

## STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU

Minutes of 355<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 15.02.2023 (Wednesday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Maligai, Saldapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No.355 – 01.

(File No: B366/2021)

Proposed Rough Stone quarry lease over an extent of 1.00.0 Ha at S.F. No. 45/2C (Part-6) of Atthipadi Village, Tiruvannamalai Taluk, Tiruvannamalai District, Tamil Nadu by Thiru. S. Sathish Narayanan - for Environmental Clearance. (SIA/TN/MIN/ 60870/2021 dated 01.03.2022)

The details of the project furnished by the proponent are available in the website ([www.parivesh.nic.in](http://www.parivesh.nic.in)).

The SEAC noted the following:

1. The Project Proponent, Thiru. S. Sathish Narayanan has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 1.00.0 Ha at S.F. No. 45/2C (Part-6) of Atthipadi Village, Tiruvannamalai Taluk, Tiruvannamalai District, Tamil Nadu.
2. The proposed quarry/activity would fall under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. ToR was Issued vide letter No. SEIAA-TN/F. No. B366/SEAC/TOR-1012/2021 Dated: 21.08.2021.
4. Public hearing conducted on: 18.12.2021
5. EIA received on: 04.03.2022
6. The lease period is 10 years. The revised mining plan is for the period of 5 years & as per mining plan, the production should not exceed 1,18,504 cu.m. of Rough Stone. The annual peak production shall not exceed 24050 cu.m. of Rough Stone (1<sup>st</sup> Year). The ultimate depth – 25m (5m AGL & 20m BGL).

Sl. No	Details of the Proposal	Data furnished
1	Name of the Owner/Firm	Thiru.S.Sathish Narayanan S/o.Thiru.Selvam, No.15, Peygopuram, 11 <sup>th</sup> Street, Tiruvannamalai, Pincode- 606 601

  
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2	Type of quarrying (Rough Stone/Sand/Granite)	:	Rough Stone
3	S.F No. Of the quarry site with area break-up	:	45/2C (Part-6)
4	Village in which situated	:	Atthipadi
5	Taluk in which situated	:	Tiruvannamalai
6	District in which situated	:	Tiruvannamalai
7	Extent of quarry (in ha.)	:	1.00.0Ha
8	Latitude & Longitude of all corners of the quarry site	:	12°5'1.35"N to 12°5'5.03"N 79°2'08.68"E to 79°2'13.27"E
9	Topo Sheet No.	:	57 P/04
10	Type of mining	:	Opencast semi mechanized Mining
11	Period of quarrying proposed	:	5 years
12	Production (Quantity in m <sup>3</sup> )	:	118540m <sup>3</sup> of Rough stone
13	Depth of quarrying	:	25m (5M AGL& 20M BGL)
14	Depth of water table	:	63 m to 68 m BGL
15	Man Power requirement per day:	:	28 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)	:	4.3KLD 1.3 KLD 1.5KLD 1.5KLD
18	Power requirement A. Domestic Purpose	:	TNEB

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	a. Industrial Purpose		71814Liters of HSD
19	Whether any habitation within 300m distance	:	No
20	Precise area communication approved by the District Collector, with date	:	Rc.No.184/Mines/2020, dated 15.12.2020
21	Mining Plan approved by Deputy Director, Department of Geology and Mining with date	:	Revised mining plan vide Rc.No.184/Kanimam/2020, dated:06.09.2022
22	Deputy Director, Department of Geology and Mining 500m cluster letter		Rc.No.184/Kanimam/2020, dated:04.02.2021
23	VAO certificate regarding 300m radius cluster		Letter dt: 05.08.2020
24	Project Cost	:	Rs. 111.20 Lakh
25	EMP cost	:	EMP Cost – Rs. 24.25 Lakhs/ 5 Years including capital & recurring cost with 5% inflation cost anticipated every year.
26	CER cost		Rs.5 Lakhs

The proposal was placed in this 292<sup>nd</sup> Meeting of SEAC held on 07.07.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to ask for the following additional details from the PP.

- Documentary evidence from the concerned District Forest Officer showing the exact distance of location of the nearest Kannamadai R.F from the proposed quarry site.
- The PP shall furnish revised mining plan indicating proper bench geometry.

The proponent has furnished reply vide Ir. Dt: 09.09.2022. In this connection, the proposal was again placed in this 316<sup>th</sup> SEAC Meeting held on 30.09.2022. The Committee noted that both EIA Coordinator and project proponent were absent. The proposal was placed in the 562<sup>nd</sup> Authority meeting held on 25.10.2022. The Authority decided to communicate the SEAC minutes to the project proponent held on 30.09.2022.

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

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

In view of the above, the proposal was again placed in the 355th SEAC meeting Dt. 15.02.2023. The SEAC had observed the Revised Production as detailed below:

Year	Bench	As per Approved Plan			As per Approved Plan			Bench	Revised Bench Parameters after SEAC Meeting		
		Height (m)	Width (m)	Depth (m)	Height (m)	Width (m)	Depth (m)		Height (m)	Width (m)	Depth (m)
1 <sup>st</sup> Year	I	127	82	1	127	82	1	I	65	74	5
	II	62	62	4	62	62	4				
	II	119	25	5	119	25	5				
2 <sup>nd</sup> Year	II	119	49	5	119	49	5	I	19	74	5
								II	45	74	5
3 <sup>rd</sup> Year	III	111	55	5	111	55	5	II	42	74	5
								III	25	64	5
4 <sup>th</sup> Year	III	111	11	5	111	11	5	III	52	64	5
	IV	103	47	5	103	47	5	IV	25	54	5
5 <sup>th</sup>	IV	103	11	5	103	11	5	IV	42	54	5

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Year	V	95	30	5	95	30	5	V	57	44	5
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### REVISED PRODUCTION DETAILS

YEAR	Revised Yearly Production (m <sup>3</sup> )						Annual Peak Production Capacity (m <sup>3</sup> )	
	As per Approved Mining Plan		As per Approved ECR Resolves		Revised as per SEAC Meeting		As per Approved Mining Plan	Revised as per SEAC Meeting
	Rough Stone (m <sup>3</sup> )	Top Soil (m <sup>3</sup> )	Rough Stone (m <sup>3</sup> )	Top Soil (m <sup>3</sup> )	Rough Stone (m <sup>3</sup> )	Top Soil (m <sup>3</sup> )	Rough Stone (m <sup>3</sup> )	Rough Stone (m <sup>3</sup> )
I	15376	10414	15376	10414	24050	Nil	44030	24050
II	44030	Nil	44030	Nil	23680	Nil		
III	30525	Nil	30525	Nil	23540	Nil		
IV	30310	Nil	30310	Nil	23390	Nil		
V	19915	Nil	19915	Nil	23880	Nil		
Sub Total (I to V)	140156	10414	140156	10414	1,18,504	Nil		


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 5 Years and the ultimate depth of mining is up to 25m (5M AGL& 20M BGL) and for the production of 1,18,504 cu.m. of Rough Stone. The annual peak production shall not exceed 24,050 cu.m. 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:

  
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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 vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. 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.
3. The proponent shall create a separate bank account and shall deposit the cost allocated for the committed EMP activities every year and the said expenditure details spent on the committed EMP activities shall be maintained & periodically submitted to TNPCB.
4. The PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia & 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
5. 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.
6. 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 located in the cluster situation by adopting appropriate controlled

  
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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.

7. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
8. 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.
9. 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.
10. The PP shall prepare a Standard Operating Procedures (SOP) involving other operating mines in the cluster situation 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.
11. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP without deviation.
12. 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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13. 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.
14. 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.
15. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Middle School, Koppampetty as committed, before obtaining CTO from TNPCB.

**Agenda No: 355-02**  
**(File No: 7003/2022)**

**Proposed Fire Clay Deposit quarry lease over an extent of 1.78.11 Ha in S.F.No. S.F.Nos. 6/3, 6/4 in Managathi Village, 250/2B, 250/3A, 250/3B2, 250/3C, 250/4, 250/5 in Thathanur (west) Village at Managathi and Thathanur (west) Village, Udayarpalayam Taluk, Ariyalur District, Tamil Nadu by Tmt. R. Aruna- For Environmental Clearance. (SIA/TN/MIN/ 412243/2022, dated 27.12.2022)**

The proposal was placed in this 355<sup>th</sup> meeting of SEAC held on 15.02.2023. 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, Tmt. R. Aruna has applied for Environmental Clearance for the Proposed Fire Clay Deposit quarry lease over an extent of 1.78.11 Ha in S.F.No. S.F.Nos. 6/3, 6/4 in Managathi Village, 250/2B, 250/3A, 250/3B2, 250/3C, 250/4, 250/5 in Thathanur (west) Village at Managathi and Thathanur (west) Village, Udayarpalayam Taluk, Ariyalur 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, as amended.
3. The ToR issued vide Lr No.SEIAA-TN/F.No.7003/SEAC/ToR-776/2020 Dated: 06.10.2020.

  
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4. Public Hearing on 14.09.2021
5. EIA report submitted on: 07.01.2023.
6. The duplicate file vide online No. 48437/2019 filed by the PP for ToR needs to be withdrawn.

Sl. No.		
1.	Name of the Owner / Firm	Tmt. M. ARUNA W/o. Shri Parkkavan Patchamuthu No. 6/3234, Thiruvalluvar Avenue, No.1, Toll Gate, Bikshandar kovil, Mannachanallur, Trichy - 621216
2.	Type of quarrying (Rough stone / Sand / Granite)	Fire Clay
3.	S.F No. of the quarry site	6/3, 6/4 in Managathi Village, 250/2B, 250/3A, 250/3B2, 250/3C, 250/4, 250/5 in Thathanur (west) Village
4.	Village	Managathi and Thathanur (west)
5.	Taluk	Udayarpalayam
6.	District	Ariyalur
7.	Extent of Quarry (in ha.)	1.78.11 Ha (Patta Land)
8.	Period of Quarrying proposed	5years
9.	Type of Mining	Opencast Mechanized Method of Mining without Drilling and Blasting
10.	Production (Quantity in m <sup>3</sup> )	As per the approved mining plan,  Geological reserves: 5,84,254 Tonne of Fire Clay to the ultimate depth of 23m BGL (2m Topsoil + 21m Fire Clay)  5-year Production: 91,841 Tonne of Fire Clay  The annual peak production as per mining plan is 10,367 Tonne of Fire Clay (5 <sup>th</sup> year)

  
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11.	Proposed Depth of Mining	8m BGL (2m Topsoil + 6m Fire Clay)
12.	Ultimate depth of pit	23 m
13.	Latitude & Longitude of all corners of the quarry site	11°09'19.19"N to 11°09'25.09"N 79°14'48.19"E to 79°14'54.13"E
14.	Topo sheet No.	58- M/04
15.	Man power requirement	13 Nos
16.	Precise Area Communication	Lr.No.14022/MMC.2/2018-1 dated: 24.12.2018
17.	Mining plan approval letter	Lr.No.6801/MM3/2018/FC/Ari, dated: 04.03.2019
18.	500m letter	Rc.No.310/G&M/2017, dated: 08.03.2019
19.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression (in KLD) & Green Belt (in KLD)	3 KLD 0.7 KLD & 1.3KLD & 1.0 KLD
20.	Power requirement: a. Domestic purpose b. Industrial Purpose	TNEB
21.	Depth of Water table	30 - 35 m BGL
22.	Whether any habitation within 300m distance	No
23.	Project cost	Rs 38,18,950/-
24.	EMP cost	Capital Cost: Rs. 15,78,892/- Recurring cost/Annum- Rs. 5,57,295.20/-
25.	CER cost	Rs. 8,00,000/-
26.	VAO letter dated	Letter dated: 12.03.2019

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the excavation quantity of 91,841 tonne of Fireclay for a period of 5 years with keeping an ultimate pit depth of 23 m with maintaining the annual peak production of 10,367 tonne of Fireclay as per the approved mining plan is 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 vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as mine foreman (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 Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the existing benches with adequate width properly aligned for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
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. However, the PP shall carry out the scientific studies to assess the slope stability of the working highwall benches and quarry wall after the completion of 3 years of operation for ensuring the safety aspects in the fire clayey formation, 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.
6. The proponent shall create a separate bank account and shall deposit the cost allocated for the committed EMP activities every year and the said expenditure details spent on the committed EMP activities shall be maintained & periodically submitted to TNPCB.
7. The PP shall ensure that the following provisions are provided due to the existence of Reserved Forest at a distance of 200 m:

  
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- i. Since the R.F is located very close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in two to three rows) along the boundary of the mine lease area before obtaining the CTO from the TNPCB.
- ii. The proponent shall construct and maintain proper fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forest before the commencement of the operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
- iii. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate dumps positioned in opposite direction to the location of the reserved forest.
- iv. The PP shall ensure that such waste/reject dumps shall be properly secured to prevent escape of material there from in harmful quantities which may cause degradation of environment and to prevent causation of floods.
- v. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
- vi. The PP shall take necessary steps that wherever possible, the waste rock, overburden etc. shall be back-filled into the mine excavations with a view to restoring the land to its original use as far as possible.
- vii. Wherever back-filling of waste rock in the area excavated during mining operations is not feasible, the PP shall take adequate steps in discussion with the concerned DFO to suitably terrace the waste dumps ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
- viii. The PP shall carry out the scientific investigations in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.
- ix. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional

methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.


- x. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying operations within 'Permissible Limits' specified under the environmental laws.
- xi. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.
- xii. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry out the quarrying on steep hill slopes with a gradient of 200 or more or areas with a high degree of erosion on forestland.
- xiii. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco-sensitive Zone of 60 m without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.
- xiv. The PP shall not use plastic carry bags within the quarry area.
- xv. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free from blockage for runoff disposals. This run off from the road side drainage shall relate to the natural drainage system in the area.
- xvi. The PP shall adhere to the provisions of the MoEF had issued Notification No. S.O. 1545 dated 25th June 2009 regulating certain activities in the eco-sensitive zone to conserve and protect the reserved forest area from ecological and environmental point of view.

  
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8. The PP shall discharge the mine water into the surrounding lands directly unless letting it pass through a dedicated precipitation tank constructed exclusively on the surface.
9. The PP shall carry out hydrogeological studies within one year from the commencement of the mining operations. the PP shall carry out the Hydrogeological studies of the area for devising the Water Management Plan, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, University of Madras-Dept of Geology and Anna University Dept of Geology, 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.
10. 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.
11. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
12. 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.
13. 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.
14. 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.

15. 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.
16. 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.
17. 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.
18. **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.
19. 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.
20. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
21. 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

  
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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.

22. 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.
23. 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
24. 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.
25. 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.
26. 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.
27. 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.
28. Prior clearance from Forestry & Wild Life including clearance from Committee of the National Board for Wildlife as applicable shall be obtained before starting the

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

29. 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.

30. 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.

31. 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.

32. 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.

33. 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.

34. As accepted by the Project proponent the CER cost is Rs. 8 lakh and the amount shall be spent for the committed activities before obtaining CTO from TNPCB.

Agenda No: 355-03

(File No: 7964/2020)

Proposed gravel quarry lease over an extent of 1.32.0 Ha at S.F. Nos.215/8, 215/9, 227/2A, 227/2B, 227/7 & 227/9 of Keelaramanadhi village, Kamuthi Taluk, Ramanathapuram District, Tamil Nadu by Thiru. M. Vadivel - For Environmental Clearance. (SIA/TN/MIN/150145/2020 dated.21.03.2020)

  
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The proposal was placed for appraisal in this 355<sup>th</sup> meeting of SEAC held on 15.02.2023. The details of the project furnished by the proponent are available on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, **Thiru. M. Vadivel** has applied for Environmental Clearance for the proposed gravel quarry lease over an extent of 1.32.0 Ha at S.F. Nos.215/8, 215/9, 227/2A, 227/2B, 227/7 & 227/9 of Keelaramanadhi village, Kamuthi Taluk, Ramanathapuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item I(a) "Mining of Minerals Project" of the Schedule to the EIA Notification, 2006.
3. The soil test report dated 09.09.2022 submitted by the proponent obtained from NIT, Trichy indicates the total average % of sand present in the soil is above 40%, i.e. 56%.
4. A water tank is located at a distance of 370 m.
5. Acting on the Judgment issued by the Hon'ble Madurai Bench of Madras High Court in W.P.(MD) Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019 dated 12.02.2021, the Director of Geology and mining, Govt of Tamil Nadu, in his letter No. 7240/MM6/2019 Dt. 30.7.2021, has inter alia, issued the following directions:
  - No quarry lease shall be granted in areas where the test results indicate the presence of sand in the composition.
  - No quarry lease shall be granted in the patta lands adjoining to the rivers, streams, canals etc.,
  - No permission shall be granted for quarrying Gravel, Earth, etc., in patta land for a period less than one year.
  - Lease deed shall be executed in the Form set out in Appendix IV or Appendix V to the Tamil Nadu Minor Mineral Concession Rules 1959.

In the present case, the Committee, therefore decided not to recommend the proposal for grant of Environmental Clearance since the current proposal attracts the point (i) of letter

  
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No. 7240/MM6/2019 Dt. 30.7.2021 of Director of Geology and Mining, Govt of Tamil Nadu, as mentioned above.

Agenda No: 355 - 04

(File No: 8777/2021)


Proposed Rough stone , Jelly and Gravel quarry over a total extent of 2.59.0 Ha at S.F.Nos. 161/2A2, Kasthuriengapuram Part II Village, Tisaiyanvilai Taluk, Tirunelveli District by Thiru M. Subramanian - For Environmental Clearance.  
(SIA/TN/MIN/ 216039/2021, dated: 09.7.2021).

The proposal was placed for appraisal in this 335<sup>th</sup> meeting of SEAC held on 15.02.2023. 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 M. Subramanian has applied seeking Environmental Clearance for the proposed Rough stone , Jelly and Gravel quarry over a total extent of 2.59.0 Ha at S.F.Nos. 161/2A2, Kasthuriengapuram Part II Village, Tisaiyanvilai Taluk, Tirunelveli District.
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 mining plan, the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 419971m<sup>3</sup> of rough stone, 5174 m<sup>3</sup> of Weathered Rock & 5427m<sup>3</sup> of Gravel with an ultimate depth of mining is 47m below ground level. The annual peak production 83980m<sup>3</sup> of rough stone (3<sup>rd</sup> year), 5174 m<sup>3</sup> of Weathered Rock(1<sup>st</sup> year) & 5427m<sup>3</sup> of Gravel (1<sup>st</sup> year).
4. Wind mills are located 500m away from the project site.

Sl No	Details of the Proposal	Date Submitted
1.	Name of the Owner/Firm	: Thiru. M. Subramanian, S/o. Mailappan, No.31, Second Street,

  
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		Esuari Garden, K.K. Nagar, Trichy District - 620 021.
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone, Jelly & Gravel
3.	S.F No. of the quarry site with area break-up	: 161/2A2
4.	Village in which situated	: Kasthurirengapuram Part-II
5.	Taluk in which situated	: Tisaiyanvilai
6.	District in which situated	: Tirunelveli
7.	Extent of quarry (in ha.)	: 2.59.0 Ha
8.	Period of quarrying proposed	: 5 years
9.	Type of mining	: Opencast Mechanized Mining
10.	Production (Quantity in m <sup>3</sup> )	: The production should not exceed 419971m <sup>3</sup> of rough stone, 5174 m <sup>3</sup> of Weathered Rock & 5427m <sup>3</sup> of Gravel. The annual peak production 83980m <sup>3</sup> of rough stone (3 <sup>rd</sup> year), 5174 m <sup>3</sup> of Weathered Rock(1 <sup>st</sup> year) & 5427m <sup>3</sup> of Gravel (1 <sup>st</sup> year)
11.	Latitude & Longitude of all corners of the quarry site	: 08°16'08.35"N to 08°16'15.50"N 77°47'18.17"E to 77°47'23.08"E
12.	Top Sheet No.	: 58-H/15
13.	Man Power requirement per day:	: 26 Nos.
14.	Precise area communication approved by Joint Director / Assistant Director (i/c), Department of Geology and Mining with date	: Rc.No.MI/13529/2018, dt.28.12.2020
15.	Mining Plan approved by Joint Director / Assistant Director (i/c), Department of Geology and Mining with date	: Rc.No.MI/13529/2018, dt.09.01.2021
16.	Water requirement:	: 2.5 KLD

	3. Drinking & domestic purposes (in KLD)	1.0 KLD
	4. Dust suppression (in KLD)	1.0 KLD
	5. Green Belt (in KLD)	0.5 KLD
17.	Power requirement a. Domestic Purpose b. Industrial Purpose	TNEB 3,36,868 Liters of HSD
18.	Depth of quarrying	: 47m bgl
19.	Depth of water table	: 58m bgl
20.	Whether any habitation within 300m distance	: No
21.	Project Cost (excluding EMP cost)	: Rs. 85,36,000/-
22.	EMP cost	: Capital Cost – Rs. 21,71,000/ year Recurring Cost – Rs. 12,46,000/year Total Rs.90,55,937/ 5 years
23.	CER cost	: Rs. 5,00,000/-
24.	Assistant Director, mines 500m cluster letter	: Rc. No. M1/13529/2018, dt.09.01.2021
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 exceed 419971m<sup>3</sup> of rough stone, 5174 m<sup>3</sup> of Weathered Rock & 5427m<sup>3</sup> of Gravel with maintaining an ultimate pit depth of 47m BGL & annual peak production capacity of 83980m<sup>3</sup> of Rough stone, 5174 m<sup>3</sup> of Weathered Rock & 5427m<sup>3</sup> 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

  
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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 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.
4. 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.
5. 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).
6. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
7. 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.

8. 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.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
10. 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.
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 only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
13. 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.
14. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
15. The PP shall carry out the comprehensive hydrogeological studies within 2 years from the commencement of the quarrying operation to assess the quality &

  
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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.

16. 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.
17. 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.
18. 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.
19. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Govt Hr Sec School School, Athukurichi as committed, before obtaining CTO from TNPCB.

**Agenda No: 355 - 05**

**(File No: 8675/2022)**

**Proposed Rough Stone & gravel quarry lease over an extent of 1.00.0 Ha at S.F.Nos. 163/5(Part), Uttathur Village, Laigudi Taluk, Tiruchirappalli District, Tamil Nadu by Tvl C S Mines -For Environmental Clearance (SIA/TN/MIN/220891/2021 dated: 26.07.2021).**

The proposal was placed in this 355<sup>th</sup> meeting of SEAC held on 15.02.2023. 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, Tvl C S Mines has applied for Environmental Clearance for the Proposed Rough Stone & gravel quarry lease over an extent of 1.00.0 Ha at

  
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S.F.Nos. 165/5(Part), Uttathur Village, Lalgudi Taluk, Tiruchirappalli District Tamil Nadu.

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

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

Agenda No: 335 - 06

(File No: 8777/2021)

Proposed Rough stone & Gravel quarry over a total extent of 1.44.0 Ha at S.F.Nos. 100/5, 100/6F, 100/6C, 100/6D and 100/6E of Girijapuram Village, Vembakkam Taluk, and Tiruvannamalai District by Thiru V.Gopalakrishnan - For Environmental Clearance. (SIA/TN/MIN/ 406752/2022, dated: 17.11.2022).

The proposal was placed for appraisal in this 335<sup>th</sup> meeting of SEAC held on 15.02.2023. 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 V.Gopalakrishnan has applied seeking Environmental Clearance for the proposed Rough stone & Gravel quarry over a total extent of 1.44.0 Ha at S.F.Nos. 100/5, 100/6F, 100/6C, 100/6D and 100/6E of Girijapuram Village, Vembakkam Taluk, and Tiruvannamalai District.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 89.805m<sup>3</sup> of rough stone & 5244m<sup>3</sup> of Gravel with an ultimate depth of mining is 33m below ground level.
4. ToR Issued Vide L.No.SEIAA-TN/F.No.8777/SEAC/TOR-1058/2022,Dated 28/01/2022.
5. Public hearing conducted on Dated: 24.06.2022.

