

State Expert Appraisal Committee (SEAC)

Minutes of 366th meeting of the State Expert Appraisal Committee (SEAC) held on 30.03.2023 (Thursday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligal, Saidapet, Chennai 600 015 for consideration of Building Construction Projects, Industry projects & Mining Projects

Agenda No: 366-01

(File No: 7896/2020)


Proposed "Upgradation of Existing R&D facility into intermediates for API Manufacturing Unit" at S.F.No.27, Vandaloor Kelambakkam Road, Keelakottaiyur Village, Melakottaiyur Post, Kancheepuram (Now Chengalpattu) District, Tamil Nadu by M/s. Solara Active Pharma Sciences Limited - For Environmental clearance (SIA/TN/IND2/175529/2020, dated 28.1.2021)

Earlier, this proposal was placed in this 307th SEAC meeting held on 26.08.2022.


The details of the project furnished by the proponent are available on the website (parivesh.nic.in).

The project proponent gave detailed presentation of the project. SEAC noted the following:

1. The Project Proponent, M/s. Solara Active Pharma Sciences Limited has applied seeking Environmental Clearance for the proposed "Upgradation of Existing R&D facility into intermediates for API manufacturing unit" at S.F.No.27, Vandaloor Kelambakkam Road, Keelakottaiyur Village, Melakottaiyur Post, Kancheepuram (Now Chengalpattu) District, Tamil Nadu.
2. Further, the application was submitted by the Proponent as Per the Office Memorandum issued by MoEF & CC vides F.No.F.No.22-25/2)20-IA.II dated: 13.04.2020 and as per S.O. 1223(E) dated: 27.03.2020 for the projects or activities in respect of 5 (f) Active Pharmaceutical Ingredients (API) to appraise as Category 'B2' Projects.
3. Hence, the project/activity is covered under Category "B2" of Item 5(f) "Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)" of the Schedule to the EIA Notification, 2006.


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S. No	Description	Details
1	Name of the Project	Proposed Upgradation of Existing R&D facility into Intermediates for API manufacturing unit by M/s. Solara Active Pharma Sciences Limited
2	Location	S.F. No. 38/2, 38/3A, 38/3B, 38/4, 38/5, 38/6, 40B/1, 40B/2, 40B/3, 41B/1, 41B/2, 41B/1A, 41B/1B, 57/1, 57/2, 57/3, 56/1, 56/2, 56/3, 56/4, 56/5, 58/1, 58/2, 61/1A, 61/1B, 61/2 & 64/2A, Plot No.27, Vandaloor-Kelambakkam Road, Keelakottaiyur Village, Melakottaiyoor (PO), Kanchcepuram (now Chengalpattu) District, Tamil Nadu
3	Type of Project	Schedule 5(i) - Synthetic organic chemicals Industry (dyes & dye intermediates; bulk drugs and Intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)
4	Total Area	37635.80 Sq.m (9.30 Ha)
5	Cost of Project (INR)	Rs. 0.80 Crores
6	Brief description of the project	M/s. Solara Active Pharma Sciences Limited (SAPSL) an integrated, leading global supplier for development and manufacturing services of Bulk drugs, intermediates, API (Active Pharmaceutical Ingredients) to the Pharmaceutical Industry, the existing R&D facility is being operated for scale up activities with maximum production of Active Pharma Ingredients (API) cum Intermediate of Kilogram basis with maximum scale of operation 100 litres for R&D purpose. Now Solara propose an Upgradation of Existing R&D facility into an Intermediates for API manufacturing unit at 27, Vandaloor Kelambakkam Road, Melakottaiyur Village, Keelakottaiyur (Post), Chennai

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S.No.	Products	Total Per (MTPM)	Total Per (MTPA)
Proposed			
1	Diethyl Amino Malonate Hydrochloride (stage - 1 & 2)	0.135	1.62
2	Obeticholic Acid (stage - 1 & 2)	0.044	0.528
3	Safinamide (stage - 1 & 2)	0.035	0.42
4	Bupirone (stage - 1 & 2)	0.041	0.492
5	R & D products	0.042	0.5
TOTAL		0.297	3.56

7 a) Water requirement


Total water requirement – 48.37 kLD
 Fresh water requirement – 26.25 kLD

Purpose	Existing	Proposed	After Expansion
Domestic	10	0.5	10.5
Process	8.5	1.75	10.25
Utility	1	0.5	1.5
Others	1.5	0.5	2.0
Greenbelt	2	0	2
Fresh water (A)	23	3.25	26.25
Greenbelt (Treated sewage) (B)	9	0.5	9.5
Utility makeup (Treated effluent) (C)	10.4	2.22	12.62
Total (A+B)	42.4	5.97	48.37

b) Source of water

Private Tankers (Earlier) / Ground Water (Current)


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8 Sewage generation, treatment and disposal

Sewage Generation – 10.5 kLD

Description	Existing (kLD)	Proposed (kLD)	After Expansion (kLD)
Toilet	7.0	0.4	7.4
Canteen	3.0	0.1	3.1
Total	10.0	0.5	10.5

STP capacity - 40 kLD


1. Collection Sump
2. Storage Tank
3. Aeration Tank
4. Plate Type Clarifier
5. Filter Feed Tank
6. Pressure Sand Filter
7. Activated Carbon Filter
8. Treated Water Tank
9. Sludge Drying Bed


Treated Sewage is used for Gardening

9 Effluent generation, treatment and disposal

Effluent Generation – 12.25 kLD

Description	Existing (kLD)	Proposed (kLD)	After Expansion (kLD)
Process Lab	7	1	8
Process Kilo Lab	1.5	0.75	2.25
Scrubber	0.5	0.5	1
Cooling Tower	1.0	0	1.0
Total	10	2.25	12.25



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10	Quantity of Solid Waste generated per day (in Kgs). Mode of treatment and Disposal of Solid Waste	<p>Effluent is treated through Primary treatment followed by RO (70 kLD) and MEE (24 kLD).</p> <ol style="list-style-type: none"> 1. Collection Sump - 1 2. Collection Sump - 2 3. Neutralization Tank 4. Coagulation Tank 5. Sedimentation Tank 6. Aeration Tank 7. Secondary Clarifier 8. Treated Water Storage Tank 9. Pressure Sand Filter 10. Activated Carbon Filter <p>RO and MEE Permeate are used for utility makeup. Concentrate from MEE sent to centrifuge and Solid waste disposed through TWML.</p> <p>Mode of Discharge - ZLD system</p>																				
		<table border="1"> <thead> <tr> <th>Waste</th> <th>Existing</th> <th>Proposed</th> <th>After Expansion</th> <th>Method of disposal</th> </tr> </thead> <tbody> <tr> <td>Organic</td> <td>71.01 kg/day</td> <td>2.7 kg/day</td> <td>73.71 kg/day</td> <td>Local bins</td> </tr> <tr> <td>Inorganic</td> <td>47.34 kg/day</td> <td>1.8 kg/day</td> <td>49.14 kg/day</td> <td>Authorized Recyclers</td> </tr> <tr> <td>STP sludge</td> <td>0.2 TPA</td> <td>0.01 TPA</td> <td>0.21 TPA</td> <td>Used as a Manure for gardening</td> </tr> </tbody> </table>	Waste	Existing	Proposed	After Expansion	Method of disposal	Organic	71.01 kg/day	2.7 kg/day	73.71 kg/day	Local bins	Inorganic	47.34 kg/day	1.8 kg/day	49.14 kg/day	Authorized Recyclers	STP sludge	0.2 TPA	0.01 TPA	0.21 TPA	Used as a Manure for gardening
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11	Hazardous waste Management:																					
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Category No.	Description of Hazardous Waste	Existing (MT/Y)	Proposed (MT/Y)	After Expansion (MT/Y)	Proposed Mode of Disposal																	
5.1	Used oil / Spent oil	0.2	0	0.2																		


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	28.5	Date Expired Products	0.36	0	0.36	Generation, collection, storage, Transportation and disposal
	28.6	Spent Solvents	11.5	14.2	25.7	
	33.1	Empty barrels / containers / liners contaminated with hazardous chemicals / wastes	0.05	0.2	0.25	
	35.3	Chemical sludge from wastewater treatment	0.3	3.92	3.95	
	Total (In MT/Y)		12.41	18.32	30.46	
12	Power requirement	1250 kVA (TANGEDCO) 1 No. of 0.85 TPH Boiler				
13	Details of D.G. set with Capacity	1 No. of 725 kVA				
14	Air Pollution Control Measures (Stack)	Point emission source	APC measures		Stack height from AGL (in m)	
		D.G. set 1 - 725 KVA	Stack		12.5	
		Boiler 1 - 0.85 TPH	Stack		18.5	
		Fume Cupboard - 36 Nos (Organic lab-1)	Wet scrubber with stack		12.5	
		Fume Cupboard - 36 Nos (Organic lab-1)	Wet scrubber with stack		12.5	
		Fume Cupboard - 1 No, LEV - 4 Nos (QC Lab)	Wet scrubber with stack		12.5	


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		Reactor-4 Nos in Scale up lab	Adsorption column + Alkaline Scubber with stack	12.5		
15	Fuel requirement	Description	Existing	Proposed	After Expansion	Source
		FO requirement (For Boiler-MEE)	40 L/hr	5 L/hr	45 L/hr	Local
		Diesel Requirement (For DG set)	80 L/hr	40 L/hr	120 L/hr	Local
16	Details of man power	263 Nos. (Existing)				
		10 Nos. (Proposed)				
		273 Nos. (After Expansion)				
17	Details of Green Belt Area	13014.68 Sq.m (Proposed) (34.6% of total plot area)				
18	Details of Parking Area	744.62 Sq.m.				
19	EMP Cost (INR)	Rs. 151.46 Lakhs (Existing)				
		Rs. 171.96 Lakhs (After Expansion)				
20	CER activity	Rs. 0.8 Lakhs				

Previously this proposal was placed for appraisal in the 196th meeting of SEAC held on 29.01.2021 and based on the presentation made and documents furnished by the Project proponent, SEAC decided to seek the following additional details from the Proponent:

1. Proponent shall clarify whether the unit is already into commercial production of the products listed or newly proposed.


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2. Physical, Chemical and Physiological properties of the products shall be furnished.
3. Production details shall only be furnished in Tonnes Per Annum.
4. Certified compliance report from TNPCB for the existing facility.
5. The proponent shall furnish the Stoichiometric material balance for all the reactions to assess the quantum of pollutant emission from the proposed project.
6. The proponent shall furnish the details of the material and source of fuel used for boilers.
7. The project proponent shall furnish the Raw materials used for the individual product along with its storage details.
8. The Project proponent shall furnish details of all the products with chemical name and formula and the reaction kinetics including the list of intermediate products.
9. The Proponent shall propose the scientific mode of disposal of spent solvents and detailed proposal for solvent recovery which is going to be exposed to atmosphere shall be furnished by the project proponent.
10. The project proponent shall submit the expected characteristics of the Effluent generated during the processes and the design of the treatment plant based on those characteristics.
11. The proponent shall submit the proposal for treatment of sewage and design of the STP.
12. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modeling for the VOC Emissions and model the same.
13. Height of the stack for the process emission and the DG Sets should be recalculated by considering the nearest tallest building as per the CPCB guidelines.
14. Status of Agitated Thin Film Dryer provided at the unit shall be furnished.
15. The proponent shall carry out the Risk Assessment Study based on the MSDS of the individual chemicals during handling/Solvent storage/Storage of chemicals.
16. The proponent shall submit the Health hazard management and industrial hygiene assessment report carried out for the employees at the existing plant.


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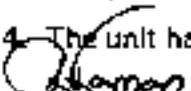
17. The project proponent shall obtain necessary permission from Competent Authority for the extraction of Ground water.
18. The Proponent shall ensure that the Solvent storage area is not located near the boiler and the proponent shall submit the safety measures undertaken in this regard.
19. The project proponent shall furnish the detailed study report on industrial Hygienic Survey and furnish the detailed report on Occupational Health and Safety Management for the employees.
20. The Environmental Management Plan (EMP) for the proposed project shall be revised considering the above points and same shall be submitted.
21. As per the MoEF&CC Office Memorandum F.No. 22-55/2017-IA.III dated: 30.01.2020 and 20.10.2020 the proponent shall furnish the detailed EMP mentioning all the activities as proposed in the CER.


On submission of the above details, SEAC decided that an on the spot inspection shall be carried out by the subcommittee constituted by the SEAC to assess the present status of the site as this is an expansion project. Based on the inspection report by the Proponent, SEAC would further deliberate on this project and decide the further course of action.

The sub-committee constituted by the SEAC, the Sub-committee visited the site on 10.03.2021. The sub-committee submitted inspection report to SEAC on 23.06.2021.

The sub-committee inspection report was placed in this 214th SEAC meeting held on 23.06.2021. The following details were observed during the site inspection.

1. The sub-committee visited the R&D area, Effluent treatment plant, Multiple Effect Evaporator and sewage treatment plant in the unit premises.
2. The unit is functioning as an R&D unit with scale up area and has obtained Consent from TNPCB for its R&D Activities and have not obtained Environmental clearance.
3. Project Proponent planning to convert their R& D facility into Intermediates for API manufacturing unit within the existing premises and the same needs to be clarified by the project proponent and shall submit revised proposal for the same if any change.
4. The unit having lab facility of maximum 100 litre vessel capacity (reactor)


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5. At the time of inspection STP of capacity 40 KLD and ETP of 60 KLD operating at the site
6. The flow measurement at both STP and ETP are of electronic flow meter in nature and at the time of inspection receiving flow of 10 KLD and 15 KLD respectively
7. In the STP, the aeration tank of 3m height with diffused air aeration system with recirculation sludge facility designed as extended ASP
8. The MLSS concentration in the aeration tank at the time of inspection around 2500 mg/l which needs to be build up to 3500-4000 mg/l to maintain F/M = 0.4 for effective functioning of ASP
9. The MLSS concentration in the ETP is also around 2300 mg/l needs to be build up to 3500-4000 mg/l for effective functioning of aeration system
10. The project Proponent to furnish all the reactions with stoichiometrically balanced showing molecular formula and structure clearly showing reactant and products details indicating mass balance.
11. The project proponent to furnish performance evaluation reports of STP and ETP for the last 6 months
12. The Project proponent to furnish details and the characteristics of raw influent and treated effluent for both STP and ETP along with flow measurement records for the last 6 months
13. The facilities available for checking of quality control of chemicals handled by the project proponent to be furnished
14. Details of solid and hazardous waste generated and their management to be furnished by project proponent
15. Distance between the Boiler and solvent storage tank around 750m and to relocate the solvent storage tank to possible maximum distance to avoid any risks in the future
16. Salt recovered from the MEE/ATFD shall be computed and to be furnished
17. Project proponent shall furnish Risk Assessment for 1.) In case of Hazardous 2.) In case of Fire accidents
18. Project proponent shall submit the Ground water clearance for its proposed project form the Competent Authority

19. Report on occupational risk assessment shall be furnished: Risk ranking of chemical used based on the toxicity and exposure assessment for the hazardous chemicals (TWA or STEL measurements based on the exposure situation);
20. Health surveillance plan (Industrial Hygiene assessments) and exposure assessment specific to API exposure to be furnished from an industrial hygiene laboratory
21. Ambient and workplace VOCs signatures and level to be furnished. Bulk sample analysis to be performed
22. Water analysis of API in open well and bore well to be furnished
23. Hydrocarbon analysis from DG stack to be furnished in addition to the routine parameters as per the CPCB standards
24. Height of DG stack to be in accordance to the regulation.

Based on the inspection report and the documents furnished by the Proponent, the SEAC decided to direct the proponent to furnish the following additional particulars.

1. Project Proponent planning to convert their R&D facility into intermediates for API manufacturing unit within the existing premises and the same needs to be clarified by the project proponent and shall submit revised Form-1 for the same if any change.
2. The project Proponent to furnish all the reactions with stoichiometrically balanced showing molecular formula and structure clearly showing reactant and products details indicating mass balance.
3. The project proponent to furnish performance evaluation reports of STP and ETP for the last 6 months.
4. Project proponent shall furnish Risk Assessment for 1.) In case of Hazardous 2.) In case of Fire accidents.
5. Report on occupational risk assessment shall be furnished: Risk ranking of chemical used based on the toxicity and exposure assessment for the hazardous chemicals (TWA or STEL measurements based on the exposure situation);
6. Health surveillance plan (Industrial Hygiene assessments) and exposure assessment specific to API exposure to be furnished from an industrial hygiene laboratory.


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Based on the receipt of the proponent's reply this proposal was again placed in 276th SEAC meeting held on 21.5.2022 and SEAC noted that the Aringar Anna Zoological Park, Vandaloor is located very near to the project site and hence the PP shall obtain NOC/opinion from the Director, Aringar Anna Zoological Park, Vandaloor. The EIA Coordinator shall also submit a detailed report on the Implications of setting up this unit on the Zoological Park. On receipt of these details SEAC will examine the proposal further.

The project proponent has submitted the details on 04.07.2022 to SEIAA.

Again, this proposal was placed in this 307th SEAC meeting held on 26.08.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to seek the certain additional details from the Proponent.

The query and the reply submitted by the PP is as follows.

