

State Expert Appraisal Committee (SEAC)

Minutes of 365th meeting of the State Expert Appraisal Committee (SEAC) held on 24.2.2023 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No: 365-01

(File No: 9675/2022)

Proposed Earth quarry lease over an extent of 2.41.0 Ha at SF. Nos. 121/1, 122/5, 122/7B and 122/8 of Rasngapiuram Village, Bodinaickanur Taluk, Theni District, Tamil Nadu by Thiru.S.Maharajan - For Environmental Clearance. (SI/TN/MIN/411541/2022, Dt: 22.12.2022).

The proposal was placed in 365th SEAC meeting held on 24.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

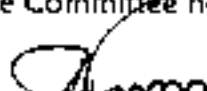
The SEAC noted the following:

1. The Project Proponent, Thiru.S.Maharajan has applied for Environmental Clearance for the proposed Earth quarry lease over an extent of 2.41.0 Ha in SF. Nos. 121/1, 122/5, 122/7B and 122/8 of Rasngapiuram Village, Bodinaickanur Taluk, Theni District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 3 years. The mining plan is for the period of three years & the production should not exceed 38,912m³ of Earth with an ultimate depth of mining is 2m BGL. The annual peak production is 12,971m³ of Earth (1st & 2nd Year) .

This proposal was placed before 290th SEAC meeting held on 30.6.2022. 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 Jambalmedu Reserve Forest is located at a distance


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of 1.0 km (as per the DFO letter submitted by the PP) from this project site and the proposal is, therefore, hit by the above G.O. The Committee, therefore, decided not to recommend the proposal.

The proposal was again placed for appraisal in this 365th SEAC meeting held on 24.03.2023, since in the G.O. (Ms.) No. 243 industries, Investment promotion and Commerce (MMC.1) Department dated 14.12.2022, the above rule has been amended as follows.

"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".

The Proponent has resubmitted the same proposal on with all necessary supporting documents in order to obtain Environmental Clearance.

Description	Old File	New File
File No	9145	9675
Online Proposal No for EC	SLA/TN/MIN/264262/2021, Dated 04.04.2022	SLA/TN/MIN/411541/2022 Dated 22.12.2022

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru. S. Maharajan, S/o.Sivasamy, No-21A,12W, Periyandavarapuram, Bodinaickanur Taluk, Theni District
2	Type of quarrying	Earth Quarry
3	S.F No. Of the quarry site with area break-up	121/1, 122/5, 122/7B and 122/8
4	Village in which situated	Rasingapiuram
5	Taluk in which situated	Bodinaickanur
6	District in which situated	Theni District
7	Extent of quarry (in ha.)	2.41.0 Ha
8	Latitude & Longitude of all corners of the quarry site	09°57'28.76"N to 09°57'35.22"N 77°19'13.00"E to 77°19'19.78"E

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9	Topo Sheet No.	58 G/05
10	Type of mining	Opencast Method of Shallow Mining
11	Period of quarrying proposed	3 years
12	Production (Quantity in m ³)	As per the mining plan the lease period is 3 years. The mining plan is for the period of three years & the production should not exceed 38,912m ³ of Earth with an ultimate depth of mining is 2m BGL. The annual peak production is 12,971m ³ of Earth (1 st & 2 nd Year) .
13	Depth of quarrying	2m Below Ground level
14	Depth of water table	33m
15	Man Power requirement:	7 Employees.
16	Water requirement:	1.0 KLD
	1. Drinking & domestic purposes	0.5 KLD
	2. Dust suppression ,	0.2 KLD
	3. Green Belt	0.3 KLD
17	Power requirement	
	a. Domestic Purpose	TNEB
	b. Industrial Purpose	6480 litres of HSD Will be utilized for the entire project life.
18	Whether any habitation within 300m distance	Nil
19	Precise area communication approved by the Assistant Director, Department of Geology and Mining with date	Na.Ka.No.792/ Kanimam/2021, dated:07.02.2022
20	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	Roc.No.792/Mines/2021, dated:23.02.2022
21	500mts letter approved by the Assistant Director, Department of Geology and Mining with date	Roc.No.792/ Mines/2021, dated:09.03.2022
22	VAO certificate regarding 300m radius cluster	Dated:24.02.2022
23	Project Cost	Rs. 30,08,428


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24	EMP cost	Rs. 16.68 Lakhs
25	CER cost	Rs.5 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 38,912m³ of Earth not exceeding the annual peak production of 12,971m³ of Earth with maintaining an ultimate pit depth of 2m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall change all the documents including the Mining Plan from "Earth" to "Ordinary Earth" as per the TN G.O. (Ms). No.244, dated. 14.12.2022 at the time of lease execution, duly approved by the competent authority.
3. The statutory competent persons shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952.
4. The Project Proponent shall develop the Green belt activities (tree plantations of two to three rows) in the safety zone as stipulated in the Mining Plan around the periphery of the proposed quarry lease before obtaining the CTO from the TNPCB.
5. The Project Proponent shall not carry out blasting operations.
6. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
7. The PP shall ensure that the transport vehicles used in the quarry are fully covered with tarpaulin before it is allowed to enter into the adjacent village panchayat road.
8. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50m 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


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- de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
9. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
 10. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
 11. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
 12. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.111 dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
 13. As accepted by the Project proponent the CER cost is Rs.5,00,000 lakhs and the amount shall be spent for the Government Kallar Primary School, Kuppalckenpatti Village as committed, before obtaining CTO from TNPCB.

Agenda No: 365-02

(File No: 9696/2022)

Proposed Rough stone and Gravel quarry lease over an extent of 4.53.5 Ha at SF. Nos. 208/3C1, 208/3C3, 208/3A1(P), 208/3B2, 208/3A2(P), 208/3B1 and 208/3C2 of Vettur Village, Madhuranthakam Taluk, Chengalpattu District, Tamil Nadu by Thiru. E.Muthukrishnan - For Environmental Clearance. (SIA/TN/MIN/ 412274/2022, Dt: 29.12.2022).

The proposal was placed in 365th SEAC meeting held on 25.03.2023. The details of the project furnished by the proponent are given in the website (parlvesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. E.Muthukrishnan has applied for Environmental Clearance for the proposed Rough stone and Gravel quarry lease over an extent of 4.53.5 Ha in SF. Nos. 208/3C1, 208/3C3, 208/3A1(P), 208/3B2, 208/3A2(P), 208/3B1 and 208/3C2 of Vettur Village, Madhuranthakam Taluk, Chengalpattu District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 10 years. The mining plan is for the period of ten years & the production should not exceed 4.76.900m³ of Rough



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stone, 1,80,400m³ of Weathered Rock & 76,780m³ of Gravel with an ultimate depth of mining is 47m BGL for first five years. The annual peak production is 97,390m³ of Rough stone (1st Year), 66880 of Weathered Rock (1st Year) & 30100m³ of Gravel (1st Year).

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru. S E. Muthukrishnan S/o Ezhumalai Nayakkar No.69, Bajanai Kovil Street Thirukazhukundram Taluk Chengalpattu District
2	Type of quarrying	Rough stone and Gravel Quarry
3	S.F No. Of the quarry site with area break-up	208/3C1, 208/3C3, 208/3A1(P), 208/3B2, 208/3A2(P), 208/3B1 and 208/3C2
4	Village in which situated	Vettur
5	Taluk in which situated	Madhuranthakam
6	District in which situated	Chengalpattu
7	Extent of quarry (In ha.)	4.53.5 Ha
8	Latitude & Longitude of all corners of the quarry site	12°22'42.14"N to 12°22'50.10"N 79°56'40.17"E to 79°56'48.17"E
9	Topo Sheet No.	57 P/15
10	Type of mining	Opencast Mechanized Method
	Lease Period	10 years
	Mining Plan Validity Period	10 years
11	Production & Development Plan Period of quarrying	For the first 5 years
12	Production (Quantity in m ³)	The total production should not exceed 4,76,900m ³ of Rough stone, 1,80,400m ³ of Weathered Rock & 76,780m ³ of Gravel with an ultimate depth of mining is 47m BGL. The annual peak production is 97390m ³ of Rough stone (1 st Year), 66880 of Weathered Rock (1 st Year) & 30100m ³ of Gravel (1 st Year).
13	Ultimate pit Depth	47m Below Ground level
14	Depth of water table	58m in summer season -55m in rainy season


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15	Man Power requirement	47 Employees
16	Water requirement: 1. Drinking & domestic purposes 2. Dust suppression , 3. Green Bell	2.5 KLD 0.4 KLD 1.5 KLD 0.6 KLD
17	Power requirement a. Domestic Purpose b. Industrial Purpose	TNEB -
18	Whether any habitation within 300m distance	Nil
19	Precise area communication approved by the Assistant Director(i/c), Department of Geology and Mining with date	Na.Ka.No.7982/ Kanimam/2021, dated:26.09.2022
20	Mining Plan approved by Assistant Director(i/c), Department of Geology and Mining with date	Rc.No.7982/ Mines/2022, dated:18.11.2022
21	500mts letter approved by the Assistant Director(i/c), Department of Geology and Mining with date	Rc.No.7982/ Mines/2022, dated:18.11.2022
22	VAO certificate regarding 300m radius cluster	Dated:15.12.2022
23	Project Cost	Rs. 1.71,30,000
24	EMP cost	Rs. 404.12 Lakhs
25	CER cost	Rs.8 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 4,76,900m³ of Rough Stone, 76,780m³ of Gravel and 1,80,400m³ of Weathered rock but not exceeding the annual peak production of 97,390m³ of Rough stone, 30,100m³ of Gravel and 66,880m³ of Weathered rock with maintaining an ultimate pit depth of 47m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC. In addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.


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2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall Inform the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial/Refresher' training under Mines Vocational Training Rules 1961 in DGMS approved Group Vocational Training Centre, Trichy.
5. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the development activities from west to east direction keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
6. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
7. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction, shall install fencing and Garland drain before obtaining the CTO from the TNPCB.
8. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
10. Due to existence of farm house at 220 m to 260 m, the PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation

shall be carried out once in 2 days to reduce the environmental impacts effectively.

11. However, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal and Anna University - CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
12. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
13. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
14. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
15. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
16. Since a tank is situated at 250 m, the PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
17. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.


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18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. 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.
20. As accepted by the Project proponent the CER cost is Rs.5 lakhs and the amount shall be spent for the Govt Aadhi Dhiraavidar Welfare Primary School, Vetoor Village, Madhuranthakam Union as committed, before obtaining CTO from TNPCB.

Agenda No: 365-03
(File No: 9669/2022)

Proposed Rough stone and Gravel quarry lease over an extent of 1.63.0 Ha at SF. Nos. 248/2C2 (P) Iduvai Village, Tiruppur South Taluk and Tiruppur District Tamil Nadu by Thiru. S.Muthukarupasamy- For Environmental Clearance. (5IA/TN/MIN/411465/2022, Dt: 20.12.2022).

The proposal was placed in 365th SEAC meeting held on 25.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).


The SEAC noted the following:

1. The Project Proponent, Thiru. S.Muthukarupasamy has applied for Environmental Clearance for the proposed Rough stone and Gravel quarry lease over an extent of 1.63.0 Ha at SF. Nos. 248/2C2 (P) Iduvai Village, Tiruppur South Taluk and Tiruppur District, Tamil Nadu.
2. The project/activity is covered under Category "B2" 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 period of five years & the production should not exceed 71,170 m³ of Rough stone, Gravel 4,680m³, Weathered Rock – 7,776 m³ with an ultimate depth of mining is 51m BGL. The annual peak production is 17,080 m³ of Rough stone (5th Year), Gravel – 2160 m³ & Weathered Rock – 3240m³.

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru. S. Muthukarupasamy, S/o. Subramanian, No.3/26, Aravankadu, Majara Chinnakalipalayam, Iduvai Village, Tiruppur Taluk, Tiruppur District - 641 687.


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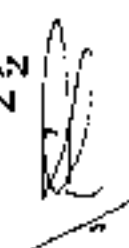
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2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Rough Stone and Gravel
3	S.F No. of the quarry site with area break-up	:	248/2C2 (P)
4	Village in which situated	:	Iduvai
5	Taluk in which situated	:	Tiruppur South
6	District in which situated	:	Tiruppur
7	Extent of quarry (in ha.)	:	1.60.3 Ha
8	Lease Period of quarrying	:	5 Years
	Approved Mining plan Validity Period	:	5 years
9	Type of mining	:	Opencast Mechanized Mining
10	Production (Quantity in m ³)	:	The total production should not exceed 71,170 m ³ of Rough stone, Gravel – 4,680m ³ , Weathered Rock – 7,776 m ³ The annual peak production is 17,080 m ³ of Rough stone (5th Year), Gravel – 2160 m ³ & Weathered Rock – 3240m ³
11	Latitude & Longitude of all corners of the quarry site	:	11°03'51.66"N to 11°03'58.32"N 77°17'36.63"E to 77°17'40.51"E
12	Topo Sheet No.	:	58-E/08
13	Man Power requirement per day:	:	14 Nos
14	Precise area communication approved by Assistant Director, Department of Geology and Mining with date	:	Na.Ka.294/Kanlman/2021, dated: 27.09.2022
15	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	:	R.c. No. 294/Mines/2021, dated: 14.10.2022
16	Water requirement: 4. Drinking water & domestic purposes (in KLD) 5. Dust Suppression (in KLD) 6. Green Belt (in KLD)	:	1.7 KLD 0.6 KLD 0.6 KLD 0.5 KLD
17	Power requirement c. Domestic Purpose d. Industrial Purpose	:	TNEB 59024 Liters of HSD
18	Ultimate Pit Depth	:	46 m BGL
19	Depth of water table	:	70m-65m bgl
20	Whether any habitation within 300m distance	:	No
21	Project Cost (including EMP cost)	:	Rs. 33.68.000/-


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22	EMP cost	:	Capital Cost – Rs.22,72,810/- Recurring Cost – Rs. 12,80,388/-
23	CER cost	:	Rs. 5,00,000/-
24	Assistant Director, mines 500m cluster letter	:	R.c. No. 294/Mines/2021, dated: 14.10.2022
25	VAO certificate regarding 300m radius cluster	:	Letter dated 14.10.2022

Based on the presentation and documents furnished by the project proponent, SEAC considering the safety aspects to reduce the last bench in XY-CD section and existing & revised quantity as follows.

Existing quantity as per mining plan


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Year wise Development and Production

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YEARWISE RESERVES								
Section	Year	Bench	Length (m)	Width (m)	Depth (m)	Recoverable Reserve of Rough Stone (m ³)	Weathered Rock (m ³)	Gravel (m ³)
XY-CD	I	III	19	23	5	2185		
		IV	19	23	5	2185		
		V	50	23	5	5750		
I		18	60	2			2100	
II		15	54	4			3200	
III		11	46	5	2530			
Total						13600	3200	2100
XY-AB	II	I	11	60	2			1320
		II	11	54	4			2376
		III	17	46	5	2530		
		IV	17	54	5	2985		
		V	62	23	5	7130		
Total						12720	2976	1320
XY-AB	III	VI	197	18	5	9030		
		I	19	60	2			1320
		II	19	54	4			2304
		III	19	46	5	2300		
		IV	19	39	5	1800		
Total						13230	2304	1320
XY-CD	IV	V	22	26	5	2860		
		VI	17	16	5	1360		
		VII	102	23	5	6630		
		VIII	92	9	5	4140		
		Total						14990
XY-CD	V	IX	82	4	4	1312		
		X	82	34	1	2766		
		XI	72	24	5	8640		
		XII	62	14	5	4340		
		Total						17058
Grand Total						71270	7776	4680

Revised quantity as per SEAC decision:

Revised quantity								
Section	Year	Bench	Length in (m)	Width in (m)	Depth in (m)	Recoverable Reserve of Rough Stone in(m ³)100%	Weathered Rock (m ³)	Gravel (m ³)
XY-CD		III	19	23	5	2185		
		IV	19	23	5	2185		
		V	50	23	5	5750		

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XY-AB	I	I	18	60	2			2160	
		II	15	54	4		3240		
		III	11	46	5	2530			
		Total					12650	3240	2160
XY-CD	II	I	11	60	2			1320	
		II	11	54	4		2376		
		III	11	46	5	2530			
		IV	17	36	5	3060			
		V	62	23	5	7130			
		Total					12720	2376	1320
XY-AB	III	VI	107	18	5	9630			
		I	10	60	2			1200	
		II	10	54	4		2160		
		III	10	46	5	2300			
		IV	10	36	5	1800			
		Total					13730	2160	1200
XY-CD	IV	V	22	26	5	2860			
		VI	17	16	5	1360			
		VII	102	13	5	6630			
		VIII	92	9	5	4140			
		Total					14990		
		XY-CD	V	IX	82	4	4	1312	
IX	82			34	1	2788			
X	72			24	5	8640			
Total						12740			
Grand Total					66830	7776	4680		

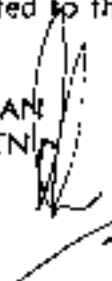
Accordingly, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 66830 m³ of Rough stone, Gravel – 4,680m³, Weathered Rock – 7,776 m³ with an ultimate depth of mining is maintained at 46m BGL. The annual peak production is 13730m³ of Rough stone , Gravel – 2160 m³(1st year) & Weathered Rock – 3240m³ subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC. in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(F) dated 12.04.2022.

2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall inform the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in DGMS approved Group Vocational Training Centre, Trichy (or) Salem.
5. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the development activities from west to east direction keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
6. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 2 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
7. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
8. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction, shall install fencing and Garland drain before obtaining the CTO from the TNPCB.
9. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
10. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
11. Since the habitations are situated at a distance of 440 m, the PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the


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maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.

12. However, within six months from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University - CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
13. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
14. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
15. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
17. The PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.

18. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and Its Integrated Regional Office (IRO) located in Chennai.
19. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
20. 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.
21. As accepted by the Project proponent the CER cost is Rs.5 lakhs and the amount shall be spent for the Government High School, Iduvai, Tiruppur as committed, before obtaining CTO from TNPCB.

Agenda No: 365-04

(File No: 9676/2022)

Proposed Rough stone quarry lease over an extent of 2.65,5 Ha at SF, Nos, 81/2, Poolancheri Village, Musiri Taluk, Tiruchirappalli District Tamil Nadu by Thiru. Thiru.K.Periyasamy. For Environmental Clearance. (SIA/TN/MIN/411608/2022, Dt: 22.12.2022).

The proposal was placed in 365th SEAC meeting held on 25.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.K.Periyasamy has applied for Environmental Clearance for the proposed Rough stone quarry lease over an extent of 2.65.5 Ha at SF, Nos. 81/2, Poolancheri Village, Musiri Taluk, Tiruchirappalli District Tamil Nadu.
2. The project/activity is covered under Category "B2" 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 period of five years & the production should not exceed 1,50,746 m³ of Rough stone with an ultimate depth of mining is 50.0 m (5m above GL and 45 m below GL). The annual peak production is 31,316 m³ of Rough stone (1st Year).