  
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Sl. No		
1	Name and Address	Thiru.V.Gopalakrishnan S/o.Varadhan No.117, Bajanai Kovil Street Parandur Village & Post Kanchipuram District-631552
2	Type of quarrying	Rough stone & Gravel
3	S.F No. Of the quarry site with area break-up	100/5, 100/6F, 100/6C, 100/6D and 100/6E
4	Village in which situated	Girijapuram
5	Taluk in which situated	Vembakkam
6	District in which situated	Tiruvannamalai
7	Extent of quarry (in ha.)	1.44.0 Ha
8	Period of quarrying proposed	5 years
9	Type of mining	Opencast semi Mechanized Mining
10	Production (Quantity in m <sup>3</sup> )	As per mining plan, the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 89,805m <sup>3</sup> of rough stone & 5244m <sup>3</sup> of Gravel with an ultimate depth of mining is 33m below ground level.
11	Latitude & Longitude of all corners of the quarry site	12°43'54.67"N to 12°44'03.74"N 79°41'58.34"E to 79°42'01.27"E
12	Topo Sheet No.	57 P/10
13	Man Power requirement per day:	16 Employees
14	Precise area communication approved by the Assistant Director of Geology and Mining with date	Na.Ka.No.212/Kanimam/2020.dated: 12.07.2021

15	Mining Plan approved by the Deputy Director of Geology and Mining with date	Rc.No.212/Kanimam/2020,dated: 10.08.2021
16	AD mines 500m cluster letter approved by the Deputy Director of Geology and Mining with date	Rc.No.212/Kanimam/2020, dated: 05.08.20218
17	Water requirement: 6. Drinking & domestic purposes 7. Dust suppression 8. Green Belt	1.8KLD 0.8KLD 0.5 KLD 0.5 KLD
18	Power requirement: a. Domestic Purpose b. Industrial purpose	TNEB 16+ 5 litres per hours
19	Depth of quarrying	33m BGL
20	Depth of water table	50m BGL
21	Whether any habitation within 300m distance	No
22	Project Cost	Rs.41 Lakhs
23	EMP cost	Rs.91.87 Lakhs
24	CER cost	Rs.5 Lakhs
25	VAO letter	Letter Furnished dated: Nil
26	ToR Issued	ToR Issued Vide Lr.No.SEIAA-TN/F.No.8777/SEAC/TOR-1058/2022,Dated 28/01/2022.
27	Public Hearing Details	Public hearing conducted on Dated: 24.06.2022.

  
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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 84,020m<sup>3</sup> of Rough Stone and 5244m<sup>3</sup> of gravel with not exceeding the annual peak production of 17,873m<sup>3</sup> of Rough Stone and 5244m<sup>3</sup> of gravel by keeping an ultimate pit depth of 28m 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 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 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.
4. 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.
5. 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.

  
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6. 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).
7. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
8. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall 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.
9. 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.
10. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
11. 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.

  
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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. 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.
17. 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.
18. 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.
19. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Govt School, Sodiyaibakkam as committed, before obtaining CTO from TNPCB.

**Agenda No: 335 - 07**

**(File No: 8897/2021)**

**Proposed Rough stone quarry over a total extent of 3.25.0 Ha at S.F.Nos. 33/4, 5, 6, 7, 9, 10, 12, 16, 34/10, 11, 12, 13, 14, 15, 16, 17H, 17I, 17J, 17K, 18, 19A, 19B, 19C, 20, 21, 22A, 22B, 23 & 24(P), Vellianur Village, Kulathur Taluk, Pudukkottai District by Tmt. B. Pandiselvi. - For Environmental Clearance.**

  
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(SI/TN/MIN/ 241678/2021, dated: 1.12.2021).

The proposal was placed for appraisal in this 355<sup>th</sup> meeting of SEAC held on 15.02.2023. 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, Tmt. B. Pandiselvi, has applied seeking Environmental Clearance for the Rough stone quarry over a total extent of 3.25.0 Ha at S.F.Nos. 33/4, 5, 6, 7, 9, 10, 12, 16, 34/10, 11, 12, 13, 14, 15, 16, 17H, 17I, 17J, 17K, 18, 19A, 19B, 19C, 20, 21, 22A, 22B, 23 & 24(P), Vellanur Village, Kulathur Taluk, Pudukkottai District.
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 mining plan, the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 293345m<sup>3</sup> of rough stone, with an ultimate depth of mining is 47m below ground level. The annual peak production 73910m<sup>3</sup> of rough stone (5<sup>th</sup> year).

Sl. No	Details of the Proposal	Date Furnished
1.	Name of the Owner/Firm	: Tmt. B. Pandiselvi, W/o. K.R.N. Bose, No.44, Thayinipatti Village, Iluppur Taluk, Pudukkottai District – 622 101.
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone
3.	S.F No. of the quarry site with area break-up	: 33/4, 5, 6, 7, 9, 10, 12, 16, 34/10, 11, 12, 13, 14, 15, 16, 17H, 17I, 17J, 17K, 18, 19A, 19B, 19C, 20, 21, 22A, 22B, 23 & 24(P)

  
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4.	Village in which situated	:	Vellanur
5.	Taluk in which situated	:	Kulathur
6.	District in which situated	:	Pudukkottai
7.	Extent of quarry (in ha.)	:	3.25.0 Ha
8.	Period of quarrying proposed	:	5 years
9.	Type of mining	:	Opencast Semi Mechanized Mining
10.	Production (Quantity in m <sup>3</sup> )	:	The mining plan is for the period of five years & the production should not exceed 293345m <sup>3</sup> of rough stone, with an ultimate depth of mining is 47m below ground level. The annual peak production 73910m <sup>3</sup> of rough stone (5 <sup>th</sup> year).
11.	Latitude & Longitude of all corners of the quarry site	:	10°28'17.1200"N to 10°28'12.9265"N 78°47'15.7935"E to 78°47'8.2130"E
12.	Top Sheet No.	:	58-J/15
13.	Man Power requirement per day:	:	15 Nos.
14.	Precise area communication approved by Assistant Director, Department of Geology and Mining with date	:	Rc.No. 422/2020 (G&M), dt.06.10.2021
15.	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	:	Rc.No. 422/2020 (G&M), dt.13.10.2021
16.	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression (in KLD) 3. Green Belt (in KLD)	:	1.75 KLD 0.75 KLD 0.5 KLD 0.5 KLD
17.	Power requirement c. Domestic Purpose d. Industrial Purpose	:	TNEB 2,36,592 Liters of HSD



18.	Depth of quarrying	: 47m bgl (2m Top Soil + 45m Rough Stone)
19.	Depth of water table	: 58m bgl
20.	Whether any habitation within 300m distance	: No
21.	Project Cost (including EMP cost)	: Rs. 66,40,000/-
22.	EMP cost	: Capital cost – Rs. 1659000/ year Recurring cost – Rs. 1372595/ year Total cost - Rs. 9243449/5 year
23.	CER cost	: Rs. 5,00,000/-
24.	Assistant Director, mines 500m cluster letter	: Rc.No. 422/2020 (G&M). dt.13.10.2021
25.	VAO certificate regarding 300m radius cluster	: Letter dated 01.11.2021

4. Earlier, this proposal has placed in 277<sup>th</sup> SEAC meeting held on 26.5.2022, this proposal is for the grant of EC for an existing quarry and it was operated by Thiru K.R.N. Bose, husband of the proponent for a period of four years from 29.01.2016 to 26.09.2020. Hence SEAC decided to obtain following detail from the PP.

- The certified compliance report of the earlier EC issued in the name of Thiru K.R.N. Bose from MOEF&CC/TNPCB.
- The PP shall furnish registered lease deed in the name of PP

Now, the PP has furnished the same and this proposal has again placed in 355<sup>th</sup> SEAC meeting held on 15.2.2023. Based on the presentation and documents furnished by the project proponent & considering the safety aspects, SEAC decided to reduce bench in X1Y1-EF section, accordingly recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 292905m<sup>3</sup> of Rough Stone but however not exceeding the annual peak production of 73910m<sup>3</sup> of Rough Stone 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:

  
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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 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 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.
4. 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 DGM's Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
5. 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).
6. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease as the depth of proposed working is above 30 m after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
7. 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.

8. 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.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
10. 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.
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 only as per the provisions of MMR 1961 and It shall not be carried out by the persons other than the above statutory personnel.
13. 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.

  
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14. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
15. The PP shall carry out the comprehensive hydrogeological studies within 2 years of the commencement of 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 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.
16. 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.
17. 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.
18. 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.
19. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Govt primary School and Govt Hr Sec School Cavery Nager as committed, before obtaining CTO from TNPCB.

**Agenda No: 355-08**

**(File No: 8524/2022)**

**Proposed Expansion in Manufacturing of Synthetic Organic Chemicals at Plot No.18, SIDCO Pharmaceutical Complex, S.F.No.237/1 part of Alathur Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu by M/s. Pure Organic Industries- For Environmental Clearance. (SIA/TN/IND3/405849/2022 Dt. 09.11.2022)**

  
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The proposal was placed for appraisal in 355<sup>th</sup> meeting of SEAC held on 15.02.2023. 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. Pure Organic Industries**, has applied for Environmental Clearance for the Proposed Expansion in Manufacturing of Synthetic Organic Chemicals at Plot No.18, SIDCO Pharmaceutical Complex, S.F.No.237/1 part of Alathur Village, Thiruporur Taluk, Chengalpattu District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 5(f) "Synthetic Organic Chemicals Industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)" of the Schedule to the EIA Notification, 2006.
3. ToR Issued vide Letter No. SEIAA-TN/F.No.8524/SEAC/5(f)/TOR/A-1258/2022 dated: 20.09.2022
4. The salient features of the project are as follows:

S. No	Description	
1.	Name of the Project	Expansion in Manufacturing of Synthetic Organic Chemicals by M/s. Pure Organic Industries.
2.	Location	Plot No. 18, SIDCO Pharmaceutical Complex, S.F.No. 237/1 Part of Alathur Village, Thiruporur Taluk, Chengalpattu District <u>Co-ordinates:</u> Latitude: 12°41'38.4"N Longitude: 80°11'19.6"E
3.	Type of Project	Schedule 5(f) - Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)

  
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4.	Total Area	S.No	Particular	Area (Sq.m)	% of Total Land				
		1	Plot area	5175	100				
		2	Ground coverage area	1117.7	21.60				
		3	Greenbelt	466.2	10				
		4	ETP Area	60	1.1				
		5	Solid waste Storage and disposal area	27.3	0.5				
		6	Other Utilities Area	563.8	10.8				
		7	Raw material / Product Storage area	2940	56				
5.	Cost of Project (INR)	Rs. 975.26 Lakhs							
6	Details of Proposed Products	S. No	Name of the products	Quantity				Unit	End Use
		Existing	Proposed	Total	Status				
		1	Mixing of chemicals to manufacture Textile Chemicals						
		a	Textile Auxilliary	60000	0	60000	No Change	Kgs/ Month	For use in Industries
		b	Pre-treatment	120000	0	120000	No Change	Kgs/ Month	For use in industries
		c	Sizing agent for textile finishing	20000	0	20000	No Change	Kgs/ Month	For use in industries
		2	Mixing of chemicals to manufacture Cleaning agent						


		a	Industrial	20000	0	20000	No Change	Kgs/ Month	For use in Industries
		b	Press room chemicals	6000	0	6000	No Change	Kgs/ Month	For use in industries
		c	Domestic cleaners	9000	0	9000	No Change	Kgs/ Month	For use in Industries
		d	Personal Hygiene	100000	0	100000	No Change	Kgs/ Month	For use in industries
		3	Mixing of chemicals to manufacture Metal working Fluids						
		a	Additive	10000	0	10000	No Change	Kgs/ Month	For use in industries
		b	Stamping oil & Cutting oil	20000	0	20000	No Change	Kgs/ Month	For use in industries
		c	Rust preventive oils	70000	0	70000	No Change	Kgs/ Month	For use in industries
		4	Mixing of chemicals to manufacture Coating chemicals for granite coating	40000	0	40000	No Change	Kgs/ Month	For use in industries
		5	Mixing of chemicals to manufacture sugar processing	10000	0	10000	No Change	Kgs/ Month	For use in industries

  
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		chemicals for decolorization, flocculation agent						
	6	Mixing of chemicals to manufacture Textile Printing paste	45000	0	45000	No Change	Kgs/ Month	For use in industries
	7	Mixing of chemicals to manufacture Water treatment chemicals like scale/corrosion inhibitors, disperants, biocide and air cleaners/ purifiers.	55000	0	55000	No Change	Kgs/ Month	For use in industries
	8	Mixing of chemicals to manufacture Pigment dispenser	20000	0	20000	No Change	Kgs/ Month	For use in industries
	9	Reaction Products						
	a	Vinyl acetate polymer	0	30000	30000	New Addition	Kgs/ Month	For use in industries
	b	Acrylic copolymer emulsion	0	75000	75000	New Addition	Kgs/ Month	For use in industries
	c	Simple ester	0	10000	10000	New Addition	Kgs/ Month	For use in industries

  
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d	Complex ester	0	7500	7500	New Addition	Kgs/ Month	For use in Industries
e	Triacetin	0	100	100	New Addition	Kgs/ Month	For use in Industries
f	Prepolymer	0	50000	50000	New Addition	Kgs/ Month	For use in Industries
g	Triazine	0	5000	5000	New Addition	Kgs/ Month	For use in Industries
h	BKC 50/80%	0	15000	15000	New Addition	Kgs/ Month	For use in Industries
i	Glycerol formal	0	1000	1000	New Addition	Kgs/ Month	For use in Industries
j	Silicone surfactant	0	30000	30000	New Addition	Kgs/ Month	For use in Industries
k	Silicone Silane	0	20000	20000	New Addition	Kgs/ Month	For use in Industries
l	Ammonium salt phase transfer catalyst	0	5000	5000	New Addition	Kgs/ Month	For use in Industries
10	Laboratory Chemicals (HPLC/ AR/ LR/ Dry Solvents)						
a)	Purification of solvents	0	6000	6000	New Addition	Kgs/ Month	For Laboratory Use

  
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		b)	Purification of Acids	0	1000	1000	New Addition	Kgs/ Month	For Laboratory Use
		c)	Karl fisher Pyridine Free solution	0	200	200	New Addition	Kgs/ Month	For Laboratory Use
		d)	Petroleum Ether (PET Ether)	0	100000	100000	New Addition	MT/ Month	For Laboratory Use
			Total	605000	355800	960800	-	-	-
7.	ToR details	ToR Issued vide Letter No.SELAA TN/F.No.8524/SEAC/5(f)/TOR/A-1258/2022 dated: 20.09.2022							
8.	a) Water requirement	S.No.	Particulars	Water Requirement (KLD)					
				Existing	Proposed	After Expansion			
		I	Domestic	1.3	0.5	1.8			
		II	Gardening	0.16	0.14	0.3			
		III	Industrial						
			Process	7.04	1.93	8.97			
			Boiler	0	3.9	3.9			
			Cooling	0	0	0			
			Washing	0.3	0.29	0.59			
			Glassware cleaning	0.2	0.1	0.3			
			Scrubber make up	0	0.15	0.15			
			Total	9.00	7.01	16.01			
	b) Source	Private water Tankers							

9.	Sewage / effluent generation	Component	Wastewater Generation (In KLD)
		Domestic	1.8
		Gardening	.
		Industrial	1.56
		Total	3.36

  
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10.	Sewage/ Effluent treatment	ETP capacity – 5 kLD				
		S. No.	Unit Description	Size	Capacity	Quantity
		1	Equalization cum Neutralization Tank	2m x1.5m x2.5m	7.5 m3	1 No.
		2	Flash Mixer Tank	0.5mx1mx1.5 m	0.75 m3	1 No.
		3	Primary Settling tank	1m x1.0 mx2.6m	2.6 m3	1 No.
		4	Aeration Tank	3mx1.4mx2.5m	10m3	1 No.
		5	Secondary Settling tank	1mx1mx2.4m	2.4 m3	1 No.
		6	Clarified water tank	Area 1.35Sqm x 1.29 m	2 m3	1 No.
		7	Treated water tank	Area 1.35Sqm x 1.29 m	2 m3	1 No.
		8	UF Permeate tank	Area 1.35Sqm x 1.29 m	1.5 m3	1 No.
		9	Sludge Drying Bed	1.03m x 1.1 m	1.1 Sqm	1 No.
		10	RO – 1,2,3 Feed tank	Area 1.03 Sqm x 1.1 m	1.13 m3	3 No.
		11	RO reject tank	Area 1.03 Sqm x 1.1 m	0.75 m3	1 No.
		12	RO permeate tank	Area 1.03 Sqm x 1.1 m	0.75 m3	1 No.
		13	Solar pan	190 Sqm		
11.	Sewage/ effluent Mode of disposal	Treated effluent – 1.48 KLD Boiled feed – 0.89 KLD (RO permeate) Solar Evaporation Pan – 0.59 KLD (RO reject)				

  
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12.	Hazardous waste Management	Haz. Waste Category No.	Nature of waste	Existing Quantity in Tonnes / Annum	After Expansion Quantity in Tonnes / Annum	Waste type	Waste Storage	Waste Disposal	Source of generation of waste	Physical status	Existing Disposal practice
		5.1	Used or spent oil	0.5	0.5	Recyclable	MS Drums	Recovery and Reuse Authorized recyclers	Engine Oil, Lubrication Oil	Oily	Generation, Collection, Storage and Disposal to M/s. Atlas Corporation, Kangeyam Taluk, Tirupur District for recycling
		5.2	Waste or residue containing oils	0.3	0.3	Incinerable	PVC Gunny Bags	Preprocessor	Lubrication Oil Spillage, cleaning And Engine Oil Spillage cleaning	Semi Solid	
		33.1	Empty barrels/ Container w/Liners contaminated with hazardous chemicals/ wastes	25	35	Recyclable	Identified Suitable place	Recyclable	Rejected Barrel after rinsing and cleaning	Solid	

  
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		33.2	Contaminated cotton rags or other cleaning materials	1.8	3	Incinerable	Carry Carton Drum	Preprocessor	Storage Area	Solid	Generation, Collection, Storage, and Disposal to M/s. Green Gene Enviro Protection and Infrastructure Pvt. Ltd., Ranipet for Incineration /co-processing
		28.4	Off specification	2.0	3	Incinerable	Poly Bag	Preprocessor	Process	Solid	
		28.5	Life expired products	2.0	3	Incinerable	Poly Bag	Preprocessor	Process	Solid	
		35.3	Chemical sludge from wastewater treatment	0.5	2	Incinerable	Poly Bag	Preprocessor	ETP	Solid	
13.	Power requirement	➤ Total power requirement after expansion - 135 KVA (Source of power - TANGEDCO.)									

14.	Air Pollution Control Measures (Stack)	Particular	Unit	Stack1	Stack2	Stack3	Stack4	Stack5	Stack 6
		Stack attached to		Steam Boiler-1 (500kg/hr)	Steam Boiler-2 (500kg/hr)	Thermic Fluid Heater (1Lac Kcal/Hr)	DG Set 1 (160 kVA)	DG Set - 2 (160 kVA)	Process Stack-Reactors (Glass Lined Reactor & SS Reactor)
		Height	m	18	18	18	7	7	17
		Diameter	m	0.5	0.5	0.5	0.1	0.1	0.1
		Temp	K	400	400	400	473	473	303
		Velocity	m/s	6	6	6	8	8	2
		Flow rate	Nm3/Hr	3046	3046	3046	249	249	55.44
		Air Pollution Control measures		cyclone separator followed by Bag filter		cyclone separator	Adequate stack height as per CPCB Guidelines (Acoustic enclosures)		Emission sent through Wet Scrubber before letting out in stack
15.	Details of man power	48 Nos							
16.	EMP Cost (INR)	Capital cost- Rs. 44 Lakhs Recurring cost - Rs. 11.5 Lakhs per annum							

Based on the presentation made and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental

  
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**Clearance** subject to the following specific conditions, in addition to normal conditions stipulated by MOEF &CC:

1. The project proponent shall provide the green belt area not less than 33% of the land area and minimum 15% should be within the unit's premises. Selection of plant species shall be as per Appendix.
2. The project proponent shall furnish undertaking stating that nationally/ Internationally banned items are not used or produced.
3. The proponent shall adhere to the SOP issued by CPCB for solvent utilizing/ recovery units.
4. The project proponent shall provide ETP of capacity 5 KLD with ZLD system.
5. The proponent shall provide, operate and maintain adequate Air-pollution control measures for the process area.
6. The proponent should continuously monitor the VOC and ensure that VOC levels are within permissible limits.
7. The proponent shall obtain and maintain valid safety licenses for the concerned department for boiler, solvent/fuel/raw material storage areas etc.
8. The proponent shall ensure that the area for boiler is earmarked, further the proponent may submit the safety measures on the same to TNPCB before obtaining CTO.
9. The proponent shall strictly follow the norms and guidelines mentioned in the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 for the handling and disposal of Hazardous waste to be generated.
10. The proponent shall periodically conduct and submit fire safety study, emergency evacuation plan, risk assessment study, occupational health safety study for the worst case scenario in regard to existing safety measures/standard operating procedures adopted for the process/ equipment/utilities for operation & maintenance and the storage areas of products, raw materials, solvent, fuel, etc. in the different operating zones of the plant at least once in a year to regularly identify safety fragile areas within the plant which requires regular monitoring and



the proponent shall submit the same along with timeline for implementation of the said recommendations to the concerned departments.

11. A detail report on the safety measure and health aspects including periodical audiometry, pulmonary lung function, etc., test reports once in a year for all the workers shall be submitted to TNPCB.
12. As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
13. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall adhere the EMP as committed.
14. As accepted by the Project Proponent the CER cost is Rs. 8 lakhs and the amount shall be spent before obtaining CTO from TNPCB, for improvement of infrastructure facilities, drinking water facilities, greenbelt development, furnitures, hygienic toilets for Government Middle School, Alathur.

**Agenda No: 355 - 09**

**(File No: 8761/2021)**

**Proposed rough stone and gravel quarry lease area over an extent of 0.94.5 Ha at S.F. Nos. 95/22, 94/23 & 95/24 Chithannavasal Village, Iluppur Taluk, Pudukkottai District, Tamil Nadu by Thiru. R. Sathiyamoorthy - For Environmental Clearance amendment (SIA/TN/MIN/226014/2021, Dated: 25.08.2021).**

The proposal was placed in this 355<sup>th</sup> SEAC Meeting held on 15.02.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website ([parivesh.nic.in](http://parivesh.nic.in)).

**The SEAC noted the following:**

1. The project proponent, Thiru. R. Sathiyamoorthy has applied for the Environmental Clearance for proposed rough stone and gravel quarry lease area over an extent of 0.94.5 Ha at S.F. Nos. 95/22, 94/23 & 95/24 Chithannavasal Village, Iluppur Taluk, Pudukkottai District, Tamil Nadu.