Sl.No	Queries & Replies							
1.	The proponent shall submit, in a matrix form, details of raw materials used per batch/day /month and their conversion into the final product, by product and waste generated, etc. Further, the details of the process flow diagram including the quantity of various items, the effluents, air emissions, hazardous waste generated including the quantity and their characteristics, appropriate pollution control measures contemplated for controlling each category of pollution, and the pollutants getting discharged into the environment should be furnished.							
	For 1 Kg Output per Product-Typical of proposed four products							
	Name of the proposed products	Input Quantity In Kg/Batch	Recycle Quantity In Kg/batch	Liquid Effluent in Kg/batch	Solid waste quantity In Kg/batch	Emission Quantity In Kg/batch	Intermediate Kg/Batch	Final product in Kg
		Input	Output					
	Buspirone HCl Stage 1.62	35.12	11.46	21.53	0.00	0.13	1.00	1

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Obeticholic acid Stage 1, 2A & 2	76.70	2.95	69.45	1.58	0.05	1.68	1
Safinamide Mesylate Stage 1, 2A & 2	115.58	9.70	100.40	1.57	0.28	2.62	1
Diethyl Malonate Stage 1 & 2	6.83	0.52	1.92	2.36	0.08	0.94	1
Overall	234.2	24.6	193.3	5.5	0.5	6.2	4.0
	234.2	234.2					
Detailed mass balance along with process flow diagram including the quantity of various items, the effluents, air emissions, hazardous waste generated including the quantity and their Characteristics, appropriate pollution control measures contemplated for controlling each category of pollution and the pollutants getting discharge into the environment is detailed in Annexure-1							

2. The details furnished in wastewater generation are not matching with presentation and Form I submitted, which need to be rectified. Even after the upgradation, the total effluent and sewage generation were found to be within the consented quantity of TNPCB. This needs to be confirmed


Sewage Generation:

In form-1: 8.7 KLD

307th SEAC meeting- 10.5 KLD (requested)

Description	Existing	Proposed	After Expansion
Toilet	7.0	0.4	7.4
Canteen	3.0	0.1	3.1
Total			10.5


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Note: Existing Manpower 263 Number (Employees 191 Nos & Contractual Labours 72 Nos). Proposed Manpower 10 Numbers (Employees 6 Nos & Contractual Labours 4 Nos).

3. Historical data from the electronic flow meter of STP & ETP for the past 3 years shall be furnished.

For period of December 2019 to August 2022

Point	Max. (M ³)	Min. (M ³)	CTO (M ³)
STP Treated Water outlet	9.0 (28.07.2022)	6.5 (10.06.2022)	11
ETP inlet	9.8 (08.04.2022)	3.0 (26.04.2022)	13.5
RO Permeate	6.5 (14.02.2022)	2 (26.04.2022)	-

4. The existing effluent generation for the R & D facility with the maximum scale of operation 100 liters, generates effluent of 10 kLD. Now, it is proposed to upgrade the existing R & D facility into intermediates for API manufacturing unit to produce 0.2975 MTPM of products and proposed to generate 12.25 kLD (2.25 kLD only after upgradation) of effluent only. This may be justified with a flow diagram

Description	Existing (KLD)	Additional (KLD)	After Expansion(KLD)
Process Lab	7	1	8
Process Kilo Lab	1.5	0.75	2.25
Scrubber	0.5	0.5	1
Cooling Tower	1.0	0	1.0
	10	2.25	12.25

5)	<p>After the upgradation, it is reported that total effluent generation will be 12.25 kLD, which will be treated in the already provided primary & secondary treatment plant followed by RO (70 kLD) and MEE (24 kLD). The operation methodology of the RO and MEE shall be detailed with respect to the efficiency of working. Similarly, Sewage generation will be 9.5 kLD, which will be treated through 40 kLD STP already provided. A detail of the operational methodology of STP shall be furnished</p>
	<p>The operation flow diagram of the RO and MEE along with ZLD and Operational methodology of existing STP & ETP are attached</p>
6.	<p>The detail of disposal of waste/discarded products from the existing R&D products shall be furnished.</p>
	<p>Detail of waste/discarded products from the existing R&D Products along with disposal mechanism and latest Form-4 (2021-22) is attached</p> <p>As per existing HWA, we have authorization to disposal of 0.5 MT of Date expired products under category 28.5.</p> <p>Now we have applied to TNPCB for obtaining HWA renewal for disposal of 0.4 MT of off specification products under category 28.4 and disposal of 0.1 MT of Date of expired products under category 28.5 and the same is under process.</p>
7.	<p>The project proponent shall have dependable water source instead of relying on groundwater.</p> <p>Request letter submitted to local Panchayat body for the supply of fresh water to the project site and it is under process. Acknowledged by Panchayat president (Ms.Gowthami) of Melakottaiyur and the copy of the same is attached</p>
8.	<p>Details of the discarded products in the upgradation facility shall be included in hazardous waste details. Methodology for handling the process waste, storage, and disposal shall be furnished.</p>
	<p>Methodology for handling the process waste, storage, and disposal details are furnished</p> <p>Details of discarded products in the up gradation facility will be Included in hazardous waste details as category 28.4 off specification products after obtaining Environmental Clearance</p>


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As per existing HWA, we have authorization to disposal of 0.5 MT of Date expired products under category 28.5.

Now we have applied to TNPCB for obtaining HWA renewal for disposal of 0.4 MT of off specification products under category 28.4 and disposal of 0.1 MT of Date of expired products under category 28.5 and the same is under process.

Subsequently, it was placed in 552nd SEIAA meeting held on 20.9.2022 and the query raised by the SEIAA and the PP reply is as follows

SEIAA query	Reply furnished
1 Details of the micro contamination in process & control measures shall be furnished. Details of Microorganism utilized	Not Applicable since the proposed R&D Products are Active Pharmaceuticals Intermediates (API). So micro contamination cannot be controlled in this intermediate stage which can be done by end users at final stage and also there will be no utilization of Microorganism on this intermediate stage (Chemical Synthesis).
2 Details of sterile and non-sterile products to be derived	The proposed products Buspirone HCL Stage 1 & 2, Obeticholic Acid Stage 1, 2A & 2, Diethyl Malonate Stage 1 & 2 and Saffinamide Stage 1, 2A & 2 are coming under non sterile category. There are no sterile products envisaged in both existing & proposed.

3 What is the anticipated temperature raise due to VOC, CO₂, H₂S, odour etc? CO₂ mitigation measures shall be furnished

S.No	Source	Fuel used	Stack Details					
			No of Stack	Height (m)	Dia (m)	Temp (°C)	VOC	Remarks
1	Boller(0.85 TPH)	Fuel oil	1	18.5	0.18	104.85	-	Within 3.5 meter radius it

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								will reach to ambient temperature
2	DC(725 KVA)	Diesel	1	12.5	0.3	195.85	-	Within 6-8 meter radius it will reach to ambient temperature
3	Walk In Fume Cupboard -1 no (Stores)	-	1	12.5	0.38	38.5	0.23	Ambient Temperature
4	Add Storage Room (Stores)	-	1	12.5	0.28	39.85	0.24	Ambient Temperature
5	Organic Lab-12 Fume Hood	-	1	12.5	0.47	38	0.26	Ambient Temperature
6	Reactors - 4 Nos (Scale up Lab)	-	1	12.5	0.86	39.85	0.28	Ambient Temperature
Total(g/s)							1.01	


Mitigation Measures

Further reduction of Environmental impact in the product manufacturing will be achieved by adopting the following mitigation measures.

Renewable Power – utilization of renewable energy sources such as wind and solar energy will be increased in future and this will reduce the environmental impact.

Raw Material Sourcing – the raw material procuring will be explored from the nearby sources rather than transporting from very long distances


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Green Belt - Providing more green is an important factor to reduce carbon release from the Industry. Green belt expansion will be considered as an environmental factor for development.

Energy Optimization – installing energy efficient equipment and adopting energy efficient process in the product manufacturing process will reduce the environmental impacts

Transportation – latest emission ratings of vehicles for transport. Regular maintenance of transporting vehicles & this will be ensured by the proponent from transporter. Ensuring proper maintenance of emission standards guideline given by Government of India. Regular maintenance of all the vehicles used for material transportation.

Research & Development - research work can be carrying out to reduce or replace the raw material which is causing maximum environmental impact and replacing with the raw materials which produce lesser environmental impact.

4 Details of Water, soil & Air quality standards, and monitoring measures shall be furnished.

5. No	Area of Monitoring	Number of Sampling Stations	Frequency of Sampling	Parameters to be Analyzed
1.	Micro Meteorology	One	Hourly and Daily basis.	Wind speed and direction, Temperature, Relative Humidity, Atmospheric pressure, Rainfall.
2.	Ambient Air Quality	2 Stations (one in up wind and one in downwind)	Twice a week:24 hourly period	All the 12 parameters as per NAAQ Standards. VOC and Hydrocarbons
3.	Noise	2 (one within plant premises and one outside plant premises)	Once a month	Ambient Equivalent continuous Sound Pressure Levels (Leq) at day and Night time.
4.	Water	One surface and ground water	Once a month	All the parameters as per IS 10500:2012

		sample near the site		
5.	Soil	2 (one within plant premises and one outside plant premises)	Once in six months	Physicochemical properties, Nutrients and Heavy metals
6.	Liquid Effluents	Effluent inlet and outlet	Weekly	pH, Temp, Conductivity, Oil and Grease, TSS, TDS, BOD.
		STP inlet and outlet	Monthly	pH, TSS, BOD & COD
7.	Exhaust from boilers & DG set & TFH	Stack of boilers & DG set & TFH	Monthly	PM, SO ₂ , NO _x & CO
8.	Vehicular Emissions	Parking area	Periodic monitoring of vehicles	Air emission and noise. PCU
9.	Solid waste / Hazardous waste	Solid and hazardous waste storage area	Once a week	Quantity

5 Anticipated land use change and mitigation measures shall be furnished.

There is no change in land use since the proposed up gradation project will be coming within the existing R&D facility.

6 Anticipated threads on the wetland surrounding the project site

Nearest wetland - Pallikaranai Marshland is located 12.40 km, North East direction from the project site.

7 Details of change if any from the groundwater on the general core parameters from the operation of the R&D shall be furnished and anticipated change if any may be modelled.


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Parameter	2017	2018	2019	2020	2021
pH	8.17	7.82	7.63	8.05	7.95
TDS, mg/l	907	752	857	675	826

8	Detail of the Aseptic processing environment shall be furnished
	As the proposed R&D up gradation for intermediate production hence no requirement for aseptic processing environment.
9	Detail on safety hygienic management shall be furnished
	Safety hygienic assessment study was conducted for the proposed project and same is attached. Latest Health check-up for employees are attached
10	Sanitation and cleaning-maintained protocol shall be furnished.
	Sanitation and cleaning-maintained protocol is attached
11	Warning system and pathogen detection measures shall be furnished.
	Not applicable, Since proposed up gradation and R&D facility fall under non sterile category.
12	Fire safety standards shall be furnished
	The facility is equipped with fire hydrant system comprising of jockey pump, main electric driven pump & engine driven pump, smoke detectors & fire alarm system, public address system for emergency communication, CCTV cameras at strategic location. List of fire safety equipment along with latest Fire license and SOP is attached Project site have a PESO License for the storage of 54.00 KL Petroleum product (Class A) and 17.5 KL Class C product above ground Tank. PESO license is attached

With the above remarks it was again placed in 366th SEAC meeting held 30.03.2023. Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC & SEIAA and the replies given by the PP, decided

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to recommend the proposal for the grant of Environmental Clearance subject to the following specific conditions, in addition to normal conditions stipulated by MOEF &CC:

1. The project proponent shall provide the Green belt area not less than 34.6% of the total land.
2. The project proponent shall provide STP of capacity 40 KLD and treated sewage shall be utilized for green belt after meet out the discharge standards prescribed by the CPCB/TNPCB.
3. The project proponent shall provide ETP of capacity 4 KLD with ZLD system (MEE).
4. The proponent shall provide, operate and maintain adequate Air-pollution control measures for the process area.
5. The proponent shall provide and maintain continuous monitors within and around the premises and ensure that VOC levels are within permissible limits.
6. The proponent shall obtain and maintain valid safety licenses at any time for boiler/Thermic fluid heater, solvent/fuel/raw material/products storage areas etc from the concerned departments before obtaining CTO from TNPCB.
7. All the recommended preventive and safety measures by the concerned authority for the dedicated solvent/fuel/raw material/products storage areas & boiler/Thermic fluid heater shall be completed before obtaining CTO from TNPCB.
8. All the solvent/fuel/raw material/products shall be stored within the permitted storage quantity at any time.
9. The proponent shall strictly follow the norms and guidelines mentioned in the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended for the handling and disposal of Hazardous waste to be generated.
10. The proponent shall periodically conduct and submit fire safety study, emergency evacuation plan, risk assessment study, occupational health safety study for the worst case scenario in regard to existing safety measures/standard operating procedures adopted for the process/ equipment/utilities for operation & maintenance and the storage areas of products, raw materials,


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solvent, fuel, etc. in the different operating zones of the plant at least once in a year to regularly identify safety fragile areas within the plant which requires regular monitoring and the proponent shall submit the same along with timeline for Implementation of the said recommendations to the concerned departments.

11. A detail report on the safety measure and health aspects including periodical audiometry, pulmonary lung function etc. test reports once in a year for all the workers shall be submitted to TNPCB.
12. As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health Centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
13. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall adhere the EMP as committed.
14. The proponent shall install solar panels 100% roof top area excluding air & light vent.
15. As accepted by the Project Proponent the CER cost is Rs. 0.8 lakhs and the amount shall be spent for avenue plantation in nearby villages before obtaining CTO from TNPCB

**Agenda No. 366-02
(File No. 8162/2020)**

Proposed Gravel quarry lease over an extent of 3.93.5 Ha at S.F.No.2432/1B2, 242/1C & 242/1D, Kurungulam (west) Village, Thanjavur Taluk, Thanjavur District, Tamil Nadu by Thiru.G.Pasupathi for Environmental Clearance. (SIA/TN/MIN/187781/2020, Dt.01.12.2020)

Earlier, this proposal was placed in this 313th Meeting of SEAC held on 30.09.2022 & 337th SEAC meeting held on 13.12.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, Thiru.G.Pasupathi has applied for Environmental Clearance for the proposed Gravel quarry lease over an extent of 3.93.5 Ha at S.F.No.2432/1B2, 242/1C & 242/1D, Kurungulam (west) Village, Thanjavur

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Taluk. Thanjavur District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

During the meeting, the PP has requested the Committee for additional time to produce the details as sought by the Committee including the soil test certificate, hence SEAC decided to defer the proposal

The PP has furnished the details of soil analysis and details of proximity distance of nearest RF. Based on that this proposal has again been placed in 365th SEAC meeting held on 30.3.2023 and SEAC noted the following.

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru. G. Pasupathi, S/o. Ganapathi, No.76K, 2 nd Street, Arulanandha Nagar, Thanjavur District - 613 007.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Gravel
3	S.F No. of the quarry site with area break-up	242/1B2, 242/1C & 242/1D(P)
4	Village in which situated	Kurungulam (West)
5	Taluk in which situated	Thanjavur
6	District in which situated	Thanjavur
7	Extent of quarry (in ha.)	3.93.5 Ha
8	Period of quarrying proposed	3 Years
9	Type of mining	Opencast Mechanized Mining
10	Production (Quantity in m ³)	61.192 m ³ of Gravel
11	Latitude & Longitude of all corners of the quarry site	10°38'41.96"N to 10°38'49.70"N 79°04'34.15"E to 79°04'44.76"E
12	Topo Sheet No.	58-N/2
13	Man Power requirement per day:	7 Nos


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14	Precise area communication approved by Assistant Director, Department of Geology and Mining with date	: RC.No.846/Mines/2020, dated: 01.12.2020
15	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: RC.No.846/Mines/2020, dated: 07.12.2020
16	Water requirement: 1. Drinking water & domestic purposes (in KLD) 2. Dust Suppression (In KLD) 3. Green Belt (in KLD)	: 4.0 KLD 1.5 KLD 1.5 KLD 1.0 KLD
17	Power requirement a. Domestic Purpose b. Industrial Purpose	: TNEB 10200 Liters of HSD
18	Depth of quarrying	: 2m bgl
19	Depth of water table	: 45m bgl
20	Whether any habitation within 300m distance	: No
21	Project Cost (excluding EMP cost)	: Rs. 14,00,000/-
22	EMP cost	: Rs. 33.86 lakhs
23	CER cost	: Rs. 3,00,000/-
24	Assistant Director, mines 500m cluster letter	: RC.No.846/Mines/2020, dated: 10.02.2021
25	VAO certificate regarding 300m radius cluster	: Letter furnished

Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC and the replies given by the PP. SEAC decided to recommend the proposal for the grant of Environmental Clearance for the total production quantity of 61,192m³ of gravel and the ultimate depth of not exceeding 2m BGL for the period of 3 Years subject to the standard conditions & normal


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conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The proponent shall mandatorily appoint the statutory competent persons accordingly for the proposed quarry size to satisfy the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
4. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
5. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals.
6. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly.
7. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.


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8. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics.
9. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
10. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
11. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
12. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
13. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.

15. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
16. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
17. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
18. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
19. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
20. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
21. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.


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22. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under.
23. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
24. 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 their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
25. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
26. As accepted by the Project proponent the CER cost is Rs. 3 Lakhs and the amount shall be spent for the Panchayat Union Primary School, Thangappaudayanpatti Village as committed, before obtaining CTO from TNPCB.

