SOIL QUALITY</b>		<b>Monitoring Location – 4 locations</b>	
<b>PARAMETER</b>	<b>Range of values</b>		
pH	6.46-7.22		
Electrical Conductivity (µmho/cm)	23.3-122.4		
Organic matter (%)	0.9-1.24		
Total Nitrogen (mg/kg)	128-142		
Phosphorus (mg/kg)	1.3-2.14		
Sodium (mg/kg)	342-420		
Potassium (mg/kg)	637-756		
Soil is of Sandy loam type			

**3.2.2 LAND ENVIRONMENT:**

Landuse pattern study carried out through remote sensing satellite data around the 10km buffer zone shows that 9.58 % of the study area is agriculture land and 46.47 % are fallow land. Land

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with scrub constitutes 28.22 %, lands without scrub constitute 9.96% and waterbodies & others constitute 5.77%.

### **3.2.3 BIOLOGICAL ENVIRONMENT:**

Flora: The lease area is a non forest, private land. Major part of lease area is barren fallow land with few bushes (*Prosopis juliflora*) and grasses. The dominated species in the Buffer Zone are *Prosopis juliflora*, *Azadirachta indica*, *Borassus flabellifer*, *Acacia nilotica*, *Albizia lebeck*, *Acacia leucophloea*, *Acacia auriculiformis*, etc.

Fauna: There is no Wild Life Sanctuary or National Park within the study area of 10 km. Domesticated animals are commonly found. No wild mammalian species was directly sighted during the field survey. There is no Schedule I species in the core & buffer zone.

### **3.2.4 HYDROLOGICAL STUDY:**

In the study area, the shallow aquifer is developed through dug wells and deeper aquifer through tube wells. The study has revealed that potential fractures are encountered at deeper levels. The water in the wells are available mainly after post monsoon and it reduces during summer necessitating only dry crops cultivation. Bore wells are as deep as 600 ft also and it reflects that the yield is only better at deeper water levels.

Based on the available information and the geophysical investigations it is concluded that the project area is considered to poor groundwater potential up to 50m. Besides, the mining area consists of hard compact rock, no major water seepage within the mine is expected. There is no water seepage noticed in to the already quarried pits situated nearby the proposed quarry area. Hence, the quarrying rough stone up to the proposed depth may not have any adverse impact in the area over ground water conditions.

## **4.1 ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES**

This is a proposed project and Semi – Mechanized Open Cast mining will be carried out to quarry out Rough Stone, & Gravel. The identified impacts due to this mine during mining and associated activities have been studied in relation to various environmental components like Air, water, noise, vibration, land, transport etc.

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**4.1.1 AIR ENVIRONMENT:**

The principal sources of air pollution in general due to mining and allied activities will be Excavation, Drilling, Movement of HEMM such as Excavators, tippers etc., Loading and unloading operation and transportation. In case of this mine, the following measures will be adopted to control impact on the air quality due to mining operations in the lease area:

- Regular wetting of transport road using mobile water tanker.
- Wet drilling / Covering of drill holes with wet clothes
- Proper maintenance of roads.
- Avoiding overloading of tippers & Transportation of material by tarpaulin covered trucks
- Proper maintenance of HEMM to minimize gaseous emission
- Setting up of tyre washing facility in the lease area exit.
- Vehicular emission tests with digital smoke meter.
- Provision green netting around the lease periphery on all sides.
- Diamond wire fencing with Green netting will be carried out on all sides of the lease area.

By adoption of all these measures, no adverse impact on air quality is envisaged due to this proposed opencast mining operation.

The impact on air quality due to the proposed project is estimated using AERMOD View Gaussian Plume Air Dispersion Model.

The resultant added concentrations with baseline figures even at worst scenario, show that the values of ambient air quality with respect to PM<sub>10</sub> are in the range of 52.6µg/m<sup>3</sup> to 69.6µg/m<sup>3</sup> and with respect to PM<sub>2.5</sub> are in the range of 24.5 µg/m<sup>3</sup> to 33.2µg/m<sup>3</sup> which are within the statutory limits in each case.

For preservation of environment in this mine strict enforcement of management schemes will be undertaken for taking corrective actions, as needed. By adopting the effective implementation of all the mitigative measures, no adverse impact on Air quality due to the mining operation in this lease area is expected.



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**4.1.2 WATER ENVIRONMENT:**

The total water requirement for this project will be 6.0 KLD. The water will be sourced initially from outside agencies. Later the rainwater collected in the mine pit sump will be used for this purpose.

The domestic effluent to be generated from the project will be collected in septic tank with soak pits arrangements. This being a mining project there will not be any process effluent. The rain water falling in the quarry will be harvested in the sump at the lowest level of the quarry. This sump will act as a settling pond to prevent solids escaping along with discharge, before outlet. etc. Towards surface runoff management, garland drain will be constructed around the quarry and will be connected to a settling pond with silt traps. The supernatant clear water from the settling pond will be flow to the downstream users.

There is a drainage channel passing at a distance of 40m on the South side of the lease area. Besides Aladipatti Kanmai lies at a distance of 100m on the eastern side of the lease area. There is no proposal to discharge any effluent into this water body. Diamond wire fencing with green netting is carried out on all sides of the lease area. For the drainage channel, earthen bund will be made on the southern side. No adverse impact is envisaged on the nearby water bodies.