  
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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. As per the mining plan, the lease period is for 5 years. The production for 5 years not to exceed 27,780 m<sup>3</sup> of rough stone. The annual peak production as per mining plan is 6445m<sup>3</sup> of rough stone (2<sup>nd</sup> year) with ultimate depth of 17m BGL.
4. Earlier the proposal was placed in the 271<sup>st</sup> SEAC Meeting held on 12.5.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following details from the project proponent. The project proponent shall furnish a NOC from Archaeological Survey of India, since the Chithannavasal Archaeological site is located in the vicinity of the proposed site.
5. Subsequently, based on the reply furnished by the PP, the proposal was placed in the 307<sup>th</sup> SEAC meeting held on 26.08.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal with following changes in its geometry of operation:
6. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for quantity of 27,780 m<sup>3</sup> of Rough Stone and for an annual peak production of 6,445m<sup>3</sup> of Rough Stone by restricting the Ultimate depth of 17 m subject to the standard conditions & normal conditions stipulated by MOEF&CC.
7. Subsequently, the proposal was placed in the 552<sup>nd</sup> Authority meeting held on 20.09.2022. The proponent was requested to furnish NOC from Archeological Survey of India. But the proponent had obtained Site report from the Assistant Director, Department of Geology and Mining, Pudukottai. The Authority after detailed discussion, decided that
  1. As per the amendment to the Tamil Nadu Minor Mineral Concession Rules, 1959 [G.O. MS. No. 295, industries (mmc.1), 3<sup>rd</sup> November 2021.

In the said Rules, -(4) in rule 36, in sub-rule (1-A), -(d) "*Notwithstanding anything contained in any law for the time being in force, no lease or license shall be granted for quarrying of any mineral within 500 metres radial distance from the boundaries of an archaeological site or remains and ancient Monument.*"

The proponent had submitted the village map indicating the distance from the centre of the proposed mine lease area and the archaeological site. Hence, the proponent is requested to submit the radial distance from the boundary of the archaeological site to the nearest mine lease boundary.

2. Further, the assistant director has recommended the report based on the observations of the VAO. Hence, AD/Mines is directed to inspect the site and measure the shortest distance between the Archeological site and the nearest mine lease boundary and shall issue a letter regarding the same.
3. The proponent must submit the NOC letter obtained from the Archeological Survey of India as per the additional details sought in the 271<sup>st</sup> SEAC meeting held on 12.05.2022.

In the view of the above, SEAC may examine with the above-mentioned points and furnish the remarks to SEIAA.

8. Based on the reply furnished by the proponent, the proposal was again placed in the 322<sup>nd</sup> SEAC meeting held on 19.10.2022. Based on the presentation made by the proponent, SEAC decided to call for additional details

1. The proponent shall clarify regarding the boundary of the Chirhannavasal cave from the competent authority. Further, the proponent is requested to obtain the distance from the boundary of the archeological site to the nearest proposed mine lease area boundary from the competent authority.

  
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2. Further, the assistant director has recommended the report based on the observations of the VAO. Hence, AD/Mines is directed to inspect the site and measure the shortest distance between the Archeological site and the nearest mine lease boundary and shall issue a letter regarding the same.
  3. The proponent shall submit a report regarding the Impacts of quarrying on the paintings inside the archaeological site considering the dust pollution, blast-induced vibrations, noise etc., and further shall discuss the mitigation measures to be adopted to conserve the archeological site.
9. Again, the proposal was placed in the 338<sup>th</sup> SEAC meeting held on 14.12.2022. During the presentation the PP requested for want of time for submitting the ADS queries asked in the previous SEAC meeting and SEAC therefore decided to defer the proposal.

The proposal is for Rough stone & Gravel the salient features of the proposal are as follows:

Sl No	Particulars	Details
1.	Name of the Owner/Firm	: Thiru.R.Sathyamoorthy S/o.Ramasamy Ellaiyapatti, Mathiyannallur Illuppur Pudukkottai District-622102
2.	Type of quarrying	: Rough stone & Gravel
3.	S.F No. Of the quarry site with area break-up	: 95/22, 95/23, & 95/24
4.	Village in which situated	: Chithannavasal
5.	Taluk in which situated	: Illuppur
6.	District in which situated	: Pudukkottai
7.	Extent of quarry (in ha.)	: 0.94.5Ha
8.	Period of quarrying proposed	: 5 years

  
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9.	Type of mining	Opencast semi Mechanized mining
10.	Production (Quantity in m <sup>3</sup> )	: 27,780 m <sup>3</sup> Rough stone
11.	Depth of quarrying	: 17m
12.	Latitude & Longitude of all corners of the quarry site	: 10°27'14.98"N to 10°27'13.78"N 78°44'02.67"E to 78°43'58.98"E
13.	Top Sheet No.	: 58 J/11
14.	Man Power requirement	18 Nos.
15.	Precise area District Collector with date	: Rc.No. 152/2020(G&M). Dated: 04.02.2021
16.	Mining Plan approved by Assistant Director, Department of G&M Mines with date	: Rc.No. 152/2020 (G&M). Dated: 24.03.2021
17.	Deputy Director, Department of G&M Mines with date 500m duster letter	: Rc.No. 152/2021 (G&M). Dated: 21.04.2021
18.	Water requirement: 9. Drinking & Domestic Purpose 10. Dust suppression 11. Green Belt (in KLD)	: 5.0 KLD 1.25 KLD 1.75 KLD 2.0 KLD
19.	Power requirement e. Domestic Purpose f. Industrial Purpose	: 24,256 Liters of HSD will be utilized for this quarry operation.
20.	Depth of water table	: 35m
21.	EMP cost	: Capital cost: Rs. 16,59,876 Recurring cost: Rs. 7,38,890
22.	CER cost	: Rs. 5,00,000
23.	Total Project Cost (Excluding EMP)	: Rs. 12,00,000
24.	VAO certificate regarding habitation within 300m radius	: Letter Dated:12.04.2021

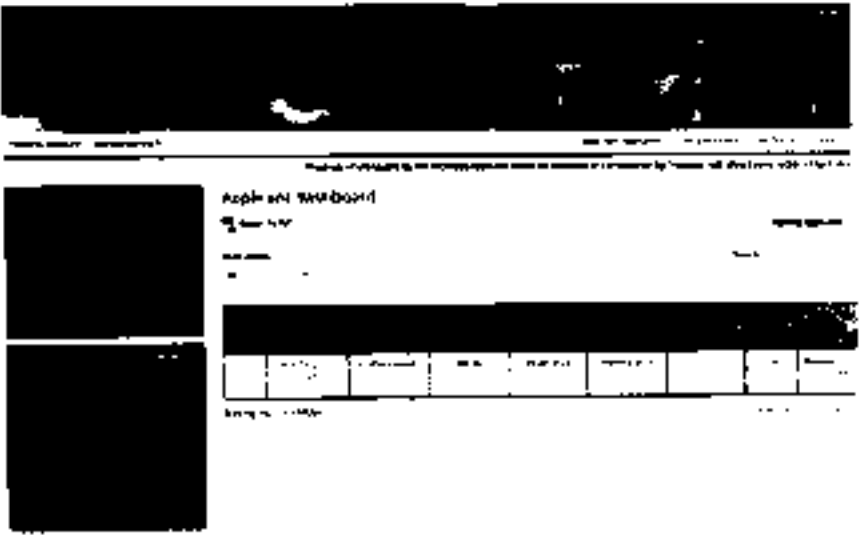
The proposal is now placed in the 355<sup>th</sup> SEAC meeting held on 15.02.2023 and the

  
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PP replies are below.

S. No	SEMA Query	
1	<p>The proponent shall clarify regarding the boundary of the Chithannavasal cave from the competent authority.</p> <p>Further, the Proponent is requested to obtain the distance from the boundary of the archeological site to the nearest Proposed mine lease area boundary from the competent authority.</p>	<p>1. The proponent filed the form to Competent Authority of ASI on 05<sup>th</sup> Jan 2023 and till the NOC is pending.</p>  <p>2. According to a government order issued by Industries, Investment Promotion and Commerce Department amended the prohibited area for the grant of lease from the archaeological sites and remains, ancient monuments within the safety distance of 500 meter from the boundary of such site by <b>reducing the radial safety distance to 300 meter in consonance with the ancient monuments and Archaeological Sites and Remains Act, 1958</b> by making necessary amendments in the Rule 36 (1-A) (d).</p>

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2	<p>The proponent shall submit the detailed study report regarding the impact on the archeological site due to blasting.</p>	<div><p style="text-align: center;"><b>Table 4 Permissible PPV as per DGMS</b></p><p style="text-align: center;">Table 3) Permissible vibration levels as per DGMS in India (L3)</p><table><tr><th rowspan="2">Type of structure</th><th colspan="3">Dominant frequency, Hz</th></tr><tr><th>&lt; 6 Hz</th><th>1 - 25 Hz</th><th>&gt; 25 Hz</th></tr><tr><td colspan="4"><b>(A) Buildings/structures not belonging to life critical</b></td></tr><tr><td>Domestic buildings (Kachhi huts and common)</td><td>5</td><td>10</td><td>15</td></tr><tr><td>Industrial Buildings (R/C and frame structures)</td><td>10</td><td>20</td><td>25</td></tr><tr><td>Effect of structural deterioration and structural cracks etc.</td><td>5</td><td>10</td><td>10</td></tr><tr><td colspan="4"><b>(B) Buildings belonging to plant with limited span of life</b></td></tr><tr><td>Domestic buildings (Kachhi huts and common)</td><td>10</td><td>15</td><td>20</td></tr><tr><td>Industrial buildings (R/C and frame structures)</td><td>15</td><td>25</td><td>30</td></tr></table><p style="text-align: center;"><b>Anticipated Impact</b></p><p style="text-align: center;">Predicted PPV Values due to Blasting</p><table><tr><th>Location ID</th><th>Maximum Charge</th><th>Distance to the Archeological Core in m</th><th>PPV in mm/s</th><th>Permissible Limit for Dominant Frequency for &lt;6Hz, as per DGMS</th><th>Comparison Against PPV standard</th><th>Impact Significance</th></tr><tr><td>A1</td><td>39 kg</td><td>880 m</td><td>0.43</td><td>2 mm/s</td><td>Below Standard</td><td>Not Significant</td></tr><tr><td>A2</td><td>39 kg</td><td>976 m</td><td>0.35</td><td>2 mm/s</td><td>Below Standard</td><td>Not Significant</td></tr></table></div>	Type of structure	Dominant frequency, Hz			< 6 Hz	1 - 25 Hz	> 25 Hz	<b>(A) Buildings/structures not belonging to life critical</b>				Domestic buildings (Kachhi huts and common)	5	10	15	Industrial Buildings (R/C and frame structures)	10	20	25	Effect of structural deterioration and structural cracks etc.	5	10	10	<b>(B) Buildings belonging to plant with limited span of life</b>				Domestic buildings (Kachhi huts and common)	10	15	20	Industrial buildings (R/C and frame structures)	15	25	30	Location ID	Maximum Charge	Distance to the Archeological Core in m	PPV in mm/s	Permissible Limit for Dominant Frequency for <6Hz, as per DGMS	Comparison Against PPV standard	Impact Significance	A1	39 kg	880 m	0.43	2 mm/s	Below Standard	Not Significant	A2	39 kg	976 m	0.35	2 mm/s	Below Standard	Not Significant
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A2	39 kg	976 m	0.35	2 mm/s	Below Standard	Not Significant																																																				
3	<p>Further, the Assistant director had recommended the report based on the observations of the VAO. Hence, AD/ Mines is directed to inspect the site and measure the shortest distance</p>	<p>The AD Letter enclosed mentioning that the site is located beyond 500m from the protected boundary of Chithannavasal cave is about 500m.</p>																																																								

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between the Archeological site and the nearest mine lease boundary and shall issue a letter regarding the same.

From

Thiru.K.Vijayaragavan,M.Sc.,  
Assistant Director,  
Geology and Mining,  
Puducherry.

To

The Chairman,  
State Level Environment Impact  
Assessment Authority - Tamil  
Nadu, Chennai - 600 015.

Subject: 152/2022 Quarry lease 15.12.2022

Sir,


Sub : Mines and Minerals - Major Mineral - Portland Cement  
District - S.P.No.98/2040/01/01 - 15/2022,01/01 of  
98/2040.01/01 of Chithamparambalam Village, (Thuppur  
Taluk, over an extent of 0.94.8 Hect - Rough stone -  
Quarry lease Application) preferred by  
Thiru.R.Sachinramanthy - project area communicated  
Please approved-submission for obtaining  
Environmental Clearance - Resolving

Ref: 1. Thiru.R.Sachinramanthy, P/o Ramasamy letter  
dated 10.10.2022.  
2. Minutes of 223 meeting held on 19.10.2022

Kind attention is invited to the references cited above

As per direction of Chairman SEAC-TN, the subject area  
was inspected on 12.12.2022 and ensured that the lease applied  
was not in violation of the provisions of the Environmental Protection  
Act 1986 and also the provisions of the Tamil Nadu Minor Mineral  
Concession Rules 1959 as amended for grant of Quarry lease.

Hence it is recommended to grant of Environmental  
Clearance in favour of project proponent Thiru. R.Sachinramanthy,  
over an extent of 0.94.8 Hect as S.P.No.98/2040/01/01 of  
98/2040.01/01 of Chithamparambalam Village,  
Thuppur Taluk.

  
Assistant Director,  
Geology and Mining,  
Puducherry

Encl:

Talukdar, Thuppur report dated 01.12.2022 along with sketch  
showing 500 metre radius.

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The proponent shall submit a report recording the impact of quarrying on the paintings inside the archaeological site considering the dust pollution, blast induced vibrations, noise etc., and further

#### Model Results

The post project resultant concentrations of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>2</sub>

(µg/m<sup>3</sup>) has been given in Table 1.

Table 1 Incremental & Resultant GUC of Air Pollutants

Station code	Distance in m	Average Resultant Value	Incremental value due to mining (µg/m <sup>3</sup> )	Total Value (µg/m <sup>3</sup> )	Permissible Limit (µg/m <sup>3</sup> )	Comparison Against Standard	Impact Significance
<b>Incremental &amp; Resultant GUC of PM<sub>10</sub></b>							
Cave 1	30	18.9	2.01	18.91	60	Below Standard	Not Significant
Cave 2	45	18.9	0.01	18.91	60	Below Standard	Not Significant
<b>Incremental &amp; Resultant GUC of PM<sub>2.5</sub></b>							
Cave 1	30	37.5	0.05	37.55	100	Below Standard	Not Significant
Cave 2	45	37.5	0.05	37.55	100	Below Standard	Not Significant
<b>Incremental &amp; Resultant GUC of SO<sub>2</sub></b>							
Cave 1	30	5.0	0.04	5.04	80	Below Standard	Not Significant
Cave 2	45	5.0	0.04	5.04	80	Below Standard	Not Significant
<b>Incremental &amp; Resultant GUC of NO<sub>2</sub></b>							
Cave 1	30	7.6	0.09	7.69	80	Below Standard	Not Significant
Cave 2	45	7.6	0	7.6	80	Below Standard	Not Significant



shall discuss the mitigation measures to be adopted to conserve the archeological site.	
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The PP have satisfied the queries posed by the SEIAA & SEAC during the deliberations. Hence, 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 ultimate depth of mining up to 17m BGL and the production of 27,780 m<sup>3</sup> of Rough stone. The annual peak production shall not exceed 6,445 m<sup>3</sup> of Rough stone 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 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

  
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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.

5. 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 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
7. The PP shall carry out maximum of TWO rounds 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 300 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.
8. However, within six months from the commencement of mining operations, the PP shall carry out the scientific studies and design the 'Optimum 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/Bangalore, 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.
9. Besides, the PP shall carry out the monitoring of the ground vibration and noise due to the blasting operation regularly at the sensitive structures located within

the radial distance of 500 m and a copy of the monitoring data shall be sent to the DEE/TNPCB, IRO/MoEF&CC, Chennai and SEIAA along with compliance report without deviation.

10. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
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 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.
14. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
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.

  
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18. As accepted by the Project proponent the CER cost is Rs. 5 Lakhs and the amount shall be spent for the Govt High School - Mathiyannallur Village as committed, before obtaining CTO from TNPCB.

Agenda No: 355-10

(File No: B776/2021)

Proposed Rough Stone & Gravel quarry Lease over an extent of 2.90.5 Ha at S.F.No. 42/1, 42/2, 42/3, 42/4, 42/5 & 42/6 in Mooduthurai Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu by Thiru. A. Chandrasekar - For Environmental Clearance. (SLA/TN/MIN/227740/2021 dated.07.09.2021)

The proposal was placed for appraisal in this 355<sup>th</sup> meeting of SEAC held on 15.02.2023.

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

The SEAC noted the following:

1. The Project Proponent, Thiru. A. Chandrasekar has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry Lease over an extent of 2.90.5 Ha at S.F.No. 42/1, 42/2, 42/3, 42/4, 42/5 & 42/6 in Mooduthurai Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of item 1(a) "Mining of Minerals Project" of the Schedule to the EIA Notification, 2006.
3. The salient features of the project are as follows:

Sr. No		
1	Name of the Owner/Firm	Thiru. A. Chandrasekar S/o P.K. Arumugam, No. 5/280, Kallipalayam, Mooduthurai Post, Mettupalayam Taluk, Coimbatore 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	42/1, 42/2, 42/3, 42/4, 42/5 and 42/6

  
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4	Village in which situated	Mooduthurai
5	Taluk in which situated	Mettupalayam
6	District in which situated	Coimbatore
7	Extent of quarry (in ha.)	2.90.5
8	Latitude & Longitude of all corners of the quarry site	11°21'09.34"N to 11°21'14.78"N 77°06'33.77"E to 77°06'39.95 "E
9	Topo Sheet No.	58-E/03
10	Type of mining	Opencast semi Mechanized Mining
11	Period of quarrying proposed	5 years
12	Production (Quantity in m³)	3,56,885 m³ of rough stone & 2964m³ of gravel
	Existing Depth of the Quarry	12m Below Ground Level
13	Ultimate Depth of proposed quarry	47m Below Ground Level
14	Depth of water table	60m below Ground level
15	Man Power requirement per day:	23 Nos.
16	Water requirement: 1. Domestic & Flushing 2. Dust suppression 3. Green Belt	2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD
17	Power requirement	-
18	Precise area communication approved by the Assistant Director, Dept. of G&M with date	Rc.No.763/Mines/2020, Dated: 19.07.2021
19	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.763/Mines/2020, Dated: 03.08.2021
20	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.763/Mines/2020, Dated: 03.08.2021
21	VAO certificate regarding habitations in 300m radius	12.08.2021

  
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22	Project Cost (excluding EMP)	Rs.76.62,000/-
23	EMP cost	Capital Cost: Rs.12,48,300/- Recurring Cost: Rs.14.24.920/-  Total for 5 years: Rs.75,61.880/-

4. Earlier, the proposal was placed in 303<sup>rd</sup> SEAC meeting held on 18.08.2022. The proposal was deferred in the meeting for obtaining the additional particulars from the proponent as stated in the minutes.
5. Now, based on the reply furnished by the proponent, the proposal is again placed in this 355<sup>th</sup> SEAC meeting.

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 3,56,885 m<sup>3</sup> of rough stone & 2964m<sup>3</sup> of gravel with maintaining an ultimate depth of 47m Below ground level and the annual peak production of not exceeding 72,050m<sup>3</sup> of rough stone, 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 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 before obtaining the CTO.
3. 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.

  
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4. 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.
5. 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 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall install the Solar lights in the nearby village as indicated in the previous EC and shall furnish the photographs showing the same 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. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
9. 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.
10. 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.
11. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the temple / 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.
12. Within six months from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Suitable blast parameters for reducing the

  
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cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarries in the cluster by adopting appropriate controlled blasting techniques', by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM/Bangalore, 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.

13. The PP shall carry out the scientific studies to assess the slope stability of the working benches and quarry wall within one year of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM/Bangalore, 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.
14. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
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.

  
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2. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Government School, Kanuvakkarai for the following activities as committed, before obtaining CTO from TNPCB.

**Agenda No: 355-11**

**(File No: 8909/2022)**

**Proposed expansion of Active Pharmaceutical Ingredients manufacturing in existing plant at S.F.No 61, S.R. Kandigal Road, Chinna Obulapuram Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu by M/s. Parvo Organics Private Limited - For Environmental Clearance. (SIA/TN/IND3/237246/2021 Dt. 03.11.2021).**

The proposal was placed for appraisal in this 355<sup>th</sup> meeting of SEAC held on 15.02.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. Parvo Organics Pvt.Ltd has applied for Environmental Clearance for the proposed expansion of Active Pharmaceutical Ingredients manufacturing in existing plant at S.F.No 61, S.R. Kandigal Road, Chinna Obulapuram Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 5(f) "Synthetic Organic Chemicals" of the Schedule to the EIA Notification, 2006.
3. Earlier, the proposal was placed in 299<sup>th</sup> SEAC meeting held on 23.07.2022. SEAC decided to defer the proposal for obtaining additional particulars as mentioned in the minutes.
4. Now, based on the reply furnished by the proponent, the subject was again placed in this 355<sup>th</sup> SEAC meeting held on 15.02.2023.

Based on the presentation and documents furnished by the project proponent, SEAC noted that the proponent has applied for NBWL Clearance since Pulicat Lake is situated within 10 km of the project site. Hence, the SEAC decided to consider the proposal after the submission of NBWL Clearance by the proponent obtained from the competent authority.

**Agenda No: 355- 12**

  
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(File No: 8941/2021)

**Proposed Rough stone & gravel quarry lease over an extent of 3.47.5 Ha in S.F.No.67/2 & 69, Myleripalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu by Tmt. S. Selvamani - For Environmental Clearance. (SIA/TN/MIN/69516/2021 Dt.3.12.2021).**

The proposal was placed in 355<sup>th</sup> SEAC meeting held on 15.02.2023. The project proponent has given a detailed presentation. 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 Tmt. S. Selvamani has applied for Environmental Clearance for the proposed Rough stone & gravel quarry lease over an extent of 3.47.5 Ha in S.F.No.67/2 & 69, Myleripalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. ToR issued vide Lr.No.SEIAA- TN/F.No.8941/TOR-1119/2020 Dated: 23.03.2022.
4. Public hearing conducted on 31.08.2021
5. EIA Report submitted on 30.06.2022.

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

**Agenda No: 355 - 13**

(File No: 8950/2021)

**Proposed Rough Stone and Gravel quarry lease over an extent of 3.66.5 Ha in S.F. Nos. 219/3E(P), 219/3F2(P), 219/3G, 220/3D1, 220/3D2B, 220/3A, 220/3B & 220/3C of Kolarpatti Village, Pollachi Taluk, Coimbatore District, Tamil Nadu by Thiru T.T. Satheesan for Environmental Clearance (SIA/TN/MIN/236552/2021 Dated 30.12.2021)**

The proposal was placed in this 355<sup>th</sup> Meeting of SEAC held on 15.02.2023. 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 T.T. Satheesan, has applied for the Environmental

  
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Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of 3.66.5 Ha in S.F. Nos. 219/3E(P), 219/3F2(P), 219/3G, 220/3D1, 220/3D2B, 220/3A, 220/3B & 220/3C of Kolarpatti Village, Pollachi Taluk, Coimbatore District, Tamil Nadu

2. The proposed quarry/activity would fall 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 and the mining plan for the period is five years. The quantum of mining for the entire five-year period should not exceed - 2,74,865 cu.m. of Rough Stone and 9,662 cu.m. of Gravel. The Annual peak production is 64480cu.m of Rough stone (3<sup>rd</sup> year) & 4488 Cu.m of Gravel (1st year). The ultimate depth of mining- 42 metres below GL

Sr. No	Details of the Proposal	Date Furnished
1.	Name of the Owner/Firm	: Thiru.T.T.Satheesan S/o.Thangappan No.220/4A, Kolarpatti Kanjampatti Post Pollachi Taluk Coimbatore District-642003
2.	Type of quarrying	: Rough stone and Gravel
3.	S.F No. Of the quarry site with area break-up	: 219/3E(P), 219/3F2(P), 219/3G, 220/3D1, 220/3D2B, 220/3A, 220/3B & 220/3C
4.	Village in which situated	: Kolarpatti
5.	Taluk in which situated	: Pollachi
6.	District in which situated	: Coimbatore

  
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7.	Extent of quarry (in ha.)	: 3.66.5 Ha
8.	Period of quarrying proposed	: 5 years
9.	Type of mining	Opencast Mechanized mining
10.	Production (Quantity in m <sup>3</sup> )	: 2,52,945 m <sup>3</sup> Rough stone & 9,662m <sup>3</sup> of Gravel
11.	Depth of quarrying	: 42m (2m Gravel + 40m Rough Stone)
12.	Latitude & Longitude of all corners of the quarry site	: 10°37'48.74"N to 10°37'56.86"N 77°05'31.93"E to 77°05'41.71"E
13.	Top Sheet No.	: 58 - F/02
14.	Man Power requirement	28 Nos.
15.	Precise area Assistant Director with date	: Na.Ka.No. 1487/Kanimam/2020. Dated: 07.07.2021
16.	Mining Plan approved by Assistant Director, Department of G&M Mines with date	: Rc.No. 1487/Mines/2020, Dated: 20.12.2022
17.	Assistant Director, Department of G&M Mines with date 500m cluster letter	: Rc.No. 1487/Mines/2020, Dated: 11.10.2021
18.	Water requirement: 12. Drinking & Domestic Purpose 13. Dust suppression 14. Green Belt	: 5.5 KLD 1.0 KLD 2.5 KLD 2.0 KLD
19.	Power requirement g. Domestic Purpose h. Industrial Purpose	: TNEB


		2,21,354 Liters of HSD for the entire period of life
20.	Depth of water table	: 65m in rainy & 70m in summer seasons
21.	EMP cost	: Capital cost : Rs. 47,81,926 Recurring cost : Rs. 18,91,687
22.	CER cost	: Rs. 5,00,000
23.	Total Project Cost (Excluding EMP)	: Rs. 79,03,000
24.	VAO certificate regarding habitation within 300m radius	: Letter Dated: 19.07.2021

4. Earlier the proposal was placed in 279<sup>th</sup> SEAC meeting held on 28.05.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following details from the PP.