Agenda No: 366-3

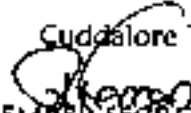
(File No: 8652/2021)

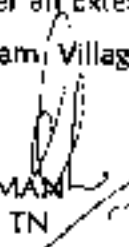
Proposed gravel laterite& Pebble Quarry lease over an Extent of 2.25.0Ha in S.F.Nos. 261/4(p), 262/3B & 262/4 C N palayam Village, Cuddalore Taluk, Cuddalore District, Tamil Nadu by Tmt P Indhumathi – For Environmental Clearance. (SIA/TN/MIN/221237)

Earlier, this proposal was placed in this 338th meeting of SEAC held on 14.12.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Tmt P Indhumathi has applied seeking Environmental Clearance for the Proposed gravel laterite& Pebble Quarry lease over an Extent of 2.25.0Ha in S.F.Nos. 261/4(p), 262/3B & 262/4 C N palayam Village, Cuddalore Taluk, Cuddalore District, Tamil Nadu.



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2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation and document furnished by the project proponent, SEAC decided to ask for the following additional details from the Project Proponent and its reply is as follows

Sl.No		SEAC queries and PP's replies			
1.		The project proponent shall enumerate the Trees, Age of trees & its yield details.			
S.No	Name of the Tree	Location and Number of Trees		Age	Yield (Per year)
		Core Zone	Buffer Zone		
1	Cashew Tree	60	10	2-4 Years	5 kg
2	Cashew Tree	65	15	6-8 Years	7 kg
3	Neem Tree	0	10	> 10 Years	Approx. - 40 to 50 Kgs
Total 160 trees are present inside the lease area.					
2.		Irrigation potential of surrounding areas.		<p>Generally, for agricultural purpose maximum amount of available water resources are utilized through minor irrigation schemes. The surface flow in the rivers can be observed only during monsoon periods. The deficient monsoon rainfall has effected the flow of surface water into reservoirs, anicuts, lakes etc. Hence under these circumstances the agriculturists have to totally depend upon an alternative source</p>	



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		<p>i.e., Ground Water to meet their irrigation requirement</p> <ul style="list-style-type: none"> Hydrogeological study has been carried out in and around the project area and it is inferred that on a regional trend, a area is hornblende biotite gneiss are intruded by Pegmatite and Granite terrain and the water table in the area (Fractured and Fissured zone) is below 35m to 40m. There are no water bodies within the 500m radius. The mining operation is proposed to carried out up to the depth of 7m (5m agl + 2m bgl).
3.	Details of ground water table in the vicinity of the project site.	Hydrogeological Study has been conducted by Govt Approved Hydrogeologist. it is inferred from the report that the shallow aquifer is expected about 35m to 40m bgl and the productive aquifers are expected between 15-20m depth. The ultimate pit limit of the mining is 7m (5m agl + 2m bgl) which will have no impact on the ground water.
4.	DFO letter stating the proximity distance of nearest RF. WLS located within 25 Km radius from the project site	Hydrogeological Study has been conducted by Govt Approved Hydrogeologist. it is inferred from the report that the shallow aquifer is expected about 35m to 40m bgl and the productive aquifers are expected between 15-20m depth. The ultimate pit limit of the mining is 7m (5m agl + 2m bgl) which will have no impact on the ground water.


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The proposal was again placed in 366th SEAC meeting held on 30.3.2023.

Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC. The proposal involves cutting of several trees as noted above, resulting in ecological degradation and loss of top soil. SEAC, therefore, decided not to recommend the proposal for grant of Environmental Clearance.

Agenda No. 366-04.

(File No. 9436/2022)

Proposed Rough stone & Gravel Quarry over an extent of 3.42.7 at SF.No. 455/1(P), 455/2(P) & 456/1B(P) Kasthuriengapuram Part-I Village, Tisayanvilai Taluk, Tirunelveli District, Tamil Nadu by Thiru. J. Dinesh Kumar for Environmental Clearance.(SIA/TN/MUN/284059/2022)

Earlier, this proposal was placed for appraisal in this 333rd meeting of SEAC held on 01.12.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. J. Dinesh Kumar has applied for Environmental Clearance for the proposed Rough stone & Gravel Quarry over an extent of 3.42.7 at SF.No. 455/1(P), 455/2(P) & 456/1B(P) Kasthuriengapuram Part-I Village, Tisayanvilai Taluk, Tirunelveli District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item I(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Sl. No	Details of the Proposal	
1	Name of the Owner/Firm	: Thiru. J. Dinesh Kumar, S/o. R. Jayamoorthi, No. 12, Vinayaga Road, Kammanahalli Main Road, Bangalore North, Karnataka State - 560 084.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone and Gravel
3	S.F No. of the quarry site with area break-up	: 455/1(P), 455/2(P) & 456/1B(P)
4	Village in which situated	: Kasthuriengapuram Part-I
5	Taluk in which situated	: Tisayanvilai
6	District in which situated	: Tirunelveli

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7	Extent of quarry (in ha.)	: 3.42.7 Ha
8	Period of quarrying proposed	: 5 years
9	Type of mining	: Opencast Mechanized Mining
10	Production (Quantity in m ³)	: 6,42,356 m ³ of Rough Stone and 56,398 m ³ of Gravel
11	Latitude & Longitude of all corners of the quarry site	: 08°17'45.27"N to 08°17'51.70"N 77°44'07.10"E to 77°44'15.31"E
12	Topo Sheet No.	: 58 H/1
13	Man Power requirement per day:	: 56 Nos
14	Precise area communication approved by Assistant Director, Department of Geology and Mining with date	: Rc.No.M2/1791/2022 dated 11.05.2022
15	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Rc.No.M2/1791/2022 dated 14.05.2022
16	Water requirement: 4. Drinking & domestic purposes (in KLD) 5. Dust suppression (in KLD) 6. Green Belt (in KLD)	: 2.2 KLD 0.7 KLD 0.8 KLD 0.7 KLD
17	Power requirement c. Domestic Purpose d. Industrial Purpose	: TNEB 523288 Litres of HSD
18	Depth of quarrying	: 40m bgl (2m Gravel + 38m Rough Stone)
19	Depth of water table	: 62m in summer season and 58m in rainy season
20	Whether any habitation within 300m distance	: No
21	Project Cost (excluding EMP cost)	: Rs. 1,03,84,000/-
22	EMP cost	: Rs. 3,80,000/-
23	CER cost	: Rs. 5,00,000/-
24	Assistant Director, mines 500m cluster letter	: Rc.No.M2/1791/2022 dated 14.05.2022
25	VAO certificate regarding 300m radius cluster	: Letter Furnished

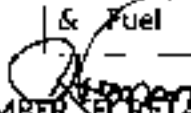
Based on the presentation and documents furnished by the project proponent, SEAC decided to call for certain additional particulars as follows.

1. The PP shall enumerate the permanent structures - which may belong to the PP or not - situated within 100m, 200m & 300m radius of the proposed mining area.
2. The PP shall furnish a report on the scientific studies carried out for the 'Cumulative impact of blast-induced ground/air vibrations, fly rock and dust caused due to the


proposed Quarrying operations on the Surrounding Structures including Wind Mills, Habitations and Water bodies located within 300 m from the quarry lease', from any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Rock Mechanics (NIRM)-Bangaluru, IIT (ISM)-Dhanbad, NIT-Dept of Mining Engg. Surathkal.

Now, the PP has furnished the replies as follows.

Sl.No	SEAC query	Reply		
1	The PP shall enumerate the permanent structures - which may belongs to the PP or not - situated within 100m, 200m & 300m radius of the proposed mining area.	Distance from Project site	Structure Belonging to Owner	Structure not Belonging to Owner
		0-100 m	1	1 - Wind Mill (95m - 95)
		100-200 m	1	1 - Allocated poultry Shed (130m - 170)
		200- 300 m	1	1 - Wind Mill (260m - 30)
2	The PP shall furnish a report on the scientific studies carried out for the 'Cumulative impact of blast-induced ground/air vibrations, fly rock and dust caused due to the proposed Quarrying operations on the Surrounding Structures including Wind Mills, Habitations and Water bodies located within 300 m from the quarry lease', from any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) /	The scientific study has been conducted in the project site by the NIT - Surathkal. The Cost implications for carrying out the said studies are considered into the EMP and necessary budget provisions are allocated and the revised EMP is enclosed		


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Dhanbad, National Institute of Rock Mechanics (NIRM)- Bangaluru, IIT (ISM)-Dhanbad, NIT-Dept of Mining Engg. Surathkal.	
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The proposal was again placed in 366th SEAC meeting held on 30.3.2023. Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC and it has been observed that there are a few structures including a windmills and a Poultry farm structure are located at a distance of 100 m and 120m from lease area which attracts the provisions of Rule 36 (I-A) (a) of the Tamil Nadu Minor Mineral Concession Rules, 1959 states

"No lease shall be granted for quarrying stone within 300 meters (three hundred meters) from any inhabited site....."

Therefore SEAC decided not to recommend the proposal for grant of Environmental Clearance.

Agenda No: 366-05

(File No: 9690/2021)

Proposed Rough stone & gravel quarry lease over an extent of 2.16.50 Ha (Patta Land) in S.F.Nos. 12/2A, 12/2B, 12/3A, 12/3B, 12/3C and 12/3D of Pazhaveri Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu by Thiru R. Vinodhharayanan- For Environmental Clearance (SI/TN/MIN/412239/2022 Dt. 9.2.2023)

Earlier, this proposal was placed in the 277th meeting of SEAC held on 26.05.2022.

The project proponent presented the details of the proposed quarry. The details of the proposed quarry furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted of the following:

1. The Project Proponent, Thiru R. Vinodhharayanan has applied for Environmental Clearance the proposed Rough Stone & Gravel quarry lease over an extent of 2.16.50 Ha In S.F.Nos. 12/2A, 12/2B, 12/3A, 12/3B, 12/3C and 12/3D of Pazhaveri Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu


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2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is 5 years and the mining plan for the period of five years should not exceed 3,66,762 cu.m. of Rough Stone and 34,188 cu.m. of gravel. The Annual peak production 91100 cu.m. of Rough Stone (5th year) and 34,188 cu.m. of gravel (1st year) . The ultimate depth of mining would be 50 metres below GL.

Based on the presentation and documents furnished by the project proponent, SEAC noted that in G.O(MS) No. 295 dated 03.11.2021 the Government in Industries Department has notified the following Rules specifying certain conditions for permitting mining activities near ecologically sensitive areas.

" ... No quarrying or mining or crushing activities shall be carried out within one kilometer radial distance or the protective distance as notified by the Ministry of Environment, Forest and Climate Change, Government of India from time to time, whichever is more, from the boundaries of ecologically sensitive areas, environmentally and ecologically sensitive protected areas such as the National parks, Wild life Sanctuaries, Tiger Reserves, Elephant corridors and Reserve Forests".

The Committee noted that the Vedanthangal Bird Sanctuary is at 9.6 km & Kavanipakkam RF is located within a distance of 1 km from this project site and the proposal is, therefore, hit by the above G.O. The Committee, therefore, decided not to recommend the proposal.

Subsequently, the above rule has been amended vide GO No. 243 Industries, Investment Promotion and Commerce (MMC,1) Department, dated 14.12.2022, as below.

"In the said rules, In rule 36, In Sub-rule (1-A), In Clause(e) for the expression "the National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors and Reserve Forests", the expression "National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors" shall be substituted".


Consequently, the proponent has re-presented/reapplied the proposal to reconsider the earlier decision based on the above G.O.

Based on the above said G.O. the Proponent has resubmitted the same proposal on 9.02.2023 with all necessary supporting documents in order to obtain Environmental Clearance.


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The proposal was again placed in the 354th Meeting of SEAC held on 10.02.2023. The SEAC noted that

Descripti on	Old File -1	Old File-2	New File
File No	7643	8891	9690
Online Proposal No for EC	SIA/TN/MIN/163623/ 2021 Dated 15.7.2020	SIA/TN/MIN/245237/ 2021 Dated 16.12.2021	SIA/TN/MIN/412239/ 2022 Dt. 9.2.2023


Based on the presentation & documents furnished by the PP, the SEAC noted that the PP and the EIA Coordinator have not disclosed the complete history of this case with particular reference to the earlier file no. 7643 and the decision taken by SEIAA in that case and decided to call for the explanation of the PP and the EIA Coordinator for this serious lapse.

Based on the joint explanation received from EIA Coordinator & the PP it was again placed in 366th SEAC meeting held on 30.3.2023 and SEAC noted that the proposed site was already Inspected by the subcommittee & the Subcommittee observation is as follows.

1. Rough Stone & Gravel Quarry at S.F.No.1212A, 12/28, 12/3A, 12/38, 12/3C & 12/3D in Pazhaveri Village, Uthiramerur Taluk, Kancheepuram District.
2. The site is located almost on the verge of Kavanipakkam Eri on the foreshore.
3. There are paddy fields very close to the Project.
4. There is surplus course existing at the Pazhaveri Eri on the southern side of the site approximately 100 m away from the project site.
5. The committee also observed that area surrounding the site is used as grazinglands for Cows/Goats.
6. The Proponent has informed that they are planning to go for 50m ultimate depth of Rough stone & Gravel Quarry.
7. Migrating birds like Grey pelican, Garganey teal, Open billed stork, Painted stork, little egret, Dabchick, Black winged stilt were seen in the Kavanipakkam lake.
8. Kavanipakkam Reserve forest is located on the southern side of proposed lease area at a distance of approximately 50 m from the site area.


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Based on the above remarks, the 204th SEAC meeting held on 25.2.2021 has observed that the proposed site is not found suitable for quarrying operations due to environmental concerns and therefore the SEAC decided not to recommend the proposal which was also accepted by SEIAA. In view of the above decision which was taken already in the aforesaid 204th SEAC meeting, the SEAC decided that the applications filed by the PP subsequently for the same proposal needed no consideration.

Agenda No: 366 - 06.

(File No:6392/2017)

Existing lime Stone quarry (Azur Lime stone Mine) over an extent of 4.925 Ha falling in SF Nos. 209/3A, 3B, 3C, 5, 6, 7B, 8, 9, 10A, 10B, 11, 12, 13A, 13B, 14, 17, 18, 210/3, 4, 6, 7A, 7B & 9 (p) of Azur Village, Kunnam Taluk, Perambalur District, Tamil Nadu by M/s. Chettinad Cement Corporation Limited (CCCL) - for Environmental Clearance "Under Violation". (SIA/TN/MIN/64181/2017Dt:24.04.2017).

Earlier, the proposal was placed in 341st SEAC meeting held on 29.12.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, M/s. Chettinad Cement Corporation Limited (CCCL) has applied for Environmental Clearance under Violation for the Existing lime Stone quarry (Azur Lime stone Mine) over an extent of 4.925 Ha falling in SF Nos. 209/3A, 3B, 3C, 5, 6, 7B, 8, 9, 10A, 10B, 11, 12, 13A, 13B, 14, 17, 18, 210/3, 4, 6, 7A, 7B & 9 (p) of Azur Village, Kunnam Taluk, Perambalur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B" - "Under Violation" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Precise Area Communication has been accorded by the State Government vide Letter 3456/MM1/2011 dated 19.03.2012.
4. Mining Lease (ML) has been granted vide Rc. No. 3456/MM1/2011 dated 05.02.2013 for 20 Years.
5. As per Amended MMDR Act 2015, the validity of the Lease is 50 years i.e. upto 13.08.2063.


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6. The Mining Plan has been approved by the Regional Controller of Mines, IBM, Chennai vide Letter No. TN/PBR/MP/LST/1813-MDS dated 28/30.08.2012.
7. The Modified Mining Plan was accorded by the Regional Controller of Mines, IBM, Chennai vide Letter No. TN/PBR/MP/LST/1917-MDS dated 24/27.01.2014.
8. The Modified Mining Plan was accorded by the Regional Controller of Mines, IBM, Chennai vide its Letter TN/PBR/MP/LST-199-MDS dated 15.11.2016.
9. The mining plan is for the period of 3 years (Life of Mine remaining) & production should not exceed 1,50,000 Tonnes/annum of RoM @ 500 Tonnes per day. The ultimate depth is 20m BGL.
10. MoEF&CC notification Dt: 15.01.2016.
11. MoEF&CC notification vide S.O. 804 (E) Dt. 14.3.2017.
12. MoEF & CC Notification S.O.1030 (E) dated 08.03.2018.
13. MoEF&CC Office Memorandum No. F.No. Z-11013/22/2017-1A.11 (M) dated 15.03.2018.
14. MoEF & CC OM F. No. 22-10/2019-1A.111 dated 09.09.2019.
15. Hon'ble NCT(\$Z) order dated 30.06.2020 in O.A.No.136 of 2017.
16. MoEF&CC, Office Memorandum Dt:12.11.2020.

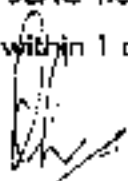
During the meeting the Committee noted that the project proponent is absent during the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

Further, based on the Project Proponent Ir.CCCPL/KRP-SEN/EC-02 Dt:28.12.2022 has informed that they have decided not to pursue further on process of obtaining EC and requested SEIAA to dispose of their application seeking EC. In view of the above, SEAC noted that the PP has informed that the last transport permit was issued Dt: 13.07.2015. Hence, the PP shall furnish documentary evidences in the forthcoming SEAC meeting so as to consider their request for withdrawal of said proposal seeking EC.

Subsequently, the subject was placed in 586th Authority meeting held on 25.01.2023 & 27.01.2023. The Authority after detailed discussions decided to request Member Secretary, SEIAA to communicate the minutes of 341th meeting of SEAC held on 29.12.2022. The proponent shall submit the details sought by SEAC within 1 month from the date of this meeting.