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru. K. Periyasamy, S/o. Kandasamy, No.2/72, Pappapatti,


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		Musiri Taluk, Tiruchirapalli District - 621 208.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone
3	S.F No. of the quarry site with area break-up	: B1/2
4	Village in which situated	: Poolancheri
5	Taluk in which situated	: Musiri
6	District in which situated	: Tiruchirapalli
7	Extent of quarry (in ha.)	: 2.65.5 Ha
8	Lease Period of quarrying	: 5 Years
9	Mining Plan validity period Type of mining	5 Years : Opencast Mechanized Mining
10	Production (Quantity in m ³)	: The total production should not exceed 1,50,746 m ³ of Rough stone. The annual peak production is 31,316 m ³ of Rough stone (1st Year)
11	Latitude & Longitude of all corners of the quarry site	: 11°03'26.31"N to 11°03'31.93"N 78°22'26.06"E to 78°22'32.99"E
12	Topo Sheet No.	: 58-I/08
13	Man Power requirement per day:	: 21 Nos
14	Precise area communication approved by District Collector with date	: Na.Ka.En.978/2021/Kanimam-R.S-2, dated:24.08.2022
15	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Roc.978/2021/Mines-R.S-2, dated: 31.10.2022
16	Water requirement: 1. Drinking water & domestic purposes (in KLD) 2. Dust Suppression (In KLD) 3. Green Belt (in KLD)	: 2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD
17	Power requirement a. Domestic Purpose b. Industrial Purpose	: TNEB 120597 Liters of HSD
18	Ultimate Depth of quarrying	: 50m (5m above GL and 45m below GL)
19	Depth of water table	: 58m-55m bgl
20	Whether any habitation within 300m distance	: No
21	Project Cost (including EMP cost)	: Rs. 1.54.10.335/-


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22	EMP cost	: Rs. 69,00,335/-
23	CER cost	: Rs. 5,00,000/-
24	Assistant Director, mines 500m cluster letter	: Rc.No.978/2021/Mines-R5-2, dated:31.10.2022
25	VAO certificate regarding 300m radius cluster	: Letter dated 07.11.2022

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 1,50,746 m³ of Rough stone with an ultimate depth of mining is 50.0 m (5m above GL and 45 m below GL). The annual peak production is 31,316 m³ of Rough stone (1st Year) subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
3. The PP shall inform the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy.
5. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
6. Since the R.F is situated at 1.5 km, the PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction, shall install fencing and Garland drain before obtaining the CTO from the TNPCB.
7. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone


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of 7.5 m as it is designed to take care of run-off water (size, gradient and length).

8. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the development activities from top to downwards in the hilly terrain keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
9. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the working quarry touches 30 m (or) after the completion of 2 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
10. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
11. Since few habitations are located at a distance of 350 m to 500 m, the PP shall carry out only one round of controlled blast only per day, restricted to the maximum of 40 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
12. However, within six months from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal and Anna University - CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
13. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
14. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions

- of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
15. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
 16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
 17. The PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
 18. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
 19. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
 20. 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.
 21. As accepted by the Project proponent the CER cost is Rs.5 lakhs and the amount shall be spent for the Panchayat Union
 22. Primary School, Melakkottangal, Poolancheri (Po) as committed, before obtaining CTO from TNPCB.

Agenda No: 365-05

(File No: 9683/2022)

Proposed Rough stone & gravel quarry lease over an extent of 1.82.0 Ha at S.F.Nos.823/IA (Part) & 824/3B of Naranammalpuram Village, Tirunelveli Taluk and Tirunelveli District Tamil Nadu by Thiru.S.Kattupava Mydeen - For Environmental Clearance. (SIA/TN/MIN/412000/2022, Dt: 24.12.2022).

The proposal was placed in 365th SEAC meeting held on 25.03.2023. The details of the project furnished by the proponent are given in the website


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(parivesh.nic.in).


The SEAC noted the following:

1. The Project Proponent, Thiru.S.Kattupava Mydeen has applied for Environmental Clearance for the proposed Rough stone & gravel quarry lease over an extent of 1.82.0 Ha at S.F.Nos.823/1A (Part) & 824/3B of Naranammalpuram Village, Tirunelveli Taluk and Tirunelveli District Tamil Nadu.
2. The project/activity is covered under Category "B2" 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 period of five years & the production should not exceed 92875 m³ of Rough stone & 43815 m³ of Top soil with gravel with an ultimate depth of mining is 30 m BGL. The annual peak production is 18750 m³ of Rough stone (2nd Year) & 16215 m³ of Top soil with gravel.

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	: Thiru. S. Kattupava Mydeen, S/o, Shri. Sulthan, 18-A, Podhu Kovil Street, Sinthupoonthural Post, Tirunelveli - 627 001.
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	: 823/1A (Part) & 824/3B
4	Village in which situated	: Naranammalpuram
5	Taluk in which situated	: Tirunelveli
6	District in which situated	: Tirunelveli
7	Extent of quarry (in ha.)	: 1.18.20 Ha
8	Lease Period of quarrying proposed	: 5 Years
	Mining Plan Validity	: 5 years
9	Type of mining	: Opencast Semi-Mechanized Mining
10	Production (Quantity in m ³)	: The total production should not exceed 92875 m ³ of Rough stone & 43815 m ³ of Top soil with gravel. The annual peak production is 18750 m ³ of Rough stone (2 nd Year) & 16215 m ³ of Top soil with gravel


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11	Latitude & Longitude of all corners of the quarry site	: 08°48'33.2"N to 08°48'36.1"N 77°44'55.9"E to 77°45'00.3"E
12	Topo Sheet No.	: 58-H/13
13	Man Power requirement per day:	: 10 Nos
14	Precise area communication approved by Assistant Director, Department of Geology and Mining with date	: Rc.No.M3/34902/2020, dated: 06.05.2022
15	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Rc.No.M3/34902/2020, dated: 12.05.2022
16	Water requirement:	: 2.0 KLD
	4. Drinking water & domestic purposes (in KLD)	0.75 KLD
	5. Dust Suppression (in KLD)	0.5 KLD
	6. Green Belt (in KLD)	0.75 KLD
17	Power requirement	
	c. Domestic Purpose	: TNEB
	d. Industrial Purpose	: 34092 Liters of HSD
18	Ultimate Depth of quarrying	: 30m bgl
19	Depth of water table	: 55m-50m bgl
20	Whether any habitation within 300m distance	: No
21	Project Cost (excluding EMP cost)	: Rs. 65,49,440/-
22	EMP cost	: Rs. 48,29,854/-
23	CER cost	: Rs. 5,00,000/-
24	Assistant Director, mines 500m cluster letter	: Rc.No.M3/34902/2020, dated: 12.05.2022
25	VAO certificate regarding 300m radius cluster	: Letter furnished

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 92875 m³ of Rough stone & 43815 m³ of Top soil with gravel with an ultimate depth of mining is 30 m BGL. The annual peak production is 18750 m³ of Rough stone (2nd Year) & 16215 m³ of Top soil with gravel subject to the standard conditions as per the Annexure 1 of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan


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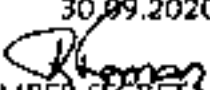
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approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.

2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall inform the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy.
5. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
6. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction, shall install fencing and Garland drain before obtaining the CTO from the TNPCB.
7. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
8. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road within the permissible gradient keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
9. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the working quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEC Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
10. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.

11. Since the Deer Sanctuary is situated closely, the PP shall carry out only one round of controlled blast only per day, restricted to the maximum of 40 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
12. However, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
13. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
14. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
15. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
17. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. 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.


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20.As accepted by the Project proponent the in lieu of CER cost, Rs.5 lakhs and the amount shall be spent for conservation measures in Gangaikondan Wild life sanctuary, before obtaining CTO from TNPCB.

Agenda No: 365-06
(File No: 9697/2022)

Proposed Rough stone & gravel quarry lease over an extent of 1.80.0 Ha at S.F.Nos. 12/1C(p), Naranapuram Village, Palladam Taluk, Tiruppur District, Tamil Nadu by Thiru. S.Muthukaruppasamy - For Environmental Clearance. (SIA/TN/MIN/412096/2022, Dt: 26.12.2022).

The proposal was placed in 365th SEAC meeting held on 25.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).


The SEAC noted the following:

1. The Project Proponent, Thiru. S.Muthukaruppasamy has applied for Environmental Clearance for the Proposed Rough stone & gravel quarry lease over an extent of 1.80.0 Ha at S.F.Nos. 12/1C(p), Naranapuram Village, Palladam Taluk, Tiruppur District, Tamil Nadu
2. The project/activity is covered under Category "B2" 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 period of five years & the production should not exceed 1,28,824m³ of Rough stone with an ultimate depth of mining is 61 m BGL. The annual peak production is 26,430 m³ of Rough stone (5th Year).

Sl. No	Details of the Proposal	:	Data Furnished
1	Name of the Owner/Firm	:	Thiru. S. Muthukaruppasamy, S/o. Subramanian, No.3/26, Aravankadu, Majara Chinnakalipalayam, Iduvai Village, Tiruppur Taluk, Tiruppur District - 641 687.
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	:	12/1C (P)
4	Village in which situated	:	Naranapuram
5	Taluk in which situated	:	Palladam
6	District in which situated	:	Tiruppur


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7	Extent of quarry (in ha.)	: 1.80.0 Ha
8	Lease Period of quarrying	: 5 Years
	Mining Plan period validity	: 5 years
9	Type of mining	: Opencast Mechanized Mining
10	Production (Quantity in m ³)	: The total production should not exceed 1,28,824m ³ of Rough stone. The annual peak production is 26,430 m ³ of Rough stone (5 th Year)
11	Latitude & Longitude of all corners of the quarry site	: 11°03'42.45"N to 11°03'46.70"N 77°17'33.40"E to 77°17'39.39"E
12	Topo Sheet No.	: 58-E/08
13	Man Power requirement per day:	: 18 Nos
14	Precise area communication approved by Assistant Director, Department of Geology and Mining with date	: Na.Ka.794/Kanimam/2021, dated: 26.09.2022
15	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: R.c.No.794/Mines/2021, dated: 14.10.2022
16	Water requirement: 1. Drinking water & domestic purposes (in KLD) 2. Dust Suppression (in KLD) 3. Green Belt (in KLD)	: 1.7 KLD 0.6 KLD 0.6 KLD 0.5 KLD
17	Power requirement a. Domestic Purpose b. Industrial Purpose	: TNEB 103056 Liters of HSD
18	Revised Ultimate Depth of quarrying	: 47m bgl
19	Depth of water table	: 70m-65m bgl
20	Whether any habitation within 300m distance	: No
21	Project Cost (including EMP cost)	: Rs. 59,17,000/-
22	EMP cost	: Capital Cost – Rs. 24,10,000/- Recurring Cost – Rs. 14,50,942/-
23	CER cost	: Rs. 5,00,000/-
24	Assistant Director, mines 500m cluster letter	: R.c.No.794/Mines/2021, dated: 14.10.2022
25	VAO certificate regarding 300m radius cluster	: Letter furnished


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Based on the presentation and documents furnished by the project proponent, SEAC considering the safety aspects to reduce the last 3 benches. The existing & revised plan is as follows

The existing plan

Year wise Development and Production

Table - 6

YEARWISE RESERVES						
Section	Year	Bench	Length (m)	Width (m)	Depth (m)	Recoverable Reserve of Rough Stone (m ³)
XY-AB	I	IX	45	77	4	13860
		X	35	67	5	11725
		Total				25585
	II	IX	68	77	4	20944
		X	15	67	5	5025
		Total				25969
	III	X	53	67	5	17755
		XI	28	57	5	7900
		Total				25725
	IV	XI	65	57	5	18525
		XII	28	47	5	6580
		Total				25105
	V	XII	55	47	5	12925
		XIII	73	37	5	13505
		Total				26430
Grand Total						128824

Revised plan

YEARWISE Reserves								
Section	Year	Bench	Length In (m)	Width In (m)	Depth in (m)	Recoverable Reserve of Roughstone in(m ³)100%	Gravel (m ³)	Gravel (m ³)
XY-EF	I	IX	45	77	4	13860		
		X	35	67	5	11725		
		Total				25585	0	0
II		IX	68	77	4	20944		
		X	15	67	5	5025		
		Total				25969	0	0
III		X	53	67	5	17755		
		XI				0		
		Total				0	0	0
XY-EF	IV	XI				0		
		XII				0		
		Total				0	0	0
V		XII				0		
		XIII				0		

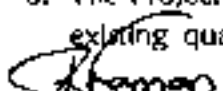
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	Total	0	0	0
	Grand Total	69309	0	0

Accordingly, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 69,309m³ of Rough stone with restricting the ultimate depth of mining to 47 m BGL for ensuring safety of persons employed in the mine after obtaining the consent from the competent person. However, the annual peak production shall not exceed 25969 m³ of Rough stone subject to the standard conditions as per the Annexure 1 of this minutes & normal conditions stipulated by MOEF &CC, In addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall inform the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial / Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Salem (or) Trichy before obtaining the CTO from the TNPCB.
5. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
6. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction, shall install fencing and Garland drain before obtaining the CTO from the TNPCB.
7. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
8. The Project Proponent (PP) shall submit a 'slope stability action plan' for the existing quarry incorporating the haul road within the permissible gradient


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- keeping the benches intact after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
9. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the working quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
 10. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
 11. Since the habitations and hospital are located at 440 m and 700 m respectively, the PP shall carry out only one round of controlled blast only per day, restricted to the maximum of 40 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
 12. However, within six months from the commencement of mining operations after obtaining prior permission from the DMS/Chennai Region, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal and Anna University - CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
 13. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
 14. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR, 1961 and it shall not be carried out by the persons other than the above statutory personnel.

15. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
17. Since the odal is located at 150 m. the PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
18. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
19. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
20. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-1A,111 dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
21. As accepted by the Project proponent the CER cost is Rs.5 lakhs and the amount shall be spent for the Government High School, Iduvai, Tiruppur as committed, before obtaining CTO from TNPCB.

Agenda No.365 – 07.


File No.9656/2022

Proposed Rough Stone Quarry lease over an extent of 3.00.0Ha (Government poramboke Land) S.F.No.106/1(P), Kottaiyur Village, Thuraiyur Taluk, Tiruchimpalli District by Thiru.S.Muthusamy – for Environmental Clearance.

The proposal was placed in 365th SEAC meeting held on 24.03.2023. 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, Thiru.S.Muthusamy has applied for Environmental Clearance for the Proposed Rough Stone Quarry lease over an extent of 3.00.0Ha (Government poramboke Land) S.F.No.106/1(P), Kottaiyur Village,


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Thuraiyur Taluk, Tiruchirapalli 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 precise area communication/lease is issued for the period of 5Years. The approved mining plan is for the period of five years & production should not exceed 276625m³ of Rough Stone, 23416m³ of Weathered rock & 11757m³ of Topsoil and the annual peak production shall not exceed 56180 m³ of Rough Stone & 20752 m³ of Weathered rock. The ultimate depth is 23m BGL.

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	: Thiru.S.Muthusamy, S/o.Sellamuthu. No.137/1, Vinayagar Street, Thuraiyur Taluk, Tiruchirapalli District
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone
3	S.F No. Of the quarry site with area break-up	: 106/1(P)
4	Village in which situated	: Kottaiyur
5	Taluk in which situated	: Thuraiyur
6	District in which situated	: Tiruchirapalli
7	Extent of quarry (In ha.)	: 3.00.0Ha
8	Latitude & Longitude of all corners of the quarry site	: 11°10'12.02"N to 11°10'19.72"N 78°32'03.96"E to 78°32'12.12"E
9	Topo Sheet No.	: 58 - 1/2
10	Type of mining	: Opencast Semi-Mechanized of Mining
11	Lease Period of quarrying	: 5 years
	Mining Plan Period validity	: 5 years
12	Production (Quantity in m ³)	: 276625m ³ of Rough Stone & 23416m ³ of Weathered rock & 11757m ³ of Topsoil
13	Existing depth of quarry	: 4 to 8 m
	Ultimate pit Depth	: 23m BGL
14	Depth of water table	: 58m BGL
15	Man Power requirement per day:	: 23 Nos.
16	Source of Water Requirement	: water vendors

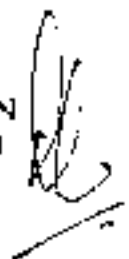
17	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	: 3.0 KLD 1.5 KLD 0.75 KLD 0.75 KLD
18	Power requirement	TNEB
19	Whether any habitation within 300m distance	: No
20	Precise area communication approved by the, District Collector, Department of Geology and Mining with date	: Na.Ka.No.978/2021/Kanimam/R.S-1, dt: 24.08.2022
21	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Roc.No.978/2021/Mines-R.S-1, dt: 31.10.2022
22	Assistant Director, Department of Geology and Mining 500m cluster letter	Roc.No.978/2021/Mines-R.S-1, dt: 31.10.2022
23	VAO certificate regarding 300m radius cluster	Letter dt: 30.11.2022.
24	Project Cost	: Rs.100.10 Lakh
25	EMP cost	: Rs.175.30 Lakhs/ 5 Years
26	CER cost	Rs.5.0 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 276625m³ of Rough Stone, 23416m³ of Weathered rock and the annual peak production shall not exceed 56180 m³ of Rough Stone & 20752 m³ of Weathered rock by restricting the ultimate depth upto 23m BGL and subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.


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3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial & Refresher' training accordingly under Mines Vocational Training Rules 1961 in the DGMS approved Group Vocational Training Centre, Trichy before obtaining the CTO from the TNPCB.
5. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
6. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
7. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
8. The Project Proponent (PP) shall submit a 'Slope stability action plan' for the existing quarry incorporating the haul road within the permissible gradient keeping the benches intact with proper geometry after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
10. Since few structures are located within 500 m from the lease boundary, the PP shall carry out only one round of controlled blast only per day, restricted to the maximum of 40 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
11. However, within six months from the commencement of mining operations after obtaining prior permission from the DMS/Chennai Region, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM,

IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.

12. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
13. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
14. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
15. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry.
16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
17. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. 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.
20. As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the Govt. Adidravitar Elementary School, Kottaiyur Village as committed, before obtaining CTO from TNPCB.


Agenda No.365 – 08.

File No.9670/2022

Proposed Red Earth Quarry lease over an extent of 1.84.0Ha (Patta Land) at S.F.No.94/2H, Vedukanathankuppam Village, Viluppuram Taluk, Viluppuram District by Mr.V.Parasuraman – for Environmental Clearance.


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The proposal was placed in 365th SEAC meeting held on 24.03.2023. 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, Mr.V.Parasuraman has applied for Environmental Clearance for the Proposed Red Earth Quarry lease over an extent of 1.84.0Ha (Patta Land) at S.F.No.94/2H, Vadukanathankuppam Village, Viluppuram Taluk, Viluppuram 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.
3. The precise area communication/lease is issued for the period of 3 Years. The approved mining plan is for the period of 3 Years & production should not exceed 29082 m³ of Red Earth and the annual peak production shall not exceed 9786 Cu.m of Red Earth. The ultimate depth is 2m BGL.

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Mr.V.Parasuraman, S/o.Mr.Veerappan, No.35, Mariyamman Kovil Street, Kallapattu Village, Viluppuram Taluk & District
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Red Earth
3	S.F No. Of the quarry site with area break-up	94/2H
4	Village in which situated	Vadukanathankuppam
5	Taluk in which situated	Viluppuram
6	District in which situated	Viluppuram
7	Extent of quarry (in ha.)	1.84.0Ha
8	Latitude & Longitude of all corners of the quarry site	11°57'13.98"N to 11°57'20.19"N 79°34'31.28"E to 79°34'37.44"E
9	Topo Sheet No.	58 - M/09
10	Type of mining	Opencast Semi-Mechanized of Mining
11	Lease Period of quarrying proposed	3 Years
12	Production (Quantity in m ³)	29082m ³ of Red Earth
13	Ultimate Depth of quarrying	2.0m BGL
14	Depth of water table	25m-20m BGL
15	Man Power requirement per day:	7 Nos.