1. As the PAP (Parambikulam Azhiyar Project) canal is located adjacent to the project site, the PP shall obtain NOC from PWD/Irrigation Department.
2. The width of the bottom most layer of the quarry as per mining plan should not be less than 12 meters. Accordingly, the revised mining plan shall be produced.

The proposal is now placed in the 355<sup>th</sup> SEAC meeting held on 15.02.2023. From the presentation and documents furnished by the project proponent, the SEAC had accepted the clarifications given for the earlier queries raised. However, based on the presentation made by the PP, the SEAC decided to call for the following details from the PP.

1. Since the site is surrounded by vegetation/trees, the PP shall enumerate the details of trees/vegetation around the site and implications of the proposed activity on them.

  
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2. From the KML file it is noted that there are many structures around the site. The PP shall enumerate the details of the structures and its age, type & quality of construction of the structures/sheds with photographs located in 50m, 100m, 200m & 300m along with number of habitants, etc.

Agenda No: 355-14

(File No: 8952/2022)

Proposed Rough Stone and Gravel quarry lease over an extent of 1.78.0 Ha in S.F.Nos. 419/2 & 421 of Kangarakottai Village, Vembkottai Taluk, Virudhunagar District, Tamil Nadu by Thiru K. Niraj - For Environmental Clearance. (SIA/TN/MIN/249658/2022 Dated 10.01.2022)

Earlier, this proposal was placed in 279<sup>th</sup> Meeting of SEAC held on 28.05.2022. During the meeting SEAC noted that neither PP nor EIA Co-Ordinator present. Thereby SEAC decided to defer the proposal and call for the explanation for not attending the meeting.

The SEAC noted the following:


1. The project proponent, Thiru K. Niraj has applied for the Environmental Clearance for proposed rough stone & gravel quarry lease area over an extent of 1.78.0 Ha at S.F.Nos. 419/2 & 421 of Kangarakottai Village, Vembkottai Taluk, Virudhunagar 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.

Now the proposal was placed in this 355<sup>th</sup> Meeting of SEAC held on 15.02.2023. The committee noted that there are many structures nearby which includes (i) Poultry Farm located at 65m from mine area (ii) Kanmai adjacent to the mine (iii) Crusher located 120m west.

The SEAC noted the provisions of the Tamil Nadu Minor Mineral Concession Rules, 1959 which states as.

*"....36 (1-A) (a) No lease shall be granted for quarrying stone within 300 metres (three hundred metres) from any inhabited site;....."*

Hence the SEAC decided not to recommend the project.

  
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**Agenda No: 355-15**

**(File No: 8994/2022)**

**Proposed Rough Stone & Gravel quarry lease over an extent of 3.77.0Ha at S.F.No. 409, Kodanthur (North)Village, Aravakurichi Taluk, Karur District, Tamil Nadu by Tvl. Aravinth Blue Metals - For Environmental clearance.(SIA/TN/MIN/ 255464/2022 dated 07.02.2022)**

Earlier, this proposal was placed for appraisal in 280<sup>th</sup> meeting of SEAC held on 02.06.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Tvl. Aravinth Blue Metals has applied seeking Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 3.77.0Ha at S.F.No.409, Kodanthur (North)Village, Aravakurichi 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. As per mining plan, the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 4,94,117 m<sup>3</sup> of Rough Stone & 19,032 m<sup>3</sup> of Gravel with an ultimate depth of mining 42m (2m Gravel + 40m Rough Stone). The annual peak production 1,16,805 m<sup>3</sup> of Rough Stone (2<sup>nd</sup> year) 8052m<sup>3</sup> of Gravel (1<sup>st</sup> year).

Based on the presentation and document furnished by the project proponent, SEAC decided to ask for the following additional details from the Project Proponent.

- (i) The project proponent shall furnish certified compliance report obtained from TNPCB/MoEF for the quarry operated by the PP.
- (ii) The project proponent shall furnish slope stability action plan indicating the realignment of benches (or) stability measures for the single highwall bench of 22 m existing presently in the proposed mine.

Now the proposal was placed in this 355<sup>th</sup> Meeting of SEAC held on 15.02.2023. The

  
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Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

S.No	Query	Response
1	The Project Proponent shall furnish certified compliance report obtained from TNPCB/MoEF for the quarry operated by the PP.	Previously the quarry was operated by Tvl Aravinth Blue Metals, vide EC: Lt.No.SEIAA,TN/F.No.3938/EC/1(a)/2817/2015 dated 08.02.2016. Proponent obtained Certified Compliance Report from MoEF & CC, Chennai – Document No E.P./12.1/2022-23/SEIAA/51/TN/677 Dated 17.11.2022.
2	The Project Proponent shall furnish slope stability action plan indicating the realignment of benches (or) stability measures for the single highwall bench of 22m existing presently in the proposed mine.	Slope Stability action plan obtained from the Anna University, Chennai.

Salient features of the project are given below.

S.No	Particulars	Details
1	Name and Address	Tvl.Aravinth Blue Metals SF No.409, Komalivalasu Kadanthur North Village, Aravakurichi Taluk, Karur District-639206
2	Type of quarrying	Rough stone & Gravel



3	S.F No. Of the quarry site with area break-up	409
4	Village in which situated	Kodanthur (North)
5	Taluk in which situated	Aravakurichi
6	District in which situated	Karur
7	Extent of quarry (in ha.)	3.77.0 Ha
8	Period of quarrying proposed	5 years
9	Type of mining	Opencast Mechanized Mining
10	Production (Quantity in m <sup>3</sup> )	As per mining plan, the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 4,94,117m <sup>3</sup> of Rough Stone & 19.032m <sup>3</sup> of Gravel with an ultimate depth of mining 42m (2m Gravel + 40m Rough Stone). The annual peak production 1,16,805m <sup>3</sup> of Rough Stone (2 <sup>nd</sup> year) and 8052m <sup>3</sup> of Gravel (1 <sup>st</sup> year).
11	Latitude & Longitude of all corners of the quarry site	10°55'51.49 "N to 10°56'02.21N 77°46'51.15"E to 77°46'56.09"E
12	Topo Sheet No.	58 F/13
13	Man Power requirement	52 Employees
14	Precise area communication approved by the Assistant Director of Geology and Mining with date	Na.Ka.No.115/Karimam/2020, dated: 20.12.2021
15	Mining Plan approved by the Deputy Director of Geology and Mining with date	Rc.No.115/Mines/2020, dated: 11.01.2022

  
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16	AD mines 500m cluster letter approved by the Deputy Director of Geology and Mining with date	Rc.No.115/Mines/2021, dated: 19.01.2022
17	Water requirement: 1. Drinking & domestic purposes 2. Dust suppression 3. Green Belt	4.0 KLD 1.0 KLD 2.0 KLD 1.0 KLD
18	Power requirement: a. Domestic Purpose b. Industrial purpose	TNEB 398466 litres of HSD For the entire project life
19	Depth of quarrying	42m BGL
20	Depth of water table	70m in Summer Season -65m in Rainy Season
21	Whether any habitation within 300m distance	No
22	Project Cost	Rs.63.52 Lakhs
23	EMP cost	Rs.211.96 Lakhs
24	CER cost	Rs.5 Lakhs
25	VAO letter	dated: 12.01.2022

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 4,94,117m<sup>3</sup> of Rough Stone and 19,032m<sup>3</sup> of gravel and however not exceeding the annual peak production of 1,16,805m<sup>3</sup> of Rough Stone and 8052m<sup>3</sup> of gravel with maintaining an ultimate pit depth of 42m 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:

  
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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 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 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.
5. 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.
6. 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).
7. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
8. 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

  
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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.

9. 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.
10. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
11. 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.
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

  
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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 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-DGM and DMS, Chennai as a part of Environmental Compliance.
17. 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.
18. 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.
19. As accepted by the Project proponent the CER cost is Rs. 8 lakhs and the amount shall be spent for the Panchayat Union Middle School, Kodanthur and Panchayat Union Primary School, Thondukalipalayam, Karur District as committed, before obtaining CTO from TNPCB

Agenda No. 355-16  
(File No. 9019/2022)

Proposed Earth quarry lease over an extent of 0.97.72 Ha in S.F.No. 16/1, 16/2, 16/3, 16/4, 19/11, 19/17, 19/20(Part) & 19/21 of Kiliyamur Village, Chidambaram Taluk, Cuddalore District, Tamil Nadu by Thiru R. Sivakumar- For Environmental Clearance (SIA/TN/MIN/ 257496/2022 dated 19.02.2022)

  
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Earlier, this proposal was placed in this 281<sup>st</sup> Meeting of SEAC held on 03.06.2022. The details of the project furnished by the proponent are available in the website ([parivesh.nic.in](http://parivesh.nic.in)).

The SEAC noted the following:

1. The project proponent, Thiru R. Sivakumar has applied for Environmental Clearance for the proposed Earth quarry lease over an extent of 0.97.72 Ha in S.F.Nos. 16/1, 16/2, 16/3, 16/4, 19/11, 19/17, 19/20(Part) & 19/21 of Kiliyanur Village, Chidambaram Taluk, Cuddalore 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.

The Committee examined the proposal submitted by the proponent in the light of the Judgment Issued by the Hon'ble Madurai Bench of Madras High Court in W.P.(MD) Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019 dated 12.02.2021. In this Judgment, the Hon'ble High Court was examining the legality of mining permits or license given by the Government for removal of minor minerals in the name of "Savudu" and other Colloquial terminologies and issued the following directions.

- i. *There shall not be any grant of quarry lease without ascertaining the composition/component of the minerals and without obtaining the report from authorized lab. The Dept of Geology and Mining shall establish a lab on its own or shall authorize any lab in this regard.*
- ii. *There shall not be any quarry operation in the name of colloquial terms/local terms and any lease shall be in accordance with minerals notified under section 3 (e) of the MMDR Act.*
- iii. *A high-level committee has to be constituted, consisting of Geologists and Experts in the said field and eminent Officers from WRO, PWD to conduct a detailed study/survey on the possibility or the availability of the river sand on the adjacent patta lands to the rivers and those places, where sand is available, have to be notified and declared as protected zones and there cannot be any quarry operation other than by the Government, in those notified areas.*
- iv. *The department of Geology and Mining, shall furnish the details of all the Savudu quarries granted so far, in the state of Tamil Nadu, to this court, within a period of eight weeks from the date of receipt of a copy of this order.*

- v. *The details of all the savudu quarries shall also be furnished to the High Level Committee and High Level Committee shall inspect those quarries to ascertain the availability of sand in those quarries. In the event of High Level Committee ascertaining the availability of sand in these quarries, the same shall be reported to the Commissioner of Geology and Mining, marking a copy to this court and the Commissioner shall take necessary action as against the officials, who have granted quarry permits without ascertaining the composition of minerals.*
- vi. *Any quarry operations shall be permitted only by way of lease agreement, as per Article 299(1) of constitution of India.*
- vii. *The Government shall either adopt the Mineral Conservation Rules, 2017, framed by the Central Government or frame a separate Rule, as directed by the Hon'ble Supreme court in Deepak Kumar's case, within a period of six months from the date of receipt of a copy of this order.*
- viii. *Whenever, SEIAA clearance is required, it shall be done only physical inspection by deputing an officer attached to SEIAA and depending upon the report further proceedings may take place in accordance with law and there must be a mechanism to ensure the conditions of SEIAA are strictly complied with.*

Acting on the above Judgment, the Director of Geology and mining, Govt of Tamil Nadu, in his letter No. 7240/MM6/2019 Dt. 30.7.2021, has inter alia, issued the following directions:

- No quarry lease shall be granted in areas where the test results indicate the presence of sand in the composition.
- No quarry lease shall be granted in the patta lands adjoining to the rivers, streams, canals etc.,
- No permission shall be granted for quarrying Gravel, Earth, etc., in patta land for a period less than one year.
- Lease deed shall be executed in the Form set out in Appendix IV or Appendix V to the Tamil Nadu Minor Mineral Concession Rules 1959.

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

1. The project proponent shall furnish soil analysis report indicating the composition/component of the minerals proposed to be quarried obtained from **anyone of the following test laboratories** authorized by the Director of Geology and Mining as directed in the above Judgment.

  
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1.	Department of Civil Engineering, National Institute of Technology, Trichy – 620015
2.	Department of Civil Engineering, Govt College of Engineering, Karappur, Salem – 636011.
3.	Division of Soil Mechanics and Foundation Engineering, Dept of Civil Engineering, Anna University, CEG Campus, Guindy, Chennai – 600025.

2. The proponent should also produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also it does not fall under any notified/declared protected zones in terms of the above Judgment.

The proponent submitted the details and hence the proposal was placed in this 355<sup>th</sup> meeting of SEAC held on 15.02.2023. The Committee examined the proposal submitted by the proponent in the light of the Director of Geology and mining, Govt of Tamil Nadu, in his letter No. 7240/MM6/2019 Dt. 30.7.2021, has inter alia, issued the following directions:

- No quarry lease shall be granted in areas where the test results indicate the presence of sand in the composition.
- No quarry lease shall be granted in the patta lands adjoining to the rivers, streams, canals etc.,
- No permission shall be granted for quarrying Gravel, Earth, etc., in patta land for a period less than one year.
- Lease deed shall be executed in the Form set out in Appendix IV or Appendix V to the Tamil Nadu Minor Mineral Concession Rules 1959.

SEAC noted that the proposed mine lease area is situated close to River Vellar attracting the above direction of the Director of Geology and Mining, Govt of Tamil Nadu, in his letter No. 7240/MM6/2019 Dt. 30.7.2021. Hence the Committee decided not to recommend for grant of Environmental Clearance for this project.

  
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Agenda No. 355-17

(File No. 9025/2022)

Proposed Ordinary Earth quarry lease over an extent of 0.97.0 Ha at S.F.Nos. 245/3, 245/4, 245/5, 245/4A, 258/1J & 258/3 of Vazhuthigaimedu Village, Ponneri Taluk, Tiruvallur District, Tamil Nadu by Thiru M.R.Prabu - For Environmental clearance. (SIA/TN/MIN/257897/2022 dated 23.02.2022)

The proposal was placed in this 355<sup>th</sup> Meeting of SEAC held on 15.02.2023. 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/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
2. The proponent has furnished the soil analysis report obtained from Anna University, College of Engineering, Guindy Campus vide letter dt: 01.06.2022 and letter obtained from the Dept. of Geology and Mining dt: 02.06.2021 stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the above Judgment.
3. The salient features of the proposed project as follows.

Sr. No	Details of the Proposal	
1.	Name of the Owner/Firm	Thiru M.R.Prabu, S/o.M.M.Ravi Mannar, No.261, Anbalagan Nagar, Minjur, Tiruvallur District- 601203.
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Ordinary Earth Quarry
3.	S.F No. Of the quarry site with area break-up	245/3, 245/4, 245/5, 254/4A, 258/1J & 258/3.
4.	Village in which situated	Vazhuthigaimedu

  
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5.	Taluk in which situated	Ponneri						
6.	District in which situated	Tiruvallur						
7.	Extent of quarry (in ha.)	0.97.0Ha						
8.	Period of quarrying proposed	1 Year						
9.	Type of mining	Opencast, Semi-Mechanized mining						
10.	Production (Quantity in m <sup>3</sup> )	<table border="1"> <thead> <tr> <th>Old Production</th><th>Approved Production</th><th>Revised Approved Production</th></tr> </thead> <tbody> <tr> <td>10140 m<sup>3</sup> of Ordinary Earth</td><td></td><td>7486 m<sup>3</sup> of Ordinary Earth</td></tr> </tbody> </table>	Old Production	Approved Production	Revised Approved Production	10140 m <sup>3</sup> of Ordinary Earth		7486 m <sup>3</sup> of Ordinary Earth
Old Production	Approved Production	Revised Approved Production						
10140 m <sup>3</sup> of Ordinary Earth		7486 m <sup>3</sup> of Ordinary Earth						
11.	Annual peak Production (Quantity in m <sup>3</sup> )	7486 m <sup>3</sup> of Ordinary Earth						
12.	Ultimate Depth of quarrying	2.0m BGL						
13.	Depth of water table	15m in Summer Season -10m in Rainy Season						
14.	Latitude & Longitude of all corners of the quarry site	13°16'2.48" N to 13°16'6.40" N 80°13'52.66" E to 80°13'57.09" E						
15.	Top Sheet No.	66-C/03						
16.	Man Power requirement per day:	6 nos						
17.	Precise area communication issued by the Deputy Director, Department of Geology & Mining with date	Na.Ka.No. 416/2022/Kannimam-1, Dated:29.11.2022.						

  
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18.	Mining Plan approved by Deputy Director, Department of Geology and mining with date	Rc.No. 416/2021/G&M-1, Dated:06.01.2023.
19.	500m cluster letter issued by Deputy Director, Department of Geology & Mining.	Rc.No. 416/2021/G&M-1, Dated:06.01.2023
20	VAO certificate regarding 300m radius cluster	Letter Dated: 22.02.2022
21	Water requirement:  1. Drinking (in KLD) 2. Utilized Water (in KLD) 3. Dust suppression(in KLD) 4. Greenbelt (in KLD)	1.3 KLD 0.15 KLD 0.15 KLD 0.5 KLD 0.5KLD
22	Power requirement  i. Domestic Purpose	TNEB  2704 res of HSD
23	Project Cost	Rs.7,30,000/-
24	EMP cost	Capital cost: Rs.15,49,362/- Recurring cost: Rs.10,63,950/- Annum
25	CER cost	Rs.2,00,000/- as accepted by the PP

4. Earlier, this proposal was placed for appraisal in the 281<sup>st</sup> Meeting of SEAC held on 03.06.2022. The committee decided to ask for the following additional details from the Project Proponent.

- i. The proponent should produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not fall under any notified/declared protected zones in terms of Judgement issued by the

  
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Hon'ble Madurai Bench of Madras High Court in W.P.(MD) Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019 dated 12.02.2021.

- ii. The project proponent shall furnish documentary evidence from the concerned District Forest Officer showing the distance between the nearest R.F and the proposed quarry site.
  - iii. The project proponent shall furnish registered consent document for land.
5. The PP (M.M. Ravi Mannar) has expired on 15.07.2022. Hence, Thiru. R. Prabhu (S/o. M.M. Ravi Mannar) had submitted Death certificate of his father (Project Proponent) and also legal heir certificate in the name of Thiru. R. Prabhu.
6. Again, this proposal was placed in the 318<sup>th</sup> Meeting of SEAC held on 07.10.2022. Based on the presentation and document furnished by the project proponent, SEAC has done detailed analysis with registered consent document for land and found that consent for the S.F.No. 245/2 was not obtained from the concern pattadhar. In addition to that the PP has requested to remove the S.F.No. 245/2. Hence, the SEAC decided to obtain the following additional details from the Project Proponent.
1. Revised documents namely mining plan, mining plan approval letter, precise area communication letter and 500m radius letter from the Department of Geology and Mining.
  2. Registered lease & consent for the S.F.No.245/2.
  3. DFO letter

Now, the PP has furnished a reply for the above queries raised by the Committee. Hence, the proposal was placed for reappraisal in this 355<sup>th</sup> Meeting of SEAC held on 15.02.2023. During the meeting, It is observed that S.F.No. 245/2 was removed and the revised documents such as precise area communication, mining plan approval letter and 500m radius letter obtained from the Dept. of Geology and Mining, Tiruvallur District, are submitted in the name of R.Prabhu.

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 7486 m<sup>3</sup> of Ordinary Earth for the period of 1 year and not exceeding the Annual peak

  
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production of 7486 m<sup>3</sup> of Ordinary Earth with maintaining an ultimate pit depth of 2m BGL, 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. Perennial 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.

  
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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.
8. 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.
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 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.
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

  
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- 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 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.

  
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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 habitants.
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 in Government Primary School, Sholavaram Village as committed, before obtaining CTO from TNPCB.

**Agenda No. 355-18**

**(File No. 9030/2022)**

**Proposed Gravel quarry over an extent of 1.28.0 Ha in S.F.No.116/1 of Thiruvanthipuum Village, Cuddalore Taluk, Cuddalore District, Tamil Nadu by Thiru. P. Muthukumaran- for Environmental Clearance. (SIA/TN/MIN/ 257808/2022 dated: 22.02.2022)**

Earlier, this proposal was placed in this 281<sup>st</sup> Meeting of SEAC held on 03.06.2022 & 318<sup>th</sup> Meeting of SEAC held on 07.10.2022 . The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Thiru P. Muthukumaran has applied for Environmental Clearance for the proposed Gravel quarry lease over an extent of 1.28.0 Ha in S.F.No. 116/1 of Thiruvanthipuum Village, Cuddalore Taluk, Cuddalore 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. The **Gadilam River** is flowing at a distance of 1.15 km from the proposed quarry site.

S. No.	Name of the Owner/Firm	
1.	Name of the Owner/Firm	: Thiru. P. Muthukumaran, S/o. Parkunan, No.181A, Pillayar Kovil Street, Sandorpalayam.