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The proposal was again placed for appraisal in 366th meeting of SEAC held on 30.03.2023. During committee meeting the PP has requested the committee to not to process their application seeking EC vide proposal no. 64181/2017 Dt:24.04.2017 and submitted the copy of last transport permit Dt:13.07.2015 and Final Mine Closure Plan (FMCP) Dt: 29.03.2023 from Regional Controller of Mines, Indian Bureau of Mines, Ministry of Mines, COI in regard to queries raised by 341st SEAC meeting held on 29.12.2022.

Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC and the replies given by the PP, SEAC decided to accept the project proponent's contention that no violation was involved in this case and therefore, SEIAA may accept the request of PP to withdraw his application seeking EC vide online proposal no. 64181/2017 Dt 24.04.2017.

Agenda No: 366 - 07.

(File No:6406/2018)

Existing lime Stone quarry (Olaipadi Lime stone Mine) over an extent of 4.980 Ha falling in SF Nos. 211/1, 2, 4A, 4B, 212/1, 213/1, 2B & 4 of Olaipadi West Village, Kunnam Taluk, Perambalur District, Tamil Nadu by M/s. Chettinad Cement Corporation Limited (CCCL) - for Terms of Reference "Under Violation".

(SIA/TN/MIN/65023/2017 Dt: 29.05.2017 & SIA/TN/MIN/25037/2018 Dt:13.04.2018).


Earlier, the proposal was placed in 342nd SEAC meeting held on 30.12.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, M/s. Chettinad Cement Corporation Limited (CCCL) has applied for Terms of Reference under Violation for the Existing Lime Stone quarry (Olaipadi Lime stone Mine) over an extent of 4.980 Ha falling in SF Nos. 211/1, 2, 4A, 4B, 212/1, 213/1, 2B & 4 of Olaipadi West Village, Kunnam Taluk, Perambalur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B" - "Under Violation" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.


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3. Precise Area Communication has been accorded by the State Government vide Letter 3542/MMI/2009 dated 14.08.2009.
4. Mining Lease (ML) has been granted vide Rc. No. 3542/MMI/2009 dated 24.12.2009 for 20 Years. The Lease Deed was executed on 02.03.2010 and the Lease Period is from 08.04.2010 to 07.04.2030.
5. As per Amended MMDR Act 2015, the validity of the Lease is 50 years i.e. upto 07.04.2060.
6. The Mining Plan has been approved by the Regional Controller of Mines, IBM, Chennai vide Letter No. TN/PBR/MP/Lst& marl-1755-SZ dated 26.10.2009 (2010 -2015).
7. The Modified Mining Plan was accorded by the Regional Controller of Mines, IBM, Chennai vide Letter No. TN/PBR/MP/Lst& Marl-1755/SZ dated 13.08.2012 (2012 -2015).
8. The scheme of Mining Plan was accorded by the Regional Controller of Mines, IBM, Chennai vide its Letter No. TN/PBR/LST/MS-1207.MDS dated 13.05.2015 (2015 -2020).
9. The Modified scheme of Mining Plan was accorded by the Regional Controller of Mines, IBM, Chennai vide Letter No. TN/PBR/MP/LST-1997.MDS dated 15.11.2016 (2016 -2020).
10. The mining plan is for the period of 5 years (remaining Life of Mine) & production should not exceed 1,50,000 Tonnes/annum of RoM @ 500 Tonnes per day. The ultimate depth is 24m BGL.
11. MoEF&CC notification Dt: 15.01.2016.
12. MoEF&CC notification vide S.O. 804 (E) Dt. 14.3.2017.
13. MoEF& CC Notification S.O.1030 (E) dated 08.03.2018.
14. MoEF&CC Office Memorandum No. F.No. Z-11013/22/2017-IA.II (M) dated 15.03.2018.
15. MoEF&CC OM F. No. 22-10/2019-IA.III dated 09.09.2019.
16. Hon'ble NGT(SZ) order dated 30.06.2020 in O.A.No.136 of 2017.
17. MoEF&CC, Office Memorandum Dt:12.11.2020.


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During the meeting the Committee noted that the project proponent is absent during the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

Further, the Project Proponent vide Ir. CCCPL /OLP-KUN/EC-02 Dt:28.12.2022 has informed that they have decided not to pursue further on process of obtaining EC and requested SEIAA to dispose of their application seeking EC. In view of the above, SEAC noted that the PP has informed that the last transport permit was issued Dt: 18.01.2016. Hence, the PP shall furnish documentary evidences so as to consider their request for withdrawal of said proposal seeking EC.

Subsequently, the proposal was placed in the 587th Authority meeting held on 30.01.2023 & 31.01.2023. The authority after detailed discussions decided to request Member Secretary, SEIAA to communicate the minutes of 342nd meeting of SEAC held on 30.12.2022. The proponent shall submit the details sought by SEAC within 1 month from the date of this meeting.

The proposal was again placed for appraisal in 366th meeting of SEAC held on 30.03.2023. During committee meeting the PP has requested the committee to not to process their application seeking EC vide proposal no. 25037/2018 Dt: 13.04.2018 and submitted the copy of last transport permit Dt:18.01.2016 In regard to queries raised by 342nd meeting of SEAC held on 30.12.2022. Further, the PP has submitted copy of approval of review of mining plan with Progressive Mine Closure Plan (PMCP) Dt: 22/23.06.2021 from Regional Controller of Mines, Indian Bureau of Mines, Ministry of Mines, GOI

Based on the presentation & documents furnished by PP, the SEAC noted that the last transport permit was issued for the period 18.01.2016 to 01.02.2016.

In view of the MoEF&CC Notification S.O. 141(E) Dt 15.01.2016, the SEAC has decided to grant of Terms of Reference (TOR) under Violation category, subject to the following TORs, in addition to the standard terms of reference for EIA study with the exemption of Public Hearing for non-coal mining projects as per MoEF & CC OM F.No. 22-4/2020-IA.III, dated. 16.02.2021 and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community


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resource augmentation plan and it shall be prepared as an independent chapter by the consultants accredited by the QCI and NABET as per the MoEF OM dated 2nd December, 2009.

1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.
2. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
3. Copy of valid mining lease approval obtained from the competent Authority.
4. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
5. Copy of request letter submitted for renewal of mining plan.
6. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
7. Copy of total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.
8. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
9. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.

10. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.
11. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
12. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
13. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
14. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
15. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines.
 1. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 2. Quantity of minerals mined out.
 3. Highest production achieved in any one year
 4. Detail of approved depth of mining.
 5. Actual depth of the mining achieved earlier.
 6. Name of the person already mined in that leases area.
 7. If EC and CTO already obtained, the copy of the same shall be submitted.


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8. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
16. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
17. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,
18. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
19. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
20. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically In order to ensure safety and to protect the environment.
21. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data. It may clearly be shown whether working will intersect groundwater. Necessary data and documentation In this regard may be provided.

22. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
23. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
24. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
25. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
26. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
27. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
29. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.


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30. Impact on local transport infrastructure due to the Project should be indicated.
31. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.) both within the mining lease appted area & 300m buffer zone and its management during mining activity.
32. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
33. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
34. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
35. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
36. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
37. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-1 in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.



38. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
39. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
40. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
41. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
42. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
43. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
44. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.


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45. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
46. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
47. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
48. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda No: 366 – 08.

(File No: 7092/2020)

Proposed Rough Stone & Gravel quarry lease over an extent of 3.17.0 Ha at S.F.No. 222/2 of Pungampadi (Meipagam) Village, Aravakurichi Taluk, Karur District, Tamil Nadu by Thiru. V.Muthalah - For Environmental clearance. (SIA/TN/MIN/36624/2019 dated 22.05.2019).

Earlier, the proposal was earlier placed in 138th, 145th and in the 173rd meetings of SEAC. *The details of the project furnished by the proponent are available on the website (parivesh.nic.in).*

In the 173rd meeting held on 10.09.2020, it was minuted that,

"SEAC noted that the project proponent has submitted the earlier Environment Clearance obtained from SEIAA vide Lr.No.SEIAA-TN/F.No.1516/EC/1(a)/768/2013 dated 04.10.2013 to a proposed depth of 17 m. Further, AD, Geology and Mining Department Karur letter dated:31.12.2019 has informed the following:

The precise area is an existing lease expired quarry, which was previously held under quarry leases. The quarry pit existed in dimensions of pit - Length 160m X Width 93m X Depth 25m. From the records it is ascertained that previously leases were

granted for a period of 5 years vide District Collector's Proceedings Rc. No. 4 Kanimam/2012, dated: 06.06.2013 in the subject area.

Hence, the project proponent has quarried beyond the depth mentioned in the EC. SEAC decided to send the proposal to SEIAA with above recommendation to look into the above said issues as per the EIA Notification, 2006 and process the application accordingly."

The proponent furnished the additional details sought vide letter dated 09.12.2020. Hence the proposal was placed again for appraisal in this 204th meeting of SEAC held on 25.02.2021.


SEAC noted the following:

1. The Proponent, Thiru. V.Muthaiah has applied for Environment Clearance to SEIAA-TN for the Proposed Rough stone and gravel quarry over an extent of 3.17.0 Ha In S.F. Nos. 222/2 at Pungampadi (Melpagam) Village, Aravakurichi Taluk, Karur District, Tamil Nadu.
2. The project activity is covered under Category 'B' of Item 1(a) 'Mining of Mineral Projects' of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is 5 years. The mining plan is for the period of 5 years & the production should not exceed 286325m³ of Rough Stone & 17,404 m³ of Gravel. The annual peak production is 61875 m³ of Rough Stone (3rd Year) & 9282 m³ of Gravel (1st Year). The ultimate depth - 42m BGL.

Sl. No	Details of the Proposal	Data Furnished
1.	Name of the Owner/Firm	Thru. V.Muthalah S/o. Veeramalai Therappatti Pungampadi West Post Aravakurichi Karur District
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone and Gravel


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3.	S.F No. of the quarry site	222/2
4.	Village in which situated	Pungampadi (Melpagam) Village
5.	Taluk in which situated	Aravakurichi Taluk
6.	District in which situated	Karur District
7.	Extent of quarry (in ha.)	3.17.00 Ha
8.	Latitude & Longitude of all corners of the quarry site	10°48'21.91"N to 10°48'28.36"N 77°57'01.91"E to 77°57'08.21"E
9.	Topo Sheet No.	58F/13
10.	Type of mining	Opencast semi mechanized method
11.	Earlier EC pit dimension for the lease period 2013 to 2018.	160 m (Length) x 93 m (Width) x 17 m (Depth)
12.	Existing pit Dimension as on date	160 m (Length) x 93 m (Width) x 25m (Depth)
13.	Mineable reserve	286325m ³ of Rough Stone & 17,404 m ³ of Gravel
14.	Ultimate pit dimension upto life of mine/mineable reserve	160m (Length) X 165 (Width) X 42m (Depth)
15.	Ultimate Depth of quarrying	42 m
16.	Lease Period of quarrying	5 years
17.	Mining Plan Validity Period	5years
18.	Production & Development Programme as a part of AMP	5 years
19.	Production (Quantity in m ³) for the 5 years	286325m ³ of Rough Stone & 17,404 m ³ of Gravel
20.	Ultimate pit dimension as per mining plan	160m (Length) X 165 (Width) X 42m (Depth)
21.	Depth of water table	50m BGL
22.	Man Power requirement per day:	31 Nos. per day
23.	Water requirement: 1. Domestic & Flushing 2. Dust suppression 3. Green Belt	4.0 KLD 1.2 KLD 1.8 KLD 1.0 KLD
24.	Power requirement	TNEB
25.	Precise area communication approved by the Assistant Director, Dept. of G&M with date	Rc.No.797/Mines/2018 dated: 28.12.2018.

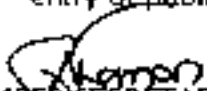
26.	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.797/Mines/2018 dated: 07.01.2019.
27.	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.797/Mines/2018 dated: 07.01.2019.
28.	VAO certificate regarding habitations in 300m radius	Letter Dt:10.01.2019
29.	Project Cost (excluding EMP)	Rs. 63.91 Lakhs
30.	EMP cost	Rs.3.80 Lakhs
31.	CER cost	

On perusal of the documents furnished by the Project proponent, SEAC noted that EC was granted for a maximum depth of 17m (2m+15m) whereas the AD/Mines vide letter dated 27.11.2020 has reported the existing pit depth as 25m. Hence if the Proponent has quarried beyond the approved depth of 17m, a suitable assessment of the penalty for the violation needs to be carried out by the AD/Mines. After receipt of the ratification plus regularization, SEAC will consider the proposal. Further the Committee has decided to make an on-the-spot inspection of the site by the sub-committee constituted by the SEAC. Based on the inspection report of the sub-committee, the SEAC will deliberate on the project and decide the further course of action.

The Sub-Committee of SEAC visited the project site on 07.05.2022 to collect the factual information and took photographs of the salient features of the site to get the first-hand information of the site. The Sub-Committee inspection report was placed in this 309th Meeting of SEAC held on 02.09.2022 and the observations of the Sub-committee are as follows,

Observations Made by the Sub-Committee;

1. The proposed Rough Stone and Gravel Quarry is of Lease area over an Extent
2. 3.17.0 Ha at 222 / 2 of Pungampadi (Melpagam) Village, Aravakurichi Taluk, Karur District, Tamil Nadu.
3. The proposed mine is a patta land owned by the Proponent and partly fenced through iron wire with pillars and partly with the help of earth materials and entry of public is completely prevented.


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4. The existing mine owned by the same proponent is fairly covered by the trees around the mine. All the trees were planted around the existing mine over the earth materials bund and found to be over 3 to 4 years old.
5. The water level in the existing bore well is measured at 65 m, BGL and feeding water for all the trees in the proposed mining site.

Reply by the Subcommittee to the Objections Raised by SEAC: Query:

- On perusal of the documents furnished by the Proponent, SEAC noted that EC was granted for a maximum depth of 17 m whereas the AD Mines vide letter 27.11.2020 has reported that the existing pit has been quarried upto a depth of 25m which is 8 m more than the stipulated ultimate pit bottom of 17 m in the Mining Plan approved by the competent authority.
- Hence, if the proponent has quarried beyond the approved depth of 17m, a suitable assessment of the penalty for the violation needs to be carried out by the AD mines.

Observations Made by the Sub Committee:

- The subcommittee verified the letter submitted by the AD mines on the violation carried out in the mine and found the following

The AD mines in his letter after making site visit to the proposed mine stated that:


- (i) As per the site inspection it is clearly inferred that the dimensions of quarried pit Length 160 m x Width 93 m x Depth 25 m and
 - (ii) The excavated quantity did not exceed the permitted quantity and the lease did not carried out any violation during the quarry period.
- The previous lease for the proposed mine is valid up to 05.06.2018 and hence, there is no mining activity presently carried out.
 - The existing bore well is holding the water table at 65 m, BGL and the water is utilized to the existing plants and trees around the mines.
 - The safety distance of 7.5 m from nearby patta land and 10 m from the existing road is maintained by the proponent.

- A stone crushing machine owned by the proponent is situated south of the proposed mine beyond the road.

RECOMMENDATIONS

- The SEAC sub-committee members after visiting the site recommends environmental clearance to the proposed mine with the following conditions:
 - The previous EC for this quarry has been issued with an ultimate depth of 17 m, BGL. But the proponent has crossed the ultimate depth of 17 m, BGL and quarried upto the depth of 25 m, BGL (As per the AD, Mines Inspection Report). This is considered as EC violation. Hence, it is advised to the Proponent to approach SEIAA / SEAC under violation category to receive new EC for the proposed mining part in the existing quarry.
 - Even though there is a depth violation carried out by the proponent, the permitted quantity of the gravel and rough stone has not exceeded (As per the AD, Mines Inspection Report).
 - The previous lease for the proposed mine is valid up to 05.06.2018 and hence, the proponent is advised to submit EC Compliance report of the quarry.
 - The proponent should ensure of using controlled blasting techniques during the quarrying processes for the proposed dimension of 160 m (L) x 165 m (W) x 42 m (D) and approved quantity (17,404m³ of Gravel and 2,86,325m³ of Rough stone) has to be mined.
 - The quarrying has to be carried out strictly with proper benches as per the approved mining plan.
 - An additional number of more than 700 trees have to be planted around the mining area before start of the quarrying. More number of trees has to be planted around the proposed site.
 - Mining of the gravel and rough stone should be as per the approved mining plan.

Based on the inspection report of Sub- Committee constituted by SEAC, the SEAC after detailed discussion decided that the PP has violated previous EC conditions by carrying


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out the quarry operation in the existing pit upto a depth of 25 m which is 8 m more than the stipulated ultimate pit bottom of 17 m in the Mining Plan approved by the competent authority and hence the SEAC has decided to consider this proposal under violation category and SEIAA should inform the PP to take further course of action as per violation MoEF&CC Notification S.O.804 (E) dated 14.03.2017 & S.O.1030 (E) dated 08.03.2018.


Subsequently, the subject was placed in 554th Authority meeting held on 26.09.2022. The Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 02.09.2022.

The proposal was again placed for appraisal in 366th meeting of SEAC held on 30.03.2023. During committee meeting, the PP has requested for grant of Environmental Clearance presented the reply and submitted the same to SEAC in regard to queries raised by 309th Meeting of SEAC held on 02.09.2022 as follows.