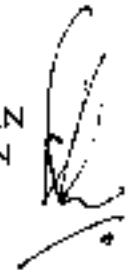
16	Source of Water Requirement	water vendors
17	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD
18	Power requirement a. Domestic Purpose b. Industrial Purpose	TNEB 7760 Liters of HSD
19	Whether any habitation within 300m distance	: No
20	Precise area communication approved by the, District Collector, Department of Geology and Mining with date	: Na.Ka.No.8/G&M/244/2022, dt: 08.11.2022
21	Mining Plan approved by Deputy Director, Department of Geology and Mining with date	: Roc.No.8/G&M/244/2022, dt: 17.11.2022
22	Deputy Director, Department of Geology and Mining 500m cluster letter	: Roc.No.8/G&M/244/2022, dt: 17.11.2022
23	VAO certificate regarding 300m radius cluster	Letter dt: 26.11.2022.
24	Project Cost	: Rs.3.56 Lakh
25	EMP cost	: Rs.10.97 Lakhs/3 Years
26	CER cost	: Rs.2.0 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the period of not more than 3 Years for the production quantity of 29082 m³ of Red Earth and the annual peak production shall not exceed 9786 Cu.m of Red Earth & the ultimate depth of mining upto 2m BGL 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 & other documents as per Industries, Investment Promotion and Commerce Department G.O.(MS)No.244 dt.14.12.2022 before the execution of lease.
2. The proponent shall mandatorily appoint the statutory competent persons accordingly for the proposed quarry size to satisfy the provisions of Mines Act 1952.


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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.
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.
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.


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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. 2 lakhs and the amount shall be spent for the Govt High Secondary School, Koliyanur Village as committed, before obtaining CTO from TNPCB.

Agenda No.365 – 09.

(File No. 9684/2022)

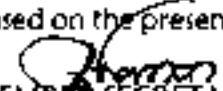
Proposed Rough Stone & Gravel quarry over an extent of 4.21.5 Ha in S.F.Nos. 507 & 508 Therukaraseri Village, Srivaukundam Taluk, Thoothukudi District, Tamil Nadu by Thiru.K Subbaih - for Terms of Reference (SIA/TN/MIN/412134/2022, dated 26.12.2022)

The proposal was placed in 365th SEAC meeting held on 24.03.2023. The details of the project furnished by the proponent are available in the website (parvesh.nic.in).

The SEAC noted the following

1. The Project Proponent, Thiru.K Subbaih has applied for Terms of Reference for the proposed Rough Stone & Gravel quarry over an extent of 4.21.5 Ha in S.F.Nos. 507 & 508 Therukaraseri Village, Srivaukundam Taluk, Thoothukudi 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 period of 5 years & production should not exceed 4,64,760 Cu.m of rough stone & 84,222 cu.m. of Gravel and the annual peak production 93620 cu.m. of Rough Stone(4th Year) & 21945 Cu.m of Gravel (1st year). The ultimate depth - 33 m BGL.

Based on the presentation made by the proponent and considering safety point of view,


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SEAC recommended for grant of Terms of Reference (TOR) with Public Hearing for the production of 4,64,760 Cu.m of rough stone & 84,222 cu.m. of Gravel and the annual peak production 93620 cu.m. of Rough Stone(4th Year) & 21945 Cu.m of Gravel (1st year)and for the period of 5 years with ultimate depth upto 33m, 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. 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.
2. PP shall produce EC compliance report from Competent Authority in the EIA Report for the mining activity already done in the same site.
3. The PP shall include the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
4. Details of opdai(water course), viz nature of odai, origin, category etc.,
5. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, as the depth of the working is extended beyond 30 m below ground level.
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/1 Class mines manager appointed by the proponent.
7. 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.
8. 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,
9. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - a. Quantity of minerals mined out.
 - b. Highest production achieved in any one year
 - c. Detail of approved depth of mining.
 - d. Actual depth of the mining achieved earlier.
 - e. Name of the person already mined in that leases area.


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- f. If EC and CTO already obtained, the copy of the same shall be submitted.
 - g. 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 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,
 13. 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.
 14. 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.
 15. 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.
 16. 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.
 17. 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 air pollution, water pollution, & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.

18. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
19. Issues relating to Mine Safety, Including slope geometry in case of Granite quarrying, blasting parameters etc. should be detailed. The proposed safeguard measures in each case should also be provided.
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. Since non-saleable waste /OB / intermediate waste etc. is huge in the granite quarry, the Proponent shall provide the details pertaining to management of the above material with year wise utilization and average moving inventory be submitted.
23. 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.
24. 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.
25. Impact on local transport infrastructure due to the Project should be indicated.
26. 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.
27. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
28. 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.
29. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
30. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.

31. 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.
32. The recommendation for the issue of "Terms of Reference" is subjected to the outcome of the Hon'ble NGT, Principal Bench, New Delhi in O.A No.186 of 2016 (M.A.No.350/2016) and O.A. No.200/2016 and O.A.No.580/2016 (M.A.No.1182/2016) and O.A.No.102/2017 and O.A.No.404/2016 (M.A.No. 758/2016, M.A.No.920/2016, M.A.No.1122/2016, M.A.No.12/2017 & M.A. No. 843/2017) and O.A.No.405/2016 and O.A.No.520 of 2016 (M.A.No. 981/2016, M.A.No.982/2016 & M.A.No.384/2017).
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-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.
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.
36. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report.
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. 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.365 – 10.

(File No. 9691/2022)

Proposed Rough Stone & Gravel Quarry lease over an extent of 0.89.50Ha at S.F.No.340/1B, 2A, 2B1, 2B2, Kanakkapillaivalasai Village, Sengottai Taluk, Tenkasi District by M.Thirumalai Kumar for Environmental Clearance.(SIA/TN/MIN/412116/2022, dt: 27.12.2022)


The proposal was placed in 365th SEAC meeting held on 24.03.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. Now, the Project Proponent M.Thirumalai Kumar has applied for Environmental Clearance for the proposed Rough Stone & Gravel Quarry lease over an extent of 0.89.50Ha at S.F.No.340/1B, 2A, 2B1, 2B2, Kanakkapillaivalasai Village, Sengottai Taluk, Tenkasi 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 precise area communication/lease is issued for the period of 5Years. The approved mining plan is for the period of five years & production should not exceed 72375m³ of Rough Stone & 27820m³ of Gravel and the annual peak production shall not exceed 26125m³ of Rough Stone (5th Year) & 7800m³ of Gravel (1st Year). The ultimate depth is 29m BGL.


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Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	M.Thinimalai Kumar, S/o.Shri.mMurugaiah, 6-5-1, Vadakast Amman Kovil Theru, Kodikurichi Village, Kadayanallur Taluk, Tenkasi District-627804
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone & Gravel
3	S.F No. Of the quarry site with area break-up	340/TB, 2A, 2B1, 2B2
4	Village in which situated	Kanakkapillaivalasai
5	Taluk in which situated	Sengottai
6	District in which situated	Tenkasi
7	Extent of quarry (in ha.)	0.89.50Ha
8	Latitude & Longitude of all corners of the quarry site	08°59'49.9"N to 08°59'54.0"N 77°15'38.4"E to 77°15'36.1"E
9	Topo Sheet No.	58 - H/5
10	Type of mining	Opencast Semi-Mechanized of Mining
11	Lease Period of quarrying proposed	5 years
	Mining Plan Period Validity	5 years
12	Production (Quantity in m ³)	72375m ³ of Rough Stone & 27820m ³ of Gravel
13	Ultimate Depth of quarrying	29m BGL
14	Depth of water table	50m-45m BGL
15	Man Power requirement per day:	10 Nos.
16	Source of Water Requirement	water vendors
17	Water requirement:	2.5 KLD
	1. Drinking & domestic purposes (in KLD)	1.0 KLD
	2. Dust suppression, Green Belt &Wet Drilling (in KLD)	1.0 KLD 0.5 KLD
18	Power requirement	TNEB
19	Whether any habitation within 300m distance	No

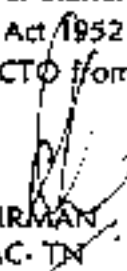
20	Precise area communication approved by the, Joint Director/Assistant Director(i/c), Department of Geology and Mining with date	: Roc.No.M1/27110/2022, dt: 03.11.2022
21	Mining Plan approved by Assistant Geologist / Assistant Director (i/c), Department of Geology and Mining with date	: Rc.No.M1/27110/2022, dt: 02.12.2022
22	Assistant Geologist / Assistant Director (i/c), Department of Geology and Mining 500m cluster letter	Rc.No.M1/27110/2022, dt: 02.12.2022
23	VAO certificate regarding 300m radius cluster	Letter dt: 07.11.2022
24	Project Cost	: Rs.37.68 Lakhs
25	EMP cost	: Rs.89.51 Lakhs/ 5 Years
26	CER cost	Rs.7.0 Lakhs including Rs. 5 Lakhs towards Conservation measures for Nellai Wild Life Sanctuary to DFO, Tirunelveli,

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 72375m³ of Rough Stone & 27820m³ of Gravel and the annual peak production shall not exceed 26125m³ of Rough Stone & 7800m³ of Gravel by restricting the ultimate depth of mining upto 29m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF & CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.


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4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial & Refresher' training accordingly under Mines Vocational Training Rules 1961 in the DGMS approved Group Vocational Training Centre, Pandalgudi (or) Trichy before obtaining the CTO from the TNPCB.
5. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
6. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
7. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
8. The Project Proponent (PP) shall submit a 'Slope stability action plan' for the existing quarry incorporating the haul road within the permissible gradient keeping the benches intact with proper geometry after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
10. Since few structures are located at 600 m from the lease boundary, the PP shall carry out only one round of controlled blast only per day, restricted to the maximum of 40 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
11. However, within six months from the commencement of mining operations after obtaining prior permission from the DMS/Chennai Region, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University - CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA.


MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.

12. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
13. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
14. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
15. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry.
16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
17. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. 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.
20. As accepted by the Project proponent the CER cost is Rs.7 lakhs, in which the amount of Rs. 2 Lakhs shall be spent for the Panchayat Union Primary School, Kanakkapillalvalasal Village as committed and Rs. 5 Lakhs to DFO, Tirunelveli, in regard to conservation measures for Nellai Wild Life Sanctuary before obtaining CTO from TNPCB.

Agenda No. 365- 11.

(File No. 9698/2022)

Proposed Rough Stone Quarry lease over an extent of 1.07.5Ha at S.F.No.69/5, 69/6, 69/7, 69/8, 69/9, 69/10, 69/11 & 69/12A, Perumukkal Village, Marakkanam Taluk, Villupuram District by Tmt.S.Sarasu - for Environmental Clearance. (SI/TN/MIN/412097/2022, dt: 26.12.2022)


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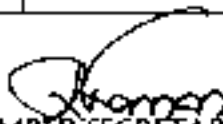

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The proposal was placed in 365th SEAC meeting held on 24.03.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


The SEAC noted the following:

1. Now, the Project Proponent Tmt.S.Sarasu has applied for Environmental Clearance for the proposed Rough Stone Quarry lease over an extent of 1.07.5Ha at S.F.No.69/5, 69/6, 69/7, 69/8, 69/9, 69/10, 69/11 & 69/12A, Perumukkal Village, Marakkanam Taluk, Villupuram 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. Earlier, the proposal vide online SIA/TN/MIN/216622/2021, dt: 24.06.2021 (File No. 8578) was placed in the 267th Meeting of SEAC held on 28.04.2022 and noted that the noted that the Kilsevir reserve Forest is located at a distance of 0.920 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 proposal was placed in the 512th Authority meeting held on 27.05.2022.
4. As per G.O. (Ms.) No. 243 industries, Investment promotion and Commerce (MMC.1) Department dated 14.12.2022. Again, the project proponent, Tmt.S.Sarasu has again applied for Environmental Clearance vide SIA/TN/MIN/412097/2022, dt: 26.12.2022 for the proposed Rough Stone Quarry lease over an extent of 1.07.5Ha at S.F.No.69/5, 69/6, 69/7, 69/8, 69/9, 69/10, 69/11 & 69/12A, Perumukkal Village, Marakkanam Taluk, Villupuram District, Tamil Nadu.
5. The precise area communication/lease is issued for the period of 10 Years. The approved mining plan is for the period of Ten Years & for the 1st five Years production should not exceed 11710m³ of Rough Stone & 19135m³ of Gravel and the annual peak production shall not exceed 2700 m³ of Rough Stone (4th Year) & 8320 m³ of Gravel (3rd Year) and the ultimate depth is 10m BGL. For the 2nd five Years production should not exceed 9775 m³ of Rough Stone and the annual peak production shall not exceed 2200 m³ of Rough Stone (1st Year) and the ultimate depth is 25m BGL.

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Tmt.S.Sarasu. W/o.Selvaraj, No.135, Gopalapuram, Mannarsamy Kovil Street, Manoor Village, Tindivanam Taluk, Villupuram District.


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2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Rough Stone & Gravel
3	S.F No. Of the quarry site with area break-up	:	69/5, 69/6, 69/7, 69/8, 69/9, 69/10, 69/11 & 69/12A
4	Village in which situated	:	Perumukkal
5	Taluk in which situated	:	Marakkanam
6	District in which situated	:	Viluppuram
7	Extent of quarry (in ha.)	:	1.07.5Ha
8	Latitude & Longitude of all corners of the quarry site	:	12°13'18.78"N to 12°13'24.14"N 79°44'04.11"E to 79°44'08.29"E
9	Topo Sheet No.	:	57 - P/12
10	Type of mining	:	Opencast Mechanized of Mining
11	Lease Period of quarrying proposed	:	10 Years
	Mining Plan Period validity	:	10 years
12	Production (Quantity in m ³)	:	21485m ³ of Rough Stone & 19135m ³ of Gravel
13	Ultimate Depth of quarrying	:	25m BGL
14	Depth of water table	:	62m-58m BGL
15	Man Power requirement per day:	:	12 Nos.
16	Source of Water Requirement	:	water vendors
17	Water requirement:	:	2.0 KLD
	3. Drinking & domestic purposes (In KLD)	:	1.0 KLD
	4. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	0.5 KLD 0.5 KLD
18	Power requirement	:	TNEB
	c. Domestic Purpose	:	23364 Liters of HSD
	d. Industrial Purpose	:	
19	Whether any habitation within 300m distance	:	No
20	Precise area communication approved by the, Assistant Director(i/c), Department of Geology and Mining with date	:	Roc.No.B/G&M/223/2022, dt: 02.02.2021
21	Mining Plan approved by Assistant Director (i/c), Department of Geology and Mining with date	:	Roc.No.B/G&M/223/2022, dt: 11.06.2021


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22	Assistant Director(i/c), Department of Geology and Mining 500m cluster letter	Roc.No.B/G&M/223/2022, dt: 11.06.2021
23	VAO certificate regarding 300m radius cluster	Letter dt: 22.03.2021.
24	Project Cost (excluding EMP cost)	: Rs.34.81 Lakh
25	EMP cost	: Rs.178 Lakhs/10 Years
26	CER cost	Rs.5 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 21485m³ of Rough Stone & 19135 m³ of Gravel and the annual peak production shall not exceed 2700 m³ of Rough Stone & 8320 m³ of Gravel by restricting the ultimate depth of mining upto 25m BGL and subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide **MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.**
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial & Refresher' training accordingly under Mines Vocational Training Rules 1961 in the DGMS approved Group Vocational Training Centre, Trichy before obtaining the CTO from the TNPCB.
5. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
6. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone

- of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
7. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
 8. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
 9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry without a prior permission obtained from the Director of Mines Safety, Chennai Region.
 10. Since few habitations are situated from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University - CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DCM and DMS, Chennai as a part of Environmental Compliance.
 11. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
 12. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
 13. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the existing benches properly aligned for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
 14. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG

Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

15. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
16. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry.
17. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
18. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
19. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
20. 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.
21. As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the Panchayat Union Primary School, Ravanapuram Village, Perumukkal (Post), Marakkanam Taluk as committed, before obtaining CTO from TNPCB.

Agenda No: 365-12


(File No: 9657/2022)

Proposed Rough Stone & Gravel lease over an extent of 1.00.0 Ha at S.F.No's: 35/2 (P), Agrahara Periyapalayam Village, Uthukuli Taluk, Tiruppur District, Tamil Nadu by Tmt. K. Subbulakshmi -For Environmental Clearance (SIA/TN/MIN/410939/2022 dt 17.12.2022).


The proposal was placed in this 365th meeting of SEAC held on 24.03.2023. 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. K. Subbulakshmi has applied for Environmental Clearance for the the Proposed Rough Stone & Gravel lease over an extent of 1.00.0 Ha at S.F.No's: 35/2 (P), Agrahara Periyapalayam Village, Uthukuli Taluk,


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Tiruppur 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. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 34,750 m³ of Rough Stone & 13,280 m³ of Gravel. The annual peak production is 6,980 m³ of Rough Stone & 5,440 m³ of Gravel up to a depth of 27m (2m Gravel+25m Rough Stone) BGL.

Based on the presentation and documents furnished by the project proponent, SEAC noted that there are some structures located in the danger zone of the proposed quarry. Hence, the Committee decided to call for certain additional particulars as follows.

- i. The proponent shall enumerate on the details of the structures located within 50m, 100m, 200m, 300m radius from the proposed mine lease area indicating the type of structure/building, usage/purposes of such building commercial/industrial/residential/farm house/Govt. building such as sub-station, occupants of such buildings/structures, ownership of the buildings/structures whether it belongs to the PP (or) not, etc.
- ii. The fugitive studies due to proposed mining activity which may cause impacts like dust, vibration, etc., should be furnished.
- iii. Site map reveals that there is a temple located at 190m (W) from the proposed lease area. Hence, the PP shall furnish details indicating the ownership of temple, details of festival season & average devotee attendance etc.,

On receipt of the above, SEAC would further deliberate on this project and decide the further course of action.

Agenda No: 365-13

(File No: 9664/2022)

Proposed Rough stone, Jelly & Gravel lease over an extent of 1.10.5Ha at SF.Nos. 114/3, 114/4A & 114/4B in Thammanayakkanpatti Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu by Thiru. A. Gengalyan -For Environmental Clearance (SIA/TN/MIN/411565/2022 dt 22.12.2022).

The proposal was placed in this 365th meeting of SEAC held on 24.03.2023. 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, Thiru. A. Gengalyan has applied for Environmental Clearance for the the Proposed Rough stone, Jelly & Gravel lease over an extent of 1.10.5Ha at SF.Nos. 114/3, 114/4A & 114/4B In Thammanayakkanpatti Village, Aruppukottai Taluk, Virudhunagar 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 salient features of the proposed project as follows


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Sl. No	Details of the Proposal	
1.	Name of the Owner/Firm	Thiru. A. Gengaiyan, S/o. Sri. Ayyavu, 3/46, Kathalampatti, Kallumadam Post, Aruppukottai Taluk, Virudhunagar District - 626 118.
2.	Type of quarrying	Rough Stone, Jelly & Gravel Quarry
3.	S.F No. Of the quarry site with area break-up	114/3, 114/4A & 114/4B
4.	Village in which situated	Thammanayakkanpatti
5.	Taluk in which situated	Aruppukottai
6.	District in which situated	Virudhunagar
7.	Extent of quarry (In ha.)	1.10.5Ha
8.	Lease period	5 years
9.	Mining Plan Period Validity	5 Years
10.	Type of mining	Opencast mechanized method of mining
11.	Production (Quantity in m ³)	The total production should not exceed 37,449 m ³ of Rough Stone, 28,971 m ³ of Gravel & 5,414.5 m ³ of Earth.
12.	Annual peak Production (Quantity in m ³)	The annual peak production is 17,874 m ³ of Rough Stone, 7326 m ³ of Gravel & 1428 m ³ of Earth.
13.	Ultimate Depth of quarrying	25m BGL
14.	Depth of water table	45m to 50m
15.	Latitude & Longitude of all corners of the quarry site	9°28'06.6"N to 9°28'11.6"N 78°13'31.0"E to 78°13'29.3"E
16.	Top Sheet No.	58-K/3
17.	Man Power requirement per day:	9 Nos.
18.	Precise area communication approved by the Assistant Director & Geology and Mining with date	NA.KA.KV1/954/2022- Kanimam, Dated:18.10.2022
19.	Mining Plan approved by Assistant Director & Geology and Mining with date	Roc. No. KV1/954/2022-Mines, Dated:05.11.2022
20.	Assistant Director & Geology and Mining, mines 500m cluster letter	Roc. No. KV1/954/2022-Mines, Dated:05.11.2022
21.	VAO certificate regarding 300m radius cluster	Letter dated: 26.10.2022 stating no approved habitation around 300m radius.