  
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		Cuddalore Taluk & District - 607 003.
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Gravel
3.	S.F No. of the quarry site with area break-up	: 116/1
4.	Village in which situated	: Thiruvanthipuram
5.	Taluk in which situated	: Cuddalore
6.	District in which situated	: Cuddalore
7.	Extent of quarry (in ha.)	: 1.28.0 Ha
8.	Period of quarrying proposed	: 2 years
9.	Type of mining	: Opencast Mechanized Mining
10.	Production (Quantity in m <sup>3</sup> )	: 32,630 m <sup>3</sup> of Gravel
11.	Latitude & Longitude of all corners of the quarry site	: 11°43'42.73"N to 11°43'50.82"N 79°42'14.37"E to 79°42'18.13"E
12.	Top Sheet No.	: 58-M/10
13.	Man Power requirement per day:	: 8 Nos.
14.	Precise area communication approved by Assistant Director, Department of Geology and Mining with date	: Rc.No.167/Mines/2021, dt.26.10.2021
15.	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Rc.No.167/Mines/2021, dt.16.12.2021
16.	Water requirement: 15. Drinking & domestic purposes (in KLD) 16. Dust suppression (in KLD) 17. Green Belt (in KLD)	: 1.5 KLD 0.2 KLD 0.5 KLD 0.8 KLD
17.	Power requirement j. Domestic Purpose k. Industrial Purpose	TNEB 5440 Liters of HSD
18.	Depth of quarrying	: 5m AGL

19.	Depth of water table	:	46m bgl
20.	Whether any habitation within 300m distance	:	No
21.	Project Cost (including EMP cost)	:	Rs. 30,01,000/-
22.	EMP cost	:	Capital Cost – Rs. 10,00,727/- Recurring Cost – Rs. 5,29,810/-
23.	CER cost	:	Rs. 2,00,000/-
24.	Assistant Director, mines 500m cluster letter	:	Rc.No.167/Mines/2021, dt.16.12.2021
25.	VAO certificate regarding 300m radius cluster	:	Letter dated 21.01.2022

Based on the presentation and document furnished by the project proponent, SEAC decided to ask for the following additional details from the Project Proponent.

- The proponent should produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not fall under any notified/declared protected zones in terms of Judgement Issued by the Hon'ble Madurai Bench of Madras High Court in W.P.(MD) Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019 dated 12.02.2021.
- The project proponent shall furnish soil analysis report indicating the composition/component of the minerals proposed to be quarried obtained from anyone of the following test laboratories authorized by the Director of Geology and Mining as directed in the above Judgment.

1.	Department of Civil Engineering, National Institute of Technology, Trichy - 620015.
2.	Department of Civil Engineering, Govt College of Engineering, Karuppur, Salem - 636011.

  
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3.	Division of Soil Mechanics and Foundation Engineering, Dept of Civil Engineering, Anna University, CEG Campus, Guindy, Chennai – 600025.
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On receipt of the above details, SEAC would further deliberate on this project and decide the further course of action.

The project proponent submitted the details on 01.09.2022.

The proposal was placed in this 318<sup>th</sup> Meeting of SEAC held on 07.10.2022. Based on the presentation and document furnished by the project proponent, SEAC decided to ask for the following additional details from the Project Proponent.

- i) The proponent shall furnish old A-register extract for the proposed quarry.
- ii) Detail of existing tree present in the proposed quarry.

On the receipt of the same further deliberation will be done.

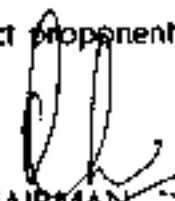
**Now the PP has furnished the following**

1. The Proponent obtained A – Register, the land is classified as Rayatwari Punjai.
2. There are 15 Nos of Cashew trees with the age of 10-13 years. The yield of the tree is reduced as 4 kg per year. This tree will be removed as a compensatory Greenbelt development 150 Nos of trees will be planted in the same area after excavation of Gravel.
3. 17 Nos of Eucalyptus trees within the safety barrier the same will be maintained in good condition

In view of the above the proposal was placed in this 355<sup>th</sup> Meeting of SEAC held on 15.02.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

Based on the presentation and documents furnished by the project proponent, SEAC

  
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decided to recommend the proposal for the grant of Environmental Clearance for the production quantity of 32,630 m<sup>3</sup> of Gravel for depth of 5m AGL in a period of 2 years subject to the standard conditions & normal conditions stipulated by MOEF &CC. In addition to the following specific conditions:

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

  
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providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.

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

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

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

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

21. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
22. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under.
23. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
24. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
25. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA,III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
26. As accepted by the Project proponent the CER cost is Rs. 2 lakh and the amount shall be spent for the committed activities before obtaining CTO from TNPCB.

**Agenda No. 355-19**

**(File No. 760/2013)**

**Proposed construction of Residential Development at R.S. No. 1841/3, Block No 31 of Tondiarpet Village, Division 11 & Zone 01, Fort Tondiarpet Taluk, Chennai District, Tamil Nadu by M/S ISP Infrastructures Private Limited - for Environmental Clearance Amendment, (SIA/TN/MIN/279911/2022 dated 24.06.2022).**

  
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Earlier, this proposal was placed in 332<sup>nd</sup> Meeting of SEAC held on 25.11.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. ISP Infrastructures Private Limited has applied for Environmental Clearance Amendment for the Proposed construction of Residential Development at R.S. No. 1841/3, Block No 31 of Tondiarpet Village, Division II & Zone01, Fort Tondiarpet Taluk, Chennai District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 8(a) "Building and Construction projects " of the Schedule to the EIA Notification, 2006.
3. Environmental Clearance issued vide Letter No. SEIAA/TN/F.760/EC/8(a)/177/2013 Dt:13.06.2013.

Based on the presentation and document furnished by the project proponent, SEAC decided to seek the following details from the project proponent.

- (i) The PP shall furnish detailed block wise comparative statement.
- (ii) The PP shall furnish block wise fresh water and treated water consumption comparative statement.
- (iii) The PP shall furnish ROA of treated sewage obtained from TNPCB.
- (iv) The PP shall furnish details on actual generation and treated sewage generation during the existing operation phase.
- (v) The PP shall furnish the details of tree plantation in the existing site.
- (vi) The PP shall furnish OSR details.
- (vii) In case of any disaster, an approved Evacuation Plan as proposed by the PP.
- (viii) The PP shall submit the complete plan showing the electrical circuit laid for the proposed switch over to residential category.
- (ix) The PP shall submit the Structural Stability test approved by IIT-Madras (or) Structural Engineering Division/Department of Civil Engineering, CEG Campus, Anna University for the proposed Residential Complex category.
- (x) The PP shall submit the copy of CTO obtained from the TNPCB for the previous EC granted.

  
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Now the proposal was placed in this 355<sup>th</sup> Meeting of SEAC held on 15.02.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.

Based on the presentation and document furnished by the project proponent, SEAC noted that the net effect of the amendments sought is overall reduction in pollution load such as generation & disposal of sewage, municipal solid waste and e-waste.

Description	As Per EC obtained	EC Amendment Required
Changes need to done in existing EC in first Paragraph total no of Dwelling units reduced from 880+ commercial to 806 Dwelling units Residential and commercial block T changed to Residential block.	Block A = 48 Flats Block B = 48 Flats Block C = 48 Flats Block E = 48 Flats Block F = 48 Flats Block G = 48 Flats Block H = 40 Flats Block I = 80 Flats Block J = 96 Flats Block K = 40 Flats Block L = 56 Flats Block M = 40 Flats Block N = 40 Flats Block O = 48 Flats Block P = 40 Flats Block Q = 32 Flats Block R = 48 Flats Block S = 32 Flats Block T = Commercial	Block A = 32 Flats Block B = 32 Flats Block C = 32 Flats Block E = 32 Flats Block F = 32 Flats Block G = 32 Flats Block H = 40 Flats Block I = 80 Flats Block J = 96 Flats Block K = 40 Flats Block L = 56 Flats Block M = 40 Flats Block N = 40 Flats Block O = 40 Flats Block P = 40 Flats Block Q = 32 Flats Block R = 40 Flats Block S = 32 Flats

	Total = 880+ Commercial	Block T=38(Residential)Flats Total = 806
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The PP request for the concept change from commercial block to residential unit. Hence the committee decided to recommend the EC amendment as requested by the PP. All other conditions stipulated in EC issued vide Letter No. SEIAA/TN/F.760/EC/8(a)/177/2013 Dt:13.06.2013 remains unaltered.

**Agenda No: 355-20**


**(File No: 3985/2022)**

**Proposed Rough Stone Quarry lease over an extent of 0.70.96 Ha in S.F. Nos. 133/2A, 2B, 3A, 3B, 4 & 142/5C2, 6B, 7A, 7B, Keezhmidalam-A Village, Vilavancode Taluk, Kanniyakumari District by Thiru. C. Climond –For Extension of validity of Environmental Clearance, (SIA/TN/MIN/201677/2021, dated: 04.03.2021)**

The proposal was placed in this 355<sup>th</sup> meeting of SEAC held on 15.02.2023. 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. C. Climond has applied for extension of validity of Environmental Clearance for the Existing Rough Stone Quarry lease over an extent of 0.70.96 Ha in S.F. Nos. 133/2A, 2B, 3A, 3B, 4 & 142/5C2, 6B, 7A, 7B, Keezhmidalam-A Village, Vilavancode Taluk, Kanniyakumari 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. The Environmental Clearance was issued earlier to Thiru. C. Climond for the Proposed Blue Metal quarry lease over an extent of 0.70.96 Ha in S.F. Nos. 133/2A, 2B, 3A, 3B, 4 & 142/5C2, 6B, 7A, 7B, Keezhmidalam-A Village, Vilavancode Taluk, Kanniyakumari District for quarrying of 27318 cu.m of Charnockite Blue Metal at a depth of 18 m (Restricted only above ground level) vide Lt. No.SEIAA-TN/F.No.3985/1(a)/EC.No.3483/2015 dated: 29.07.2016 with the validity period as

  
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"The Environmental Clearance will be coterminous with the mine lease period or limited to a maximum period of 5 Years from the date of issue whichever is earlier"

4. Now, the Proponent vide letter received dt.25.01.2021 has requested for amendment in the validity of Environmental Clearance stating the following reasons:
- Due to official delay, the proponent was unable to execute the lease deed after obtaining Environmental Clearance.
  - After obtaining the Environmental Clearance, the proponent approached the District Collector, Kanniyakumari District and Assistant Director, Geology and Mining, Kanniyakumari District for further proceedings and to obtain pass for quarrying. But till date no action was taken by the authorities concerned. The PP have made several representations to them but no action has been taken in this regard. Subsequently due to COVID 19 and due to other reasons, the officials concerned did not issue any pass even though the PP have obtained all permissions in connection with the said subject matter.
  - The PP now aged 60 have waited till this date (ie) long 4½ years after obtaining environmental clearance. But there is no proper response till date.
  - The PP have also applied for consent before the Pollution Control Board and the same is also pending. The PP is ready to comply with all formalities in the matter of issuing license.
  - In the above circumstances, the PP has requested to extend to the period of environmental clearance for the lapsed period of 4½ years.
5. EDS reply letter received dt.08.07.2021 regarding the details of quarries situated within 500m radius, the proponent has furnished AD (Mines), Kanniyakumari letter issued vide Roc.No.163/G&M/2015 Dated: 31.03.2021 and stated as follows:
- The Proposed area was already granted for quarry lease for quarrying Rough Stone vide District Collector Proceeding No.741/G&M/2007 dated 17.10.2008 for a period of 5 years. The lease deed was executed on 07.11.2008. The lease period is from 07.11.2008 to 06.11.2013. The last transport permit issued on

28.05.2013 valid upto 04.06.2013 and No quarry lease was granted further in the proposed area.

- ii. It is informed that, further the Mining Plan was approved on 20.08.2015 and Environmental Clearance was Issued vide on 29.07.2016 L.No.SEIAA-TN/F.No.3985/ I(a)/EC.No.3483/2015 and no quarry lease was granted based on approved Mining plan and Environmental Clearance. Hence, the approved Mining Plan is valid.

DESCRIPTION	PARTICULARS
Lease Period	5 Years
Environmental Clearance Obtained	Dated: 29.07.2016
Validity of EC as per COVID Extension as per S.O. 221 (E) Dated: 18.01.2021	Valid up to 28.07.2022
MoEF & CC Notification S.O. 1807 (E) Dated: 12.04.2022	The prior Environmental Clearance granted for mining projects shall be valid for the project life 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
Environmental Clearance Extension Applied	Dated: 04.03.2021
MoEF & CC Clarification OM Dated: 13.12.2022 for Notification S.O. 1807 (E) Dated: 12.04.2022	Applicability of clause (i) <i>The validity of the Environmental Clearance, which had not expired as on the dated of publication of notification, i.e., 12/04/2022, shall stand automatically extended to respective</i>

  
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	<p><i>Increased validity as mentioned at para no. 1 column (C) above.</i></p> <p><i>"Provided that the period of validity of Environmental Clearance with respect to the type of projects and activities listed at para 1 above may be extended in respect of valid Environmental Clearance, by the regulatory authority concerned, by a maximum period of years as indicated at para No. 1 Column (D) above, if an application is made in the land down proforma to the regulatory authority by the applicant as per the provisions of EIA Notification 2006; provided further that the regulatory authority may also consult the concerned Expert Appraisal Committee Before grant of such extension."</i></p> <p><i>In this project, the Environmental Clearance valid upto 28.07.2022</i></p>
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Now, the proposal was placed in this 355<sup>th</sup> meeting of SEAC held on 15.02.2023. During the presentation, the SEAC had observed the following:

1. The proposed quarry site is located in an ecologically sensitive area of Western Ghats and is surrounded by thick vegetation and water bodies.
2. There are many structures located around the proposed site.
3. No proper accessibility to the proposed quarry site is observed.

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.

Agenda No: 355 - 21  
(File No: 4904/2022)

  
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Existing Grey Granite over an extent of 2.42.0 Ha in S.F.No. 372/3B2 (Part), 372/3B4 (Part), 372/3B5 (Part) & 377/1A (Part) at Jagadevipalayam Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Thiru. A. V. Elamurugu - For Extension of Validity of Environmental Clearance. (SIA/TN/MIN/210984/2021, dated: 30.04.2021)

The proposal was placed in the 355<sup>th</sup> SEAC Meeting held on 15.02.2023. The details, furnished by the Proponent are given in the PARIVESH website. (parivesh.nic.in)

The SEAC noted the following:

1. The project proponent, Thiru. A. V. Elamurugu, has applied for Extension of validity of earlier issued Environmental Clearance for the existing Grey Granite over an extent of 2.42.0 Ha in S.F.No. 372/3B2 (Part), 372/3B4 (Part), 372/3B5 (Part) & 377/1A (Part) at Jagadevipalayam Village, Bargur Taluk, Krishnagiri 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, as amended.
3. Earlier EC obtained – Lr. No. SEIAA-TN/F.No.4904/EC/1(a)/2823/2015 dated: 08.02.2016

Based on the presentation made by the proponent and the documents furnished, the SEAC noted the following:

1. Previous EC was issued vide Lr. No. SEIAA-TN/F.No. 4904/EC/1(a)/2823/2015 dated: 08.02.2016 to Thiru. A. V. Elamurugu for Grey Granite over an extent of 2.42.0 Ha in S.F.No. 372/3B2 (Part), 372/3B4 (Part), 372/3B5 (Part) & 377/1A (Part) at Jagadevipalayam Village, Bargur Taluk, Krishnagiri District, Tamil Nadu for the production of 6371cu.m Grey Granite to a depth of 8m.
2. MoEF&CC Notification S.O. 221(E), Dated: 18.01.2021.
3. MoEF&CC Notification S.O. 1807(E), Dated: 12.04.2022.
4. MoEF&CC O.M. Dated: 13.12.2022.

  
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Here, the EIA Co-Ordinator have made a request to the SEAC to consider the extension of the validity of EC automatically as stipulated in the Office Memorandum on 'Clarification on the amendment to EIA Notification 2006' vide MoEF & CC OM File No. 1A3-22/28/2022-1A.111 [E 1815184], dated, 13.12.2022. The SEAC have noted the following details furnished by the PP:

DESCRIPTION	
Lease Period	20 Years
Environmental Clearance Obtained	Dated: 08.02.2016
Validity of EC as per COVID Extension as per S.O. 221 (E) Dated: 18.01.2021	Valid up to 07.02.2022
MoEF & CC Notification S.O. 1807 (E) Dated: 12.04.2022	The prior Environmental Clearance granted for mining projects shall be valid for the project life 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.
Environmental Clearance Extension Applied	Dated: 30.04.2021
MoEF & CC Clarification OM Dated: 13.12.2022 for Notification S.O. 1807 (E) Dated: 12.04.2022	<p>Applicability of clause (i)</p> <p><i>The validity of the Environmental Clearance, which had not expired as on the dated of publication of notification, i.e., 12/04/2022, shall stand automatically extended to respective increased validity as mentioned at para no. 1 column (C) above.</i></p> <p><i>"Provided that the period of validity of Environmental Clearance with respect to the type of projects and activities listed at para 1 above</i></p>



	<p><i>may be extended in respect of valid Environmental Clearance, by the regulatory authority concerned, by a maximum period of years as indicated at para No. 1 Column (D) above, if an application is made in the land down proforma to the regulatory authority by the applicant as per the provisions of EIA Notification 2006: provided further that the regulatory authority may also consult the concerned Expert Appraisal Committee Before grant of such extension."</i></p> <p><b>In this project, the Environmental Clearance valid upto 07.02.2022</b></p>
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1. The Project Proponent was granted for a lease to quarry Grey Granite for a period of 20 years over an extent of 2.42.0 Ha of Patta Land in S.F. 372/3B2 (Part), 372/3B4 (Part), 372/3B5 (Part) & 377/1A (Part) at Jagadevipalayam Village, Bargur Taluk, Krishnagiri District. The lease deed has been executed on 29.02.2016 and the lease period is valid up to 28.02.2036.
2. The PP had obtained the 'Prior Environmental Clearance' vide Lr. No. SELAA-TN/F.No.4904/EC/1(a)/2823/2015, dated. 08.02.2016 for quarrying production quantity of 6,371 cu.m of Grey Granite at a maximum depth of 8 m based on the Mining Plan approved by the competent authority, Letter. No: 3387/MM5/2015 Dated: 09.01.2016, in the Survey Number of 372/3B2 (Part), 372/3B4 (Part), 372/3B5 (Part) & 377/1A (Part) at Jagadevipalayam Village, Bargur Taluk, Krishnagiri District with a validity coterminous with the mine lease period or limited to a maximum period of 5 years from the date of issue whichever is earlier.
3. However, the validity of EC granted earlier due to expire on 07.02.2021 had been extended and now expired on 07.02.2022 observing the MoEF & CC OM : S.O. 221(E), dated. 18.01.2021 In view of the outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, implementation of

  
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projects or activities in the field which states that

*"....the Central Government, hereby makes the following further amendments in the notification of Government of India, in the erstwhile Ministry of Environment and Forests, number S.O. 1533 (E), dated the 14th September, 2006, published in the Gazette of India, Extraordinary, Part-II, Section 3, Sub-section (II), namely:-*

*"....(ii) for paragraph 9A, the following paragraph shall be substituted namely:-*

*"9A. Notwithstanding anything contained in this notification, the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearances granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid.....".*

4. However, the PP have filed an application through online for obtaining the extension of validity of EC for operating the remaining lease period in the same S.F. No. 372/3B2 (Part), 372/3B4 (Part), 372/3B5 (Part) & 377/1A (Part) with not exceeding the total ROM quantity and annual peak production capacity on 30.04.2021.
5. Based on the presentation and request made by the PP, the committee had observed that the PP had filed the application for grant of extension of validity of earlier EC issued before 12.04.2022 while the lease period executed is subsisting as on 12.04.2022 for the same survey number of Further, the SEAC had taken a note on the Office Memorandum on 'Clarification on the amendment to EIA Notification 2006' issued by the MoEF & CC OM File No. 1A3-22/28/2022-1A.111 [E 1815184], dated. 13.12.2023 which states that

*"...3 (ii) the Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the EIA Notification 2006 as on the date publication Notification, 12/04/2022, shall stand automatically extend to respective increased validity as mentioned at Para*

no. 1 column (C) above.....”

Therefore, based on the above MoEF & CC Office Memorandum dated. 13.12.2022 and the presentations subsequently made by the PP, the SEAC decided to recommend the extension of validity of the Environmental Clearance, which PP had submitted the application for extension of validity as per EIA Notification 2006 as on the date of publication of Notification (12/04/2022), stand automatically extended to the validity period of the project life 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, and subject to the terms and conditions stipulated under the provisions of EIA Notification 2006.

Agenda No: 355-22

(File No. 5007/2022)

Proposed construction of Residential Complex at S.F. Nos. 552/1A1, 553/2B1A, 553/2B2A, 742/2, 743/3B, 744/1B, 744/1C, 745/1A, 745/1B & 745/2 of Sholinganallur Village, Sholinganallur Taluk, Kancheepuram District, Tamil Nadu by M/s. NCC Urban Infrastructure Limited- Amendment for Environmental Clearance. (SlA/TN/MIS/292450/2021 dated: 01.10.2022)

The proposal was placed in this 355<sup>th</sup> meeting of SEAC held on 15.02.2023. 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. NCC Urban Infrastructure Limited has applied for Environmental Clearance Amendment for the Proposed construction of Residential Complex at S.F. Nos. 552/1A1, 553/2B1A, 553/2B2A, 742/2, 743/3B, 744/1B, 744/1C, 745/1A, 745/1B & 745/2, Sholinganallur Village, Sholinganallur Taluk, Kancheepuram 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.
3. Earlier, the PP had applied for Environmental Clearance and EC issued vide SEIAA Lr. No. SEIAA-TN/F.No.5007/EC/8(a)/688/2020 dated: 03.01.2020.

  
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4. Now, the PP has applied online through Parivesh portal vide Proposal No. STA/TN/MIS/292450/2021 dated: 01.10.2022 for the following EC Amendment.

<b>Details</b>	<b>As per the PP</b>	<b>Amendment sought</b>
<b>Brief description of the project</b>	<b>Proposed construction Residential Complex</b>	<b>Proposed construction Residential Complex</b>
<b>S.F.No</b>	552/1A1, 553/2B1A, 553/2B2A, 742/2, 743/3B, 744/1B, 744/1C, 745/1A, 745/1B & 745/2	552/1A1, 553/2B1A, 553/2B2A, 742/1P, 742/2, 743/3B, 744/1B, 744/1C, 745/1A, 745/1B & 745/2B
<b>District</b>	Kancheepuram	Chennai
<b>Land area</b>	30755.10 Sq.m	30755.10 Sq.m
<b>Builtup area</b>	115358.04 Sq.m	112271.8 Sq.m
<b>Brief description of the project</b>	The proposal involves the construction of Combined Basement Floor + Combined Stilt Floor & Podium with total 7 Residential towers with Tower 1, 2, 3, 4, 6 & 7 - 14 floors each and Tower 5 with 13 floors and a clubhouse with Ground + Upper three floors.	The project consists of High comprising 8 Blocks; Combined Stilt floor for Block 1 to 7+ Combined 1st floor (Parking) for Block 1 to 7+ Block 1 & 6 (HRB) consisting of 2nd floor to 15th floor with 110 Dwelling units in each Block; Block 2 & 3 (HRB) consisting of 2nd floor to 15th floor with 108 Dwelling units in each block; Block - 4 (EWS) consisting of 2nd floor to 15th floor with 150 Dwelling units; Block 5 (HRB) consisting of 2nd floor to 14th floor with 102 Dwelling units; Block-7 (HRB) consisting of 2nd floor to 15th floor with 82 Dwelling units; Block - 8 (NHRB) Club House consisting of Ground floor + 3 floors + 4th floor (Part) with Multipurpose Hall, Mart, Spa, Gym, Billiards, Shuttle, Table Tennis &

		Swimming Pool (Totally 770 Dwelling units)
Quantity of Sewage KLD	Total Grey Water Generation – 197 KLD	Total Grey Water Generation – 207 KLD
	Total Sewage Generation – 279 KLD	Total Sewage Generation – 294 KLD

Based on the presentation and documents furnished by the project proponent, SEAC noted that there is an increase in the height of the buildings and hence this proposal will come under 'expansion' while the PP has applied under EC amendment category. The PP has requested for additional time to check with all relevant documents whether this proposal comes under Expansion Category or not. Therefore, SEAC decided to defer this proposal and take up this proposal in ensuing SEAC meeting.