**4.1.3 NOISE ENVIRONMENT:**

During mining operation there will be noise generation due to working of excavators, movement of vehicles, etc. However, it will be felt near the active working area only and at away from its source it will get reduced. There will also be attenuation due to vegetation , tin sheet/ green netting to be erected by the proponent all around the lease and as such there will not be any adverse noise propagation outside the lease boundary Due to natural attenuation effects, by proper green belt development, design / maintenance of machines, etc., the impact on noise levels will be negligible and are expected to be well within the prescribed limits.

**4.1.4 VIBRATION:**

In the proposed mine workings, blasting & vibration effects will be controlled by adopting following measures.

- Carrying out controlled blasting using Nonel delay detonator.
- Optimum design for burden and spacing.

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- Reducing explosive charge per delay to minimum.
- Using rock breaker wherever possible
- Proper care and supervision during blasting by a competent and experienced person to be carried out.
- Besides, different blasting time for both the projects is suggested and the timing is to be mentioned in the display board in the mines entrance.

By adoption of above measures, it will be ensured that ground vibrational levels due to blasting will be maintained within the prescribed DGMS conditions of 10 mm/s for the domestic houses/structures.

**4.1.5 IMPACT ON LAND ENVIRONMENT:**

In the post mining stage, 0.690 Ha of mined out area will be left as water body. 0.100 Ha will be road & infrastructure, 0.05.0 ha will be under afforestation, 0.10.0 Ha will be undisturbed and 0.05.0 will be fencing. Entire mined out area will be properly fenced to prevent inadvertent entry of men and animals. In the post mining stage the rainwater harvested in the mined out void shall be utilized to harvest rain water.

**4.1.6 BIOLOGICAL ENVIRONMENT:**

Necessary mitigative measures like dust suppression, proper maintenance of equipment's, greenbelt and plantation etc., will be carried out to prevent dust generation & any further impact on the vegetation or agricultural activity nearby. Greenbelt / Plantation will be carried out to enhance the vegetative growth and aesthetic in the safety zone area

**4.1.7 SOCIO ECONOMIC ENVIRONMENT:**

The entire lease area is private patta land owned by the applicant. There are no habitations or hutments in the core zone area and no rehabilitation or resettlement problems will arise here.

The mining operations in the proposed mine will provide the following socio-economic benefits:

- Direct Employment for about 9 persons.
- Besides through allied opportunities in logistics, trading, repairing works etc. good employment potential will arise in this area, which will provide raising income levels and

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standards of living in the area through various service-related activities connected with the project operations.

- Benefit to State and central exchequer by way of royalty, taxes.

Towards the socio-economic development of the surrounding area, the proponent has earmarked an amount of Rs.5.0 Lakhs under Corporate Environmental Responsibility. The activities identified under CER will be implemented in a phased manner in the nearby Government school. In consultation with the locals based on the need & priority it will be implemented.

By carrying out systematic and scientific mining and implementing all the environmental mitigative measures it will be ensured that there will be no adverse impact on this front.

#### **4.1.8 IMPACT ON LOCAL LOGISTICAL SYSTEM DUE TO PROJECT:**

The material mined out from this lease area will be directly transported to the required customers. During the project operations, there will be 1 trip/hr. The transport route will be properly maintained to absorb this traffic due to this project. The following mitigative measures are suggested for mitigation of adverse impacts on the logistical aspect of the project:

- ❖ Water sprinkling on Rough stone in the transport vehicles before transporting, so that no dust nuisance during transport will arise.
- ❖ Proper maintenance of transport roads
- ❖ Proper maintenance of transport vehicles.
- ❖ Avoiding overloading of material
- ❖ Covering of loaded vehicles with tarpaulins sheet if warranted.

#### **4.1.9 WASTE MANAGEMENT:**

There is no process effluent generation from this mine. Hence no liquid waste is generated. Single use plastics/ use and throwaway plastics will be banned in the site as directed by the Tamil Nadu Government vide GO(Ms)No.84 regarding ban on use of plastic products. The employees will be encouraged to use compostable material or reusable material.

#### **5.1 ENVIRONMENTAL MONITORING PROGRAMME:**

Regular, systematic and sustained programme schedules for implementation and monitoring of various control measures are devised with clear cut guidelines of various concerned plans for keeping a continuous surveillance on the various environmental quality parameters in the area.

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The Mines Manager in the mine project site will be directly responsible for various environmental activities in the mine and will undertake effective monitoring and implementation of various environmental control measures promptly and effectively and to oversee various environmental management schemes for air quality control, water quality status, noise level control, plantation programme, social development schemes, etc in the mine. Towards EMP measures, Rs. 10.65 lakhs is allocated under capital cost. Besides, Rs.9.95 lakhs is allocated as recurring cost. The baseline monitoring carried out for this project reflects the cumulative impact of the existing quarries.

**6.1 CONCLUSION:**

Production from this lease area is very less. By systematic and scientific mining adhering to all the statutory norms and enforcing and strictly implementing the above said mitigation measures mentioned in this report, no adverse impact is envisaged. The proposed mining project will benefit this region in the fields of potential employment opportunities, improved income for local people, improved social welfare facilities in respect of education, medical healthcare systems, etc. in its own way and also revenue to Government through royalty, taxes etc. Besides, it will meet the raw material requirement of the construction industry also.

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