22	Water requirement: 1. Drinking & Domestic Water (in KLD) 2. Dust suppression(in KLD) 3. Greenbelt (in KLD)	2.5 KLD 1.0 KLD 1.0 KLD 0.2 KLD
23.	Power requirement e. Domestic Purpose	TNEB -
24.	Project Cost	Rs. 23,80,083/-
25.	EMP cost	Capital cost: Rs.14.68 lakhs Recurring cost: Rs.13.35 lakhs/Annum
26.	CER cost	Rs.5,00,000/- as accepted by the PP

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity exceed 37,449 m³ of Rough Stone, 28,971 m³ of Gravel with maintaining a depth of 25m BGL & annual peak production capacity of 17,874 m³ of Rough Stone, 7326 m³ of Gravel, subject to the standard conditions as per the Annexure 1 of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall furnish an undertaking to maintain 50m safety distance from the project site to the competent authority at the time of lease execution and a copy of the same shall be sent to the SEIAA.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
4. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
5. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial & Refresher' training accordingly under Mines Vocational Training Rules 1961 in the DGMS approved Group Vocational Training Centre, Pandalgudi (or) Trichy before obtaining the CTO from the TNPCB.
6. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the


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commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.

7. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
8. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches with geometry of not exceeding bench height of 6 m and width of not less than 6 m for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
9. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
10. As a part of EC Compliance, the PP shall carry out the tree plantation (2000 nos) to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
11. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
12. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
13. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
14. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions

of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.

15. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
17. The PP shall carry out the comprehensive hydrogeological studies within 2 years from the commencement of the quarrying operation to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
18. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
19. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
20. 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.
21. As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the Panchayat Union Primary School, Kathalampatti Village as committed, before obtaining CTO from TNPCB.


Agenda No: 365-14

(File No: 9685/2021)


Proposed Rough Stone quarry lease over an extent 1.50.0 Ha at S.F.No.106(part-3) Palapatti Village, Vazhappadi Taluk, Salem District, Tamil Nadu by Tmt. S. Sumathi - For Terms of Reference. (SIA/TN/MIN/66919/2022 dated 25.08.2021).

The proposal was placed in this 365th meeting of SEAC held on 24.03.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:


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1. The project proponent, Tmt. S.Sumathi has applied for Terms of Reference for the Proposed Rough Stone quarry lease over an extent 1.50.0 Ha at S.F.No.106(part-3) Patapatti Village, Vazhappadi Taluk, Salem District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 10 years. The mining plan is for 5 years. The production for 5 years not to exceed 3,09,617 cu.m of rough stone & 13000 cu.m of Topsoil up to a depth of 48m (33m AGL & 15m BGL).
4. Earlier, the PP had applied for Environmental clearance under B2 category vide Online Proposal No: SIA/TN/MIN/170896/2020 dated 30.05.2021, SEIAA File No.8571/2021 dated 19.06.2021. Subsequently, the PP withdraw EC proposal stating that our project comes under B1 category. Hence, we have withdrawn.
5. Further, the proponent has resubmitted the same proposal on 25.08.2021 vide online application No. SIA/TN/MIN/66919/2021 (F.No. 8571) with all necessary supporting documents in order to obtain Environmental Clearance. Hence, this proposal was placed in the 345th meeting of SEAC held on 10.01.2023. Based on the presentation and details furnished by the project proponent, **SEAC decided to grant Terms of Reference (TOR) with Public Hearing** subject to the TORs stated therein, 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.
6. Subsequently, this proposal was placed in the 590th meeting of Authority held on 09.02.2023. The Authority noted that SEAC in its 345th meeting held on 10.01.2023 has furnished its recommendation for the grant of ToR for the preparation of EIA. However SEIAA noticed that the PP has already withdrawn the application filed seeking EC (F. No. 8571) and has applied for ToR (F.No 9685) which is under process at SEIAA. Hence the Member Secretary, SEIAA is requested to close and record F. No. 8571 (EC) and to consider F.No 9685(ToR).

Hence, the proposal was placed in this 365th meeting of SEAC held on 24.03.2023. Based on the presentation and details furnished by the project proponent, **SEAC decided to grant 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) 100 m, (ii) 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.

2. The project proponent shall enumerate on the details of Trees. Age of trees & its yield details.
3. **In the case of proposed lease exists in the hilly terrain, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the formation of the benches from top to downwards in the proposed quarry lease including the removal of boulder formed over the sloping face during the time of appraisal for obtaining the EC.**
4. The PP shall submit detailed mitigation measures particularly related to dust pollution with respect to the location of the dwellings and Reserved Forest surrounding the proposed project based on the wind direction during the time of appraisal for obtaining the EC.
5. 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.
6. 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.
7. 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.
- B. 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.
9. 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).
10. The PP shall carry out Drone video survey covering the cluster, Green belt,


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fencing etc.,

11. The PP shall furnish the revised manpower including the statutory & competent persons as required under the provisions of the MMR 1961 for the proposed quarry based on the volume of rock handled & area of excavation.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
19. 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.

20. 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.
21. 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.
22. 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.
23. Impact on local transport infrastructure due to the Project should be indicated.
24. 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.
25. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
26. 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.
27. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
28. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
29. 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.
30. 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.
31. 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


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- 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
32. 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.
 33. 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.
 34. 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.
 35. 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.
 36. 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.
 37. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
 38. 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.
 39. 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.
 40. 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.
 41. 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: 365-15
(File No: 9699/2022)


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Proposed Rough Stone & Gravel lease over an extent of 4.98.0 ha at S.F.No's: 485/2(P) & 486 (P), Nedungulam Village, Sathankulam Taluk, Thoothukudi District, Tamil Nadu by M/s. Krishna Blue Metals -For Environmental Clearance (SIA/TN/MIN/411999/2022 dt 24.12.2022).

The proposal was placed in this 365th meeting of SEAC held on 24.03.2023. 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, M/s. Krishna Blue Metals has applied for Environmental Clearance for the the Proposed Rough Stone & Gravel lease over an extent of 4.98.0 ha at S.F.No's: 485/2(P) & 486 (P) . Nedungulam Village, Sathankulam Taluk, Thoothukudi 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. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 12,09,065 m³ of Rough Stone & 83,910 m³ of gravel. The annual peak production is 2,49,020 m³ of Rough Stone & 30,150 m³ of Gravel. The ultimate depth is 52m BGL (2m Gravel + 50m Rough Stone).


During the appraisal, the SEAC had observed the following:

1. The Solar Panel Power units are situated at a distance of 90 m from the boundary of proposed quarry, i.e., in the **Extremely Sensitive Zone** considering the risk from the flyrock due to indiscriminate blasting operations in the proposed quarry.
2. The proposed quarry is freshly planned in the current location where no other such quarries are in operation and the Solar Panel structure has been installed before the arrival of this quarry proposal.
3. The proposed quarrying operation involving vibration induced blasting operations and dust pollution due to huge excavation & hauling operations may damage the existing solar panel & its structures.
4. Besides, this proposal attracts the following legal implications:
(i). Under the provisions of Tamil Nadu Minor Mineral Concession Rules, 1959, Rule 36 (1-A) (a) says

"...No lease shall be granted for quarrying stone within 300 meters (three hundred meters) from any inhabited site: Provided that the existing quarries which are subsisting under current leases shall be entitled for continuance till the expiry of the lease period. The lessees whose quarries lie within a radius of 300 metres from the inhabited site shall undertake blasting operations only after getting permission of the Director of Mines Safety, Chennai".

Similarly, Rule 36 (1-A) (c) also indicates

"...No new layout, building plans falling within 300 metres from any quarry should be given approval by any agency unless prior clearance of the Director


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of Geology and Mining is obtained. On receipt of proposals for according clearance, the Director of Geology and Mining (DGM) shall decide upon the continuance or closure, as the case may be of any quarry which is situated within 300 metres from the now layout, building sought for such ,clearance....”.

In view of the above reasons, the SEAC decided that not to recommend the proposal for the grant of Environmental Clearance.

Agenda No: 365-16

(File No: 9692/2022)

Proposed Gravel lease over an extent of 4.58.0 Ha at S.F.No's: 1260(P), 1261, 1262 & 1282, Madavakurichi Village, Manur Taluk, Tirunelveli District, Tamil Nadu by Thiru.M.Pethuraj -For Environmental Clearance (SIA/TN/MIN/411144/2022 dt 19.12.2022).

The proposal was placed in this 365th meeting of SEAC held on 24.03.2023. 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, Thiru.M. Pethuraj has applied for Environmental Clearance for the Proposed Gravel lease over an extent of 4.58.0 Ha at S.F.No's: 1260(P), 1261, 1262 & 1282, Madavakurichi Village, Manur Taluk, Tirunelveli 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 salient features of the proposed project as follows

Sl. No	Details of the Proposal	
1.	Name of the Owner/Firm	M.Pethuraj, S/o Muthukutti, No 9 Perumal south street, Thachanallur, Tirunelveli District.
2.	Type of quarrying	Gravel Quarry
3.	S.F No. Of the quarry site with area break-up	1260(P), 1261, 1262& 1282
4.	Village in which situated	Madavakurichi
5.	Taluk in which situated	Manur
6.	District in which situated	Tirunelveli
7.	Extent of quarry (in ha.)	4.58.0 Ha
8.	Lease Period of quarrying proposed	3 Years
9.	Type of mining	Opencast mechanized method of mining
10.	Production (Quantity in m3)	The mining plan is for the period of Three

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		years & production should not exceed 68,206 m ³ of Gravel up to a depth of 2.0m BGL.
11.	Annual peak Production (Quantity in m ³)	The annual peak production is 23020 m ³ of Gravel
12.	Ultimate Depth of quarrying	2.0m BGL
13.	Depth of water table	20m BGL
14.	Latitude & Longitude of all corners of the quarry site	8°48'58.80"N to 8°48'9.68"N 77° 37'52.82"E to 77°38'1.54"E
15.	Top Sheet No.	58-H/09
16.	Man Power requirement per day:	17 Nos.
17.	Precise area communication approved by the Joint Director, Assistant Director(i/c) & Geology and Mining with date	Rc.No.M2/661/2021 Dated:21.11.2022
18.	Mining Plan approved by Joint Director, Assistant Director(i/c) & Geology and Mining with date	Rc.No.M2/661/2021 Dated:07.12.2022
19.	Joint Director, Assistant Director(i/c) & Geology and Mining, mines 500m cluster letter	Rc.No.M2/661/2021 Dated:07.12.2022
20.	VAO certificate regarding 300m radius cluster	Letter dated: 24.12.2022
21.	Water requirement: 4. Drinking & Domestic Water (in KLD) 5. Dust suppression(in KLD) 6. Greenbelt (In KLD)	3.0 KLD 1.0 KLD 1.0KLD 1.0 KLD
22.	Power requirement f. Domestic Purpose	TNEB -
23.	Project Cost	Rs.86 lakhs
24.	EMP cost	Rs.6.96lakhs
25.	CFR cost	Rs.4,00,000/- as accepted by the PP

Based on the presentation made by the proponent and the documents, SEAC decided to recommend the proposal for the grant of Environmental Clearance for quantity of 68,206 m³ of Gravel for the period of 3 years with maintaining an ultimate pit depth of not more than 2m BGL, subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


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1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. The PP shall furnish revised mine closure plan before obtaining the CTO from TNPCB.
3. Tree plantation & fencing around the mine lease area shall be completed before starting the production.
4. 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.
5. 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.
6. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
7. 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.
8. The reject/waste generated during the mining operations shall be slacked 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.
9. 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.
10. 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.

11. 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.
12. 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.
13. 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. 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.
14. 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
15. **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.
16. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
17. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50m 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.
18. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
19. 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


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- 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.
20. 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.
 21. 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.
 22. 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.
 23. 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.
 24. 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.
 25. 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 (TNPCCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
 26. 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.
 27. 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.
 28. 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.
 29. 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 Minutes.

30. 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.

31. As accepted by the Project proponent the CER cost is Rs. 4.0 lakhs and the amount shall be spent for the committed activities in the Government school, Madavakurichi Village, as committed, before obtaining CTO from TNPCB.

Agenda No: 365-17

File No: 9651/2022

Proposed Gravel quarry lease over an extent of 3.48.65 Ha in S.F.Nos. 278/2B, 278/2C, 279/1A & 280/4A, Vaniyangudi Village, Kalaiyarkovil Taluk, Sivagangai District, Tamil Nadu by Thiru. K.Sivasubramanian- For Environmental Clearance. (SIA/TN/MIN/410802/2022 Dated: 15.12.2022)

The proposal was placed for appraisal in this 365th meeting of SEAC held on 23.03.2023. 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. K.Sivasubramanian has applied seeking Environmental Clearance for the proposed Gravel quarry lease over an extent of 3.48.65 Ha in S.F.Nos. 278/2B, 278/2C, 279/1A & 280/4A, Vaniyangudi Village, Kalaiyarkovil Taluk, Sivagangai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item I(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended.

Sl. No.	Details of the Proposal	
1.	Name of the Owner / Firm	Thiru. K.Sivasubramanian, S/o. Karuppanchetty, No. 278/R1, Kumanan Street, Pari Nagar, Alagappapuram, Karaikudi, Sivagangai District - 630 003
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Gravel
3.	S.F No. of the quarry site	278/2B, 278/2C, 279/1A & 280/4A
4.	Village	Vanियangudi
5.	Taluk	Kalaiyarkovil
6.	District	Sivagangai
7.	Extent of Quarry (in ha.)	3.48.65 Ha -Patta land
8.	Period of Quarrying proposed:	One Year


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	Lease Period:	
9.	Type of Mining	Conventional mechanized quarrying operation without drilling and blasting
10.	Production (Quantity in m ³)	As per the approved mining plan, Geological Resources: Rough Stone - 69,730 m ³ of Gravel to an ultimate depth of 2m BGL One Year production: 52,800m ³ of Gravel
11.	Ultimate Depth of Mining	2m BGL
12.	Latitude & Longitude of all corners of the quarry site	09°54'11.33"N to 09°54'19.08"N 78°35'12.61"E to 78°35'22.09"E
13.	Topo sheet No.	5B - K/ 09
14.	Man power requirement	10 Nos
15.	Precise Area Communication	Rc.No.M1/117/2022, Dated: 29.06.2022
16.	Mining plan approval letter	Rc.No. M1/117/2022 Dated: 21.11.2022
17.	500m letter	Rc.No.117/Mines/2022 Dated: 21.11.2022
18.	Water requirement: 1. Drinking & domestic purposed (in kLD) 2. Dust Suppression (in kLD) & Green Belt (in kLD)	1.5 kLD 0.3 kLD 0.7 kLD & 0.5 kLD
19.	Power requirement: a. Domestic purpose b. Industrial Purpose	TNEB DC set
20.	Depth of Water table	42m - 47m
21.	Whether any habitation within 300m distance	Nil
22.	Project cost	Rs. 22,21,000/-
23.	EMP cost	Capital cost: Rs. 15,300.30/- Recurring cost/Annum: Rs. 6,12,068/-
24.	CER cost	Rs. 2,00,000/-
25.	VAO letter dated	Dated: Nil

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 52,800m³ Gravel to an ultimate depth of not more than



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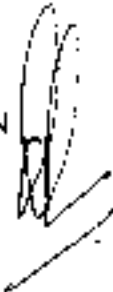


2m subject to the standard conditions & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952.
3. The Project Proponent shall develop the Green belt activities (tree plantations) in the safety zone as stipulated in the Mining Plan around the periphery of the proposed quarry lease before obtaining the CTO from the TNPCB.
4. The Project Proponent shall not carry out the blasting operations in the proposed quarry.
5. The Project Proponent shall carry out the comprehensive tree plantation (two to three rows) along the boundary of the quarrying site considering the wind direction to act as a barrier to reduce noise level and dust pollution directing the surrounding farm lands before obtaining the CTO from the TNPCB.
6. The PP shall ensure that the transport vehicles used in the quarry are adequately covered with tarpaulin before it is allowed to enter into the adjacent village panchayat road.
7. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
8. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
9. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.


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10. 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.

11. As accepted by the Project proponent the CER cost is Rs. 2.0 lakh and the amount shall be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.

Agenda No: 365-18

File No: 9658/2022

Proposed Rough Stone and Gravel quarry lease over an extent of 4.26.5ha in S.F.Nos. 300/1, 300/2B & 300/2C Naduvakurichi Major Village, Sankarankovil Taluk, Tenkasi District, Tamil Nadu by Thiru. D.S. Ramadoss- For Environmental Clearance. (SIA/TN/MIN/411289/2022 Dated: 20.12.2022)

The proposal was placed for appraisal in this 365th meeting of SEAC held on 23.03.2023. 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. D.S. Ramadoss has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease over an extent of 4.26.5 Ha in S.F.Nos. 300/1, 300/2B & 300/2C Naduvakurichi Major Village, Sankarankovil Taluk, Tenkasi District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended.

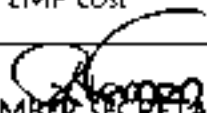
Sl. No.	Details of the Proposal	
1.	Name of the Owner / Firm	Thiru. D.S. Ramadoss, S/o. M.D. Sundarajan, Old No. 2/22F, New No. 1152, P.K.N. Road, Sivakasi, Virudhunagar District - 626 189
2.	Type of quarrying (Rough stone / Sand / Granite)	Rough Stone and Gravel
3.	S.F No. of the quarry site	300/1, 300/2B & 300/2C
4.	Village	Naduvakurichi Major
5.	Taluk	Sankarankovil
6.	District	Tenkasi
7.	Extent of Quarry (in ha.)	4.26.5Ha - Patta land
8.	Period of Quarrying proposed: Lease Period:	10 Years 10 Years


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9.	Type of Mining	Open cast mechanized method
10.	Production (Quantity in m ³)	As per the approved mining plan, Geological Resources: Rough Stone - 16,20,700m ³ and Gravel - 85,300 m ³ to an ultimate depth of 40m BGL First 5-Year production: Rough Stone - 2,84,051 m ³ and Gravel - 56,716m ³ The annual peak production as per mining plan is 59,061 m ³ of Rough Stone Second 5-Year production: Rough Stone - 2,76,503 m ³ The annual peak production as per mining plan is 63,440 m ³ of Rough Stone
11.	Ultimate Depth of Mining	40m BGL
12.	Latitude & Longitude of all corners of the quarry site	09°06'16.35"N to 09°06'28.42"N 77°29'53.90"E to 77°30'01.09"E
13.	Topo sheet No.	58 G/08 and 58 G/12
14.	Man power requirement	34 Nos
15.	Precise Area Communication	Rc.No. M1/53129/2015, Dated: 22.08.2022
16.	Mining plan approval letter	Rc.No. M1/53129/2015 Dated: 11.10.2022
17.	500m letter	Rc.No. M1/53129/2015 Dated: 02.11.2022
18.	Water requirement: 3. Drinking & domestic purposed (in kLD) 4. Dust Suppression (in kLD) & Green Belt (In kLD)	2.0 kLD 1.0 kLD 1.0 kLD
19.	Power requirement: c. Domestic purpose d. Industrial Purpose	TNEB DC set
20.	Depth of Water table	52m -57m
21.	Whether any habltation within 300m distance	Nil as per VAO letter
22.	Project cost	Rs. 1,42,10,000/-
23.	EMP cost	Capital cost: Rs.36,76,550/-


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		Recurring cost/Annum: Rs. 27,400,70/-
24.	CER cost	Rs. 5,00,000/-
25.	Tahsilidar letter dated	03.01.2019


Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total production quantity of Rough Stone – 5,60,554 m³ and Gravel – 56,716m³ in the first 5-year period and Rough Stone – 2,76,503 m³ in the second 5-year period but however not exceeding the annual peak production of 63,440 m³ of Rough Stone by maintaining an ultimate pit depth of 40m as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial/Refresher' training accordingly under Mines Vocational Training Rules 1961 in the DGMS Approved Group Vocational Training Centre, Pandalgudi (or) Trichy before obtaining the CTO from TNPCB.
4. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.
5. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in the quarries of this cluster site collectively if amalgamation is done and when the depth of the working touches 30 m (or) during the 4th year whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.

6. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
7. The PP shall carry out the comprehensive hydrogeological studies within 2 years from the commencement of the quarrying operation to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
8. The Project Proponent shall not carry out the secondary rock breakage involving blasting operations and use only the non-explosive techniques such as rock breakers, etc.
9. The Project Proponent shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
10. The Project Proponent shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
11. The Project Proponent shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.
12. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
13. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.


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14. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
17. 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.
18. As accepted by the Project proponent the CER cost is Rs. 5.0 lakh and to be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.

Agenda No: 365-19

(File No: 9667/2022)

Proposed Rough Stone & Gravel quarry Lease over an extent of 1.00.0 Ha at S.F.No. 400/2 (Part) in Appipalayam Village, Manmangalam Taluk, Karur District, Tamil Nadu by Mrs.S.Vijayalakshmi – For Environmental Clearance (SIA/TN/MIN/410425/2022 dated 20.12.2022)

The proposal is placed for appraisal in this 365th SEAC meeting held on 24.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

SEAC noted the following:

1. The Project Proponent, **Mrs.S.Vijayalakshmi** has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry Lease over an extent of 1.00.0 Ha at S.F.No. 400/2 (Part) in Appipalayam Village, Manmangalam Taluk, Karur District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the project are as follows:

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Mrs.S. Vijayalakshmi W/o. Mr. Subramanian, D.No. 303, Aadhi Apartment, Anna Nagar West, Andankovil East, Karur District – 639 002.


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2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone and Gravel Quarry
3	S.F No. Of the quarry site with area break-up	400/2 (part)
4	Village in which situated	Appalalayam
5	Taluk in which situated	Manmangalam
6	District in which situated	Karur
7	Extent of quarry (in ha.)	1.00.0 Ha
8	Latitude & Longitude of all corners of the quarry site	10°55'14.75"N to 10°55'18.70"N 78°1'56.74"E to 78°2'03.40"E
9	Topo Sheet No.	58J/01
10	Type of mining	Opencast Semi-Mechanized Mining
11	Lease Period of quarrying proposed	10 years
	Mining Plan validity period	5 years
12	Production (Quantity in m ³)	21627m ³ of rough stone & 14418m ³ of gravel
13	Ultimate Depth of Quarry	15m below ground level
14	Depth of water table	55m - 60m
15	Man Power requirement per day:	18 Nos.
16	Water requirement:	4.75 KLD
	1. Drinking water	0.75 KLD
	2. Utilized Water	1.5 KLD
	3. Dust suppression	1.5 KLD
	4. Green Belt	1.0 KLD
17	Power requirement	19696 liters of HSD for Five Years
18	Precise area communication approved by Deputy Director, Dept. of Geology & Mining with date	Rc.No.523/Mines/2021 Dated: 11.11.2022.
19	Mining Plan approved by the Deputy Director, Dept. of Geology and Mining with date	Rc.No.523/Mines/2021 Dated: 02.12.2022.
20	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining with date	Rc.No.523/Mines/2021 Dated: 05.12.2022.
21	VAO certificate regarding habitations in 300m radius	Letter dated: 20.12.2022.


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22	Project Cost (excluding EMP)	Rs.21,00,000/-
23	EMP cost	Capital Cost: Rs. 4,07,000/- Recurring Cost: Rs.2,68,000/-


4. A penalty of Rs.11,85,600/- was levied on the project proponent by the Dept. of Geology & Mining for carrying out illegal quarrying operations without obtaining any prior permission/ approval. The proponent has paid the penalty imposed.
5. From the KML file, it was ascertained that the quarrying operations were carried out by the proponent before Dec 2015 and the penalty levied has been paid accordingly by the PP. Therefore, it is ascertained that the proponent had not violated the provisions of EIA Notification 2006, as amended.

In view of the above, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the total production quantity of 21,627m³ of rough stone & 14,418m³ of gravel with annual peak production capacity not exceeding 5103m³ of rough stone for ultimate depth of 5m below ground level subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC. in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. 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.
3. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial/Refresher' training accordingly under Mines Vocational Training Rules 1961 in the DGMS Approved Group Vocational Training Centre, Trichy (or) Salem before obtaining the CTO from TNPCB.
4. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient, before obtaining CTO from TNPCB.
5. The PP shall carry out the quarrying operations from the top to downwards in the hillock by maintaining proper benches with adequate width & height and proper haul road possessing the gradient as permitted by the Director of Mines Safety, Chennai Region.


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6. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
7. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGM5 Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
8. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
9. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
10. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
11. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-1A.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
12. As accepted by the Project proponent the CER cost is Rs. 3 lakhs and the amount shall be spent towards the Panchayat Union Middle School, Sukkaliyur Village for the following activities as committed, before obtaining CTO from TNPCB.

S.NO	CER Activity	CER Cost INR
1	Painting for buildings	20,000/-
2	Compound wall	1,50,000/-
3	Library - Smart TV class room to learn from kalvi channel videos	30,000/-
4	Toilet facilities	1,00,000/-
Total		Rs.3,00,000/-

Agenda No: 365-20

File No: 9700/2022

Proposed Rough Stone and Gravel quarry lease over an extent of 2.00.0Ha of Government land in S.F.No. 1(Part - 2) of Mekalanayakanahalli Village, Pappireddipatti Taluk, Dharmapuri District, Tamil Nadu by Tvl. Golden Blue Metals- For Environmental Clearance. (SIA/TN/MIN/412470/2022 Dated: 28.12.2022)


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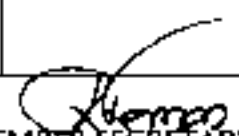

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The proposal was placed for appraisal in this 365th meeting of SEAC held on 23.03.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).


The SEAC noted the following:

1. The project proponent, Tvl. Golden Blue Metals has applied seeking Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease over an extent of 2.00.0ha of Government land in S.F.No. 1(Part - 2) of Mekalanayakanahalli Village, Pappireddipatti Taluk, Dharmapuri District.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended.

Sl. No.	Details of the Proposal	
1.	Name of the Owner / Firm	Tvl. Golden Blue Metals, Thadanur Pudur Road, Mekalanayakanahalli Village, Ramiyanahalli Post, Pappireddipatti Taluk, Dharmapuri District - 635 302
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough Stone and Gravel
3.	S.F. No. of the quarry site	1(Part - 2)
4.	Village	Mekalanayakanahalli
5.	Taluk	Pappireddipatti
6.	District	Dharmapuri
7.	Extent of Quarry (in ha.)	2.00.0ha of Government land
8.	Lease Period:	10 years
9.	Approved Mining Plan Validity	10 years
10.	Type of Mining	Open cast mechanized method
11.	Production (Quantity in m ³)	As per the approved mining plan. Geological Resources: Rough Stone - 8,91,955m ³ to an ultimate depth of 74.5m 5-Year production: Rough Stone - 1.28.165 m ³


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		The annual peak production as per mining plan is 34,515 m ³ of Rough Stone
12.	Ultimate Depth of Mining	69.5m (2m Topsoil + 67.5m Rough stone) [57.5m AGL + 12m BGL]
13.	Latitude & Longitude of all corners of the quarry site	12°01'20.33"N to 12°01'24.12"N 78°21'51.10"E to 78°21'59.75"E
14.	Topo sheet No.	57 - L/08
15.	Man power requirement	19 Nos
16.	Precise Area Communication	Rc.No.169/2019 (Mines), Dated: 06.01.2020
17.	Mining plan approval letter	Roc.No.169/2019 (Mines), Dated: 25.02.2020
18.	500m letter	Roc.No.169/2019 (Mines), Dated: 25.02.2020
19.	Water requirement:	6.9 kLD
	5. Drinking & domestic purposed (in kLD)	0.6 kLD
	6. Dust Suppression (in kLD) & Green Belt (in kLD)	5.4 kLD & 0.9kLD
20.	Power requirement:	
	e. Domestic purpose	TNEB
	f. Industrial Purpose	DG set
21.	Depth of Water table	60m -65m
22.	Whether any habltation within 300m distance	Nil as per VAO letter
23.	Project cost	Rs.1,09,59,200/-
24.	EMP cost	Capital cost: Rs. 25,25,000/- Recurring cost/Annum: Rs. 14,63,729/-
25.	CER cost	Rs.5,00,000/-
26.	VAO letter dated	05.03.2020

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a production quantity of Rough Stone – 1,28,165 m³ to a depth of 69.5m and however the annual peak production shall not exceed 34,515 m³ of Rough Stone by maintaining an ultimate pit depth of 69.5m [57.5m AGL + 12m BGL] as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- I. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time.


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subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.

2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial/Refresher' training accordingly under Mines Vocational Training Rules 1961 in the DGMS Approved Group Vocational Training Centre, Trichy (or) Salem before obtaining the CTO from TNPCB.
4. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working from top to downwards in the hilly terrain by maintaining appropriate benches incorporating the haul road with proper gradient and mitigating measures while removing the embedded boulders, before obtaining CTO from TNPCB.
5. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in all the quarries of this cluster site collectively if amalgamation is done and when the depth of the working touches 30 m (or) during the 3rd year whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
6. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the quarry on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
7. The Project Proponent shall not carry out the secondary rock breakage involving blasting operations and use only the non-explosive techniques such as rock breakers, etc.
8. The Project Proponent shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other

habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.

9. The Project Proponent shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
10. The Project Proponent shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR [96].
11. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
12. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
13. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
14. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and Its Integrated Regional Office (IRO) located in Chennai.
15. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
16. 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.
17. As accepted by the Project proponent the CER cost is Rs. 5.0 lakh and to be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.


Agenda No. 365 - 21

(File No. 9659/2022)

Proposed Rough Stone and Gravel quarry over an extent of 0.90.0 Ha in S.F.No. 622/3(P), 622/4 & 622/5 of Pullyoorsalai Village, Vilavancode Taluk, Kanniyakumari District, Tamil Nadu by Thiru. T. N. Rajakumaran for Environmental Clearance.

(SIA/TN/MIN/411450/2022, dated: 21.12.2022)

The proposal was placed in this 365th Meeting of SEAC held on 24.08.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


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The SEAC noted the following:

1. The project proponent, Thiru. T. N. Rajakumaran has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry over an extent of 0.90.0 Ha in S.F.No. 622/3(P), 622/4 & 622/5 of Puliyoorasalai Village, Vilavancode Taluk, Kanniyakumari District, Tamil Nadu
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. The PP had obtained EC earlier vide Lr. No. SEIAA-TN/F.No.2904/EC/1(a)/2307/2015 dated: 27.10.2015.
4. As per mining plan, the lease period is 5 years. The mining plan is for 5 years & production should not exceed 44,915cu.m. of Rough Stone and 950cu.m of Gravel. The annual peak production 9,635cu.m. of Rough Stone (1st year) & 950cu.m of Gravel (1st Year). The maximum depth of mining would be 56m (41m AGL + 15m BGL).

During the presentation, the SEAC had observed the following:

1. As per the earlier issued EC vide Lr. No. SEIAA-TN/F.No.2904/EC/1(a)/2307/2015 dated: 27.10.2015, the PP stated that
 - i. PP has not obtained NBWL clearance before starting quarrying activity.
 - ii. PP has not obtained Consent to Operate from Tamil Nadu Pollution Control Board before starting quarrying activity.
 - iii. PP has not obtained Certified Compliance Report for the earlier issued EC dated: 27.10.2015 from Integrated Regional Office (IRO), MoEF&CC.
2. The PP had not operated the quarrying operation systematically and scientifically posing danger situation now.
3. The proposed quarry site is located in an ecologically sensitive area of Western Ghats and is surrounded by thick vegetation.
4. Further, the proposed mine lease area is located in the top of a hill which acts as a watershed which will in turn have implications on the contribution of surface runoff.
5. The proposed site is at a distance of approximately 6.2 km from Kanniyakumari Wildlife Sanctuary.

Based on the documents and presentation made by the proponent, SEAC after detailed discussions decided not to recommend this project proposal considering that the site is located in an ecologically rich area with rich vegetation and depletion of fertile topsoil will lead to environmental degradation to flora and fauna in and around the area.


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Agenda No. 365 - 22

(File No. 9687/2022)

Proposed Rough Stone and Gravel quarry over an extent of 3.08.0 Ha in S.F.No. 178/1B(P), 178/2A2(P), 178/2B(P), 179/3B(P) & 179/4B(P) of Ottapidaram Village, Ottapidaram Taluk, Thoothukudi District, Tamil Nadu by Thiru S. Pachaimal for Environmental Clearance. (SIA/TN/MIN/411892/2022, dated: 23.12.2022)

The proposal was placed in this 365th Meeting of SEAC held on 24.03.2023. 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 S. Pachaimal has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry over an extent of 3.08.0 Ha in S.F.No. 178/1B(P), 178/2A2(P), 178/2B(P), 179/3B(P) & 179/4B(P) of Ottapidaram Village, Ottapidaram Taluk, Thoothukudi District, Tamil Nadu
2. The project/activity is covered under Category "B2" of Item I(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 5 years & production should not exceed 4,24,435cu.m. of Rough Stone and 17,278cu.m of Gravel. The annual peak production 87,270cu.m. of Rough Stone. The maximum depth of mining would be 40m BGL.

Based on the presentation and document furnished by the proponent, SEAC decided to call for additional details

1. There is a windmill installed at a distance of 90 m from the proposed mine lease area after the commencement of quarrying operations as per precise area communication letter issued vide Rc.G.MI/472/2016 Dated: 21.07.2022 and solar power plant located at a distance of 400m approximately as ascertained from the KML file uploaded by the proponent in Parivesh Portal.
Hence, the proponent is requested to carry out blast-induced vibration study & flyrock travel range distance and simulate the effects of blasting considering the structures (including windmill & solar panel) located at a distance of 50m, 100m, 200m, 300m and 500m from the proposed mine lease area, by involving any of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus and submit the report.

On receipt of the aforesaid details, the proposal will be considered for further deliberations.

Agenda No. 365 - 23

(File No. 9694/2022)


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Proposed Rough Stone and Gravel quarry over an extent of 2.29.5 Ha in S.F.No. 271/6, 272/2(P), 272/3 & 272/4(P) of Thoppampalayam Village, Sathyamangalam Taluk, Erode District, Tamil Nadu by Thiru. N. Thangavel - for Environmental Clearance. (SIA/TN/MIN/4121322/2022, dated: 26.12.2022)

The proposal was placed in this 365th Meeting of SEAC held on 24.03.2023. 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. N. Thangavel has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry over an extent of 2.29.5 Ha in S.F.No. 271/6, 272/2(P), 272/3 & 272/4(P) of Thoppampalayam Village, Sathyamangalam Taluk, Erode District, Tamil Nadu
2. The project/activity is covered under Category "B2" of Item 1(b) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

Now, the proposal was placed in this 365th meeting of SEAC held on 24.03.2023. During the presentation, the SEAC had observed the following:

1. The proposed quarry site is located in an ecologically sensitive area of Bhavani Sagar Reservoir and is located adjacent to the Velamundi RF.
2. The proposed quarry was earlier operated in three spells (i.e., 1996 to 1999, 1999 to 2004, 2009 to 2014) and the existing depth of the quarry is 15 m below ground level.
3. The Quarry operations were stopped due to the requirements of NBWL Clearance from 2014.
4. Due to existence of R.F at 113 m, the quarry was not opened from 2021 even though the final Notification Issued on Sathyamangalam Tiger Reserve due to the existence of TN G.O on protection of R.F within 1 km from the quarry sites.
5. The Quarry was operated earlier with the conventional drilling & blasting activities and a scientific study was carried out by the Department of Mining Engineering, Anna University Chennai as per the direction of the District Collector in 2011 to determine the impact of blasting operations in the cluster of mines situated within 10 km distance from the Bhavani Sagar Dam structure & embankment and it was recommended to carry out the blasting operations with the prescribed maximum charge per delay in every round under the direct supervision of statutory competent person appointed under the provisions of MMR 1961.
6. Accordingly, the quarry was in operation involving the blasting operation as the District Collector had granted the permission with stipulating the recommendations of the aforesaid scientific studies as the conditions to be followed scrupulously.


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7. However, as per the KML file uploaded by the proponent in online through Parivesh portal, It is ascertained that,

- i. The quarrying operations are proposed at a distance of 300 m from the catchment area of the Bhavani Sagar Reservoir in the Upstream Side.
- ii. The existing quarry is located at a distance of 3.8 Km from the Bhavani Sagar Dam structure in the upstream side.
- iii. The existing quarry is situated at a distance of 5.32 Km approximately from the highly protected Sathyamangalam Tiger Reserve.
- iv. The starting point of embankment structure of Bhavani Sagar Dam is located at a distance of 879m only from proposed mine lease area.

Based on the above facts, SEAC after detailed discussion and taking into consideration the safety of Bhavani Sagar Dam Structure and environmental setting of the site (Tiger Reserve) decided not to recommend this project proposal.

Agenda No: 365-24

(File No: 9660/2022)

Proposed Rough Stone & Gravel quarry Lease over an extent of 1.61.0 Ha at S.F.No. 1126 & 1127/2 in Kunnur Village, Andipatti Taluk, Theni District, Tamil Nadu by Thiru.V.Venkatasamy – For Environmental Clearance (SI/TN/MIN/410302/2022 dated 13.12.2022)

The proposal is placed for appraisal in this 365th SEAC meeting held on 24.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

SEAC noted the following:

1. The Project Proponent, Thiru.V.Venkatasamy has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry Lease over an extent of 1.61.0 Ha at S.F.No. 1126 & 1127/2 in Kunnur Village, Andipatti Taluk, Theni District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the project are as follows:

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru. V. Venkatasamy, S/o. Velappanaickar, Nagalapuram, Sriengapuram Post.


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		Theni Taluk & District.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone and Gravel Quarry
3	S.F No. Of the quarry site with area break-up	1126 and 1127/2
4	Village in which situated	Kunnur
5	Taluk in which situated	Andipatti
6	District in which situated	Theni
7	Extent of quarry (in ha.)	1.61.0ha
8	Latitude & Longitude of all corners of the quarry site	09°56'56.21"N to 09°57'02.33"N 77°31'10.33"E to 77°31'13.82"E
9	Topo Sheet No.	58G/09
10	Type of mining	Opencast Semi-Mechanized Mining
11	Lease Period of quarrying proposed	5 years
12	Production (Quantity in m ³)	Rough Stone – 1,11,813 m ³ Gravel – 11,732 m ³
13	Depth of Quarry	32m below Ground Level
14	Depth of water table	58m BGL
15	Man Power requirement per day:	20 Nos.
16	Water requirement:	2 KLD
	5. Drinking water	1 KLD
	6. Dust suppression	0.5 KLD
	7. Green Belt	0.5 KLD
17	Power requirement	91,416 litres of HSD for the entire project life
18	Precise area communication approved by Assistant Director, Dept. of Geology & Mining with date	Rc.No.769/Kanimam/2021 Dated: 26.08.2022.
19	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	Roc.No.769/2021- Mines, Dated: 10.11.2022.
20	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	Roc.No.769/2022- Mines, Dated: 11.11.2022.