**Agenda No: 355 - 23**

**(File No: 8775/2022)**


**Amendment in the earlier issued Environmental Clearance for the proposed Construction of Residential Building at S.F. No: 30/1 (O.S. No. 518/1 Part, 518/2 Part, 518/3 Part, 518/4 Part, 518/5 Part, 528A/1 Part, 528A/2A) of Thiruvottiyur Village, Thiruvottiyur Taluk, Chennai District, Tamil Nadu by M/s. Radiance Realty Developers India Ltd – For Amendment in Environmental Clearance**

**(SIA/TN/MIS/295640/2022 dated 24.12.2022)**

The proposal was placed for appraisal in this 355<sup>th</sup> meeting of SEAC held on 15.02.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

**The SEAC noted the following:**

- M/s. Radiance Realty Developers India Ltd has obtained Environmental Clearance vide EC Letter No. SEIAA-TN/F.No. 8775/EC/8(a)/825/2021 dated: 13.04.2022 for proposed construction of Residential Building consists of 5 Towers : Tower -1- Block – A,B,C – S+5 Floors each, Tower – 2 – Block-D- S+5 floors. Tower – 3- Block- E (S+5 Floors). Block- F,G -B+S+5 Floors each, Tower

  
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-4- Block-H,J- 5+5 Floors each and Tower- 5 – Block – K (B+5+5 Floors), Block L& M – 5+5 Floors each., Club House – B+G+4 Floors with total built-up area of 50,867.09 sq.m.

- As per Environmental Clearance issued earlier, the grey water generation of 149 KLD will be treated in Grey Water Treatment Plant of 175 KLD and the sewage generation of 95 KLD will be treated in Sewage Treatment Plant (STP) of 110 KLD capacity based on SBR Technology.
- Environmental Clearance issued vide Letter No. SEIAA-TN/F.No.8775/EC/8(a)/825/2021 dated:13.04.2022.
- Now the PP has applied for amendment for STP 285 KLD of SBR Technology was submitted vide SIA/TN/MIS/295640/2022 dated: 24.12.2022.

S.No.			
1.	Quantity of Sewage generation	Sewage generation – 95 KLD Grey water generation – 149 KLD	Sewage generation – 244 KLD
2.	Details of wastewater Treatment Plants	Sewage Treatment Plant –110KLD (SBR) Grey Water Treatment Plant - 175 KLD (SBR)	Sewage Treatment Plant – 285 KLD (SBR)
3.	Mode of Disposal of treated wastewater with quantity	Treated Greywater to be used for Toilet Flushing – 95 KLD & 12 KLD for Green belt. Excess Treated Grey water – 41 KLD – CMWSSB sewer line Treated sewage – 85 KLD – CMWSSB sewer Line	Treated sewage used for 1.Toilet Flushing – 95 KLD & 2.Green belt – 12 KLD 3.Excess Treated sewage to CMWSSB sewer line – 125 KLD

- ◆ Instead of Two treatment system (grey- 175 KLD & sewage- 110 KLD) the PP has opted for one treatment system i.e sewage treatment system -285 KLD. As a result, there is no increase in pollution load.

Based on the presentation & documents furnished by the PP, SEAC decided to recommend for the grant of the following amendment in the Environmental Clearance issued subject to following specific conditions.

Description	As per EC	Amendment recommended
Quantity of Sewage KLD	Grey Water Treatment Plant – 175 KLD Sewage Treatment Plant – 110 KLD	STP capacity – 285 KLD

1. The PP shall operate & maintain the STP in the capacity of 285 KLD of SBR Technology for the period of 10 years.
2. The remaining conditions as stipulated vide vide EC Letter No. SEIAA-TN/F.No. 8775/EC/8(a)/825/2021 dated: 13.04.2022 are unaltered.

Agenda No: 355 - 24

(File No: 8810/2022)

Amendment in the earlier Issued Environmental Clearance for the Proposed construction of high-rise residential building at S.F. Nos:152/1A1A1A1, 152/27& 152/2A1A1A, Valasaravakkam Village, Madhavoyal Taluk, Chennai District by M/s. Radiance Realty Developers India Ltd – For Amendment in Environmental Clearance (SIA/TN/MIS/295746/2022 dated 26.12.2022)


The proposal was placed for appraisal in this 355<sup>th</sup> meeting of SEAC held on 15.02.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

- ◆ M/s. Radiance Realty Developers India Ltd has obtained Environmental Clearance vide EC Letter No. SEIAA-TN/F.No. 8810/EC/8(a)/831/2022 dated: 12.05.2022 for proposed construction of high-rise residential building in 2 Blocks

  
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- Block 1 (G+15 floors) & Block 2 (G+8 floors) with total built-up area of 43,683.75 sq.m.
- As per Environmental Clearance, the grey water generation of 122 KLD will be treated in Grey Water Treatment Plant of 140 KLD and the sewage generation of 64 KLD will be treated in Sewage Treatment Plant (STP) of 85 KLD capacity based on SBR Technology.
- Environmental Clearance issued vide Letter No. SEIAA-TN/T.No.8810/EC/8(a)/831/2022 dated:12.05.2022.
- Now the PP has applied for amendment for STP 225 KLD of SBR Technology was submitted vide SIA/TN/MIS/295746/2022 dated: 26.12.2022.

S. No.	Description	As per EC	As per Amendment in EC
1.	Quantity of Sewage generation	Sewage generation - 64 KLD Grey water generation - 122 KLD	Sewage generation - 178 KLD
2.	Details of wastewater Treatment Plants	Sewage Treatment Plant - 85 KLD (SBR) Grey Water Treatment Plant - 140 kLD (SBR)	Sewage Treatment Plant - 225 KLD (SBR)
3.	Mode of Disposal of treated wastewater with quantity	Treated Greywater to be used for Toilet Flushing - 64 KLD & 10 KLD for Green belt / OSR maintenance. Treated sewage - 61 KLD - CMWSSB sewer Line Excess Treated Grey water - 42 KLD - CMWSSB sewer line	Treated sewage used for 1.Toilet Flushing - 64 KLD & 2.Green belt / OSR maintenance - 10 KLD 3.Excess Treated sewage to CMWSSB sewer line - 95 KLD

- Instead of Two treatment system (grey- 85 KLD & sewage- 140 KLD) the PP has opted for one treatment system i.e sewage treatment system -225 KLD. As a result, there is no increase in pollution load.

Based on the presentation & documents furnished by the PP, SEAC decided to recommend for the grant of the following amendment in the Environmental Clearance, issued subject to following specific conditions.

  
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Quantity of Sewage KLD	Grey Water Treatment Plant – 140 KLD Sewage Treatment Plant – 85 KLD	STP capacity – 225 KLD
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1. The PP shall operate & maintain the STP in the capacity of 225 KLD of SBR Technology for the period of 10 years.
2. The remaining conditions as stipulated vide EC Letter No. SEIAA-TN/F.No. 8810/EC/8(a)/831/2022 dated: 12.05.2022 are unaltered.

**AGENDA No: 355-25**

**(File No: 9326/2022)**

**Proposed Rough stone and Gravel Quarry lease over an Extent of 1.61.0 Ha (Patta land) in S.F.No. 182/2D at Vilangampadi Village, Tindivanam Taluk, Villupuram District, Tamil Nadu by Thiru. R.Manish- For Environmental Clearance. (SIA/TN/MIN/278182/2022, Dated:15.06.2022)**

The proposal was placed in this 355<sup>th</sup> meeting of SEAC held on 15.02.2023. 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/ activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006, as amended.
2. The salient features of the proposed project as follows

Sl. No	Details of the Proposal	
1	Name of the Owner/Firm	Thiru.R.Manish, S/o.Mr.Ramu, No.2/207, Maths Pillai Street, Kunnam Village, Vanur Taluk, Viluppuram – 604304.

  
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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	182/2D
4	Village in which situated	Vilangampadi
5	Taluk in which situated	Tindivanam
6	Distnt in which situated	Viluppuram
7	Extent of quarry (in ha.)	1.61.0 Ha Patta land
8	Lease period	10 years
9	Period of quarrying proposed	First 5 Years
10	Type of mining	Opencast, Semi-Mecharized mining
11	Production (Quantity in m <sup>3</sup> )	As per mining plan, the lease period is 10 years. The mining plan is for the period of first five years & the production should not exceed 1,55,560 m <sup>3</sup> of Rough Stone and 24,290 m <sup>3</sup> of Gravel with an proposed depth of mining 20m BGL (2m Gravel + 18m Rough stone).
12	Annual peak Production (Quantity in m <sup>3</sup> )	35550m <sup>3</sup> of Rough Stone (4th Year) & 8520m <sup>3</sup> of Gravel (1st Year)
13	Ultimate Depth of quarrying	30m BGL (2m Gravel + 28m Rough stone). (No excavation shall be done in the 7 <sup>th</sup> bench of section XY-AB)
14	Proposed Depth of quarrying	20m BGL (2m Gravel + 18m Rough stone).
15	Depth of water table	55m Summer Season 50m Rainy Season
16	Latitude & Longitude of all corners of the quarry site	12°7'26.23"N to 12°7'30.66"N 79°36'13.92"E to 79°36'20.41"E

17	Top Sheet No.	57-P/12
18	Man Power requirement per day:	14 nos
19	Precise area communication issued by the Deputy Director, Department of Geology & Mining with date	Roc.No. B/ G&M/02/2021, Dated: 27.05.2022.
20	Mining Plan approved by Deputy Director, Department of Geology and mining with date	Roc.No. B/ G&M/02/2021, Dated: 01.06.2022
21	500m cluster letter issued by Deputy Director, Department of Geology & Mining.	Roc.No. B/ G&M/02/2021, Dated: 01.06.2022
22	VAO certificate regarding 300m radius cluster	Letter Dated: 09.06.2022
23	Water requirement:  1. Drinking (in KLD) 2. Utilized Water (in KLD) 3. Dust suppression(in KLD) 4. Greenbelt (in KLD)	4.0KLD  0.5 KLD 2.0KLD  1.0 KLD 0.5 KLD
24	Power requirement  I. Domestic Purpose	TNEB 128488 Litres of HSD
25	Project Cost	Rs.93,60,000/-
26	EMP cost	Capital cost: Rs.27,41,661/- Recurring cost: Rs.16,01,000/- Annum
27	CER cost	Rs.5,00,000/- as accepted by the PP

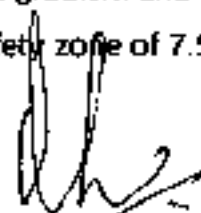
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Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 1,55,560 m<sup>3</sup> of Rough Stone and 24,290 m<sup>3</sup> of Gravel for not exceeding a depth of 20m BGL (2m Gravel + 18m Rough stone) for the first five years but however not exceeding an annual peak production capacity of 35550m<sup>3</sup> of Rough Stone & 8520m<sup>3</sup> of Gravel, 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. 1907(E) dated 12.04.2022.
3. 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.
4. 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.
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


  
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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. Since the habitations are located closely, 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.
10. Since few habitations are situated at a distance range of 700-800 m 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 CSTR-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.
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

  
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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 35 m (or) after the completion of 3 years of operation whichever is earlier, 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. 22-65/2017-1A.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 Government High School, Kunnam Village as committed, before obtaining CTO from TNPCB.

**Agenda No: 355 -26**

**(File No: 7589/2020)**

**Proposed Punganthurai Magnesite & Dunite Mine Project over an extent of 3.63.5 ha in S.F.No. 527/B1 at Punganthurai Village, Dharapuram Taluk, Tiruppur District, Tamil Nadu by Er. A. S. Shankar Ganesan – For Terms of Reference. (SIA/TN/MIN/53834/2018 Dt: 12.06.2020)**

Earlier, this project has placed before 261<sup>st</sup> SEAC meeting held on 7.4.2022. The SEAC noted that, the mining project falls under Schedule I (a), Categorized as B2. The area is located in S.F.Nos. 527/B1, Punganthurai Village, Dharapuram Taluk and Tiruppur District. The entire mining lease area falls in the Patta land. The lease area is a small hillock. The general ground level of the lease area is RL.235.0m, the maximum altitude of the lease area is RL.248.0m. The area is mentioned in GSI Topo sheet No. 58 -F/09. The Latitude between: 10°51'30.41"N to 10°51'36.03"N. The Longitude between: 77°34'30.01"E to 77°34'46.83"E on WGS 1984 datum.

The opencast fully mechanized mining is proposed in the area for excavation of Magnesite & Dunite with 25m [1m topsoil + 24m Magnesite + Dunite (proved III)] depth. The total area of the project = 3.63.5ha. and effective Mine area = 0.69.0ha. Average production per annum = 41,091Ts Magnesite & Dunite @ 44% recovery. Peak production per annum = 51,833Ts of Magnesite & Dunite @ 44% recovery. The mining lease for Magnesite and Dunite, both falling under the category of 'Major Mineral' category as it was then, was granted vide Proceedings Rc.No.16127/MM3/2008, Dated: 09.06.2009 for an area of 3.63.5ha for a period of 20 years. The lease deed was executed on 22.09.2009.

  
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commenced on 23.01.2010 and it is valid upto 21.09.2029. The Mining Plan (2009-10 to 2013-14) was approved by Indian Bureau of Mines vide Letter No.TN/ERD/MP/Mg-1719.MDS, Dated: 01.04.2009. The First Scheme of Mining [2014-15 to 2018-19] was prepared and got approved by IBM, Chennai vide letter no. TN/ERD/MG/MS-1109.MDS, Dated: 04.08.2014.

The proposal was placed in this 168th SEAC Meeting held on 05.08.2020. The proponent has not turned up for the appraisal meeting. Hence the SEAC decided to defer the proposal. Further, the project proponent shall furnish the reason for not attending the meeting to SEIAA.

The project proponent has furnished the reply vide letter dated 21.01.2022.

The project proponent replied the application was submitted for EC Non-violation but the presentation was called for ToR.

Now, the proposal placed for appraisal in this 261st meeting of SEAC held on 07.04.2022. The Project proponent made a presentation. The PP insisted that his case will not come under violation category.

SEAC noted the following.

1. Dunite was placed under the category of 'Major Mineral' when the proponent was granted vide Proceedings Rc.No.16127/MM3/2008, Dated: 09.06.2009. However, the MoM, GoI has declared 'Dunite' to be 'Minor Mineral' in addition to the minerals already declared by the Notification No: S.O.423(E), dated, 10.02.2015.
2. As per the EIA Notification No: S.O.1533(E), dated, 14.09.2006, the requirement of clearance from Environment and Forest Department does not arise as the area applied for Mining Lease over an extent of 3.63.5 Ha only since clearance is required only when the area exceeded 5.00.0 Ha for both Major and Minor minerals.
3. In February 2012, in the matter of Deepak Kumar etc. vs State of Haryana & Ors. the Supreme Court ordered that "leases of minor minerals, including their renewal

  
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for an area of less than five hectares, be granted by the states or union territories only after getting environmental clearance from the MoEF". Since the mining of both Magnesite and Dunite came under the category of Major Minerals, the above Court Order was not applicable to the above mine.

4. In order to ensure compliance of the above referred order of the Hon'ble Supreme Court dated 27.2.2012, the MoEF OM No. L-11011/47/2011-IA.II(M), dated 18.05.2012 recommends that all mining projects of minor minerals including their renewal, irrespective of the size of the lease would henceforth require prior environment clearance. Further it is added that the Mining projects with lease area up to less than 50 ha including projects of minor mineral with lease area less than 5 ha would be treated as category 'B' as defined in the EIA Notification, 2006 and it will be appraised by the respective SEIAAs notified by MoEF and following the procedure prescribed under EIA Notification, 2006.
5. Thus, the aforesaid OM also did not require that the Major Minerals with lease area less than 5 Ha needed Environmental Clearance.
6. Therefore, the question of getting the Environmental Clearance does not arise as long as 'Dunite' was classified as 'Major Minerals' until 10<sup>th</sup> February 2015, when it was classified as a 'minor mineral'.
7. Once 'dunite' became a minor mineral, PP should have applied for EC in terms of OM referred to in 4 above.
8. Further, all mining leases, either major or minor, even less than 5 hectares area, must apply and get Environment Clearance as per the amended EIA Notification dated 15.1.2016. The requirement applied to the existing mining leases as well.
9. Further, in terms of MoEF&CC office memorandum No. F.No.Z-11013/22/2017-IA.II(M) dated: 15.03.2018, only the proposals received up to 13<sup>th</sup> September, 2017 on the Ministry's portal, shall be considered by the SEAC / SEIAA. Further, in terms of MoEF&CC office memorandum No. F.No. 22-10/2019-IA.III dated: 09.09.2019, based on the orders on the Hon'ble High Court of Madras, another one-month

  
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window was given from 14.03.2018 to 14.03.2018 for receiving applications. It is seen from the Parivesh Portal that the PP has applied for EC only on 12/06/2020, which is beyond both the window period.

10. However, as per the letter No. R.C. No. 83/2020/Mines dated 10.03.2020, the PP is said to have filed online application (but not hard copy) to DEIAA on 27.10.2017.
11. PP should produce documentary evidence for filing his application without any defect in DEIAA if the above statement is correct.
12. Even if documents are produced for 8 above, the application can only be considered under violation category.

In view of the above, SEAC decided to defer the consideration of the proposal to give another opportunity to the PP to submit his responses, if any, on the above queries placed by the committee.

Based on the frequent representation by the PP, this proposal was placed in 333<sup>rd</sup> SEAC meeting held on 1.12.2022. During the meeting the PP has requested for additional time to furnish the point wise clarification asked by the SEAC. Therefore, SEAC decided to defer the proposal.

Meanwhile, the PP has filed Contempt petition (Cont.P.No. 1604 of 2022) before the Hon'ble High Court of Madras and the Hon'ble High Court of Madras vide its order Dt:23.01.2023 (uploaded on 31.01.2023) has directed the following.

*"We direct the petitioner to appear before the authority on 01.02.2023 and produce the documents, if any available, over and above what has been submitted, apart from making his submissions. In case the petitioner fails to appear and produce the documents on the said date, orders can be passed by the respondent based on the documents available with him and the said order shall contain the list of documents produced by the petitioner."*

In this regard, the petitioner appeared before the Authority on 01.02.2023 and during the meeting the PP has submitted hard copy of the reply Dt:30.01.2023 received in this office on 01.02.2023 and requested the Authority to consider their said reply and to grant EC under non-violation category.

  
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In view of the above, the Authority in their 588<sup>th</sup> meeting after detailed discussion has decided to refer back the proposal to SEAC for further appraisal.

In this connection, the proposal was placed in the 355<sup>th</sup> SEAC meeting held on 15.02.2023 and in view of the said committee meeting representative from the AD. Geology & Mining Dept., Tiruppur along with relevant file was present. During meeting based on the representation and documents furnished by the project proponent and AD. Geology & Mining Dept., Tiruppur. The Committee noted the following

- i) As per MoEF&CC Notification S.O.141( E) Dt:15.01.2016 states that " Prior Environmental Clearance mandatory for all minerals (Major as well as Minor) irrespective of Size of the of the mine lease.
- ii) The PP has furnished the following letter and stating that

  
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## **SANKARAN MINERALS AND MINES**

22-a, Kumar Nagar South, 3<sup>rd</sup> Street, (Opp. Surya Theatre) Tiruppur - 641603

Cell No - 9842831533, Office - Phone No - 0421 - 2369025, 9842231533

E-mail - sankaranmineralsandmines@gmail.com

engineeringvaasthu@gmail.com

Fr. A S SHANKAR GANESAN

Member Secretary

SEAC - TN, 1<sup>st</sup> Floor, Manganal Road

(Without Prejudice)

Letter No. 34/EC/2021

From:

28.6.2021

Tiruppur

Fr. A S Shankar Ganesan B.F.,

Office: SANKARAN MINERALS AND MINES,

22-a, Kumar Nagar South, 3<sup>rd</sup> Street, (Opp Surya Theatre)

Tiruppur - 641603, Cell No- 98428 31533.

Mines. S.F. No: 327/BI, 1.63.5 Hectares, (Maganadu-Major & Damin Minor Mineral Mine)

Pangudalai Village, Dhanuvaran Taluk, Tiruppur District,

Mine Code 39 THN 27002, IBM Reg No. IBM/9117/2002/ dated 07.01.2012

To:

The Chairman,

State Environment Impact Assessment Authority (SEIAA),

Pangudi Malligal, No.1, Jessica Road, Saidapet,

Chennai - 600015.

Copy to:

1. Director,

Department of Environment,

No-1, Jessica Road, Pangudi Building,

Ground Floor, Chennai - 600 015.

2. The Principal Secretary to Government,

Environment and Forest department,

Government of Tamil Nadu,

Secretariat, Chennai - 600 009.

  
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3. The Secretary, (MoEF&C),  
Ministry of Environmental Forest and Climate Change,  
Jodha Park, New Delhi- 110003.
4. The Principal Secretary to Government,  
Industrial Departments,  
Secretariat, Fort St George,  
Chennai - 600 009.

Respected Sir,

Subj: Request to process my proposal SEA/TN/MIN/53834/2020, as early as possible, my letter no: 16/EC/2021 dated 2.5.2021, already give details, The Ministry of Mines and State Government termination of mining lease and revocation of my mine is under processed - R.C. No: 1305/MMA/2019 dated 12.1.2021, letter by Commissioner of Geology and Mining attached - my humble request please make process my E.C. application as early as possible to avoid a - auction of my mine.

From The Secretary MoEF&C office, V.No:10-a-(1013/25/2021-4A-10M), G.O.L, MoEF&C (IA Divisional, dated 5<sup>th</sup> march 2021, also attached. (1) is addressed member Secretary only - My letter already send you regarding attached - for all my letters, I am not get any reply for my letter more than one year. I expect a reply regarding my proposal legal status, the approximate time to process my proposal within 10 - 15 days, otherwise I approach The Honorable High Court regarding to process my E.C. application.

- Ref:- 1. Letter No: 32/EC/2019 dated 02.11.2019.  
2. Letter No: 33/EC/2019 dated 05.11.2019.  
3. Letter No: 1/EC/2020 dated 03.01.2020.  
4. Letter No: 1/EC/2021 dated 19.02.2021.  
5. P. No: 1A-7/1013/25/2021- 1A-10M), G.O.L, MoEF&C (IA Divisional) dated 5<sup>th</sup> March 2021.  
6. Letter No: 16/EC/2021 dated 2.5.2021.

I, A S SHANKAR GANESAN B.E., a Chartered Civil Engineer having Consultancy in Civil Engineering from 1991, past 30 years in Civil Engineering Consultancy field, having a work worth of 3.63 Crores of Magnesian (Major Mineral) & Dolomite (Major Mineral), S.F. No: 32781, Pungandura Village

  
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Utharapatti Taluk, Tiruppur District. My Mine Code: 39 TMN 27002, IMH Reg. No: IB/MN/117/2012 dated 7.1.2023

My mine has both Major and Minor Minerals below 5 hectares category. My mine is approved by IBM with all major mineral rules, not approved by Tamil Nadu State Government's Minor Mineral rules, as per EIA - 2006. My mine approval is exempted for E.U.

My Mining plan approved by IBM, dated 14.2.2009, No: TN/FRD/MIP/MK-1719 MDS by Controller of Mines (South Zone), Bangalore for the period of 20 years lease period 21.1.2009 to 20.10.2029. Review of Mining Plan approved by Regional Controller of Mines No: TN/ERD/MG/MDS/1149/MDS dated 4<sup>th</sup> Aug 2014. Again my Mining Plan review of Mining Plan by Regional Controller of Mines, No: TN/TPR/MG/ERD/ROMP-1561 MDS dated 23.08.2019, for another five years, upto 2024. My mining plan approved by IBM, as per Major Mineral Mines Rules both magnesite and diaspore.

We are one of four principal producer of Diaspore in India as per IBM Mineral year book 2016, 51<sup>st</sup> Edition final release, released on Feb 2018. Diaspore & Pyroxene, Diaspore is low cost, but strategic mineral in steel industries. It reduced energy consumption, coke consumption, and emission CO<sub>2</sub> reduced in the steel industry, when it is used as flux compare to Dolomite.