S.No.	309 th SEAC Meeting Query	Reply
1.	The SEAC after detailed discussion decided that the PP has violated previous EC conditions and proposal to be considered under violation category and SEIAA should inform the PP to take further course of action as per violation MoEF&CC Notification S.O.804 (E) dated 14.03.2017 & S.O.1030 (E) dated 08.03.2018.	<p>The proponent has submitted representation letter to SEIAA to consider as a normal application below- as</p> <p>"We have carried out the quarrying operation after obtaining the valid Environmental clearance, hence the proposal does not come under violation category as per the MoEF&CC Notification S.O. 804(E) ad dated 14.03.2017 & S.O.1030 (E) dated 08.03.2018. Although, we have slightly deviated the condition as mentioned in the EC and we have not exceeded the quantity as per the EC.</p> <p>We assure that, we will accept and do the compensate through penalty as per recommendation instruction given by the Honourable SEAC / SEIAA. We request you to not to consider under violation</p>


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		category as per the MoEF&CC Notification S.O. 804(E) dated 14.03.2017 & S.O.1030 (E) dated 08.03.2018 Furthermore, we have invested huge amount of money and time for processing the application for this Rough stone quarry"
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Based on the presentation & documents furnished, the Committee carefully examined the points raised by SEAC and the replies given by the PP and SEAC decided to consider this proposal under violation category and to grant of Terms of Reference (TOR) under Violation category, subject to the following TORs, in addition to the standard terms of reference for EIA study with the exemption of Public Hearing for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants.

1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants **within a period of one year** from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.
2. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
3. Copy of valid mining lease approval obtained from the competent Authority.
4. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
5. Copy of request letter submitted for renewal of mining plan.


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6. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
7. Copy of total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.
8. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
9. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
10. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC
11. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
12. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
13. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
14. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.

15. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,

- a) What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
- b) Quantity of minerals mined out.
- c) Highest production achieved in any one year
- d) Detail of approved depth of mining.
- e) Actual depth of the mining achieved earlier.
- f) Name of the person already mined in that lease area.
- g) If EC and CTO already obtained, the copy of the same shall be submitted.
- h) Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.

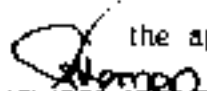
16. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).

17. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc..

18. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.

19. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.

20. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent


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persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.

21. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
22. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
23. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
24. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
25. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.



26. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
27. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
- 28.29. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
29. Impact on local transport infrastructure due to the Project should be indicated.
30. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
31. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
32. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
33. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
34. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.

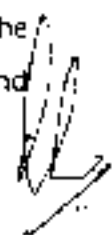

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35. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
36. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
37. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
38. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
39. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
40. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
41. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and

the proposed remedial measures should be detailed along with budgetary allocations.

42. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
43. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
44. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
45. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
46. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
47. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

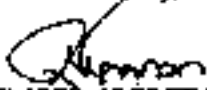
Agenda No: 366 – 09.

(File No: 7883/2019)

Proposed Wind Earth quarry lease area over an extent of 1.53.0Ha at S.F.Nos.191/1A & 191/1B of Rasingapuram Village, Bodinalkanur Taluk, Theni District, Tamil Nadu by Thiru.N.Rajesh - For Environmental Clearance. (SIA/TN/MIN/43663/2019, dated: 26.09.2020).

Earlier, the proposal was placed in this 261st SEAC Meeting held on 07.04.2022. The details of the project furnished by the proponent are given in the website

(panvesh.nic.in).


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Sl. No	Details of the Proposal	Data Furnished
1.	Name of the Owner/Firm	Thiru.N.Rajesh S/o. Nagalinga Thevar No.33A/1. Lakshmi Puram East Devakottai (Post) Sivagangai District
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Wind Earth
3.	S.F No. of the quarry site	191/1A & 191/1B
4.	Village in which situated	Rasingapuram
5.	Taluk in which situated	Bodinaickanur
6.	District in which situated	Theni
7.	Extent of quarry (In ha.)	01.53.00 Ha
8.	Latitude & Longitude of all corners of the quarry site	09°57'18"N to 09°57'23"N 77°19'25"E to 77°19'30"E
9.	Topo Sheet No.	58G/05
10.	Type of mining	Opencast method of Shallow Mining
11.	Period of quarrying	2 Years
12.	Production (Quantity in m ³)	30.456 m ³ of Wind Earth
13.	Depth of mining	2m
14.	Existing Pit Dimension	141m (Length) X 108(Width) X 2m (Depth)
15.	Depth of water table	30m BGL
16.	Man Power requirement per day:	7 Nos. per day
17.	Water requirement:	2.0 KLD
	4. Domestic & Flushing	0.6 KLD
	5. Dust suppression	0.9 KLD
	6. Green Belt	0.5 KLD
18.	Power requirement	TNEB
19.	Precise area communication approved	Rc.No.63/Mines/2018 dated: 26.11.2018.
20.	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.63/Mines/2018 dated: 21.03.2019.

21.	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.63/Mines/2018 dated: 21.03.2019.
22.	VAO certificate regarding habitations in 300m radius	Letter Dt:21.03.2019
23.	Project Cost (excluding EMP)	Rs. 9.74 Lakhs
24.	EMP cost	Rs.1.95 Lakhs
25.	CER cost	Rs.1 Lakh

The Committee examined the proposal submitted by the proponent in the light of the Judgment issued by the Hon'ble Madurai Bench of Madras High Court in W.P.(MD) Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019 dated 12.02.2021.

In the present case, the Committee, therefore directed the proponent to submit the following additional details for further processing the proposal.

1. The composition/component of the minerals proposed to be quarried shall be tested in any of the laboratories authorized by the Dept of Geology & Mining as directed in the above Judgment.
2. The proponent should produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the above Judgment.

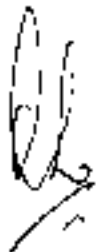
Now, the proposal placed for appraisal in this 285th meeting of SEAC held on 16.06.2022.

The Committee noted that both EIA Coordinator and project proponent are absent. The project proponent shall furnish the reason for his absence. On receipt of the above documents, the committee would further deliberate on this project and decide the further course of action.

Subsequently, the subject was placed in 530th Authority meeting held on 11.07.2022. The Authority after detailed deliberation decided to request the Member Secretary SEIAA-TN to communicate the decision of the SEAC to the Project Proponent.

The proposal was again placed for appraisal in 366th meeting of SEAC held on 30.03.2023. During meeting, the PP has submitted the copy of soil test report Job No.


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Sm & FE 204K/Soil Test/ Rasingapuram Village/2022 dt:16.06-2022 from Division of Soil mechanics and Foundation Engineering, Dept. of Civil Engineering, College of Engineering Guindy Campus, Anna University, Chennai 600025 and Copy of AD letter Dt: 08.04.2022 in regard to queries raised by 285th meeting of SEAC held on 16.06.2022.

Based on the presentation & documents furnished. the Committee carefully examined the points raised by SEAC and the replies given by the PP and decided to recommend the proposal for the grant of Environmental Clearance for the production quantity of **30,456m³ of Wind Earth and the ultimate depth of mining upto 2m BGL for the period of 2 Years** subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


1. The PP shall obtain necessary amendment for mineral name from ' Red Earth' to 'Ordinary Earth ' in the mining plan as per Industries, Investment Promotion and Commerce Department G.O.(MS)No.244 dt.14.12.2022.
2. The proponent shall mandatorily appoint the statutory competent persons accordingly for the proposed quarry size to satisfy the provisions of Mines Act 1952.
3. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
4. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
5. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.


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6. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals.
7. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly.
8. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
9. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics.
10. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
11. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc, should be provided with ear plugs/muffs. (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
12. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
13. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.


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14. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
15. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
16. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
17. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
18. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
19. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
20. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.

21. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
22. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
23. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under.
24. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
25. 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 their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
26. As per the MoEF & CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
27. As accepted by the Project proponent the CER cost is Rs. 1 Lakhs and the amount shall be spent for the **Rasingapuram Govt. School** as committed, before obtaining CTO from TNPCB.

Agenda No: 366 -10.

(File No: 8023/2020)

Proposed Black Granite Quarry lease over an extent of 0.76.0Haat S.F.No.132/1A, 132/1B, 132/1C & 132/1D of Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Tmt.Mohana Gopinath (Legal Heir of Late.Thiru.A.Gopinath) -For Environmental Clearance. (SIA/TN/MIN/179439/2020, Dt: 17.10.2020)

Earlier, the proposal was placed for appraisal in 323rd meeting of SEAC held on 20.10.2022. The details of the project furnished by the proponent are given in the


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website (parivesh.nic.in).

The SEAC noted the following:


Details of project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, Tmt.Mohana Gopinath (Legal Heir of Late.Thiru.A.Gopinath) has applied for Environmental Clearance for the Black Granite Quarry lease over an extent of 0.76.0Ha at S.F.No 132/1A, 132/1B, 132/1C & 132/1Dof Karandapalli Village, Denkanikottal Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The quarry lease was granted in G.O. (3D) No.44, Industries (MMB3) Department Dated 26.03.2004 for a period of 20 years. The lease deed was executed on 14.06.2004. The lease deed will expired on 13.06.2024, The quarrying operation commenced after getting the Government order.
4. The mining plan is approved by Director, Geology and Mining, Chennai Vide Roc. No. 1049/MM2/2003 Dated 01.03.2004. However, the quarry is being operated with 'Deemed Mining Plan' & "Deemed Review of Scheme' under MCDR.
5. However, the Earlier EC was issued to the project vide Lr.No.SEIAA-T /F.No.4563/EC/1(a)/2B54/2015 dated 15.02.2016 stipulates that,
".....subjected to specific condition that the Environmental clearance is subject to obtaining prior clearance from Forestry and wildlife angle including clearance from the standing committee of the National Board for Wildlife as applicable before issue of permit/Consent to establish by the Competent Authority/before starting any activity at site.....".
6. Further, the PP had applied for grant of extension of validity of EC for the extraction of remaining quantity of black granite on 12.03.2021 when the subsisting EC is held by the proponent which fulfills the eligibility to obtain


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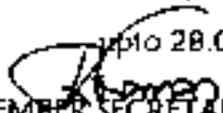
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the extension of EC validity under the MoEF Notifications issued under MoEF CC OM No. J-11011/15/2012-IA.II (M), Dated. 20.03.2015 & MoEF CC S.O No. 1141 (E), Dated. 29.04.2015.

7. The SEAC have also observed that the PP have applied for the extension of validity of Environment Clearance (EC) when the lease period is alive and having the Approved Mining Plan valid till 08.11.2025 under the provisions of Rule 22 (6) of Mineral Concession Rules 1960 which states that
"...The mining plan once approved shall be valid for the entire duration of the lease:....."
8. The quarry operation was carried out till May 2017 after obtaining the necessary 'Legalized Permit' from the office of the Dy. Director (Geology & Mining) to extract & transport the blocks of Black Granite from the quarry.
9. As the quarry was non-operative from May 2017 to 18th May 2020 and the validity period of EC had expired on 14.02.2021, the quarry had been left with 1081 cbm of Black Granite remaining under the EC granted in 2016 Hence the PP had made a request for Extension of EC for the extraction of the remaining quantity.
10. Further, the PP had cited the reasons of the outbreak of the Corona virus (covid-19) and subsequent lockdowns which had put the quarrying operation on hold even though the permit was available to operate the quarry after May 2020.

Here, the SEAC had observed the MoEF&CC Notification S.O. 1247(E), dated the 18 January, 2021, stating that *".....the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearances granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid:....."*.

Hence, the validity of the EC issued earlier in 2016 is deemed to be valid upto 28.02.2022.


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11. Further, the PP had applied for grant of extension of validity of EC for the extraction of remaining quantity of black granite on 12.03.2022 when the subsisting EC is held by the proponent which fulfills the eligibility to obtain the extension of EC validity under the MoEF Notifications issued under MoEF CC OM No. J-11011/15/2012-IA,II (M), Dated. 20.03.2015 & MoEF CC S.O No. 1141 (E), Dated. 29.04.2015.
12. The SEAC have also observed that the PP have applied for the extension of validity of Environment Clearance (EC) when the lease period is alive and having the Approved Mining Plan valid till 08.11.2025 under the provisions of Rule 22 (6) of Mineral Concession Rules 1960 which states that
"...The mining plan once approved shall be valid for the entire duration of the lease...."
13. Here, the Cauvery (North) Wild Life Sanctuary is located at a distance of 2.50 km west from the quarry lease site.
14. However, due to the notified Cauvery North Wildlife Sanctuary, the quarrying operation was suspended from May 2017 to May 2020 for obtaining the NBWL clearance from the Competent Authority due to MOEF draft notification as the buffer zone for Cauvery Wild Life Sanctuary was falling within 10 kms from the quarry.
15. Now, the PP has submitted NOC from Wildlife Warden, Hosur Forest Extension vide Proc. No.6526/2017/L Dated: 04.10.2019 in regard to Cauvery North WildLife Sanctuary based on PCCF & CWLW Ref.no. WLS(A)/42997/2017 Dt:25.09.2019. Earlier, the quarry operation was stopped from 01.05.2017 to 31.05.2020 due to non-availability of NBWL clearance.
16. During Presentation the PP has informed the following.
 - a) The PP has submitted death certificate of applicant and legal heir certificate
 - b) Application for review of scheme of mining plan was submitted on 01.04.2019.

c) In regard to approval of review of scheme of mining plan by Commissioner of Dept. Of Geology & Mining,

The sub-rule of (5) & (6) of Rule No.11 (Mining plan to be submitted by the existing lessee)& as follows:

(5) The Regional Controller or the officer authorised in this behalf by the State Government, as the case may be, shall, within a period of 90 days from the date of receipt of the mining plan or the modified mining plan, convey approval or disapproval to the applicant and in case of disapproval shall also convey the reasons for disapproving the said mining plan or the modified mining plan.]

(6) If no decision is conveyed within the period stipulated under sub-rule (5), the mining plan or the modified mining plan, as the case may be, shall be deemed to have been provisionally approved and such approval shall be subject to the final decision whenever communicated.

The sub-rule of (3) (4) & (5) of Rule No.12 (review of mine plan) of Mineral Conservation and Development Rules, 1988 states

(3) The scheme of mining shall be submitted to the Regional Controller 1 [or the officer authorized in this behalf by the State Government, as the case may be.] at least one hundred twenty days before the expiry of the five years period, for which it was approved on the last occasion.


(4) The Regional Controller or the authorised officer 2 [or the officer authorised in this behalf by the State Government, as the case may be,] shall convey his approval or refusal to the scheme of mining within ninety days of the date of its receipt.

(5) If approval or refusal of the scheme of mining is not conveyed to the holder of the mining lease within the stipulated period the scheme of mining shall be deemed to have been provisionally approved and such approval shall be subject to final decision whenever communicated.

17. At present, the mining plan is valid until 2024 & the production should not exceed the quantity of ROM – 5,935m³ (Recovery @30% of Black Granite


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=1480 m³ & Waste/ reject @ 70% = 3455 m³). The ultimate depth of mining upto 30m BGL.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the certain conditions stated therein.

Subsequently, the proposal was placed in the 568th Authority meeting held on 08.11.2022 & 09.11.2022. The authority after detailed discussions, decided to refer back the proposal after the receipt of following additional particulars as follows


1. Certified compliance report obtained from IRO, Chennai/MoEF & CC (or) the Concerned DEE/TNPCB.
2. From the KML file, It was noted that no provision has been made to show the safety berm, possessing atleast the dimension of bench width fulfilling the legal provisions of MMR 1961. Hence the PP shall furnish a valid scheme of mining plan & sections approved by the AD (Geology & Mining) indicating the proper safety berm in the bench geometry with fencing photographs.
3. Details of copy of correspondence of no. of permits issued AD (Geology & Mining) for the previous EC period for taking decision.

In this connection, the proposal was again placed in this 337th SEAC Meeting held on 13.12.2022. Based on the presentation and document furnished by the project proponent, SEAC after detailed deliberation observed that the proponent has not furnished the details sought by the SEIAA vide its minutes of 568th Authority meeting held on 08.11.2022 & 09.11.2022 and replies furnished were not satisfactory.

Hence, the Committee decided to give another opportunity to furnish adequate replies to the points raised by SEIAA. SEAC will take up the proposal for in any one of the forthcoming meetings after the receipt of above additional particulars.

Subsequently, the subject was placed in 582th authority meeting held on 09.01.2023. The authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 13.12.2022.

The proposal was again placed for appraisal in 366th meeting of SEAC held on 30.03.2023. During committee meeting the PP has submitted the copy of Certified


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Compliance Report (CCR) Dt:15.12.2022 from IRO (SEZ), MoEF&CC, GOI in regard to queries raised by 337th SEAC Meeting held on 13.12.2022 and the SEAC noted that in the said certified compliance report it was reported that the PP has not obtained Consent to Establish (CTE) and Consent to Operate (CTO) from TNPCB for the earlier EC period.

Hence, the SEAC has decided to seek explanation of project proponent for non-fulfilment of compliance cited in the CCR regarding (i) the failure to obtain the CTO/CTE (ii) failure to carry out the plantation (iii) free silica report of the persons employed in the mine during the previous EC period.

On receipt of the explanation, SEAC will further examine the proposal.

Agenda No. 366 – II.