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21	VAO certificate regarding habitations in 300m radius	Letter dated: 15.09.2022
22	Project Cost (excluding EMP)	Rs. 54,16,000/-
23	EMP cost	Capital Cost: Rs. 9,47,700/- Recurring Cost: Rs.8,85,020/- Total for 5 years: Rs.58,37,994/-

The Committee, taking into consideration the safety aspects, decided to recommend the proposal for the grant of Environmental Clearance for the revised bench height and revised quantity as follows:


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Yearwise Production as per Approved Mining Plan							Revised Mineable Reserves								
Year (position)	Bench	Length in (m)	Width in (m)	Depth in (m)	Volume in m ³	Gravel in m ³	Mineable reserve of Rough stone in m ³	Bench	Length in (m)	Width in (m)	Depth in (m)	Volume in m ³	Gravel in m ³	Mineable reserve of Rough stone in m ³	
I	XY-AB	I	50	8 3	2	8300	8300	18480	I	50	8 3	2	8300	8300	18480
		II	48	7 7	5	18480			II	48	7 7	5	18480		
	XY-EF	I	10	8 8	2	1320	1320	2900	I	10	8 8	2	1320	1320	
		II	10	5 8	5	2900			II	10	5 8	5	2900		
Total						8620	21380	TOTAL						8620	21380
II	XY-FF	I	16	8 8	2	2112	2112	4060	I	16	8 8	2	2112	2112	4060
		II	14	5 8	5	4060			II	14	5 8	5	4060		
		III	18	4 5	5	4050			III	18	4 5	5	4050		
	XY-AB	III	41	8 4	5	13120		III	41	8 4	5	13120			
		IV	7	5 1	5	1785		IV	7	5 1	5	1785			
		Total						2112	23015	TOTAL					
III	XY-AB	IV	28	3 1	5	7140		IV	28	3 1	5	7140		7140	
	XY-CD	IV	78	5 7	3	13338		IV	78	5 7	3	13338		13338	
	XY-EF	IV	11	3 2	5	1760		IV	11	3 2	5	1760		1760	
Total							22238	TOTAL							22238
IV	XY-FF	V	5	1 9	5	475		V	5	1 9	5	475		475	
	XY-CD	V	78	4 4	5	17160		V	78	4 4	5	17160		17160	
	XY-AB	V	29	3 8	5	5510		V	29	3 8	5	5510		5510	
Total							23145	TOTAL							23145
V	XY-AB	VI	22	2 3	5	2750		VI	22	2 3	5	2750		2750	
		VII	16	1 2	5	860		VII	16	1 2	5	860		860	
	XY-CD	VI	77	3 1	5	11935		VI	77	3 1	5	11935		11935	
		VII	71	1 8	5	6380		VII	71	1 8	5	6380		6380	
Total							22035	TOTAL							15585
Grand Total						11732	111813	GRAND TOTAL						11732	106363

As per the revised mining plan, the production quantity is 1,05,363m³ of rough stone and 11,732m³ of gravel for an ultimate depth of 32m below ground level.

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SEAC decided to recommend the proposal for the grant of Environmental Clearance for the revised total production quantity of 1,05,363m³ of rough stone and 11,732m³ of gravel with annual peak production capacity not exceeding 23,145m³ of rough stone for ultimate depth of 32m below ground level subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. 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.
3. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial/Refresher' training under Mines Vocational Training Rules 1961 in the DGMS Approved Group Vocational Training Centre, Trichy (or) Pandalgudi.
4. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.
5. The PP shall carry out the quarrying operations from the top to downwards in the hillock by maintaining proper benches with adequate width & height and proper haul road possessing the gradient as permitted by the Director of Mines Safety, Chennai Region.
6. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry working touches 30 m (or) more irrespective of working above ground /below ground level within the commencement of two years of quarrying operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SELAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
7. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
8. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the



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- operation as recommended in the DGMS Circular. 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
9. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
 10. The PP shall carry out the quarrying operation from the top of hillock to downwards by forming proper accessibility/ramps of gradient as permitted in MMR 1961 and keeping the benches of adequate dimensions intact.
 11. Since the habitations and the windmills are situated within 400-700 m range from the quarry lease boundary, the PP shall carry out the scientific studies on design of controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock in the proposed quarry, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
 12. The PP shall furnish a Standard Operating Procedure for the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
 13. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
 14. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
 15. 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.
 16. As accepted by the Project proponent the CER cost is **Rs. 10 lakhs** and the amount shall be spent as follows:
 - a) **Rs. 5Lakhs** towards the Panchayat Union Middle School, Ponnammalpatli for the activities as committed, before obtaining CTO from TNPCB.
 - b) **Rs. 5 lakhs** for the conservation measures in Megamalai Wildlife sanctuary in consultation with concerned Deputy Director, before obtaining CTO from TNPCB.

Agenda No: 365 - 25
(File No. 9674/2022)


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Proposed Earth Quarry lease over an Extent of 1.50.5 Ha in S.F.No. 192/1 of Thiyagavalli Village, Cuddalore Taluk, Cuddalore District, Tamil Nadu by Thiru.R.Muthukumaran – For Environmental clearance (SIA/TN/MIN/411542/2022, dated: 21.12.2022)

The proposal is placed in this 365th meeting of SEAC held on 24.03.2023. 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, **Thiru.R.Muthukumaran**, has applied for Environmental Clearance for the Proposed Earth Quarry lease over an Extent of 1.50.5 Ha in S.F.No. 192/1 of Thiyagavalli Village, Cuddalore Taluk, Cuddalore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the project are as follows:

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru. R. Muthukumaran, S/o. Ramalingam, No. 37, Valkaramedu, Kannangudi, Chidambaram Taluk, Cuddalore District - 608 602.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Earth Quarry
3	S.F No. Of the quarry site	192/1
4	Village in which situated	Thiyagavalli
5	Taluk in which situated	Cuddalore
6	District in which situated	Cuddalore
7	Extent of quarry (in ha.)	1.50.5ha
8	Latitude & Longitude of all corners of the quarry site	11°37'50.09"N to 11°37'56.11"N 79°44'56.57"E to 79°45'02.79"E
9	Topo Sheet No.	58-M/10
10	Type of mining	Opencast method of shallow Mining
11	Period of quarrying proposed	2 years
12	Production (Quantity in m ³)	19,096m ³ of Earth
13	Depth of Quarry	2m Above Ground Level
14	Depth of water table	14m below ground level


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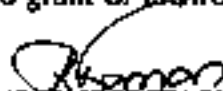
15	Man Power requirement per day:	9 Nos.
16	Water requirement:	1.5 KLD
	1. Drinking water & Domestic Purpose	0.2 KLD
	2. Dust suppression	1.0 KLD
	3. Green Belt	0.3 KLD
17	Power requirement	3,180 liters of HSD for entire Project life.
18	Precise area communication approved by Assistant Director, Dept. of Geology & Mining with date	Rc.No.58/Mines/2021 Dated: 01.10.2021.
19	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.58/Mines/2021 Dated: 26.10.2021.
20	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.58/ Mines/2021, Dated: 26.10.2021.
21	VAO certificate regarding habitations in 300m radius	Letter dated: 3 rd March
22	Project Cost (excluding EMP)	Rs.19,36,000/-
23	EMP cost	Capital Cost: Rs.9,13,100/- Recurring Cost: Rs.5,28,410/-

4. The project proponent has submitted a soil test report obtained from the Government College of Engineering, Dharmapuri vide Lr.No: GCE/DPI/CIVIL/SOIL/2022/C-143 Dated:22.11.2022. According to the test report, the total % of sand in the soil sample is less than 20% and the soil is classified as **Intermediate Compressible Silt (MI)**.

5. Assistant Director (I/c), Dept. of Geology and Mining, Cuddalore vide Rc.No.58/Mines/2021 dated.15.12.2022 informed that

".....there is no rivers, streams, canals, etc., situated adjacent to the applied area. Further there is no notified/declared protected zones situated adjacent to the applied area."

Based on the presentation and details furnished by the project proponent, **SEAC recommended to grant of Environmental Clearance for the production of 19,096m³ of Earth for the period**


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of Two years with an ultimate depth of 2 m Above Ground Level, subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. Tree plantation & fencing around the mine lease area shall be completed before starting the production.
3. 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.
4. 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.
5. Periodical maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
6. 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.
7. 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.
- B. 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.


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9. 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.
10. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machinerfes deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
11. 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.
12. 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. 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.
13. 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
14. **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.
15. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
16. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50m 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.
17. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
18. 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


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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.

19. 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.
20. 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.
21. 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.
22. 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 habitats.
23. 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.
24. 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) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
25. 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.
26. 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.
27. 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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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 Minutes.

29. 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.

30. As accepted by the Project proponent the CER cost is Rs. 2.0 lakhs and the amount shall be spent for the committed activities towards Panchayat Union Primary School, Thiyagavalli, Cuddalore District before obtaining CTO from TNPCB.

Agenda No: 365-26

(File No: 9695/2022)

Proposed Rough stone & Gravel quarry lease over an extent of 1.14.9 Ha in S.F.No 54/1B1A, 64/4B, 64/4D & 64/5B1 in Kulasekarankottai Village, Vadipatti Taluk, Madurai District, Tamilnadu by Thiru.M.K.Annadurai – For Environmental Clearance (SIA/TN/MIN/412099/2022 dated 28.12.2022)

The proposal was placed in this 365th meeting of SEAC held on 24.03.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **Thiru.M.K.Annadurai** has applied for Environmental Clearance for the Proposed rough stone & gravel quarry lease over an extent of 1.14.9 Ha in S.F.No 54/1B1A, 64/4B, 64/4D & 64/5B1 in Kulasekarankottai Village, Vadipatti Taluk, Madurai District, Tamilnadu.
2. The project/activity is covered under Category "B2" of Item I(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation and details furnished by the project proponent, the committee after detailed discussions decided to consider the proposal after the receipt of following details from the project proponent:

- i) 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.

On receipt of the above, SEAC would further deliberate on this project and decide the further course of action.

Agenda No: 365-TA1

(File No: 6555/2018)


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Expansion of existing hospital facility by M/s. Ganga Medical Centre & Hospitals Pvt Ltd at S.F.No.11/3/1B(Part) of Sangnur village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu.- For Environmental Clearance under violation category (SIA/TN/NCP/24656/2018 dated 21/09/2021)

The proposal was earlier placed for appraisal in the 342nd meeting of SEAC held on 30.12.2022. 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, M/s. Ganga Medical Centre & Hospitals Pvt Ltd, has applied seeking Environmental Clearance under Violation for the Expansion of existing hospital facility at S.F.No.11/3/1B(Part) of Sangnur village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. ToR under violation category issued vide Lr.No.SEIAA.F.No. 6555/SEAC/Violation ToR-613/2019 dated: 21.03.2019.
4. EA report submitted on 29.09.2021.

Based on the presentation and documents furnished by the project proponent, the Committee called for certain additional particulars. Proponent furnished the reply and hence the subject was taken up for discussion in this 345th meeting of SEAC held on 10.01.2023. SEAC decided to make on-site inspection by the Sub-Committee constituted by SEAC. On the receipt of the same SEAC will take further course of action.

Dr. B. Gowtham, Expert Member, SEAC Tamil Nadu inspected the project site on 06.02.2023 and has furnished the following inspection report:

INSPECTION REPORT of the Proposal Seeking Environmental Clearance (EC) under Violation Category for the Expansion of Hospital Facilities, Ganga Hospital Construction, In T.S. No. 11/3/1B part, Mettupalayam Road, Sangnur Village, Coimbatore District, Tamil Nadu SIA / TN / NCP / 24656 / 2018 under Violation Category

1.0 PREAMBLE:


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The EC approval was proposed by M/s. Ganga Medical Centre & Hospitals Private Limited, Coimbatore District, Tamil Nadu under Violation Category for Construction with valid EC at Sangnoor Village, Coimbatore District. The salient features of Ganga Medical Centre and Hospitals Private Limited is given below:

SALIENT FEATURES OF THE CONSTRUCTION SITE

EC Proposal No : SIA / TN / NCP/ 24656 / 2018 SEIAA

File No. : 6555 / 2019

Category : B a 'B2'. Under Violation


M/s. Ganga Medical Centre & Hospitals Pvt. Ltd., hereinafter Called as "GMCHPL". Ganga Nursing Home was started in 1978 by Dr.J.G.Shanmuganathan at a strength of 17 beds at Coimbatore. In the last 20 years, Ganga Hospital has provided quality Medical care, bringing the injured and disabled people back into their routine life. The Thrust was introducing newer and latest techniques In various microsurgical procedures, Reconstruction of severely Injured Limbs, Replantation of Completely amputated parts, Advanced Skeletal fixation. Patients are referred not only from across the length and width of country but also from the neighboring countries.

2.0 Chronology of the Project:

- Existing Hospital was under the operation from 2010 which is lesser than 20,000 Sq.m (Non EC Category).
- Additional 3 floor construction was started on 2016 which leads to increase in builtup area more than 20,000sq.m. It causes the project fall under violation case.
- Additional 3 floors construction was completed on 2016 without Prior EC.
- EC application under violation was submitted on 29.08.2018.
- Violation ToR was issued by TNSEIAA on 21.03.2019
- EIA report was uploaded on 21.09.2021.
- Violation Period- 2016 to 2022
- Project Cost (for additional 3 floors) – INR 11.5 Crores

3.0 VIOLATION CATEGORY:

"Ganga Hospital" has extended their Hospital Facility at T.S, 11/3/18 Mettupalayam Road, Sangnanur Village, Coimbatore district, Tamil Nadu. The Hospital has 6 floors with a total built-up area of 26,069.15 Sq.m in a plot area of 1.424 ha (3.52 acres). Out of 6 floors, consent was obtained for only Basement, Ground, 1st, 2nd & 3rd floor. Additional three floors (4th, 5th, 6th floor + Terrace) was constructed without obtaining prior Environmental Clearance under


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EIA Notification 2006 from SEIAA, Tamil Nadu, Built-up area (As per the Consent) - 15,541.30 Sq.m.

Additional built-up area (Without Consent) - 10,527.85 Sq.m. The EC has been sought for total built up area of 26,069.15 Sq.m.

The proponent made an EC application under violation and was submitted on 29.08.2018. Based on the application, SEIAA – TN issued Violation ToR on 21.03.2019 (Vide Ref letter SEIAA – TN / F.No. 6555 / SEAC / Violation / ToR – 613 / 2019). The proponent conducted Environmental Impact Assessment study as per the guidelines of ToR issued and submitted to SEIAA on 21.09.2021. The same EIA report is also upload in the PARIVESH Portal on 21.09.2021. The period of violation of the proponent is from 2016 to 2022.

The proponent was called for deliberation in 344th SEAC meeting held on 06.01.2023. Based on the presentation made by the Proponent, the SEAC committee recommended for Site Visit by a Sub Committee. Accordingly subcommittee has been constituted by the Chairman, SEAC which include Dr. B.Gowtham, Member, SEAC – TN (vide SEAC –TN/6555/Site Inspection/2022, dt.27.01.2023). Dr. B.Gowtham, Member, SEAC – TN visited the Ganga Medical Centre and Hospitals Private Limited at Mettupalayam Road, Sanganur Village, Coimbatore District on 06.02.2023 to understand the status of the construction made under violation category. The observations made by the Subcommittee are listed below:

- The Hospital has 6 floors with a total built-up area of 26,069.15 Sq.m in a plot area of 1.424 ha (3.52 acres).
- Out of 6 floors, consent was obtained for only Basement, Ground, 1st, 2nd & 3rd floor.
- Additional three floors (4th, 5th, 6th floor + Terrace) was constructed without obtaining prior Environmental Clearance under EIA Notification 2006 from SEIAA, Tamil Nadu.
- The Consent for the Existing Three floors (Basement, Ground, 1st, 2nd & 3rd floor) was valid up to March 31,2020.
- The Sewage water generation for Consent constructions (i.e. 1st,2nd & 3rd floors) is 37 KLD, for which 40 KLD capacity of STP is installed. As per the unconsent constructions (i.e. 4th, 5th & 6th floors) the generation of sewage water is 257.3 KLD. Now total STP setup of handling 320 KLD has been installed.

S. No	Existing (Consented)	After Expansion (Non-consent)	Remarks
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	Generation	Installed Capacity	Generation	Installed Capacity
1.	37 KLD	40 KLD	257.3 KLD	320 KLD

- Effluent Treatment plant Installed is of 25 KLD for the handling of 25 KLD effluent generations for the construction phase of non-consent floors.

S. No	Existing (Consented)		After Expansion (Non-consent)		Remarks
	Generation	Installed Capacity	Generation	Installed Capacity	
1.	2.20 KLD	2.20 KLD	25 KLD	25 KLD	Neutralized and treated with Hypochloride and combined STP

- The total treated waste water of 282.3KLD including consent and unconsent constructions are being utilized for flushing (89 .0 KLD; AC chiller make -up 164 KLD; dust suppression and fire protection 25 .0 KLD and Greenbelt 4.3 KLD).

Sr.No	Utilization	Existing (Consented) (KLD)	After Expansion (Non-consent) (KLD)
1	Flushing	17.70	89
2	AC Chiller Make-up	-	164
3	Dust suppression and fire protection	15	25
4	Green belt	4.30	4.30
	Total	37	282.30

- Solid waste management including bio degradable and non-bio degradable is estimated as 0.648 TPD and 0.432 TPD respectively for the unconsent constructions has been installed within the hospital campus. Bio degradable waste (Organic waste) generated are disposed to Coimbatore corporation Solid Waste Management wing (Commitment letter enclosed). Non-bio degradable wastes are recycled through authorized recyclers to whom the hospital management has made agreement with the said recyclers (Letter Enclosed).


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Sr.No	Utilization	Existing (Consented) (TPD)	After Expansion (Non-consent) (TPD)	Remarks
1	Bio Degradable	0.03	0.648	Organic waste sent to Coimbatore solid waste management corporation
2	Non-Biodegradable	0.02	0.432	Recycling through authorized recyclers

- Rain water harvesting in the campus include 54 percolations pits within the hospital area through the rainwater is collected and utilized for gardening and no consuming purposes. These 54 percolations ponds have been installed during the consent buildings and remain the same to constructions including unconsent floors constructed. All these percolations pits within the campus are well maintained periodically and collection of rainwater is done systematically.


Sr.No	Items	Existing (Consented) (TPD)	After Expansion (Non-consent) (TPD)	Remarks
1	Rainwater percolation pits	54	54	Percolation pits will be constructed along the hospital site periphery for rainwater recharge

- The power requirement for the entire construction is 700 KVA and is received from TANGEDCO (commitment letter enclosed). The DG sets installed are of capacity 500 KVA and 750 KVA respectively which will be run only through low sulphur diesel. Fuel required is 320 L/hr and 240 L/hr will be used only during power failure, Lighting, Lifts, STP and operation theatres.
- Operation Theatre

Sr.No	Items	Existing (Consented) (TPD)	After Expansion (Non-consent) (TPD)
1	Operation Theatres	6	10


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emergency and regular surgery		
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- Total number of inpatient and out patients is estimated as 140 and 200 respectively for consent buildings, whereas the estimation of inpatients and outpatients for total constructions (both consent and unconsent constructions) is 450 and 300 respectively.

Sr.No	Items	Existing (Consented)	After Expansion (Non-consent)	Remarks
1	Inpatients	140	450	-
2	Out patients	200	300	-

- Total number of beds as of now is 450 which caters all the six floors (consent and unconsent constructions).