For my proposal No. SIA/TN/MIN/4024/2020 dated 1<sup>st</sup> Feb 2020, and the hard copy of application received on 16.6.2020, to process my application the following are possible options available.

1. Accept my request to process my application as non-violation, as the name of Gazette notification 15<sup>th</sup> Jan 2016. As per The Honourable Supreme Court Order mentioned in the Gazette notification, IA, NO-12-13 of 2011 in SLP(C) NO-19628 - 19629 of 2009 dated 27<sup>th</sup> Feb 2012, Major mineral below 5 hectares exempted, major mineral as per model guidelines - 2010 mention in The Honourable Supreme Court order.

2. Once again request if SEAA decided to process under violation. The quantity of violation and approved quantity of my mine, after working from 15.1.2016 upto Nov 2016, Diaspore 500 MT, Magnesite 59.10 MT exceeds my

  
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review of mining plan approved by IBM. for the period (2014 - 15 to 2018 - 19)  
as per table

Table - 11

Year	Proposed (Tonnes)		Actual (Tonnes)		
	Magnetite @ 4% (Ts)	Dunite @ 40% (Ts)	Magnetite (Ts)	Dunite (Ts)	Mineral Waste (Ts)
2014-15	3227	42307	299	1072	1736
2015-16	3106	39760	275	1390	2317
2016-17	3373	43200	70	330	525
2017-18	3053	39072	-	-	-
2018-19	3040	39168	-	-	-
Total	15821	203507	644	3012	4577

Approval quantity = 15821 tonnes Magnetite 203507 tonnes Dunite

Actual production = 644 MT Magnetite 3012 MT Dunite

% of Actual production based on Approval =  $\frac{644 + 3012}{15821 + 203507}$

= 3.656

= 0.017 = 1.7% < 2%

My actual production for below 2% of only 2% of approved quantity.

The violation is per MoEF concern 559 MT of approval quantity 2,19,328

MT

The violation is very very small compared to the IBM mining plan approval quantity.

= Mining production after 15.1.2016

Approval mineral capacity for the period  
of (2015-15 to 2018-19)

= 559 MT

2,19,328 MT


= 0.0025 = 0.25%

= 1/4%

It is very very low below 1%. 1/4th of a percent of 1%

Consider the above fact presents under non violence. I may be get E.C.  
within 4-8 months.

  
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3. If you decided to process under violation only, and asking why you not apply E.C under violation, then E.C. process take another 2 - 3 years, there I may not get E.C. also, it make heavy environmental damages because of our Damac used in steel industry reduced CO2 emission, reduce oxide consumption, reduce energy consumption (electrical), reduce slag volume as per mineral year book 2016, G.O.I, Ministry of Mines, IBM, 55<sup>th</sup> Edition, Damac & Pyroxenite release Feb 2018. Due to shortage of indigenous production. All steel factory export the material and heavy shortage in the market.

4. 'Model Guideline 2010' as per The Honourable Supreme Court Order dated 27<sup>th</sup> Feb 2012, 1A, NO- 12 - 13 of 2011 IN SLP(C) NO- 19628 - 19629 of 2009, Deepak Kumar etc Vs State of Haryana, (111) Ministry of Mines, IBM, TMP Division, Letter No 2467/2000/MRL dated 16<sup>th</sup> May 2013, "classification of major & minor mineral basis of end uses", and the Indian Mineral Year Book 2016, 55<sup>th</sup> Edition, Damac and pyroxenite (Final Release), G.O.I, Ministry of Mines, IBM, published on Feb - 2018, based on Damac map, you can make details, my consultant says there is no practice to E.C. process, consider end use of mineral as per "Model Guideline 2010" by the above The Honourable Supreme Court Order.

My request if possible as per laws, process my proposal No SLA / TN/ MDW/ 140241/2020 dated 1.2.2020, based on environmental merits of the end use of mineral, allow exempted E.C also a good solution, but my consultant says in SIEAA, there is no practice to follow 'Model Guideline 2010' here. For my situation termination mining lease, c - section of my lease by State Governments, it is a good option to me process my application for exemption of E.C as per 'Model Guideline 2010', is a timely help to revive of mining lease.

5. My lease and me, totally affected by MoEFee and State Government, for Environmental Clearance, I am not received any violation notice, directly give compensation (penalty) notice after stopping my mine by A.D. Mines 2 years, and starting c - section plan without give details is very big punishment made by State Governments, MoEFee, for very small violation of 559 M.T of approved mining quantity 2,19,328 M.T., it is 0.25% of approval quantity.

Four years stopped, first 2 years without knowing the violation itself is a big punishment given by MoEFee, and State Governments. My existing stock before production 15 (2016) also stopped through it is environmentally benefited ore,



asking by A.D. Mines for E.C. My mine is minor mineral (Dunite) and major mineral (Magnetite) below 5 hectare both minerals, need your special power, the approval of minor mineral existing mines, as per letter no. L-11011/47/2011- (A.II(M). G.O.I, MoEF, New Delhi 18<sup>th</sup> May 2012, office Memorandum, as per The Honourable Supreme Court Order dated 16.4.2012, process my application for your kind information my application date 27<sup>th</sup> Oct 2017 at that time there is no public consultation for below 5 hectare mines. Consider all difficulties facing by me and termination of mining lease and e - auction of mine, by State Government process within 10 days as a very big timely help to me

Assumed that I received E.C. on or before 2023. They find out environmental pollution made by the labours of 2-3 persons per day for the period of 11 months, there is no machinery, only hand picking from the dumps, no fresh mining made at that period. The labour engaged for only maintains produce small quantity from existing dumps.

The environmental losses to our nation, because of the stoppage of my Dunite production is,

As per IBM approval Plan

Years	Dunite
2017 - 18	19,072
2018 - 19	39,168
2019 - 2020	
(1.9.2019 to 31.3.2020)	17,787
2020 - 2021	43,812
2021 - 2022	43,812
2022 - 2023	37,821


The Total Approval IBM Production = 2,20,729 MT

Present market is very good, for a minimum calculation my mine work at 50% efficiency of approval 1,10,000 MT of Dunite produced and sold to steel industry.

Consider CO2 emission with Dolomite 55,000 MT CO2 emission reduced in steel industry

  
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From the theoretical to practical, consider 50,000 MT of CO2 emission to be reduced is very big environmental achievement. which is stopped by in the E.C process under violation, the violation is 2 - 3 person per day working without machine make environment pollution for the period of 9 months in my mine

My humble request you, kindly see the whole situation sensitively, with the SIEAA committee decide my E.C process under non violation.

Regarding 'Model Guideline 2010' consider end use of mining mineral, I made a Letter No: 1/EC/2020 dated 03.01.2020, after 1 1/2 years, I am not get any reply. I expect a reply from you at least this letter, if I am not get any reply within 10 - 15 days, I have only option THE Honourable High Court regarding to process my E.C application, and violation, and process under 'Model Guideline 2010' and Letter No. L-11011/47/2011-IA.II(M), G.O.I., MoEF, New Delhi 11<sup>th</sup> May 2012, office Memorandum.

Thank you

Yours truly

(A.S.SHANKAR GANESAN)

Dr. A.S. Shankar Ganesan, B.L.MALLAY  
Chartered Engineer (Registration No. 45-01-14)  
10, Anna Nagar, 10th Floor, Anna Nagar, Chennai  
600 060  
28 - A, Anna Nagar South, 3rd Floor,  
Tiruppur - 617 002, Ph: 9421 - 238813  
Cell: 98402 37446, 98402 37130

List of enclosures:-

1. Letter No: 12/EC/2019 dated 02.11.2019.
2. Letter No: 33/EC/2019 dated 05.11.2019.
3. Letter No: 1/EC/2020 dated 03.01.2020.
4. Letter No: 1/EC/2021 dated 19.02.2021
5. F. No: 1A-7-11013/25/2021-1A-II(M), G.O.I., MoEFoc (IA Divisional) dated 1<sup>st</sup> March 2021
6. Letter No: 16/EC/2021 dated 25.02.2021.

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Further, the letter from MoEF&CC vide Z-11013/24/2017-1A.119M) Dt. 3.4.2017 has stated that the "Notification S.O. 141(E) dated 15.01.2016 and inform that all the mining leases (major mineral as well as minor mineral) operating in the country are required to obtain Environmental Clearance (EC) after 15.01.2016 as per the provisions contained in Environmental Impact Assessment Notification, 2006 as amended. Further, no mining lease shall operate without prior EC and all such mines (including less than 5 Hectares) which were in operation before 15.01.2016 are required to stop their mining activity and apply to MoEFCC at Central Level/ State Environment Impact Assessment Agency at State Level/ District Environment, Impact Assessment Agency at District level for seeking EC. The mine leases which continue to operate without obtaining EC after 15.01.2016 shall be considered as violation cases and the same shall be dealt in accordance with the violation policy under Environmental Impact Assessment Notification, 2006 as amended"

- iii) The PP was issued penalty demand notice for Rs. 1,78,055/- issued by District Collector, Tiruppur for continuing quarry operation and transport of the Magnesite & Dunite minerals of quantity 61 MT vide Transport permits were issued Dt:(08.03.2016, 25.04.2016, & 05.07.2016) during the period 15.01.2016 to 10.01.2017 vide proceedings No.533/Mines/2019 Dt:10.09.2019 without obtaining prior Environmental Clearance for the period 15.01.2016 to 10.01.2017. In this connection, the PP has remitted the said penalty demand (Rs. 1,78,055/-) along with interest (Rs. 63,000/-) vide E- Challan No.20210427086290 & 20210427086449 respectively. Details are as follows.

  
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கணக்கிடப்படாத ரூ. 1,78,058/- (ஒராய் ஒரு இலட்சத்து எழுபத்து எட்டாயிரத்து மூன்றுபத்து மட்டும்) இ கிழக்குத்திரிபட்டினம் கணக்குத் தகவலில் மறு வரிக் வசதி, திருப்பூர் கிணத்தில் செலுத்தி தரக் கணமா குவையுமாத்தூதில் வசதிப்படுத்துவது கிழக்குத்திரிபட்டினம் குறிப்பிடப்படும் நம் கெட்டுக் கொண்டிருக்கிறது. நமது பட்சத்தில் தனித்தனியாக வசதி வசதி 1954-ல் கிழ உரிமை கிழக்குத்திரிபட்டினம் கணக்குத் தகவல் தெரிவிக்கப்படுகிறது.

#### Statement

S. No.	Name and address	Town	Village	S.P. No.	Balance	Collector's Receipt No.	Amount paid	Quantity in C.M.	Balance in hand of Receiver
1	A. S. Sankar Gomathi, 22A, Vennar Colony, South 1st Street, Chengai	Chengai T.M.	Pattipattinam	227981	343.0	CCM Recd. No. 19125 / 1957 2028 dated 9.6.1956	34300 9 10 000 2 18	178000	178000

#### Head of Account

Major : 0553 Non Ferrous Mining and Metallurgical Industries  
 Sub-Major : 02 Non Ferrous Mining and Metallurgical Industries  
 Minor : 006 Miscellaneous Receipts  
 Sub-Head : AC Miscellaneous Receipts  
 Sub-Detail : 29 97-Plans and Permits- Forestry, Sectors, construction, etc.,  
 D.F.Code : 0553-02-006-AC-29 97.

(தலைவர் கையொப்பம்)  
 மறு உரிமை கிழக்குத்திரிபட்டினம்,  
 திருப்பூர்.

// உரிமை கிழக்குத்திரிபட்டினம் //

மறு உரிமை கிழக்குத்திரிபட்டினம்,  
 திருப்பூர்.

கிழக்குத்திரிபட்டினம்,  
 (கிழக்குத்திரிபட்டினம்)  
 தகவல் கிழக்குத்திரிபட்டினம்,  
 22-ஆ, வன்னர் கிழக்குத்திரிபட்டினம்,  
 கிழக்குத்திரிபட்டினம்,  
 திருப்பூர்

(கிழக்குத்திரிபட்டினம் தகவல்)

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 10/11/57

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# Government of Tamil Nadu

E-Challen

Payable to: DTQ TERUPUR

Bank Code

Challen Number 20210427066290 Challen Date 27-Apr-2021 Payment Date 27-Apr-2021  
 Remitter Type Public Remitter Code 10 Remitter Name A.S. Sarav Lender  
 Mobile No. 9629089057 Assessor No. Remitter Address Puzhondur  
 Department 02704-Directorate of Geology and Mining District TERUPUR DD Code 32010005  
 DDO / Office Name AS Sarav Lender Department Transaction ID Office Name

Receipt Type	Sub Type	Ass Code	Amount	Reference No.	Remarks
Fine	Fine levied for violation of Act and Rules	085300800A0270407	178055	52781	EC violation

Payment Type	Instrument No.	Instrument Date	Drawn Bank
Challan	085448	27 APR 21	State Bank Of India

Payment Mode Online

Payment Status Success

Challen Amount (Rs.) 178055

Bank Name SBI

Amount (in words) One Lakh Seventy Eight Thousand Fifty Five Rupees only

Bank ref no. CPRAUNDMW5

Remitter Signature

For Bank Use

Bank Branch Stamp and Signature of Cashier

Manager/Accountant

Only "Bank" Department Transaction ID and Office Name fields are created only for a successful departmental registration. If the department is not registered for more specific requirements and the user is not in the Bank, the user is not allowed to proceed further.

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# Government of Tamil Nadu

E-Challan

Payable at - DTG TIRUPUR

Bank Copy

Challan Number: 30210427006449 Challan Date: 27-Apr-2021 Payment Date: 27-Apr-2021  
 Remitter Type: Public Remitter Code: 10 Remitter Name: A.S. Sankar Ganesh  
 Mobile No: 9829586867 Assessor No: Remitter Address: Pungendurai  
 Department: 02706 Directorate of Collector and Mining Tirupur ODD Code: 30610025  
 ODD / Office Name: 02706 Directorate of Collector and Mining Tirupur Department Transaction ID: 02706 Directorate of Collector and Mining Tirupur

Receipt Type	Ass. Code	Ass. Code	Assessors	Reference No	Remarks
Fee	00630500000000000000	6000	02706	EC Violation cost return	
Payment Type	Instrument No.	Instrument Date	Cheque Bank		
Cheque Draft	006305	27-Apr-21	State Bank of India		

Payment Mode: Online

Payment Status: Success

Challan Amount (Rs.): 6000

Bank Name: SBI

Amount (in words): Sixty Three Thousand Rupees only

Bank ref no: CPAALEP000

Remitter Signature

For Bank Use

Bank Branch Stamp and Signature of Cashier

Manager/Accountant

Please retain Department Transaction ID and Office Name/Assessor No. for future reference. In case of any dispute, the Department will be responsible for the payment and the Department will be responsible for the payment.

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- iv) Also, it was observed that PP has filed application seeking EC to DEIAA vide Online proposal no. DIA/TN/MIN/10254/2017 Dt:27.10. 2017.
- v) The said proposal seeking ToR (SIA/TN/MIN/53834/2018 Dt: 12.06.2020) falls under Violation category as per MoEF&CC Notifications vide S.O. 804 (E) Dt. 14.3.2017 & S.O.1030 (E) dated 08.03.2018 and MoEF&CC O.M Dt:15.03.2018.
- vi) As per MoEF&CC, Office Memorandum Dt:12.11.2020 (Exemption of Public Hearing).

In view of the above, the SEAC has decided to grant of Terms of Reference (TOR) under Violation category, subject to the following TORs, in addition to the standard terms of reference for EIA study with the exemption of Public Hearing for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants.

1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.
2. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
3. Copy of valid mining lease approval obtained from the competent Authority.



4. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
5. Copy of request letter submitted for renewal of mining plan.
6. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
7. Copy of total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.
8. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
9. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
10. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.
11. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
12. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
13. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed

  
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- quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
14. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
15. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines.
- a) What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - b) Quantity of minerals mined out.
  - c) Highest production achieved in any one year
  - d) Detail of approved depth of mining.
  - e) Actual depth of the mining achieved earlier.
  - f) Name of the person already mined in that 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.
17. 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).
18. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,
19. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance

  
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between the adjacent quarries & water bodies nearby provided as per the approved mining plan.

20. 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.
21. 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.
22. 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.
23. 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.
24. 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,

  
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- the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
25. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
26. 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.
27. 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.
28. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
29. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
30. Impact on local transport infrastructure due to the Project should be indicated.
31. A tree survey study shall be carried out (nos., name of the species, age, diameter etc..) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
32. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.

33. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
34. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
35. The PP shall produce/display the EIA report. Executive summary and other related information with respect to public hearing in Tamil Language also.
36. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
37. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
38. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
39. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.

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

47. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.

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

**Agenda No: 355-TA 01**

**(File No: 6221/2022)**

**Existing Limestone Mine lease over an extent of 4.15.8 Ha Limestone Mine in S.F.No. 824/1B(P), 824/2(P), 824/3(P), 825/1B(P), 825/2B & 825/3B in Varavanai Village, Kadavur Taluk, Karur District, Tamil Nadu by Shri.N.Krishnamoorthy - For Environmental Clearance under Violation category. (SIA/TN/MIN/79409/2018 Dt.04.07.2022).**

Earlier the proposal was placed in 335th meeting of SEAC held on 06.12.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Shri. N. Krishnamoorthy has applied for the Environmental Clearance for Existing Limestone Mine lease over an extent of 4.15.8 Ha Limestone Mine in S.F.No. 824/1B(P), 824/2(P), 824/3(P), 825/1B(P), 825/2B & 825/3B in Varavanai Village, Kadavur Taluk, Karur District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 1 (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. ToR obtained vide Lr No. SEIAA-TN/F.No.6221/ToR-347/2018 Dated:14.05.2018.
4. Amendment ToR obtained vide Lr No. SEIAA-TN/F-6221/SEAC-CXVIII/ToR-347(A)/2018 Dated:30.07.2018.
5. Public Hearing Conducted 28.02.2020.

Based on the presentation and document furnished by the project proponent, SEAC decided obtain the following additional particulars from the proponent:

- i) The PP shall furnish a letter from DFO on the proximity details of nearest RF

  
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and also the distance of Kadavur Slender Loris Sanctuary with respect to the proposed project site.

Meanwhile, the SEAC decided constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation.

The Inspection proceedings are placed in this 355<sup>th</sup> meeting of SEAC held on 15.02.2023.

**INSPECTION PROCEEDINGS:**

A subcommittee comprising the following member(s) was constituted by SEAC to inspect and study the field condition of the proposal seeking Environmental Clearance in Varavanai Village, Kadavur Taluk, Karur District, Tamil Nadu.

Dr P.Balamadeswaran, Member/SEAC - TN

The sub-committee visited the site on 14.01.2023 and the following has been observed from the sub-committee inspection report:

**1. Salient Features of the Project**

Particulars	Details
Name of the Project	Varavanai Limestone Mine
Project Proponent	Thiru. N. Krishnamoorthi
Location of Mine	S.F. Nos.824/1B (P), 824/2(P), 824/3(P), 825/1B (P), 825/2B and 825/3B is located in Varavanai Village, Sankarankoil Taluk, Karur District, Tamil Nadu
Category of Project	B1
Proposed Production Capacity	Production: 176801 MT for five years
Mine Lease Area	4.15.8 Hectares
Balance Life of Mine	20 Years. As per the recent MMDR amendment Act 2015, the validity of the mining lease is extended up to 13.10.2055. However, all the major minerals will undergo 'Auction' process after 2030 which means that it will have balance life of 7 years as on date.

  
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Total Working Day/year	300 days																				
Total Number of workers employed	45																				
Total Water Requirement & Source	Total Water requirement is 4.0KLD. i) Drinking and utilities shall be 1.5KLD ii) Water for Dust suppression& Drilling 1.0KLD and green belt shall be 1.5KLD.																				
Latitude & Longitude	Latitude- 10°45'21.62" N to 10°45' 12.83"N Longitude- 78°13'21.47"E to 78°13'30.21"E																				
Topo Sheet number	58J/2																				
Eco Sensitivity	No protected areas notified under the wild life (Protection) Act, 1972, critically polluted area as notified by the CPCB from time to time. Forest: Vaiyamalai Reserved forest – 8.50 Km - SE  Interstate Boundary: There is no interstate boundary located within 10 km radius. National Park/Wild life sanctuary: There is no wild life sanctuary/National park within 10 km radius from the project site area under the Wildlife (Protection) Act, 1972. However, newly formed – <i>Kadavur Devangu Sanctuary is situated at a distance of 11.60 km from the mine.</i>																				
Type of Land	Patta land																				
Method of Mining	Manual Method of mining																				
Bench parameters	Bench Height: 6m Bench Width: Not less than bench height Bench Slope: 60° (from horizontal)																				
Depth of Mining	19m bgl																				
Dimension of the Pit - Ultimate	<table><tr><td colspan="4">Pit Limit- Existing</td></tr><tr><td>Pit</td><td>L(m)</td><td>W(m)</td><td>D(m)</td></tr><tr><td>Pit-I</td><td>130m</td><td>40m</td><td>R.L.176-163m</td></tr><tr><td>Pit-II</td><td>28m</td><td>13m</td><td>R.L.176-174m</td></tr><tr><td>Pit-III</td><td>58m</td><td>42m</td><td>R.L.176-168m</td></tr></table> Pit Dimension – 19m (Ultimate)	Pit Limit- Existing				Pit	L(m)	W(m)	D(m)	Pit-I	130m	40m	R.L.176-163m	Pit-II	28m	13m	R.L.176-174m	Pit-III	58m	42m	R.L.176-168m
Pit Limit- Existing																					
Pit	L(m)	W(m)	D(m)																		
Pit-I	130m	40m	R.L.176-163m																		
Pit-II	28m	13m	R.L.176-174m																		
Pit-III	58m	42m	R.L.176-168m																		
Water Table	40-50m bgl. Thus Mining will not intersect the ground water table.																				
Nearest Railway station	Palayam Railway Station – 10.8 km Southwest																				

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Nearest Highway	SH 199 – 8m- West
Nearest Air port	Trichy Airport – 53 km – East
Seismic zone	Zone-II, Low damage risk zone as per BMTPC, Vulnerability atlas Seismic zone of India IS: 1893-2002.
Cost of the project	Project Cost – Rs.10.00,000

## 2. Mining Lease Details

S. No	Details	Date	Area (Ha)	Duration	Validity
1.	Director of Geology & Mining, Chennai Proceeding No. 14384/MM4/1995	29.07.2005	4.15.8 Ha	20	14.10.2005 13.10.2025
2.	MMDR (Amend) Act, 2015				13.10.2025
					50 years validity

## 3. Mining Plan Details

S. No	Mining Plan	Period	Letter No.
1	Mining Plan	2005-06 to 2009-10	letter No. TN/KRR/MP/LST/Mds-1604, dated 26.05.2005
2	1 <sup>st</sup> Scheme of Mining	2010-11 to 2014-15	letter No. TN/KRR/LST/MS-762-MDS, dated 11.03.2013
3	2 <sup>nd</sup> Scheme of Mining	2016-17 to 2020-21	letter No. TN/KRR/LST/MS/1355.MDS, dated 10.05.2016
4	Review of Mining Plan	2021-22 to 2025-26	letter No. TN/KRR/LST/MS/1650.MDS dated 21.06.2021

## 4. Details of Mining

1	Method of Mining	Manual Method of Mining with drilling and blasting for loosening
2	Geological Reserve	424741 MT (60%)
3	Mineable Reserve available	298499 MT (60%)

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4	Proposed Production	Production: 35360.2 MT/annum or 176801 MT for five years
5	Elevation range of the Mine site	176m above MSL
6	Bench Height	6m
7	Bench Width	Not less than bench height
8	Bench Slope	60°
9	Proposed Depth of Mining	19m bgl
10	Life of Mine	20 Years. As per the recent MMDR amendment Act 2015, the validity of the mining lease is extended up to 13.10.2055

#### 1. Past Production Details

The year wise productions on limestone for the past years are given below

  
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The above production is as per approved SOM and ROMP by IBM

**2. Proposed Production Details**

S.No	Year of Production	Mineral production during period in MT	Actual production achieved in MT
<b>Mining Plan</b>			
1	2006-2007	1318	266
2	2007-2008	1318	706
3	2008-2009	1318	680
4	2009-2010	1318	425
5	2010-2011	1318	1175
6	2011-2012	-	3202
<b>Total</b>		<b>6590</b>	<b>6454</b>
<b>scheme of mining</b>			
7	2011-2012	-	3202
8	2012-2013	8663	5229
9	2013-2014	22241	5437
10	2014-2015	63398	4480
11	2015-2016	86668	4840
<b>Total</b>		<b>180970</b>	<b>23188</b>
<b>Second scheme of mining</b>			
12	2016-2017	23231	6658.550
13	2017-2018	38667	-
14	2018-2019	42333	-
15	2019-2020	40820	-
15	2020-2021	42247	-
<b>Total</b>		<b>187298</b>	<b>6658.550</b>
16	2021-22	35555	-
17	2022-23	35424	-
18	2023-24	35064	-
19	2024-25	35505	-
20	2025-26	35253	-
<b>Total</b>		<b>176801</b>	-

**Year wise Development for 2021-2026 (In m<sup>3</sup>)**

  
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Period	Volume(m <sup>3</sup> )					ROM (MT)						
	Total Tentative Excavation (m <sup>3</sup> )	Top Soil	Side Burden (m <sup>3</sup> )	Production @ 60% (m <sup>3</sup> )	Mineral Rejects @ 40% (m <sup>3</sup> )	B.D	Total Tentative Excavation (MT)	Top Soil	Side Burden (MT)	Production @ 60% (MT)	Mineral Rejects @ 40%	Waste Ratio
2021-22	23703	7380	19152	14222	9481	2.5	59258	11070	38304	35555	23703	1 : 2.05
2022-23	23616	4410	---	14170	9446	2.5	59040	6615	---	35424	23616	1 : 0.85
2023-24	23376	---	29532	14026	9350	2.5	58440	---	59064	35064	23376	1 : 2.35
2024-25	23670	---	---	14302	9468	2.5	59175	---	---	35505	23670	1 : 0.66
2025-26	23502	---	---	14101	9401	2.5	58755	---	---	35253	23502	1 : 0.66
Total	117867	11790	48684	70720	47147		294668	17685	97368	176801	117867	1 : 1.31

### 3. Status on Compliance of ToR

Complied as Reported and given in the EIA Report.