(File No, 8184/2021)

Proposed Rough stone & Gravel quarry lease over an extent of 1.21.5ha at S.F.No.58/1 in Velampalayam Village, Palladam Taluk, Tiruppur District, Tamil Nadu by Thiru.P.Venkatachalam for Environmental Clearance (SIA/TN/MIN/58080/2020, Dt: 22.09.2022)


Earlier, the proposal was placed in 329th SEAC meeting held on 16.11.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
2. The ToR was issued Lr. No. SEIAA-TN/F.No.8184/SEAC/ToR-932/2020 Dated:16.04.2021 to Thiru.P.Venkatachalam for the proposed Rough stone & Gravel quarry lease over an extent of 1.21.5ha at S.F.No.58/1 in Velampalayam Village, Palladam Taluk, Tiruppur District, Tamil Nadu.
3. Minutes of public hearing conducted on 19.04.2022.
4. Final EIA report submitted on 19.09.2022.
5. Now, the Project Proponent, Thiru.P.Venkatachalam has applied for Environmental Clearance with EIA report along with minutes of public hearing for the proposed Rough stone & Gravel quarry lease over an extent of 1.21.5ha at S.F.No.58/1 in Velampalayam Village, Palladam Taluk, Tiruppur District, Tamil Nadu.
6. The precise area communication/lease is issued for the period of 5 years. The


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approved mining plan is for the period of five years & production should not exceed 1,04,520 m³ of Rough Stone, & 2508 m³ of Gravel. The annual peak production is 22,850 m³ of rough stone (3rd Year), & 2580 m³ of Gravel (1st Year). The ultimate depth is 42m BGL.

Based on the presentation and details furnished by the project proponent, the Committee decided to direct the PP to submit a detailed study on the structures located around the proposed site. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds, etc.,

Subsequently, the subject was placed in 575th Authority meeting held on 06.12.2022. The Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 17.11.2022

The proposal was again placed for appraisal in 366th meeting of SEAC held on 30.03.2023. SEAC decided to direct the PP to submit the details of the structures (belonging to the owner/not belonging to the owner) located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds, farm houses etc, along with details of no. of persons residing in each structure/building & no of persons working in the factory. Further, the PP shall furnish numbers & types of trees within the proposed site along with photographs.

On receipt of the additional details, SEAC will further examine the proposal.

Agenda No: 366 - 12.

(File No: 8597/2021)

Proposed Earth Quarry lease over an extent of 1.21.00Ha (Patta Land) at S.F.No.738/2 & 738/3 of Odaipatti Village, Uthamapalayam Taluk, Theni District, Tamil Nadu by Thiru.P.Kalaimani-For Environmental Clearance.(SIA/TN/MIN/217037/2021, dt: 29.06.2021)

The details of the project furnished by the proponent are given in the website (parivesh.tn.nic.in). The SEAC noted the following:

1. The Project Proponent, Thiru.P.Kalaimani_has applied for Environmental Clearance for the Proposed Earth Quarry lease over an extent of 1.21.00Ha at S.F.No.738/2 & 738/3 of Odaipatti Village, Uthamapalayam Taluk, Theni District,

Tamil Nadu


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2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Precise area communication period is 11 Months. The mining plan is for the period of 11 Months & the production should not exceed 5415 Cu.m of Earth. The ultimate depth – 1m BGL.

Earlier, the proposal was placed for appraisal in this 323rd meeting of SEAC held on 20.10.2022. The Committee noted that both EIA Coordinator and project proponent were absent. The project proponent shall furnish the reason for his absence.

Subsequently, the subject was placed in 568th Authority meeting held on 09.11.2022. The Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 20.10.2022.

The proposal was again placed for appraisal in 366th meeting of SEAC held on 30.03.2023. Based on the presentation & documents furnished and the Committee noted that based on Orders of Hon'ble Madurai Bench of Madras High Court dated 12.02.2021 in W.P (MD) No. 20903 of 2016, 23452,24495, 17370 and 18035 of 2019 Directorate of Geology and Mining vide Lr. Dt: 30.07.2021 has instructed the following

"No permission shall be granted for quarrying Gravel, Earth, etc., in Patta lands for a lease period of not less than one year"

Therefore, the Committee decided to direct the PP to submit revised lease document and Mining plan approved by the competent authority for a period of not less than one year along with distance certificate with respect to SMTR from the DFO.

Agenda No. 366 – 13.

(File No. 8667/2022)

Proposed Rough Stone & Gravel Quarry lease over an extent of 2.64.50Ha at S.F.No.728/2, 728/3, 728/4, 728/5, 728/6, 728/7, 728/8, 728/9, 728/10, 728/11, 728/12, 728/13, 728/14, 728/15, 728/16, 728/17 & 728/18 of Magarai-B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu by M/s. Sri Sai Infrastructures - for Environmental Clearance. (SIA/TN/MIN/407145/2022, dt.19.11.2022)

The proposal was placed in 351st SEAC meeting held on 03.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:


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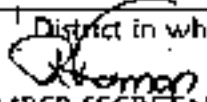
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1. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
2. The ToR was issued vide Lr. No. SEIAA-TN/F. No. 8667/ToR-1086/2021 Dated: 17.03.2022 to M/s. Sri Sai Infrastructures for the proposed Rough Stone & Gravel Quarry lease over an extent of 2.64.50Ha at S.F.No.728/2, 728/3, 728/4, 728/5, 728/6, 728/7, 728/8, 728/9, 728/10, 728/11, 728/12, 728/13, 728/14, 728/15, 728/16, 728/17 & 728/18 of Magaral-B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu.
3. Minutes of public hearing conducted on 13.09.2022.
4. Final EIA report submitted on 24.11.2022
5. Now, the Project Proponent, M/s. Sri Sai Infrastructures has applied for Environmental Clearance with EIA report along with minutes of public hearing for the proposed Rough Stone & Gravel Quarry lease over an extent of 2.64.50Ha at S.F.No.728/2, 728/3, 728/4, 728/5, 728/6, 728/7, 728/8, 728/9, 728/10, 728/11, 728/12, 728/13, 728/14, 728/15, 728/16, 728/17 & 728/18 of Magaral-B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu.
6. The precise area communication/lease is issued for the period of 5 Years. The approved mining plan is for the period of five years & production should not exceed **299140 cu.m of Rough Stone**, & **42160 cu.m of Gravel** and the annual peak production shall not exceed 62,640 m³ of rough stone (4th Year) & 14960 cu.m of Gravel (1st Year). The ultimate depth is 20m BGL.

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	M/s.Sri Sai Infrastructures, No.18, G4, Buckmar Flats, 15 th Cross Street, New Colony, Chrompet, Chennai - 600044
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone & Gravel
3	S.F No. Of the quarry site with area break-up	728/2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17 & 18.
4	Village in which situated	Magaral-B
5	Taluk in which situated	Walajabad
6	District in which situated	Kancheepuram


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7	Extent of quarry (In ha.)	: 2.64.50Ha
8	Latitude & Longitude of all corners of the quarry site	: 12°43'37.47"N to 12°43'44.38"N 79°43'36.77"E to 79°43'44.03"E
9	Topo Sheet No.	: 57-P/10
10	Type of mining	Opencast Semi-Mechanized of Mining
11	Period of quarrying proposed	: 5 years
12	Production (Quantity in m ³)	: 2,99,140 m ³ of rough stone & 42,160 m ³ of gravel
13	Depth of quarrying	: 20m (2m Gravel + 18m Rough stone) below ground level
14	Depth of water table	: 55m-60m BCL
15	Man Power requirement per day:	28 Nos.
16	Source of Water Requirement	Water Vendors and bore well
17	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	: 4.3 KLD 0.300 KLD 1.0 KLD 1.5 KLD 1.5 KLD
18	Power requirement e. Domestic Purpose Industrial Purpose	TNEB 70266Liters of HSD
19	Whether any habitation within 300m distance	: No
20	Precise area communication approved by the Assistant Director, G&M with date	: Na.Ka.No.203/Q3/2020, dated:09.12.2020
21	Mining Plan approved by Assistant Director(i/c), Department of Geology and Mining with date	: Rc.No.203/Q3 /2020. dated: 14.12.2020.
22	Assistant Director, mines 500m cluster letter	Rc.No.203/Q3 /2020, dated:16.12.2020.
23	VAO certificate regarding 300m radius cluster	Letter dated: 16.07.2021
24	Project Cost (excluding EMP cost)	: 68.65 Lakh


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25	EMP cost	:	EMP Cost - Rs. 7.5628 Crores /10Years Including capital & recurring cost with 5% inflation cost anticipated every year.
26	CER cost		5 Lakh

Based on the presentation and documents furnished by the project proponent, SEAC noted that a public complaint (Monday Petition Dt: 30.09.2022) was received in this office Dt: 14.11.2022. SEAC after detailed discussion decided to defer the proposal and requested the PP to carry out a Comprehensive Study furnishing the following additional particulars:


- i. Details of schools located at the vicinity of the project site.
- ii. Details of timing of the school and mode of transport for the children.
- iii. Details of mode of transport and details on the transportation route through which quarried materials are scheduled to be hauled.
- iv. Standard Operating Procedure indicating the Time schedule of proposed blasting operation.

Subsequently, the subject was placed in 596th SEIAA meeting held on 22.02.2023 & 23.02.2023. The authority after detailed discussion decided to defer the proposal and requested the PP to carry out a Comprehensive Study furnishing the following additional particulars

- i. Details of schools located at the vicinity of the project site.
- ii. Details of timing of the school and mode of transport for the children.
- iii. Details of mode of transport and details on the transportation route through which quarried materials are scheduled to be hauled
- iv. Standard Operating Procedure indicating the Time schedule of proposed blasting operation

In view of the above, the authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 03.02.2023

The proposal was again placed for appraisal in 366th meeting of SEAC held on 30.03.2023. The Committee decided to defer the proposal and to place this proposal in any one of the forthcoming SEAC for regulating the activities of the EIA Co-ordinator.


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Agenda No: 366-14
(File No: 6561/2018)

Proposed Increase in production capacity and addition of new products of leather chemicals division at S.F No. 32 of Sathangadu Village, Manali Taluk, Chennai District, Tamil Nadu by M/s. Balmer Lawrie & Co Ltd - For Environment Clearance – Category "B1"-5(f) Synthetic Organic Chemical Industry - Regarding. (SIA/TN/IND2/23352/2017, dated: 03.04.2018).

The proposal was placed for appraisal in this 366th meeting of SEAC held on 30.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).


The SEAC noted the following:

1. The Proponent, M/s. Balmer Lawrie & CO LTD has applied for Environment Clearance to SEIAA on 16.04.2018 for the proposed increase in production capacity and addition of new products of leather chemicals division to a total plot area of 48540 sq.m at Plot No. 32 of Sathangadu Village, Manali taluk, Chennai district.
2. The project/activity is covered under Category "B1" of Item 5(f) "Synthetic Organic Chemicals Industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)" of the Schedule to the EIA Notification, 2006.
3. The existing unit produces Synthetic Tanning Agent (420 MTPM) and Synthetic Fat Liquor (480 MTPM) used in leather industry.
4. The unit was established prior to EIA Notification and the first production of SYNTAN carried out by the unit was after obtaining CTE and CTO in 1991.
5. The proponent has proposed to increase the production capacity of leather chemicals at their factory located in Manali Industrial Area, Chennai.
6. The proposal was appraised by MoEF&CC and issued the Terms of Reference (TOR) with public consultation vide Letter No. F.No. J-11011/428/2017-IA-II (I) TOR dated 29.09.2017.
7. Based on MOEF&CC OM No. J-11013/5/2010-IA.II (I) dated 25.11.2016 which stating that Cuddalore & Manali are no more critically polluted areas MoEF&CC has redirected the files of industries located in Manali & Cuddalore Industrial Cluster/area to SEIAA-TN to consider under Category "B".


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8. The facility requires prior Environmental Clearance from State Environmental Impact Assessment Authority (SEIAA), Tamil Nadu before commencing onsite activities.
9. For the proposed expansion additional reactors which will be equipped with APC measures to meet the standards set by the TNPCB/CPCB.

Earlier, the proposal was placed before the 121st SEAC Meeting held on 30.11.2018. Based on the presentation made by the proponent and the documents furnished, the committee instructed to furnish the following details for the existing and proposed expansion activity to SEAC:

1. Land Break up detail with survey number and extent of land area.
2. The proponent has to furnish the clear village map of the project site and extract of A- register.
3. Reason for addition of 2 units in the same survey no. of 32, Sathangadu village which are having valid CTO of TNPCB in the existing Synthetic Tanning Agent unit for which EC was obtained from MoEF&CC on 14.03.1997.
4. Detail of raw material used.
5. Detail of products attracting EIA Notification.2006 as amended and products which are non-attracting EIA Notification.2006 as amended.
6. Detail of ground water and surface water analysis report for the project site.
7. Is there any court direction issued for the industry? If so, furnish the detailed action taken report and remediation's measures.
8. Detail of hazardous waste management plan shall be furnished as a part of EIA study.
9. The proponent shall furnish the adequacy report for air pollution control measures obtained from the reputed Institution (Anna University (or) IIT)(or the raw material which are used or proposed to use (i.e both existing and proposed) in the process and VOC analyser's adequacy report shall be obtained from the reputed Institution.(Anna University (or) IIT)
10. The proponent shall furnish the Report of Analysis of AAQ survey, stack survey, VOC monitoring conducted by TNPCB for the last 3years.
11. The proponent shall furnish the Report of Analysis of the inlet and outlet of

STP/ETP collected by TNPCB for last 3years.

12. The proponent shall furnish the Report of Analysis of the inlet and outlet of combined STP/ETP for all the organic components, heavy metals and other standard parameters from the NABL accredited Lab.
13. The details furnished by the proponent for the existing green belt area were found to be 20.6% of total land area, which is found to be inadequate as per CPCB guidelines. The proponent should enhance the green belt area upto 33% of the total land area as per CPCB guidelines.
14. The proponent should furnish the report for health check up conducted for the employees working in the site for past 5 years. A detailed report shall be furnished for the same.
15. To furnish the process flow diagram, Layout and technical details of the proposed site.
16. Details about the solid waste management
17. Google map showing the surrounding water bodies.

The project proponent requested to submit the aforesaid details to SEIAA-TN. On receipt of above details (Sl.No.1 to 17) from the project proponent, further course of action will be taken.

Meanwhile Hon'ble NGT(PB) in its order Dt 19.8.2019 has pronounced that "Further direction of the Tribunal is that "No further industrial activities or expansion be allowed with regard to 'red' and 'orange' category units till the said areas are brought within the prescribed parameters or till carrying capacity of area is assessed and new units or expansion is found viable having regard to the carrying capacity of the area and environmental norms."

Further, O.M No. F.No. 22-23/2018 IA.II (Pt) MoEF&CC Dt. 31.10.2019 has stated the following " The Hon'ble NGT in O.A.No .1038/ 2018 had passed orders regarding formulation of a mechanism for environmental management of critically and severely polluted areas and consideration of activities/projects in such areas.

The following mechanism has been finalized by the Ministry and necessary action may be taken as given below:

- a) In cases pertaining to Critically and Severely Polluted Areas, where the environmental clearance proposal is yet to be referred to the EACs/SEACs, the


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mechanism may be provided to the EACs/SEACs which after due diligence may prescribe additional conditions as incorporated in the mechanism for environmental protection.

- b) In cases pertaining to Critically and Severely Polluted Areas, where the environmental clearance proposal has already been recommended by the EACs/SEACs, and the proposal was kept on hold, the mechanism may now be considered by the concerned sectors of the Ministry/SEIAAs and after due diligence the concerned sectors of the Ministry/SEIAAs may prescribe additional conditions as incorporated in the mechanism for environmental protection while issuing ECs, and enclosed the mechanism for environmental management of Critically and Severely Polluted Areas and consideration of activities/projects in such areas in compliance of directions issued by Hon'ble National Green Tribunal on 19.08.2019 (published on 23.08.2019) in O. A. No. 1038 2018.

Further, MoEF&CC has issued the O.M vide F.No. 22-23/2018 –IA.II (Pt) MoEF&CC Dt. 30.12.2019 regarding disposal of the application received on or before 31.10.2019 for ToR/EC. This is in continuation to the Office Memorandum of even number dated 31st October, 2019, the following three classes of cases that may emerge for disposal of the applications received as on date of OM, for ToR/EC:-

- I. The cases which were already recommended by SEAC or UTEAC, as the case may be;
- II. The cases where partial deliberations or complete deliberations were made by SEAC or UTEAC, as the case may be; and
- III. The cases where applications were received but not yet taken for SEAC/UTEAC.

2.0 The ministry is in receipt of representation for mechanism to be followed for disposal of the above classes of cases for ToR and EC. The matter has been examined and decided to follow the procedure given below:-

- I. In respect of the cases which were already recommended by SEAC or UTEAC, as the case may be (Class-I), SEIAA may prescribe the additional conditions as per the OM dated 31st October, 2019 and dispose without referring to SEAC or UTEAC, as the case may be.
- II. In respect of the cases where partial deliberations or complete deliberations were made by SEAC or UTEAC, as the case may be (Class-II), the deliberation

may be completed keeping in view of the additional conditions by the SEAC or UTEAC, as the case may be, and sent to the ministry for comments. If the comments were not received within 15 days from the communication, may be deemed as accepted and disposed based on the recommendations of the SEAC.


- III. In respect of the cases where applications were received but not yet taken for SEAC/UTEAC (Class-III), may be transferred to Ministry for dealing at Central level as per the OM dated 31st October, 2019.

The Hon'ble Supreme Court vide order dated 22.09.2020 In the matter of Gujarat Chambers of Commerce and Industry Vs Central Pollution Control Board & Anr, has imposed a stay on the operation of the impugned order of the NGT in O.A.No.1038/2018 dated 19.08.2019.