Sr.No	Items	Existing (Consented)	After Expansion (Non-consent)	Remarks
1	patients	140	450	-

- The EMP budget and details during the Operational Phase is Rs. 83.50 lakhs towards capital cost and Rs. 16.0 Lakhs per annum towards recurring cost. The details of EMP budget is given below:

Sr.No	Description	Capital Cost (Lakhs)	Recurring Cost (Lakhs/Annum)	Remarks
1	Site Sanitation Facilities, STP & others	50.0	5.0	
2	RWH	5.0	1.0	
3	Greenbelt	10.0	2.0	
4	Solid waste management	5.0	1.0	
5	Environmental Monitoring	--	7.0	
	Total	83.50	16.0	


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- Corporate Environmental Responsibility (CER) budget as the presentation made by the proponent CER is 11.5 Lakhs. The CER funds committed will be utilized for Government Higher Secondary School, Kavundampalayam for activities like For Existing toilet repairing with running water facilities, Purchase and Installation of incinerator, Tree plantation In the school (1000 Trees), Purchase of environmental related books for library and others on the request of head master.
- In addition, the proponent also agreed to spend Rs. 7.00 Lakhs for repairing existing toilets In Government Arts College, Coimbatore and establishment of Smart classroom for the newly started Geology Department.

4.0 ECOLOGICAL DAMAGE ASSESSMENT:

The level of ecological damages are categorized as

- Low Level Ecological Damage:** If only procedural violations carried out (Started construction at the site without obtaining EC).
- Medium Level Ecological Damage:** Procedural violations carried out (Started construction at the site without obtaining EC), Infrastructural violations such as deviation from CMDA / local body approval. Non operation of the project.
- High Level Ecological Damage:** Procedural violations carried out (Started construction at the site without obtaining EC). Infrastructural violations such as deviation from CMDA / local body approval. If the construction part is under operation (Utilized).

As mentioned above, the proponent during the period 2016 – 2022, has committed violation by construction of additional floors (4th, 5th & 6th Floor) without valid EC. Hence, this is considered as **HIGH-LEVEL ECOLOGICAL DAMAGE** due to the following reason:

- Construction started without appropriate EC and consent orders from TNPCB.
- Solid waste, biomedical waste, hazardous waste and effluent not satisfactory as per the EC requirement.
- Additional 300 beds were put in use without compliance of EC conditions.

The fund allocation for ecological remediation, natural resource augmentation and community resource augmentation and penalty will be based on below mentioned criteria.

Level of Damages	Ecological remediation cost	Natural resource augmentation cost	Community resource augmentation cost	Penalty	Total


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Low level Ecological Damage	0.25 %	0.10 %	0.15 %	0.25 %	0.75 % of project Cost
Medium level Ecological Damage	0.35 %	0.15 %	0.25 %	0.50 %	1.25 % of project Cost
High level Ecological Damage	0.50 %	0.20 %	0.30 %	1.00 %	2.00 % of project Cost

The cost estimated for the high level ecological damages committed by the Proponent is calculated as:

Level of Damages	% of the project cost	Cost (Rs in Lakhs)
Ecological remediation cost	0.50 %	5.75
Natural resource augmentation cost	0.20 %	2.30
Community resource augmentation cost	0.30 %	3.45
Penalty	1.00 %	11.50
Total	2.00 %	23.00 Lakhs

(Rupees Twenty Three lakhs only)

- Need based Damage assessment report has been prepared by the M/s. Ganga Health Centre & Hospitals Private Limited, Coimbatore and the committed cost is Rs. 31.00 lakhs. The details of need-based damage assessment is given below: Summary of Budget Allocation proposed for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan based on EIA Model.

S.No	Activity	Cost (Rs in Lakhs)
1	To enhance the water table around the Coimbatore corporation area, the proponent will 5 rain water harvesting structures at the cost of Rs. 0.20 Lakhs per structure (Rs.0.20 Lakhs x 5 Structures)	1.00


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2	The proponent has committed to beautify, maintain and protect the Kumarasamy Lake and Selvampathy Lake at the rate of Rs. 5.00 Lakhs per lake (Rs. 5.00 Lakh x 2 Lakes)	10.00
3	The proponent agreed to support the local Government and educational institutions to install solar power setup in streets and schools nearby which reduce the consumption of electricity	3.00
4	Installation of Smart class room for Government Higher Secondary School, Kavndampalayam, Coimbatore has been committed by the Proponent	3.00
5	Health Care: Hope after Fire: This scheme provides treatment for poor people affected by burns who are not able to afford treatment. Mobile Mammogram Clinic: Under this scheme, the hospital reach interior villages to create awareness breast cancer and treat the needy one. With the consultation of the doctor the hospital take free mammogram and treat the poor people. Clift Up and Palate free surgery Project	14.00
TOTAL		31.00 Lakhs

- Hence, the proponent is committed to pay through the following heads in total:

S.No	Description	Calculation	Amount in Lakhs
1	Need Based Damage Assessment for remediation plan for Natural Resource Augmentation as per EIA submitted.	Need based requirement of local community / TNSEAC recommendation	31.00
2	Penalty for the violation as per SEIAA guideline	2.0 % of the project cost	23.00
3	Amount to be spent on welfare activities under CER (1 % + additional charges)	CER committed in SEAC deliberation 11.50 Lakhs + 7.00 Lakhs during the site visit	18.50
GRAND TOTAL			72.50 Lakhs

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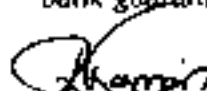
RECOMMENDATIONS

- The proponent has violated by constructing additional three floors (4th, 5th & 6th Floors) without valid EC (unconsent construction).
- High level ecological damages has been forced on the activity of the Proponent and penalty has been calculated as Rs. 23.00 Lakhs.
- The proponent also agreed to pay the Budget allocation proposed for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan based on EIA Model which is Rs. 31.00 Lakhs.
- The proponent committed to spend Rs. 18.50 Lakhs towards the CER activity for near government higher secondary school and Government Arts College, Coimbatore.
- The green belt coverage within the area is not adequate and the proponent agreed to find places in the corporation areas like school grounds, around water bodies to plant around 1000 additional trees which will not account in CER activity plantations.
- In Concluding views, the sub-committee member suggests the honorable committee to issue Environmental Clearance requested by the proponent.

Submitted to the committee for further action.

The site inspection report was placed in this 365th meeting of SEAC held on 24.3.2023. The SEAC observed that the proposal seeking Environmental Clearance for the expansion and construction of Hospital Facilities, Ganga Hospital at T.S. No. 11/3/1B part, Mettupalayam Road, Sangnur Village, Coimbatore District, Tamil Nadu under violation category comes under the "high level ecological damage category". The Committee decided to recommend the proposal to SEIAA for grant of EC subject to the following conditions in addition to the normal conditions stipulated by MOEF&CC:

1. As per the MoEF&CC Notification, S.O.1030 (E) dated:08.03.2018, "The project proponent shall submit a bank guarantee equivalent to the amount of remediation plan and Natural and Community Resource Augmentation Plan with the State Pollution Control Board and the quantification will be recommended by the Expert Appraisal Committee for category A projects or by the State or Union territory level Expert Appraisal Committee for category B projects, as the case may be, and finalized by the concerned Regulatory Authority, and the bank guarantee shall be deposited.
2. Accordingly, the amount prescribed for Ecological remediation, natural resource augmentation & community resource augmentation is Rs. 31.00 Lakh. Hence the SEAC decided to direct the project proponent to remit the amount of Rs.31 Lakh in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement


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of the same to SEIAA-TN. The funds shall be utilized for the ecological damage remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.

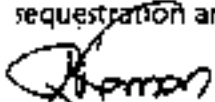
3. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
4. The amount committed by the Project proponent for CER (Rs.18.5 Lakh) shall be remitted in the form of DD to the beneficiary for the activities committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.
5. The project proponent shall submit the proof of action taken by the State Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
6. 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 furnish the detailed EMP mentioning all the activities of proposed CER for entire project other than the CER amount of 18.5 Lakh to be remitted before the issue of Environmental clearance.
7. The Project proponent shall operate the STP effectively and continuously so as to achieve standards prescribed by the TNPCB for treated sewage.
8. The Project proponent shall utilize the treated sewage for the development of green belt and toilet flushing after achieving the standards prescribed by the TNPCB.
9. The project proponent shall furnish revised latest AAQ data & meteorological data pertaining to the proposed project site before obtaining the CTO.
10. The project Proponent shall provide OWC for disposal of bio degradable solid waste. The project Proponent shall operate the same efficiently and continuously for the disposal of the Organic waste generated from the campus. The non-bio degradable waste shall be regularly collected and disposed through TNPCB authorized recycler.
11. The Project proponent shall collect & dispose the hazardous waste through TNPCB Authorized vendors/recyclers as per the Hazardous and other wastes (Movement and Transboundary Movement), Rules 2016, as amended.
12. The Project proponent shall collect and dispose the E-Waste through TNPCB Authorized vendors/recycler as per the E-Waste Management Rules 2016, as amended.
13. Necessary permission shall be obtained from the competent authority for the drawl/outsourcing of fresh water before obtaining consent from TNPCB.
14. All the mitigation measures committed by the project proponent for the flood management, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.


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15. Tapping of solar energy should be at least 10% of total energy consumption Solar energy usage mainly for the illumination of common areas, street lighting etc.,
16. The project proponent shall provide separate standby D.G set for the STP proposed for the continuous operation of the STP In case of power failure.
17. Waste of any type not to be disposed of in any water bodies including drains, canals and the surrounding environment.
18. The project proponent shall submit the proof for the action taken by the State Government/TNPCB against project proponent under the provisions of section 19 of the Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
19. The proponent shall furnish the detail about the built-up area for all the buildings with floor wise to TNPCB every year along with the compliance report for the Environmental Clearance.
20. Any violations and subsequent suitable action may be decided by SEIAA, as deemed appropriate, if arise.
21. The project proponent shall maintain minimum 15% green belt as committed.
22. As agreed, the proponent shall find places within the Coimbatore Corporation areas like school grounds, around water bodies to plant around 1000 additional trees which will not account in CER activity plantations.
23. Project proponent shall ensure that DG sets are run on minimum of 50% green energy sources Instead of Diesel.
24. The height of the stacks of DG sets shall be provided as per the CPCB norms.
25. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to TNPCB before obtaining CTO.
26. The proponent shall make proper arrangements for the utilization of the treated water from the hospital for toilet flushing, green belt development, dust suppression, fire protection and no treated water shall be let out of the premise.
27. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.
28. 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.


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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.

29. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted with 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.
30. The unit shall ensure the compliance of land use classification fit for construction.
31. The project proponent shall provide entry and exit points for the OSR area as per the norms for the public usage and as committed.
32. The Project proponent shall construct a 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 device which was crucial to the overall eco-system.
33. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
34. The Project Proponent shall comply with the provisions given under the Bio Medical Waste Management Rules, 2016, as amended at all times.
35. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
36. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
37. No waste of any type to be disposed of in any other way other than the approved one.
38. All the mitigation measures committed by the proponent for the flood management, to


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avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.

39. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines.
40. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
41. The project proponent shall measure the criteria air pollutants data (Including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
42. Solar energy should be at least 25% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
43. 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.
44. 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.

Agenda No: 365-TA2

(File No: 6547/2018)

The Proposal Seeking Environmental Clearance (EC) under Violation Category for Grey Granite Quarry, in S.F No: 448/1(P), 449/1, 2 and 449/3A, Extent: 1.09.5 Ha, Vilangumudi Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu by Thiru K.S. Thankachalam - For Environmental Clearance (SIA / TN / MIN / 77620 / 2018 Dt. 03/06/2022.

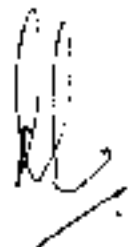
Earlier, this proposal was placed in this 336th SEAC Meeting held on 07.12.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:


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1. The Proponent, Thiru, K.S. Thankachalam, has applied for Environmental Clearance for the Existing Grey Granite Mine over an extent of 1.09.5 Ha at S.F. Nos. 448/1(P), 449/1,2 & 449/3A at Vilangamudi Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. ToR Issued vide Letter No. No.SEIAA-TN/F.No.6547/TOR- 398/2018 Dated: 18.05.2018 under Violation Category.
4. Minutes of Public Hearing Conducted on 22.01.2022.

Based on the presentation made and documents furnished by the project proponent, (i) The SEAC decided to constitute a SUB COMMITTEE to make site inspection to assess the present status of the project site and environmental settings as the proposal falls under violation category.

Dr. G. Anne Josephine Selvam, Member, SEAC – TN and Dr. B.Gowtham, Member, SEAC – TN has inspected the site on 24.01.2023 and has furnished the following inspection report:

1.0 PREAMBLE

The proposed grey granite mine is owned by Mr. K.S. Thanikachalam, Vilangamudi Village, Pochampalli Taluk, Krishnagiri District – 635 204, Tamil Nadu. The Proposal Seeking Environmental Clearance (EC) is under Violation Category for Grey Granite Quarry, in S.F No: 448/1(P), 449/1, 2 and 449/3A with an extent of 1.09.5 Ha, Vilangumudi Village. The salient features of the proposed quarry is given below:

1. About the Mine:

District	:	Krishnagiri
Taluk	:	Pochampalli
Village	:	Vilangumudi Village
SF No.	:	448 / 1 (P), 449 / 1, 2 and 449 / 3A
Extent	:	1.09.5 Ha
Land Classification	:	Patta Land
Mineral	:	Grey
Granite		


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period : 20 Years. 28.02.2011 to 27.02.2031 (G.O. (3D)
No. 10 Industries (MMB - 2)).

3.0 VIOLATION CATEGORY


The past production details of the quarry in given below:

S N o	Year	ROM Proposed in the SOM -II (m ³)	Saleable Quantity Proposed @ 40%(m ³)	Actual ROM production achieved (m ³)	Actual saleable production achieved @40 % (m ³)	Permit obtained quantity(m ³)
1	2016-17	5106	2042	1007.7 8	403.112	403.112
2	2017-18	5106	2042	NIL	NIL	NIL
3	2018-19	13776	5511	NIL	NIL	NIL
4	2019- 20	14940	5977	NIL	NIL	NIL
5	2020- 21	15876	6350	NIL	NIL	NIL
Total		54804	2192 2	1007.7 8	403.112	403.112

The mine was operated during the year 2016 – 17 without obtaining EC and CTO. Hence, the proposed quarry is categorized under Violation and accordingly the Proponent applied for ToR under violation category.

The Proponent Mr. K.S. Thanikachalam has obtained ToR from SEIAA vide Letter No. SEIAA-TN/F-No.6547/TOR-398/2018, dt. 18.05.2018 which is valid from 18.05.2018 to 17.05.2021 (302nd SEAC meeting). The ToR was issued under VIOLATION CATEGORY as the proponent has done mining without obtaining EC. As per the ToR conditions, public hearing was conducted on 22.04.2022. Application for EC through online is applied on 03.06.2022 (vide No. SIA / TN / MIN / 77620 / 2018).

The proponent was called for Deliberation in 336th SEAC meeting held on 07.12.2022. The SEAC committee recommended for Site Visit by a Sub Committee. Accordingly, subcommittee has been constituted by the Chairman, SEAC which include Dr. C. Anne Josephine Selvam, Member, SEAC – TN and Dr. B.Gowtham, Member,


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SEAC - TN (vide SEAC -TN/6547 Site Inspection/2022, dt.13.12.2022). The subcommittee visited the quarry site on 24.01.2023 to understand the status of the quarry. The observations made by the Subcommittee are listed below:

- The proposed lease area falls between Longitude 78°18'21.83" to 78°18'27.00"E and Latitude 12°20'55.12" to 12°20' 58.09" N and covered in Survey of India toposheet 57 L / 07.
- There is no H.T. Electric line and water bodies nearby the proposed mine.
- One Concrete house is situated in 55 m from the mine pit where the watchman of the proposed mine lives with his family.
- The lease period of this mine has been for 20 years from 28.02.2011 to 27.02.2031.
- The ultimate proposed depth of mine is 33 m, below ground level (bgl) through open cast and semi mechanized mining method.
- As per the BMRTPC Vulnerability atlas Seismic zone of India (IS: 1893 - 2002), this lease area falls in Zone II which is Low Damage Risk Zone.
- The mining lease area exhibits flat terrain. The gradient is gentle towards west and the altitude of the area is 451m above MSL. The Grey granite deposit concealed under soil cover and the granite deposit clearly visible from the existing quarry pit.
- The area lies at an altitude of 451 m, above mean sea level which is a flat terrain made up of grey granite below a few meter thickness of soil cover.
- Nearest highway is major district road (MDR) connecting Karimangalam and Pochampalli runs 1 km south of the lease area. Nearest airport is Bengaluru International Airport which is situated 106 Km in the northern direction. There is no interstate boundary around 10 Km radius from the lease area. Nearest town is Pochampalli (7 Km, SE).
- The demographic details and villages around the proposed mine is tabulated below:

S.No	Name of Villages	Distance (km)	Direction from project site	Population (Census 2011)
1	Veeramalal	1km	North	150 Population
2	N.Thattakkal	3km	NW	300 Population

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3	Nagarasampatti	2km	NW	400 Population
4	Periyakaradiyur	3 km	SE	150 Population
5	Sellampatti	2km	SW	250 Population
6	Vilangamudi	3km	SW	250 Population
7	Agaram	4km	SW	300 Population

- The details of proposed production from the period of 2021 – 22 to 2025 – 26 is shown below:

S.No	Year	Production of ROM (m ³)	Recovery @40%(m ³)	Granite rejects 60%(m ³)
1	2021-22	10212	4085	6127
2	2022-23	12758	5103	7655
3	2023-24	13308	5323	7985
4	2024-25	13248	5299	7949
5	2025-26	13080	5232	7848
Total		62606	2504 2	37564

- The land use pattern at present and end of the mining activity of the proposed mine is detailed in the below table:

S. No.	Description	Present Area (Ha.)	Area to be required at the present Scheme Period (Ha.)	Area at the end of life of Quarry (Ha.)
1	Area under Quarrying	0.62.50	0.00.0	0.62.50
2	Waste Dump	0.04.30	0.00.50	0.04.80


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3	Infrastructure	0.00.80	0.00.0	0.00.80
4	Roads	0.02.10	0.01.0	0.03.10
5	Green Belt	0.30.85	0.00.00	0.30.85
6	Unutilized	0.08.95	0.01.50	0.07.45
	Total	1.09.5 Ha	0.03.00	1.09.5 Ha

4.0 ECOLOGICAL DAMAGE ASSESSMENT

As mentioned above, the proponent during the scheme 1 period, has committed violation by carrying out mining without valid EC for the period 2016-17 to 2020-21.

- From the past mining approved data, the peak production of mining is proposed during the year 2020-21 which is around 6350 m³ and least mining of 2042 m³ during the year 2016-17 and 2017-18. But the proponent has mining around 1007.78 m³ of grey granite material during the first year of scheme 1 (i.e. 2016-17).
- During the mining operation (in the year 2016-17), the proponent utilized around 120 KLD of water which are supplied by private water suppliers and water available in the mine site itself.
- Total man power during the operation is 25 and municipal solid waste generated is less than 2 tonnes / year. The proponent used soak pit and septic tank method to dispose the above solid waste generated.
- The sewage generation during the violation period is calculated as 60 KLD for domestic sewage which is collected in the soak pit.
- The solid waste generation generated during the mining operation (2016-17) is 604.668 m³.
- During the mining period under violation, the quantification of emissions (PM10, SO₂ and NO_x) are calculated as NIL as the period of mining lasted very few days in the year 2016-17.
- During quarrying period, no trees are removed.


5.0 COST ESTIMATION FOR THE ECOLOGICAL DAMAGE MADE THE PROPONENT

The excess production against the EC comes under violation category as per Hon'ble Supreme Court Judgment dated 02.08.2017 in WP. No.114/2014 in the matter of Common Cause Vs UIO.