With the above remarks it is placed before 247th SEAC meeting held on 18.2.2022. Based on the presentation made by the proponent and the documents furnished, the Committee noted that this application falls under Class – II i.e In respect of the cases where partial deliberations or complete deliberations were made by SEAC or UTEAC, as the case may be (Class-II), the deliberation may be completed keeping in view of the additional conditions by the SEAC or UTEAC, as the case may be, and sent to the ministry for comments. If the comments were not received within 15 days from the communication, may be deemed as accepted and disposed based on the recommendations of the SEAC.

In view of the above, the Committee instructed the PP to furnish the following additional details;

1. The proponent shall furnish the last 5 years detailed health study of the people/residents located in the vicinity of the unit.
2. Detailed study report of surface & ground water analysis located within 2 Km from the project site.
3. Plant safety audit report in respect of installation of existing & proposed machineries shall be furnished through competent Authority such as National Test house/Regional labor institute.
4. The proponent shall furnish the action plan to mitigate the air pollution due to this expansion.


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On the receipt of the same it is again been placed in 366th meeting of SEAC held on 30.03.2023. During the meeting the PP has made the representation along the above said details. Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain the following details to get clarification on whether the project comes under violation or not.

1. The PP shall furnish list of raw materials used and details of products with production quantity in year wise from 1991.
2. Detail of products attracting EIA Notification, 1994 and 2006 as amended and products which are non-attracting EIA Notification, 2006 as amended.
3. The PP shall furnish proof of no Expansion after EIA notification, 2006 as amended.
4. The PP shall furnish Baseline study report for the last 2 years in the CEPI area to ensure that pollution loads are within permissible limits.
5. The proponent shall furnish the Report of Analysis of AAQ survey, stack survey, VOC monitoring conducted by TNPCB for the last 3 years.

On receipt of the above, further deliberations will be done.

Agenda No: 366 - 15

(File No: 9727/2023)

Proposed Rough Stone & Gravel lease over an extent of 1.13.7Ha at S.F.No. 279/2C18 in Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by Tmt.M. Selvathal - For Terms of Reference.(SIA/TN/MIN/413115/2023 dt 04.01.2023)


The proposal was placed in this 366th meeting of SEAC held on 30.03.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Tmt.M. Selvathal has applied for Terms of Reference for the the Proposed Rough Stone & Gravel lease over an extent of 1.13.7Ha at S.F.No. 279/2C18 in Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is 5 years. The mining plan is for the


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period of five years & production should not exceed 1,08,990 m³ of Rough Stone, 32,592 m³ of Weathered Rock & 16,296 m³ of Gravel with an ultimate depth of mining 41m (2m Gravel + 4m Weathered Gravel + 35m Rough Stone) Below Ground Level. The annual peak production is 21,910 m³ of Rough Stone, 13,104 m³ of Weathered Rock & 6552 m³ of Gravel.

Based on the presentation made by the proponent, SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
2. The PP shall provide the details of wind mills/Turbines which are located within 300m radius. Further, keeping the above windmills in mind, the PP shall carry out blast-induced vibration simulation study through any of one of the reputed scientific / academic Institutions such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University - CEG Campus to predict the impacts of the blast-induced ground & air vibration and fly rock on such structures situated within 500 m distance from the quarry lease and the same shall be included in EIA Report.
3. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
4. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
5. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is


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approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.

6. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
7. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
8. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
9. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines.
 - a. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - b. Quantity of minerals mined out.
 - c. Highest production achieved in any one year
 - d. Detail of approved depth of mining.
 - e. Actual depth of the mining achieved earlier.
 - f. Name of the person already mined in that leases area.
 - g. If EC and CTO already obtained, the copy of the same shall be submitted.
 - h. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
10. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
11. The PP shall carry out Drone video survey covering the cluster. Green belt.




fencing etc.,

12. The PP shall furnish the revised manpower including the statutory & competent persons as required under the provisions of the MMR 1961 for the prosed quarry based on the volume of rock handled & area of excavation.
13. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
14. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
15. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
16. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
17. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
18. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the


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Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.

19. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
20. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
21. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
22. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
23. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
24. Impact on local transport infrastructure due to the Project should be indicated.
25. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
26. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
27. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.

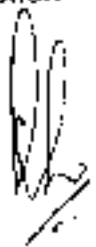


28. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
29. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
30. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
31. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
32. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site-specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
33. A Disaster Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
34. A Risk Assessment and Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation


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- measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
 37. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
 38. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
 39. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
 40. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
 41. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
 42. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda No: 366-16

(File No: 9797/2023)

Proposed Rough stone quarry lease over an extent of 4.82.70 Ha in S.F. Nos. 1238/2 (Part) vettamangalam west Village, Pugalur Taluk, Karur District Tamil Nadu by M/s THIRUMALAI BLUE METALS - For Terms of Reference. (SIA/TN/MIN/417026/2023, Dated: 04.02.2023)

The proposal was placed in this 366th meeting of SEAC held on 30.03.2023. The details of the project furnished by the proponent are available on the PARIVESH


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web portal (parivesh.nic.in). SEAC decided to defer the subject and this subject will be taken up in ensuing meeting for further discussion.

Agenda No: 366-17

(File No: 9858/2023)

Proposed Rough stone & gravel quarry lease over an extent of 2.01.5 Ha In S.F. Nos. 1193/1, 1193/2, 1199/1B, 1199/1C, 1199/1D, 1199/1E, 1199/1F, 1199/1H, 1199/1I, 1199/1J & 1199/1K katchalkatti Village, vadipatti Taluk, Madurai District Tamil Nadu by Thiru B. KARUPPAIAH - For Terms of Reference. (SIA/TN/MIN/419463/2023, Dated: 25.02.2023)

The proposal was placed in this 366th meeting of SEAC held on 30.03.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). SEAC decided to defer the subject and this subject will be taken up in ensuing meeting for further discussion.

Agenda No: 366-18

(File No: 9898/2022)

Proposed Development of Special Economic Zone (SEZ) in Kallakurichi District over an extent of 77.09 Ha (190.42 Acres) at Survey No: 213/2, 213/3 & 213/4 of A.Sathanur Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu by M/s. State Industries Promotion Corporation of Tamil Nadu Limited - For Terms of Reference (SIA/TN/INFRA2/421347/2023 Dated: 08.03.2023).

The proposal was placed in this 366th meeting of SEAC held on 30.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, M/s. State Industries Promotion Corporation of Tamil Nadu Limited has applied for Terms of Reference for the Proposed Development of Special Economic Zone (SEZ) in Kallakurichi District over an extent of 77.09 Ha (190.42 Acres) at Survey No: 213/2, 213/3 & 213/4 of A.Sathanur Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 8(b) "Townships and Area Development Projects" of the Schedule to the EIA Notification, 2006.
3. The proposal involves Development of Special Economic Zone (SEZ) in Kallakurichi District with a total built up area of 55.82 Acres (22.60 Ha) and


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plot/land area 77.09 Ha (190.42 Acres).

Based on the presentation made and documents furnished by the project proponent, SEAC decided to recommend the proposal for the Terms of Reference subject to the following specific conditions, in addition to standard conditions stipulated by MOEF &CC:


1. The entire land ownership details shall be included in the EIA report.
2. The proponent shall study the details of anticipated impacts on Gunamangalam lake and Govt. Horticulture farm abutting to the proposed project site and its mitigation measures.
3. The industries to be housed in the SEZ shall comply with the norms as prescribed by the Competent Authority for treated sewage, treated trade effluent and disposal of solid wastes generated from the process activity.
4. If any Category A or B type of industry as notified in the EIA Notification 2006, as amended is proposed in the SEZ, the concerned project proponent shall apply for Environmental Clearance as per EIA Notification 2006, as amended.
5. Submit the present land use and permission required for any conversion such as forest, agriculture etc. land acquisition status, rehabilitation of communities/ villages and present status of such activities.
6. Generation of the solar/renewable energy should not be less than 50% of total energy utilization and ensure that the entire roof of the building. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
7. The PP shall explore construction of pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a structure which was crucial to the overall eco-system.

8. As per G.O. Ms. No. 142 approval from Central Ground Water Authority shall be obtained for withdrawal of water and furnish the copy of the same, if applicable.
9. Commitment letter from competent authority for supply of water shall be furnished.
10. Copy of the village map, FMB sketch and "A" register shall be furnished.
11. The proponent shall furnish the design details of the STP and ETP treatment system and characteristics of the effluent generated.
12. The space allotment for solid waste disposal and sewage treatment & grey water treatment plant shall be furnished.
13. Details of the Solid waste management plan shall be prepared as per solid waste management Rules, 2016 and shall be furnished.
14. Details of the E-waste management plan shall be prepared as per E-waste Management Rules, 2016 and shall be furnished.
15. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modeling for the ground water, emission, noise and traffic.
16. Examine baseline environmental quality along with projected incremental load due to the proposed project/activities.
17. The air quality monitoring should be carried out according to the notification issued on 16th November, 2009.
18. Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
19. Submit details of a comprehensive Risk Assessment and Disaster Management Plan including emergency evacuation during natural and man-made disasters.
20. Submit details of the trees to be cut including their species and whether it also involves any protected or endangered species. Measures taken to reduce the number of the trees to be removed should be explained in detail. Submit the details of compensatory plantation. Explore the possibilities of relocating the existing trees.


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21. The project proponent is advised to retain the trees available at the project site. In case of necessity, if any to remove the trees, the project proponent shall commit to plant minimum of 10 nos. of trees for every tree that is cut.
22. Examine the details of afforestation measures indicating land and financial outlay. Landscape plan, green belts and open spaces may be described. A thick green belt should be planned all around the nearest settlement to mitigate noise and vibrations. The identification of species/ plants should be made based on the botanical studies.
23. Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area.
24. Details of the rain water harvesting system with cost estimation should be furnished.
25. A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains and sub-drains in accordance with the contour levels of the proposed project considering the flood occurred in the year 2015 and also considering the water bodies around the proposed project site & the surrounding development. The storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.
26. The purpose of Greenbelt around the project is to capture the fugitive emissions and to attenuate the noise generated, in addition to the improvement in the aesthetics. A wide range of indigenous plants species should be planted in and around the premise in consultation with the DFO, District / State Agriculture University. The plants species should have thick canopy cover, perennial green nature, native origin and large leaf areas. Medium size trees and small trees alternating with shrubs shall be planted. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 15 metre wide and in between blocks in an organized manner and the same shall be included in the layout out plan to be submitted for CMDA/DTCP approval. The total green belt area should be minimum 33% of the total area and the same shall not be used for car parking/OSR.

27. Cumulative impacts of the Project considering with other infrastructure developments and industrial parks in the surrounding environment within 5 km & 10 km radius shall be furnished.
28. Submit details regarding R&R Involved in the project.
29. A detailed post-COVID health management plan for construction workers as per ICMR and MHA or the State Govt. guideline may be followed and report shall be furnished.
30. The proposal for utilization of at least 50% of Renewable Energy shall be included in the EIA/EMP report.
31. Detailed Evacuation plan during emergency/natural disaster/unfoward accidents shall be submitted.
32. As per the MoEF&CC Office Memorandum F.No.22-65/2017-IA, Dated: 30.09.2020 and 20.10.2020, the proponent shall furnish the detailed EMP.
33. Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available at Ministry website [https://environmentclearance.nic.in/writereaddata/torletterpdf/7\(c\)NCP.pdf](https://environmentclearance.nic.in/writereaddata/torletterpdf/7(c)NCP.pdf) for Special Economic Zone.

Agenda No: 366-19

(File No: 9905/2022)

Proposed Rough stone and Gravel quarry lease over an extent of 4.82.70 Ha in S.F. Nos. S.F. NO'S : 764/3, 765/3, 766/1, 766/2, 766/3A, 767/1 & 767/2A Anjur Village, Pugalur Taluk, Karur District Tamil Nadu by Thiru S KUPPUSAMY - For Terms of Reference. (SIA/TN/MIN/421900/2023, Dated: 13.03.2023)

The proposal was placed in this 366th meeting of SEAC held on 30.03.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). SEAC decided to defer the subject and this subject will be taken up in ensuing meeting for further discussion.

Agenda No: 366-20

(File No: 441/2018)

Existing Construction project at S.F. No. 36, 42, 44/2 etc., Potheri Village, Chengalpat taluk, Kancheepuram district Tamil Nadu by M/s. Vallammal Society (Trust)- For Terms of Reference Under Violation Category. (SIA/TN/NCP/25399/2018, Dated: 13.04.2018)


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The proposal was placed in this 366th meeting of SEAC held on 30.03.2023. The project proponent was absent for the meeting. SEAC decided to defer the subject and directing the project proponent to furnish the reason for not attending the meeting.

Agenda No: 366-21
(File No: 1935/2018)

Existing constructed Residential Development entitled "TVH SVAYA" located at Survey No. 4/1(pt), 5/2(pt), 15/1, 2A, 2B, 3, 4A, 4B, 16/1, 2, 3A 3B, 17, 23/2, 3, 4, 5, 6, 24/1, 2, 3, 4, 5, 6, 7A, 7B, 7C, 26/2B 2B, 4/3A(pt) of Sripurumbudur Village and Taluk, Kandipuram district, Tamil Nadu by M/s. True Value Homes India Private Limited - For Terms of Reference Under Violation Category. (SIA/TN/NCP/22B17/2018, Dated: 13.07.2018)

The proposal was placed in this 366th meeting of SEAC held on 30.03.2023. The project proponent was absent for the meeting. SEAC decided to defer the subject and directing the project proponent to furnish the reason for not attending the meeting.

Agenda No: 366- 22
(File No: 9714/2023)

Proposed Rough stone and Gravel quarry lease over an extent of 9.55.14 Ha in S.F. Nos. 1092/1, 1094, 1095/1, 1136/1 Thennilal West Village Pugalur Taluk, Karur District Tamil Nadu by Tmt G. Parameswari- For Terms of Reference. (SIA/TN/MIN/413123/2023, Dated: 06.01.2023)

The proposal was placed in this 366th meeting of SEAC held on 30.03.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). SEAC decided to defer the subject and this subject will be taken up in ensuing meeting for further discussion.

Agenda No: 366-23
(File No: 9791/2018)

Existing Grey granite (Paradiso) Quarry over an Extent of 2.78.5 Ha in S.F.No. 382/5A, 382/5B, 382/6A, 382/6B, 382/6C, 382/7A, 382/7B, 382/8, 382/9A, 382/9B, 382/9C, 382/10 and 382/11, Chendarapalli Village, Krishnagiri Taluk and District, Tamil Nadu by Thiru. B.K. Murali- For Terms of Reference under Violation category. (SIA/TN/MIN/23602/2018 Dated: 05.04.2018)

The proposal was placed in the 366th meeting of SEAC held on 30.03.2023. The project proponent gave a detailed presentation. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent Thiru. B.K. Murali, has applied for Terms of Reference under Violation category for the Existing Grey granite (Paradiso) Quarry over


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an Extent of 2.78.5 Ha in S.F.No. 382/5A, 382/5B, 382/6A, 382/6B, 382/6C, 382/7A, 382/7B, 382/8, 382/9A, 382/9B, 382/9C, 382/10 and 382/11, Chendarapalli Village, Krishnagiri Taluk and District, Tamil Nadu.

2. The project/activity is covered under Category "B" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended.

Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following additional details/documents:

1. The structures within the radius of (i) 100 m, (ii) 300 m, and (iii) 500 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
2. Copy of mine plan/scheme of mining for the proposed period of quarrying approved by the concerned AD (Mines)/ competent authority.
3. Latest letter from AD/Mines stating the details of quarries (existing/expired/abandoned/proposed) located within 500m radial distance from the periphery of the mine lease area.

On receipt of the details sought above, the Committee will further deliberate and decide on future course of action.

Agenda No. 366 - 24


(File No. 9764/2023)

Proposed Rough Stone and Gravel quarry over an extent of 6.73.0 Ha in S.F.No. 136/3, 142/1, 2A, 2B, 3, 4, 5A, 143/1, 2, 3, 144/1A, 1B, 1C, 3A, 3B, 3C, 4, 5A, 5B, 5C, 6, 7, 145/1, 2, 3, 146/9, 10A, 11, 147/2, 3, 4, 5, 6, 7, 8B, 9B, 10, 11A, 12A, 13, 148/2A (P) & 2B2 of Udayalipatti Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by Thiru.R. Kumar for Terms of Reference. (SIA/TN/MIN/415559/2023, dated: 23.01.2023)

The proposal was placed in this 366th Meeting of SEAC held on 30.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. R. Kumar has applied for Terms of Reference for the proposed Rough Stone and Gravel quarry over an extent of 6.73.0 Ha in S.F.No. 136/3, 142/1, 2A, 2B, 3, 4, 5A, 143/1, 2, 3, 144/1A, 1B, 1C, 3A, 3B, 3C,


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4, 5A, 5B, 5C, 6, 7, 145/1, 2, 3, 146/9, 10A, 11, 147/2, 3, 4, 5, 6, 7, 8B, 9B, 10, 11A, 12A, 13, 148/2A (P) & 2B2 of Udaiyallpatti Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu

2. The project/activity is covered under Category "BI" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is 10 years. The mining plan is for 5 years & production should not exceed 5,64,175 cu.m of Rough Stone for first five years and 4,64,830 m³ for remaining five years and 1,01,414 cu.m of Gravel for three years. The annual peak production 1,36,170cu.m of Rough Stone & 38,688cu.m of Gravel. The maximum depth of mining would be 42m BGL (2m Gravel + 40m Rough Stone).

Based on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EEMP Report:

1. The proponent is requested to submit the valid registered lease document during the EIA appraisal after the previous lease granted for the mining operations is legally surrendered (or) lapsed with the consent of the competent authority.
2. The proponent is requested to carry out a survey and enumerate on the structures located within 100m, 200m, 300m from the boundary of the mine lease area and the details of occupants.
3. The proponent shall explore the possibilities of diverting the vari in the proposed Garland drain, so that mining can be carried out in one single piece of land instead of 3 pieces.
4. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
5. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals.


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ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Necessary data and documentation in this regard may be provided.

6. The proponent shall submit the details regarding the nature of blasting activity which will be carried out.
7. The PP shall furnish DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
8. The PP shall provide the proposed mitigation measures considering the existence of Reserved Forests if any located within 1 km from the proposed quarry lease.
9. The PP shall provide individual notice regarding the Public Hearing to the nearby house owners located in the vicinity of the project site.
10. In the case of proposed lease in an existing (or old) quarry where the benches are non-existent (or) partially formed critical of the bench geometry approved in the Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the 'highwall' benches to ensure slope stability in the proposed quarry lease which shall be vetted by the concerned Asst. Director of Geology and Mining, during the time of appraisal for obtaining the EC.
11. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry indicating the proposed stabilizing measures during the appraisal while obtaining the EC, as the depth of the proposed working is extended beyond 30 m below ground level.
11. If the blasting operation is to be carried out, the PP shall present a conceptual design for carrying out the NONEL initiation based controlled blasting operation involving line drilling & muffle blasting and Simulation Model indicating the anticipated Blast-induced Ground Vibration levels in the proposed quarry as stipulated by the DGMS Circular No.7 of 1997, during the EIA Proposal.


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12. Details of Green belt & fencing shall be included in the EIA Report.
13. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
14. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD mines,
 - a) What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - b) Quantity of minerals mined out.
 - c) Highest production achieved in any one year
 - d) Detail of approved depth of mining.
 - e) Actual depth of the mining achieved earlier.
 - f) Name of the person already mined in that leases area.
 - g) If EC and CTO already obtained, the copy of the same shall be submitted.
 - h) Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
15. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
16. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc..
17. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
18. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be

appointed as per the provisions of Mines Act 1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.

19. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
20. The Proponent shall carry out the Cumulative Impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
21. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
22. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
23. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
24. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
25. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.


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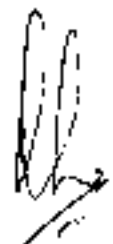
26. Impact on local transport infrastructure due to the Project should be indicated.
27. A tree survey study shall be carried out (nos., name of the species, age, diameter etc..) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
28. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
29. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
30. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
31. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
32. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
33. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-1 in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
34. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.

35. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
36. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
37. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
38. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
39. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
41. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
42. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
43. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.


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44. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda No. 366 - 25

(File No. 9806/2023)

Proposed Rough Stone and Gravel quarry over an extent of 1.39.81 Ha in S.F.No. 15/1 (P), 2 (P), 3 (P), 4 (P), 5 (P), 6 (P), 7, 8, 9, 10, 11, 12, 13A, 13B, 14, 15A, 15B, 16, 16/1, 2, 3 (P), 4 (P), 5 (P), 6 (P) & 7 of Sirumailour Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu by Tvl. Murugappa Blue Metal for Terms of Reference. (SIA/TN/MIN/416882/2023, dated: 03.02.2023)

The proposal was placed in this 366th Meeting of SEAC held on 30.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


The SEAC noted the following:

1. The project proponent, Tvl. Murugappa Blue Metal has applied for Terms of Reference for the proposed Rough Stone and Gravel quarry over an extent of 1.39.81 Ha in S.F.No. 15/1 (P), 2 (P), 3 (P), 4 (P), 5 (P), 6 (P), 7, 8, 9, 10, 11, 12, 13A, 13B, 14, 15A, 15B, 16, 16/1, 2, 3 (P), 4 (P), 5 (P), 6 (P) & 7 of Sirumailour Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is 10 years. The mining plan is for 5 years & production should not exceed 1,09,276 cu.m of Rough Stone for first five years and 11,500 m³ for remaining five years and 19,332 cu.m of Gravel for three years. The annual peak production 22,714 cu.m of Rough Stone & 8,084 cu.m of Gravel. The maximum depth of mining would be 35m BGL (2m Gravel + 33m Rough Stone).

Based on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:


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1. The proponent is requested to submit the valid registered lease document during the EIA appraisal after the previous lease granted for the mining operations is legally surrendered (or) lapsed with the consent of the competent authority.
2. The proponent is requested to carry out a survey and enumerate on the structures located within 100m, 200m, 300m from the boundary of the mine lease area with details of occupants/residents.
3. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
4. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Necessary data and documentation in this regard may be provided.
5. The proponent shall submit the details regarding the nature of blasting activity which will be carried out.
6. The PP shall furnish DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
7. The PP shall provide individual notice regarding the Public Hearing to the nearby house owners located in the vicinity of the project site.
8. In the case of proposed lease in an existing (or old) quarry where the benches are non-existent (or) partially formed critical of the bench geometry approved in the Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the 'highwall' benches to ensure slope stability in the proposed quarry lease which shall be vetted by the concerned Asst. Director of Geology and Mining, during the time of appraisal for obtaining the EC.


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9. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry indicating the proposed stabilizing measures during the appraisal while obtaining the EC, as the depth of the proposed working is extended beyond 30 m below ground level.
20. If the blasting operation is to be carried out, the PP shall present a conceptual design for carrying out the NONEL initiation based controlled blasting operation involving line drilling & muffle blasting and Simulation Model indicating the anticipated Blast-Induced Ground Vibration levels in the proposed quarry as stipulated by the DGMS Circular No.7 of 1997, during the EIA Proposal.
21. Details of Green belt & fencing shall be included in the EIA Report.
22. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
23. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
- i) What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - j) Quantity of minerals mined out.
 - k) Highest production achieved in any one year
 - l) Detail of approved depth of mining.
 - m) Actual depth of the mining achieved earlier.
 - n) Name of the person already mined in that leases area.
 - o) If EC and CTO already obtained, the copy of the same shall be submitted.
 - p) Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
24. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other



- ecological features of the study area (core and buffer zone).
25. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
 26. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
 27. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act' 1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
 28. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
 29. The Proponent shall carry out the Cumulative Impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
 30. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
 31. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
 32. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land


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use, R&R issues, if any, should be provided.


33. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
34. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
35. Impact on local transport infrastructure due to the Project should be indicated.
36. A tree survey study shall be carried out (nos., name of the species, age, diameter etc..) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
37. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
38. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
39. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
40. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
41. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
42. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO.

State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.

43. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
44. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
45. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
46. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
47. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
48. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
49. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
50. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic,


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employment potential, etc.

51. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
52. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
53. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda No. 366 - 26


(File No. 9848/2023)

Proposed Multi Colour Granite an extent of 2.31.5 Ha in S.F.No. 1/1(Part) and 1/2B(Part) of Thangayur Village, Edappadi Taluk, Salem District, Tamil Nadu by Thiru. B. Venkatesh for Terms of Reference. (SIA/TN/MIN/418907/2023, dated: 21.02.2023)

The proposal was placed in this 366th Meeting of SEAC held on 30.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. B. Venkatesh has applied for Terms of Reference for the proposed Multi Colour Granite an extent of 2.31.5 Ha in S.F.No. 1/1(Part) and 1/2B(Part) of Thangayur Village, Edappadi Taluk, Salem District, Tamil Nadu
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier the proponent had obtained Environmental Clearance vide Lr. No. SEIAA-TN/F.No.5016/1(a)/EC. No:3309/2016 dated: 15.07.2016.
4. As per mining plan, the lease period is for 20 years. The mining plan is for 5 years & production should not exceed ROM – 1,25,220m³, Granite Recovery – 75,132m³ @ 60% & Granite waste – 50,088m³ @ 40%. The annual peak


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production 15,828m³ of Multi colour granite. The ultimate depth of mining is shown as 66m (8m AGL + 58m BGL).


Based on the presentation made by the proponent SEAC recommended grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs. In addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The proponent is requested to submit the valid registered lease document during the EIA appraisal after the previous lease granted for the mining operations is legally surrendered (or) lapsed with the consent of the competent authority.
2. The Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Integrated Regional Office, Chennai.
3. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
4. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Necessary data and documentation in this regard may be provided.
5. The proponent shall submit the details regarding the nature of blasting activity which will be carried out.
6. The PP shall furnish DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
7. The PP shall provide individual notice regarding the Public Hearing to the nearby house owners located in the vicinity of the project site.


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8. In the case of proposed lease in an existing (or old) quarry where the benches are non-existent (or) partially formed critical of the bench geometry approved in the Mining Plans, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the 'highwall' benches to ensure slope stability in the proposed quarry lease which shall be vetted by the concerned Asst. Director of Geology and Mining, during the time of appraisal for obtaining the EC.
9. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry indicating the proposed stabilizing measures during the appraisal while obtaining the EC, as the depth of the proposed working is extended beyond 30 m below ground level.
10. If the blasting operation is to be carried out, the PP shall present a conceptual design for carrying out the NONEL initiation based controlled blasting operation involving line drilling & muffle blasting and Simulation Model indicating the anticipated Blast-induced Ground Vibration levels in the proposed quarry as stipulated by the DGMS Circular No.7 of 1997, during the EIA Proposal.
11. Details of Green belt & fencing shall be included in the EIA Report.
12. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
20. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
 - q) What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - r) Quantity of minerals mined out.
 - s) Highest production achieved in any one year
 - t) Detail of approved depth of mining.
 - u) Actual depth of the mining achieved earlier.
 - v) Name of the person already mined in that leases area.

- w) If EC and CTO already obtained, the copy of the same shall be submitted.
- x) Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
21. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
22. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
23. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
24. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act 1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
25. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
26. The Proponent shall carry out the Cumulative Impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
27. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.


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28. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
29. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
30. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
31. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
32. Impact on local transport infrastructure due to the Project should be indicated.
33. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
34. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
35. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
36. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
37. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.



38. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
39. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of Indigenous plant species should be planted as given in the appendix-iii in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
40. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
41. A Disaster management Plan shall be prepared and Included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
42. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
43. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
44. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
45. The Socio-economic studies should be carried out within a 5 km buffer zone


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from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.

46. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
47. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
48. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
49. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Agenda No. 366 – 27

(File No. 9860/2023)

Proposed Rough Stone and Gravel quarry over an extent of 1.99.00 Ha in S.F.No. 49/2, 49/3 & 49/4A of Kovundampalayam Village, Gobichettipalayam Taluk, Erode District, Tamil Nadu by Thiru. T. M. Manoharan for Terms of Reference. (SIA/TN/MIN/419734/2023, dated: 24.02.2023)

The proposal is placed for appraisal in this 366th SEAC meeting held on 30.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). SEAC decided to defer the subject and this subject will be taken up in ensuing meeting for further discussion.

Agenda No: 366-28


(File No: 9772/2023)

Proposed Rough Stone & Gravel quarry Lease over an extent of 2.10.5 Ha at S.F.No. 16/6, 16/7, 16/9 & 16/10 in Thoilamur Village, Vanur Taluk, Villupuram District, Tamil Nadu by Mr.G.Arjunan – For Terms of Reference (SIA/TN/MIN/415873/2023 dated 28.01.2023)

The proposal is placed for appraisal in this 366th SEAC meeting held on 30.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). SEAC decided to defer the subject and this subject will be taken up in ensuing meeting for further discussion.


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Agenda No: 366-29

(File No: 9779/2023)

Proposed Rough Stone & Gravel quarry Lease over an extent of 2.48.0 Ha at S.F.No. 226/1, 226/2, 226/4, 226/5, 227/2 & 227/3 in Thiruchunal Village, Melur Taluk, Madurai District, Tamil Nadu by Mr.M.Kumaran - For Terms of Reference (SIA/TN/MIN/416430/2023 dated 31.01.2023)

The proposal is placed for appraisal in this 366th SEAC meeting held on 30.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). SEAC decided to defer the subject and this subject will be taken up in ensuing meeting for further discussion


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ANNEXURE-1

1. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
4. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
5. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
6. The proponent shall ensure that the slope of dumps is suitably vegetated in scientific manner with the native species to maintain the slope stability, prevent erosion and surface run off. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps.

7. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
8. The Project Proponent shall carry out slope stability study by a reputed academic/research institution such as NIRM, IIT, Anna University for evaluating the safe slope angle if the proposed dump height is more than 30 meters. The slope stability report shall be submitted to concerned Regional office of MoEF&CC, Govt. of India, Chennai as well as SEIAA, Tamilnadu.
9. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
10. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
11. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
12. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted in proper escapements as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
13. **Noise and Vibration Related:** (i) The Proponent shall carry out only the **Controlled Blasting** operation using NONEL shock tube initiation system during **daytime**.


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Usage of other initiation systems such as detonating cord/fuse, safety fuse, ordinary detonators, cord relays, should be avoided in the blasting operation. The mitigation measures for control of ground vibrations and to arrest fly rocks should be implemented meticulously under the supervision of statutory competent persons possessing the I / II Class Mines Manager / Foreman / Blaster certificate issued by the DGMS under MMR 1961, appointed in the quarry. No secondary blasting of boulders shall be carried out in any occasions and only the Rock Breakers (or) other suitable non-explosive techniques shall be adopted if such secondary breakage is required. The Project Proponent shall provide required number of the security sentries for guarding the danger zone of 500 m radius from the site of blasting to ensure that no human/animal is present within this danger zone and also no person is allowed to enter into (or) stay in the danger zone during the blasting. (ii) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.

14. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
15. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
16. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
17. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried rough stones; and transport of


rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.

18. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
19. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.
20. The Project proponent shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flora, fauna etc.
21. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
22. The project proponent shall ensure that the provisions of the MMRD, 1956, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
23. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/OD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
24. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
25. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the


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quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.

26. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.

27. 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 their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

28. The Project proponent shall install a Display Board at the entrance of the mining lease area/abutting the public Road, about the project Information as shown in the Appendix -II of this minute.


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Appendix - I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விவம்
2	<i>Adenanthera pavonina</i>	Marjadi	மர்ஜாடி, நுண்ணாடி, அரிசிமலி
3	<i>Albizia lebbek</i>	Vaagai	வாளை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Manttarai	மந்தரை
6	<i>Bauhinia racemosa</i>	Aathi	அதி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாதி
8	<i>Buchanania axillaris</i>	Kattuma	கட்டும்
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Marukkamarai	மருக்கமரை
11	<i>Borax ceda</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punna	புனை
13	<i>Cassia fistula</i>	Seralondrai	சேரலண்டரை
14	<i>Cassia nuxburghii</i>	Sengondrai	சேங்கண்டரை
15	<i>Chloroxylon swietenia</i>	Parasamarai	பாரசாமரை
16	<i>Cochlospermum religiosum</i>	Kongu, Marjallavu	காங்கு, மர்ஜல்லவு, இலவு
17	<i>Cordia dichotoma</i>	Naruvai	நருவை
18	<i>Croton adansonii</i>	Mavalingum	மாவலிங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	Siru Uva, Sitruzha	சீரு உவா
21	<i>Diospyro sebnum</i>	Karungali	கரங்கலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாளை
23	<i>Ficus amplissima</i>	Kalitchi	கலிச்சி
24	<i>Hibiscus tiliaceus</i>	Astrupoooraram	அஸ்தூபூரம்
25	<i>Hemibickia binata</i>	Aacha	அச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	அயிலி, அயில், அயிலி
27	<i>Lansia coromandelica</i>	Odhiam	ஒடியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மரூது
29	<i>Lepianthus tetraphylla</i>	Neikottaimarai	நேகோட்டைமரை
30	<i>Limonia acidissima</i>	Vila marai	வில்லாமரை
31	<i>Litsea glutinos</i>	Psinpattai	பசும்பட்டை, பசும்பட்டை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UkkaiPalai	உக்கைபலை
34	<i>Mimusops elengi</i>	Magizhamarai	மகிழ்மரை
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனை
37	<i>Morinda citrifolia</i>	Vellai Nuna	வலைநுனை
38	<i>Phoenix syloestre</i>	Earchai	ஏர்ச்சை
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Murnai	முருமை
41	<i>Premna serratifolia</i>	Narumamai	நறுமுமை
42	<i>Premna tomentosa</i>	Makipoccharasi	மாசிப்புச்சாசி
43	<i>Prosopis cinerea</i>	Vanni maram	வாணி மாம்ப
44	<i>Pterocarpus maritimus</i>	Vengai	வேங்கை
45	<i>Pterocarpium canescens</i>	Vennangu, Tada	வேணாங்கு
46	<i>Pterocarpium xylocarpum</i>	Polavu	புலாவு
47	<i>Puffranjira roxburghii</i>	Karipala	கரிபலா
48	<i>Saiadora persica</i>	Ugaa Maram	உகா மாம்ப
49	<i>Sapindus emarginatus</i>	Manipungai, Soapukai	மாணிப்புளை சோபுகை
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Strobilus asper</i>	Piray maram	பிராய் மாம்ப
52	<i>Strychnos nuxvomica</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therthang, Kottai	தேர்த்தாங்கு கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandi	தாண்டி
56	<i>Terminalia erjuna</i>	Ven marudhu	வேன் மாருது
57	<i>Toona ciliata</i>	Sandhana vembu	சாந்தா வேம்பு
58	<i>Theopelia populnea</i>	Pirvarasu	பிர்வாசு
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Yeppalai	யெப்பலை
61	<i>Pithecolobium dulce</i>	Kochukapuli	கொக்குகாபுலி


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