Hence, the Proponent has uploaded the application for obtaining ToR under violation category as per MoEF&CC Notification S.O No. 804(E), dated 14.03.2017.


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Details of Mining

Sl. No.	Particulars	Details
1	Method of mining	Open cast mechanized
2	Updated Geological reserves	99,194 m ³
3	Updated Mineable reserves, if any	68,990 m ³
4	Proposed production per Annum	5008.4 m ³
5	Elevation range of the mine site	451 m, amsl
6	Bench height	3 m
7	Bench width	6 m
8	Bench slope	45°
9	Proposed Depth of mining	33 m, bgl
10	Life of mine	20 years (28.02.2011 to 27.02.2031)


6.0. Status on Compliance of TOR

Complied as Reported and given in the EIA Report and also presented during the 336th SEAC meeting held on 17.12.2022.


7.0. Nature and Type Violation

During the period 2016 – 2017 to 2020- 2021, the proponent has mined out 1007.78 cu.m of ROM which is 19.73 % of ROM with reference to the approved ROM of 5106 cu.m. But the violation in this case is the mining activity is carried out without a valid EC. There is no excess production against the total yearly ROM for the year 2016 – 2017. The details comes under violation category as per Hon'ble Supreme Court Judgment dated 02.08.2017 in WP. No.114/2014 in the matter of Common Cause Vs UIO.

Sl. No.	Statute Requirement	Yes / No	Violation Status	Remarks
1	Valid EC	No	Violation.	Violation Committed due to mining without EC.
2	Valid CTO	No	Violation.	Violation Committed due to mining without EC.


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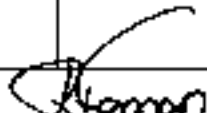
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3	Valid Mining Plans/Schemes	No	SOM Prepared and submitted and it is under deemed approval.	SOM Prepared and submitted as on date
4	Forest Clearance	NA	Not Applicable	NA
5	Transport Permits	Yes	Permit obtained from the Geology & Mining up to stopping of quarry due to violation	
6	Any other violation	No	Not Applicable	NA

8.0. ECOLOGICAL DAMAGE ASSESSMENT

The ecological damage assessment has been made for the period 2016-17 to 2020-21. The mining activity is carried out only during the year 2016-17 and after this period has been stopped by the district competent authority. The details of ecological damage committed by the proponent without valid EC is given in the table below:

S. No	Description	Details	Unit	Mining Plan period (for example 2014-2015 to 2018-2019)				
				2016-17	2017-18	2018-19	2019-20	2020-21
1	Mine Lease Area		Ha	1.09.5	1.09.5	1.09.5	1.09.5	1.09.5
2		Qty/ Mining plan	m ³ /year @40%	2042	2042	5511	5977	6350
		Actual production	m ³ /year	403.112	NIL	NIL	NIL	NIL


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		on						
		Total Water Consumption	KL/year	900KLD	NIL	NIL	NIL	NIL
3	Source of water	--	KL/Y	Mineral water supplier, Own Open well, Quarry Pit				
4	Hazardous waste	--	Lit/A	Nil	Nil	Nil	Nil	Nil
	Waste oil	--	Tonne/Year	Nil	Nil	Nil	Nil	Nil
5	Municipal Solid Waste	--	Tonne/Year	2	-	-	-	-
6	Mode of Disposal of Sewage	--		Soak Pit & Septic Tank	-	-	-	-
7	Deforestation /No of plants	-	Nos	NA	NA	NA	NA	NA
8	Domestic Sewage Quantity(KLD)		0.2KLD/day	.	-	-	-	-
9	Manpower	--	25 Nos	25	-	-	-	-

Damage Assessment report has been prepared in accordance with MoEF & CC Notification dated 14.03.2017 and it is given as follows:

Damage Assessment

Quantification of the effects on human health of particulate matter emissions, for which inhalation is the only relevant exposure route. In this case, it is necessary to quantify the pollutant emission, describe its dispersion and the extent to which the population is exposed, apply a concentration-response function and finally evaluate the

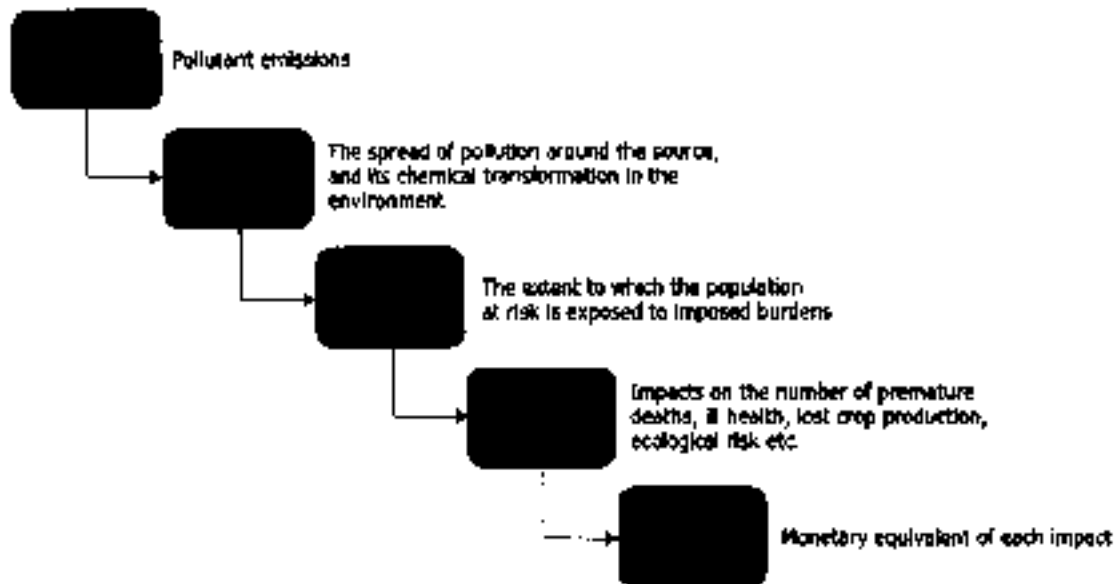

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economic impact. A pathway for estimating impacts & Impact Pathway Approach is shown in flowchart below.



Impact Pathway Approach

Source: European Environmental Agency - EEA Technical report N15/2011 "Revealing the costs of air pollution".

Quantification of Damage Cost


Assessment of the damages caused during quarry operations are given below:

Air Environment

The major source of air pollution due to emission generation by is quarry machineries & transportation of granite. Drilling, Haul roads, Waste dump & Open pit activities are considered for air emission generation.

Emission calculation References;

- *The drilling emission is calculated with the equation of Chakraborty, et al. (2002).*
- *The emission factors for the haul roads the equation from the literature Chaulya, (2006).*
- *Haul Roads & Waste dump emission calculated based on the literature Chakraborty, et al., (2002).*
- *Open pit Emission calculation as per the open pit estimation is another tool than the area source in AERMOD. (Neshuku, 2012).*


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Quantification of Emissions due to quarry activities

S. No	Emission details	Emissions quantity Tonne /Year	Total Emissions quantity (Tonne) for one year
1	PM10	60.5-62.3µg /m ³ as per Baseline data	NA
2	SO ₂	6.95- 7.6µg/m ³ as per Baseline data	NA
3	NO _x	7.85-8.7µg/m ³ as per Baseline data	NA
Total		--	-

Water Environment

Water is being sourced from nearby road tankers for mining operations purpose is about 3.0 KLD/day of water is required for the project.

Year wise Sewage generation in Violation period

S. No	Description	2016-2017	2017-18	2018-19	2019-20	2020-21
1	Domestic Sewage Quantity (KLD)	60KLD	NIL	NIL	NIL	NIL
2	Sewage collected insoak pit(KLD)	60KLD	NIL	NIL	NIL	NIL

Year wise Solid Waste generation in Violation period (4 years)

S. No	Description	2016-2017	2017-18	2018-19	2019-20	2020-21
1	MSW	604.668m	NIL	NIL	NIL	NIL


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(Tonne/Year)	3				
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Ecological Damage due to mining Activities & Remediation Plan and Cost

S. No	Parameter	Cost In INR for the year 2016-17
1	Air Environment	0
2	Water Environment	Rs.75,000.00
3	Soil Environment (Land Environment)	Rs.50,000.00
4	Noise Environment	0
5	Vibration	0
6	Biological Environment	Rs.25,000.00
7	Occupational Health	Rs.25,000.00
	TOTAL	Rs. 1,75,000.00

10.0 Natural & Community Augmentation Plan breakup

The damage caused by Thiru K. S Thanikachalam has been assessed considering High Level Damage on Grey Granite Quarry over an extent of 1.09.5 Hectare in : 448/1,449/1.2 and 449/3A Vilangumudi Village, Pochampalli Taluk, Krishnagiri District and natural augmentation plan has been prepared. The cost estimated under augmentation plan for this Grey Granite Quarry is Rs. 54,750 /- and the details is given below:

S.No	Description	Cost in Rs.
	Lease Augmentation	
1.	Land Reclamation	24,750.00
2.	Cost Estimated for St Fencing around lease area	30,000.00
	Sub Total - 1	54,750.00
	Natural Resource Augmentation	
1.	Development of RWH pit in the houses of nearest villages (2 Houses)	5,700.00
2.	Installing one number of 40 watt Solar Light Pole to the	30,000.00

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	nearby village	
3.	Tree Plantations in the village near Bus Stop, Government Hospital and VAO Office (40 Trees)	20,000.00
4.	Providing two number of tree saplings (1 year grownup trees) to 25 Houses in the nearby village	10,000.00
	Sub Total – 2	65,700.00
	Community Resource Augmentation	
1.	Installation of RO plant for safe Drinking water to Government Hospital and Government School in Nearby Village	52,000.00
2.	Developing Library facility to Nearby Government School	15,000.00
3.	Conducting Health and Safety Awareness Program among nearby Village People	15,000.00
	Sub Total – 3	82,000.00

Summary of Budget Allocation proposed for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan based on EIA Model is given in the table below:

Sr. No.	Activity Proposed	Cost in Rs.
1	Cost of Ecological Damage Remediation Plan	54,750.00
2	Natural Resource Augmentation Plan	65,700.00
3	Community Resource Augmentation Plan	82,000.00
	Grand Total	2,02,450.00


11.0 CORPORATE ENVIRONMENT RESPONSIBILITY (CER)

The proponent has committed to carry out CER activity for the Government School at Pochampalli for the following activities.

Name of the Village	Particulars	CER Amount


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Governme ntSchool, Pochampalli	Renovation of Toilet buildings, Plantation of trees in and around the school campus, Education & Repairs and Maintenance of School buildings.	Rs.5.00 Lakhs
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12.0. RECOMMENDATIONS

- The proponent has violated by carrying out the mining during the first year of the past mining plan (i.e. 2016-17) without valid EC.
- High level ecological damages has been forced on the activity of the Proponent and penalty has been calculated as Rs. 1.75 Lakhs.
- The proponent also agreed to pay the Budget allocation proposed for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan based on EIA Model which is Rs. 2.02,450.00.
- The proponent committed to spend Rs. 5.00 Lakhs towards the CER activity for near government higher secondary school at Pochampalli.
- The green belt development for the nearby village including Government Hospital, Bus Stand and VAO Office has been committed by the Proponent.
- A concrete house for watchman of the mines exist in 55 m from the quarry area. Since not blasting will be conducted in this mine, the house exist nearby will not have any impact due to mining.
- In Concluding views, the sub committee member suggests the honourable committee to issue Environmental Clearance requested by the proponent.

This proposal has placed in 365th SEAC meeting held on 24.3.2023. Based on the inspection report and documents furnished, SEAC decided to accept the recommendation made by the subcommittee and decided to recommend the proposal for the grant of Environmental Clearance for the period of 5 Years for the production quantity of 62606 m³ of ROM, 25042 m³ of (40% Recovery) of Granite & 37564 m³ of Granite waste . The peak production shall not exceed 13308 m³ of ROM, 5323 m³ of Granite & 7985m³ of Granite waste with

the ultimate depth of mining upto 33m, subject to the standard conditions & normal conditions stipulated by MOEF & CC, in addition to the conditions as recommended by the Subcommittee.


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1. The amount prescribed for Ecological remediation Rs. 1.75 Lakhs, natural resource augmentation & community resource augmentation (Rs. 2.02,450), totalling Rs. 3,77,450 Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 3,77,450 in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
2. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of six months. If not, the bank guarantee will be forfeited to TNPCB without further notice.
3. The amount committed by the Project proponent for CER (Rs. 5.00 Lakhs) shall be remitted in the form of DD to the beneficiary for the activities committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.
4. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
5. The company shall obtain 'No Dues Certificate' from State Government i.e. Department of Geology & Mining within a period of two weeks and submit the same to SEAC before grant of EC, if not produced earlier.
6. The PP shall install the Environmental Management Cell headed by the statutory (I/II Class) Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
7. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
8. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained properly.
9. 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.

10. The proponent shall obtain a 'Star Rating' system awarded by Anna University, Chennai annually to the mining lease being operated for their efforts and Initiatives taken for successful implementation of the Sustainable Development Framework (SDF).
11. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.


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ANNEXURE-I

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. 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.



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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/DD (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 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>Azyle marmelos</i>	Vilvam	விழவம்
2	<i>Adenanthera pavonina</i>	Manjadi	மஞ்சள்தா, பூமஞ்சள்தா, விஷகம்பி
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உ. சிலி
5	<i>Bauhinia purpurna</i>	Marutham	மரூதம்
6	<i>Bauhinia variegata</i>	Aathi	ஆதி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania sculleria</i>	Kattuna	கட்டுநா
9	<i>Borassus flabellifer</i>	Panni	பன்னா
10	<i>Bulax monocarpa</i>	Murakkaramam	முரக்காரம்
11	<i>Bobax ceiba</i>	Dava, Servilavu	டாவா
12	<i>Calophyllum inophyllum</i>	Pannai	பன்னா
13	<i>Cassia fistula</i>	Satakondrai	சதகண்டரை
14	<i>Cassia umbureha</i>	Sengondrai	செங்கண்டரை
15	<i>Chloroxylon swintonia</i>	Purasamaram	புரசம்மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Marjallavu	கொங்கு, மர்ஜல்லா கொங்கு
17	<i>Cardia dichotoma</i>	Naruvadi	நரூவாடி
18	<i>Cretax odarsoni</i>	Mavalingum	மாவலிங்கம்
19	<i>Dillenia indica</i>	Uva, Uza	உ. டீ
20	<i>Dillenia pentagyna</i>	SaruUva, Sitruzha	சரூ உ. டீ
21	<i>Diospyro sebnum</i>	Karungali	கரூங்கலி
22	<i>Diospyro chloroxylon</i>	Vagerai	வாகரை
23	<i>Ficus amplissima</i>	KaHchi	கா. கிச்சி
24	<i>Hibiscus tiliaceus</i>	Aatrupoovarasu	ஆத்ரூபூவராசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelea integrifolia</i>	Aayili	ஆயிலி மரம், ஆயில்
27	<i>Larrea coromandelia</i>	Odhiam	ஒடியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மரூதா
29	<i>Lepisanthus tetraphylla</i>	Neskothamaram	நெசுக்கோதம்மரம்
30	<i>Linnonia acidissima</i>	Vila maram	வில்லா மரம்
31	<i>Litsea glutinosa</i>	Pisarpattai	பிசர்பட்டை, பிசர்பட்டை
32	<i>Madhura longifolia</i>	Iluppai	இலுப்பை
33	<i>Masikera hexandra</i>	UlaknaiPantai	உலக்நை பன்னா
34	<i>Mimusops alangi</i>	Magzhamaram	மகழ்ஜம்மரம்
35	<i>Mitragyna parvifolia</i>	Kodambu	கொடம்பு
36	<i>Morinda pubescens</i>	Nura	நூரா
37	<i>Morinda citrifolia</i>	Vellai Nura	வெலை நூரா
38	<i>Phoenix sylvestris</i>	Eachi	ஏச்சி
39	<i>Pongamia pinnata</i>	Pungam	புங்கம்

40	<i>Premna mollissima</i>	Minnai	முள்ளை
41	<i>Premna serratifolia</i>	Narasurrai	செடி முள்ளை
42	<i>Premna tomentosa</i>	Mahipooarasu	மலை முள்ளை
43	<i>Prosopis cinerea</i>	Vanni marai	வண்டி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்டாங்க
46	<i>Pterospermum xylocarpum</i>	Polava	பொலா
47	<i>Pulhnanjira torburgii</i>	Karipala	கரிபலா
48	<i>Sabodora persica</i>	Ugaa Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungar, Soapukai	மாணிபுங்கர் சோபுகை
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Strobilus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos surdonia</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேர்தங்க கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Ternstroemia belleric</i>	Thandi	தாண்டி
56	<i>Ternstroemia arjuna</i>	Ven marudhu	வேன் மரூது
57	<i>Toona ciliata</i>	Sandhana vembu	சாந்தானா வெம்பு
58	<i>Thespesia populnea</i>	Pivarasu	பிவாரசு
59	<i>Walsuratrifolata</i>	valstra	வால்ஸ்டிரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodakkapuli	கொடக்காபுலி


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Appendix -II

Display Board

(Size 6' x5' with Blue Background and White Letters)

-----கருவிகள்

ஏற்கன்கோடுகள் குழுவினர் சேர்ந்துள்ளவர்கள் கருவியிலிருந்து அழகுபடுத்தப்பட்டு உடனடியாக விரைவில் கருவியில் வைக்கப்படும். உடனடியாக கருவியிலிருந்து அழகுபடுத்தப்பட்டு வரும் சேர்ந்துள்ளவர்களுக்கு உடனடியாக கருவியில் வைக்கப்படும்.

யுகாருவியின் கருவியில்	குறுகிய அளவிற்கான கருவியில் சேர்ந்துள்ளவர்களுக்கு
கருவியிலிருந்து அழகுபடுத்தப்பட்டு	சேர்ந்துள்ளவர்களுக்கு உடனடியாக கருவியில் வைக்கப்படும்.
உடனடியாக	சேர்ந்துள்ளவர்களுக்கு உடனடியாக கருவியில் வைக்கப்படும்.
கருவியிலிருந்து அழகுபடுத்தப்பட்டு	சேர்ந்துள்ளவர்களுக்கு உடனடியாக கருவியில் வைக்கப்படும்.
உடனடியாக	சேர்ந்துள்ளவர்களுக்கு உடனடியாக கருவியில் வைக்கப்படும்.
கருவியிலிருந்து அழகுபடுத்தப்பட்டு	சேர்ந்துள்ளவர்களுக்கு உடனடியாக கருவியில் வைக்கப்படும்.
உடனடியாக	சேர்ந்துள்ளவர்களுக்கு உடனடியாக கருவியில் வைக்கப்படும்.
கருவியிலிருந்து அழகுபடுத்தப்பட்டு	சேர்ந்துள்ளவர்களுக்கு உடனடியாக கருவியில் வைக்கப்படும்.
உடனடியாக	சேர்ந்துள்ளவர்களுக்கு உடனடியாக கருவியில் வைக்கப்படும்.
கருவியிலிருந்து அழகுபடுத்தப்பட்டு	சேர்ந்துள்ளவர்களுக்கு உடனடியாக கருவியில் வைக்கப்படும்.
உடனடியாக	சேர்ந்துள்ளவர்களுக்கு உடனடியாக கருவியில் வைக்கப்படும்.
கருவியிலிருந்து அழகுபடுத்தப்பட்டு	சேர்ந்துள்ளவர்களுக்கு உடனடியாக கருவியில் வைக்கப்படும்.
உடனடியாக	சேர்ந்துள்ளவர்களுக்கு உடனடியாக கருவியில் வைக்கப்படும்.


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