### 4. Violation Category

The PP has operated Varavani Limestone Mine during 2016-2017 and produced 7651.4725MT of Limestone. Operating the Lease after 15.01.2016 without EC is the Violation. Violation Period is 292 days. Lease is not in operation since 2017 even though it is legally valid.

Sl.No	Violation Category	Violation	Violation Status	Remarks
1	Valid EC	X	Operating the Lease after 2016-2017 for a Production of	EC was not required for this mine (<5

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			7651.4725MT Limestone leads to Violation. Applied for EC on 02.04.2018	Ha) upto 15.01.2016. However, Prior EC not obtained.
2	Valid CTO	X	No CTOs were obtained	Violation
	Valid Mining Plans/Schemes	✓	IBM has accorded the periodic approvals for Mining Plan/Schemes of the Mine.	There is No Violation in this regard
3	Forest Clearance	-	No Forest Land Involved	Not Applicable
4	Transport Permits		PP has obtained the required Transport Permits.	There is No Violation in this regard.
5	Any Other Violation	-	Nil	Nil

#### 5. Land Use Pattern

The mining operation was concentrated only in the mineral bearing area and it has not reached the cut-off limit of mining. After completion of mining the pit will be used for fishy culture and as a Pond for storing ground water for agricultural developments of adjacent patta lands. Land use pattern is given in the below Table:

**Computation of proposed land use pattern**

1.	Area Under Mining	2.39.55
2.	Reject Dump	0.45.58
4.	Infrastructure	0.01.00
5.	Processing Plant	---
6.	Mineral Storage	---
7.	Sub Grade Minerals	---
8.	Mine Roads	0.04.00

  
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9.	Storage of Topsoil & Plantation	0.67.15
10.	Virgin	0.58.52
<b>Total</b>		<b>4.15.8ha</b>

### EMP Cost

EMP cost has been revised as per the discussions held during the inspection of sub-committee and proposed by the proponent is given below:

1	Compaction, gradation and drainage on both sides (Rs.1500 per hour*20hours)	30,000	5,000	NA
2	Fixed water sprinkling arrangements + Thrice a day water sprinkling by own tankers	Rs.4,00,000	60,000 (Rs. 300/trip/dayx200 days Leaving rainy days)	NA
3.	Air Quality will be regularly monitored as per norms within ML area & Ambient Area	-	60,000 (twice a year)	NA
4.	Muffle Blasting	-	5,000	
5.	Wet drilling procedure/latest eco-friendly drilling machine with separate dust extractor unit	50,000 (Two venturi pipes with fittings )	5,000	NA
6	No overloading of trucks /trucks /tractors (Manual Monitoring Through security Guard )	-	20,000	NA

  
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S.No	Description	Capital Cost	Recurring cost per annum	Remarks
7.	Stone carrying trucks will be covered by tarpaulin (Monitoring if trucks will be covered by tarpaulin)	-	10,000	NA
8	Enforcing speed limits of 20km/hr within ML lease area (Manual Monitoring Through security Guard)	-	5000	NA
9.	Regular monitoring of exhausted fumes as per RTO norms	0	5000	NA
10.	Regular sweeping and maintenance of roads for at least about 200m (provision of Labour @Rs.10,000/ Labour)	0	20,000	NA
11	Installing wheel wash system near gate of quarry	50,000	10,000	NA
12	Source of noise will be during operation of transportation vehicles. HEMM for this proper maintenance will be done at regular intervals.	0	0	Included in operating cost

S.No	Description	Capital Cost	Recurring cost per annum	Remarks
13	Oiling & greasing of transport vehicles and HEMM at regular interval will be done	0	0	Included in operating cost
14	Adequate silence will be provided in all the diesel engines of vehicles.	0	0	Included in operating cost

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15	It will be ensured that all transportation vehicles carry a fitness certificate.	20,000	5,000	Included in operating cost
16	Plantation along periphery of lease area will act as attenuation.	40,000 (200 trees)	10,000	Nil
17	Safety tools and implements that are required will be kept adequately near blasting site at the time of charging.	0	0	NA
18	Line drilling all along the boundary to reduce the ppv from blasting activity and implementing controlled blasting	0	0	Included in operating cost

S.No	Description	Capital Cost	Recurring cost per annum	Remarks
19	Proper warning system before blasting will be adopted and clearance of the area before blasting will be ensured. (Manual / Mine Mate)	10,000	2000	NA
20	Provision for portable blaster shed	50,000	2000	NA
21	NONEL Blasting will be practiced to control ground vibration and fly rocks @ Rs 2 x 14,144 M3/Annum	0	28,288	-
22	Water management (Provision of Garland drainage per hectare ) Rs.10,000	41,580	7500	NA
23	Waste management	10,000	5,000	NA

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24	Bio toilets will be made available outside mine lease on the land of owner itself	0	0	NA
25	Display board with environmental conditions	10,000	1000	NA

S.No	Description	Capital Cost	Recurring cost per annum	Remarks
26	Workers will be provided with personal protective equipment ( Provision of 45 kits 3500 to 4000 per person)(20*3500)	1,57,500	5000	NA
27	Health check up for workers will be provisioned (1000 per person x 45)	0	45,000	NA
28	First aid facility will be provided (Provision of 6 kits)	0	10,000	NA
29	Mine will have safety precaution sign boards.	20,000	2,000	NA
30	Barbed wire fencing to quarry area will be provisioned	--	10,000	Fencing has been done
31	Closure includes greenbelt development wire fencing drains	Rs 25,000	0	NA

32	Installation of CCTV Cameras in the mine and mine entrance ( Camera 6Nos. DVR, Monitor with internet facility)	Rs.30,000	Rs.3000	NA
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33	Implementation as per Mining Plan and ensure safe quarry working (Mines Manager (1 <sup>st</sup> Class/2nd Class/Mine Foreman) under regulation 34/34 (6) of MMR, 1961 and Mining Mate under regulation 116 of MMR, 1961	0	Rs.1,80,000	Salary of permit Manager
34	Green Belt Development (500 trees per hectare- 200 inside, 300- outside) 200 per plant (Capital Cost) 50 for maintenance cost	Rs 2,00,000 (1000 trees)	Rs 50,000	NA
<b>Total Cost</b>		<b>Rs. 11,44,080</b>	<b>Rs.5,70,788</b>	

Year	2023-24(Rs) (Capital Cost+ Recurring cost )	2024-25(Rs)	2025-26 (Rs)	Total Rs (Lakhs)
Amount	17,14,868	5,99,327	6,29,293	29.43

EMP Cost for the plan period: Rs. 29.43 Lakhs

EMP Cost for life of mine: Rs. 1 Crore 59 Lakhs

#### 6. Ecological Damage Assessment

The PP has operated Varavani Limestone Mine during 2016-2017 and produced 7651.4725MT of Limestone. Operating the Lease after 15.01.2016 without EC is the Violation and the period of Violation is calculated as 292 days. Further, the Lease is not in operation since 2017. During the violation period the impacts on the Environmental Components viz. Air, Water, Land, Biological and Socio-economic Environment are assessed by the Field Studies & Observations through NBELT Laboratory as below

Sl.No	Environmental Component	Mine Activity	Impact on the Environment	Damage & Damage Cost	Sub Committee Opinion
1.	Land Use	Production of	Mining was	Since the mining	Accepted

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		7651.4725MT Lime stone Over an Extent of 4.15.8 Ha by Manual Method of Mining	carried out in already excavated pit. No loss of vegetation. Degradation of land due to mining and allied activities	activity is in place from year 1992 it is felt that more area could have been developed with greenbelt and as such shortage of green belt over 0.250Ha is considered under damage assessment. Cost = 340 numbers X Rs.200 per sapling = Rs 68000	
2	Air Quality & Ecology	The overall production during violation period is 6658.550 MT. The mineral was transported by tipper.	Predicted GLC(Cumulative) Impact was very marginal, well within the NAAQS and adequate buffer was there. Good Quality Index was prevailing in the ML Vicinity.	No direct damage. Ambient air quality damage is part of indirect damages caused to biological environment as well as to public health.	Emissions generated during excavation & transportation for excess quantity during violation period was computed.
3	Noise & Vibration	Very less quantity of explosives was used as rate of production per day was less quantity. The method of mining was manual.	Prolonged exposure to a high noise level is harmful to the human auditory system. Mine workers were provided with ear plugs and ear muffs.	No damage due to the activity. Immediate impact on the worker is considered and damage cost calculated for partial provision of PPE to workers. Damage cost = 2 Numbers X 10 Years X Rs.1500 per Person = Rs 30000	Accepted
4	Dewatering for consumption	No surface or ground water	The rain water collected in the pit	However, shortage of	Accepted

		drawls for mine water demand. No ground water table intersection recorded during the violation period.	had improved the ground water level.	provision in drain and settling pond is accounted for damage. Damage cost for Drain = 216 meters X Rs.100 per meters = Rs 21600	
5	Wastewaters	No effluent and no mine pit discharge	Domestic sewage generation was 0.75 KLD and was biologically treated in the septic tank followed by a dispersion trench.	No damage due to the activity	Accepted
6	Solid wastes	The mine rejects were dumped in the earmarked site as per approved Review of Mining Plan.	The runoff along with rejects from dump during rainy season scattered. peripheral garland drain arrangements are in place.	No major damages. Garland drainage has to be developed around dump. Damage cost considered for further inactive dump reclamation enhancement Damage cost for Dump = 0.45ha X Rs.25000 per Ha = Rs 11250.	Accepted
7	Socio economics	Direct and indirect employment was given more than 50 people	<ul style="list-style-type: none"> <li>As per MoEF&amp;CC Norms, 3% of total economic benefit.</li> <li>Creation of direct &amp; indirect employment due to mining and allied activities</li> </ul>	Project cost = Rs.10 Lakhs CER budget at 2% of the Project cost = Rs 20,000.	Accepted.
8	Occupational Health and Risk	Mining and allied activities.	Occupational health and safety	No damage due to the activity.	Accepted.

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			standards were adopted	Damage cost calculated for partial provision of medical test to workers at frequency of once in 3 years. Damage cost = 2 Numbers X 3 Times X Rs.4000 per Person = Rs 24000	
9	Public Health	Mining and allied activities.	Periodical medical camps carried out under CSR activities.	However, the Damage cost calculated for shortage of public health improvement, capacity building activates. Cost Rs. 50000	Accepted
<b>Total Damage Cost assessment</b> A) Environmental Compensation (Remediation plan, NRAP & CRAP) – Rs.4.04 Lakhs. B) CER – Rs.0.20 Lakhs <b>Total – Rs.4.80 Lakhs</b>					

Based on the above EIA model, the aforesaid budget is allotted for the Environmental damage compensation, Natural Resource Augmentation Plan and Community Resource Augmentation Plans as given below.

**7. Environment Remediation Plan, Cost and Time Schedule (As proposed)**  
**Ecological Damage Remediation Plan (Proposed)**

S.No	Environmental component	Remediation Plan/ Activity Description	Budgetary Provision Rs. Lakhs			Total Rs. Lakhs
			I	II	III	
1	Air Quality and Ecology	Additional Green Belt by Planting 300 Trees in Mine Area @ Rs.400 per tree including its maintenance - 100 trees every year	0.50	0.25	0.25	1.00
2	Water Environment	Channelization & Utilization of Surface Runoffs through Garland Drains towards water demand	0.30	0.10	0.10	0.50

  
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3	Socio – economic & public health	Community/public building maintenance and conducting medical camp	0.30	0.10	0.10	0.50
Total			1.10	0.45	0.45	2.00

#### **Natural Resource Augmentation Plan (Proposed)**

Sl. No.	Activity Proposed	Budgetary Provision, Rs. Lakhs			Total, Rs. Lakhs
		I	II	III	
1	Plantation in common areas of villages like bus stops, Govt hospitals, VAO offices (200 Trees)	0.30	0.20	0.20	0.70
2	Installing five numbers of 40 watt Solar light Pole One 40 watt Solar light Pole = Rs.30,000	0.30	0.20	0.20	0.70
Total		0.60	0.40	0.40	1.40

#### **Community Resource Augmentation Plan (Proposed)**

Sl. No.	Activity Proposed	Budgetary Provision, Rs. Lakhs			Total, Rs. Lakhs
		I	II	III	
1	Installation of RO Plant for safe drinking water supply to Government Hospital and Government schools in Nearest Village. (Capacity = 100 LPH – 2 Nos)	0.30	0.20	0.20	0.70
2	Placing cement concrete chairs in bus stops of nearest villages	0.30	0.20	0.20	0.70
Total		0.60	0.40	0.40	1.40

#### **16. CER Budget-Proposed**

Project Cost is Rs.10.00 Lakhs. About Rs.5.00 Lakhs as committed by the PP towards the Corporate Environmental Responsibility (CER) Budget in compliance for execution within

  
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2 years period. PP will spend the CER cost for developing library and sanitary facilities in the Government school as given in the Table.

**17 Summary of Budget Allocation proposed for Remediation, Natural Resource Augmentation & Community Resource Augmentation plan (Proposed by the PP)**

Sl. No.	Activity Proposed	Budgetary Provision, Rs. Lakhs			Total, Rs. Lakhs
		I	II	III	
1	Cost of Damage Remediation Plan	1.10	0.45	0.45	2.00
2	Natural Resource Augmentation Plan	0.60	0.40	0.40	1.40
3	Community Resource Augmentation Plan	0.60	0.40	0.40	1.40
<b>Total</b>		<b>2.30</b>	<b>1.25</b>	<b>1.25</b>	<b>4.80</b>

LETTER OBTAINED FROM THE DISTRICT FOREST OFFICER ON KADAVUR DEVANGU SANCTUARY

  
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1. **മുൻകരുതലുകൾ:** വേണ്ട രൂപ കൈമാറ്റം  
ജനു.13/2023.
2. **കുറർപ്പ:** വ്യക്തമായ ചട്ട മാനദണ്ഡം അനു  
സരിച്ച് 08/2023 ജനു.16/2023.

[illegible][illegible]

தமிழ்-வி.க.சுப்பிரமணியம்,  
கனகசபை தலைவர் குழுவைச்  
சுற்றி கருத்துரைத்தார்.

கி.நா.சி.  
 கி.நா.சி. கி.நா.சி. கி.நா.சி.  
 15-0-13-0. கி.நா.சி. கி.நா.சி. கி.நா.சி.  
 கி.நா.சி. - 035-006.

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**Handwritten Summary:**

**Distance from KADAVUR DEVANGU SANCTUARY : 11.60 km**

Distance from VAIYAMALAIPPALAYAM R.F : 8.50 km

## 18 OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION

1. The Limestone Mining Lease of Shri.N. Krishnamoorthy over an extent of 4.15.8 Ha is located in Varavanai village in Kadavur Taluk.
2. As submitted and verified, the Lease is granted by the Director of Geology & Mining, Chennai vide Proceeding Rc. No. No. 14384/MM4/1995, dated 29.07.2005 for 20 years with validity from 14.10.2005 to 13.10.2025. As per Amended MMDR Act 2015, validity of the Lease is upto 13.10.2055.
3. A copy of the present ROMP approved by IBM vide Letter TN/KRR/LST/ROMP.

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1650.MDS dated 21.06.2021 is provided for verification of the facts.

4. All the three existing pits shall be merged into a single pit with four benches for Systematic mining in the next five years period of operation.
5. No consent from TNPCB was obtained for the Mine.
6. Habitation is located at the distance of 200 m from the Lease and a house located at 175 m is utilized as Mine Office cum Store Room by the PP. However, the manual means of 'Ore sorting' has been adopted as committed with mild 'controlled blasting' in the Mining Plan.
7. No much mining operation was done except two working Pits on the center from the lease area. The West and Eastern side is totally virgin and excavation was not made due to lack of demand for the limestone and there is no much waste removal from these mines.
8. The Lease is fenced with barbed wire in all sides and boundary pillars marked are noticed with geo Coordinates.
9. As reported, the mine is not in operation since Jan 2017 and the Pit is existing in dry condition
10. At present, there is no Mine Office, Rest Shelter, First Aid facility, Tyre/Wheel Cleaning facility, etc. exists in the Lease and it will be made available before commencement of mining operation as reported by the PP.
11. No waste dump is available in this area and disturbed area is only 0.31.01 ha.
12. Garland drains were developed around the Pit but it is covered with soil & gravels.
13. Small quantity of topsoil mixed with gravel was dumped on eastern side as an earth bund to protect surface water enters into the Mine area.
14. There is no water body like river or pond or lakes are found around 500m from the lease hold area. There is no water body within 500m radius. No pumping is required to pump out ground water as the mining extends only to a depth of 13m.
15. Developed Green belt is noticed in patches around the Pit. However, PP has now planted new saplings along the peripheries of the Lease.
16. The Project has a Qualified First-Class Mines Manager, Second Class Mines Manager, Mine Mate and Geologist who were present for discussions during the Inspection.
17. As informed, environmentally friendly Mining activity, manual method without using excavator was carried out in the Lease during the Violation Period upto a depth of 13 m BGL and no ground water- table was encountered.
18. Mineral transportation route exists to reach the SH-199 for the transportation of minerals.

#### 19. Status of Mining Operation

The Mining activities were stopped from 10.01.2017 and there was no

  
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production from this Mine since 2017. The Regional Controller of Mines, Indian Bureau of Mines (IBM), Chennai has accorded its Approval periodically for Mining Plans/Schemes. For present Review of Mining Plan (ROMP) for the Period 2021-22 to 2025-26 has been given approval vide Letter No. TN/KRR/LST/ROMP-1650.MDS dated 21.06.2021. Consents to Operate from Tamil Nadu Pollution Control Board (TNPCB) are to be obtained.

## 20. Present Condition of the Mine Pit and Dump

The physical nature of the limestone deposit :

Strike length (m) - 220 m  
 Width (m) - 130 m  
 Strike direction - West to East  
 Dip - Vertical  
 Depth proved (m) - 19 m

Existing Pit Dimension :-

Existing Pit Limit			
Pit	L(m)	W(m)	D(m)
Pit-I	130m	40m	R.L.176-163m
Pit-II	28m	13m	R.L.176-174m
Pit-III	58m	42m	R.L.176-168m

Waste Dump details : One waste dump is located at Southwest of the lease area (within lease)

## 21. Statutory Manpower

Description	Requirement as per MMR, 1961	No. of Person available during the Mining Operations
	Supervisory	
Permit Manager (Foreman)	1	1

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Mine Mate cum Blaster	1	1
Clerk	1	1
<b>Total</b>	<b>3</b>	<b>3</b>
<b>Labour</b>		
Labour Skilled-Semi Skilled and Un-Skilled = 28 Persons on Contract	45	46
<b>Total</b>	<b>50</b>	<b>51</b>

## 22 Green Belt Development and Plantation

With the guidance of DFO, about 300 Trees in an extent of 0.3Ha (@ 1,000 Trees/Ha), predominantly local species like Neem, Pungan, Teak, etc. are planted with local DFO guidance and maintained with about 90.0% Survival Rate. At the end of ROMP Period, about 200 Trees over an extent of 0.67 Ha @ 1,111 Trees/Ha is planned. Out of which 172 Trees are expected to be survived with 90.67% Survival Rate.

### **Proposed Green Belt Development**

Proposed Green Belt Development					
I	0.6715	Teak, Coconut & Neem	40	5m X 5m	80%
II	0.6715	Teak, Coconut & Neem	40	5m X 5m	80%
III	0.6715	Teak, Coconut & Neem	40	5m X 5m	80%
IV	0.6715	Teak, Coconut & Neem	40	5m X 5m	80%
V	0.6715	Teak, Coconut & Neem	40	5m X 5m	80%

## 23 Violation

PP has operated Varavanai Limestone Mine after 15.01.2016 till 10.01.2017 and produced 7651.4725MT of Limestone. Operating the Lease after 15.01.2016 without EC is the Violation. Violation Period is 292 days.

Earlier, IBM has issued suspension of mining operations order as bank guarantee has not been submitted to this office till date. However, the Review of Mining Plan (ROMP) due for submission for the next five years (2021-22 to 2025-26) with renewal

  
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of the bank guarantee is now submitted with along with this ROMP.

**Step 1: (i) Application of ANY GUIDELINES/MECHANISM by Proponent**

During the Violation Period, Impacts on the Environmental Components viz. Air, Water, Land, Biological and Socio-economics Environment are assessed based on the Norms specified by the Central Pollution Control Board (CPCB) to implement "Polluter Pays" Principle and to levy Environmental Compensation for Restoration of Environmental Damages ('Report of the CPCB In-house Committee on Methodology for Assessing Environmental Compensation and Action Plan to utilize the Fund' based on the Agenda Note of 63rd Conference of Chairman and Member Secretary of PCBs/Committees held on 18.03.2019).

**The Environmental Compensation shall be based on the following formula:**

$$EC = PI \times N \times R \times S \times LF$$

**where,**

EC is Environmental Compensation in Rupees

PI = Pollution Index of Industrial Sector

N = Number of days of violation took place

R = A factor in Rupees for EC

S = Factor for Scale of Operation

LF = Location Factor.

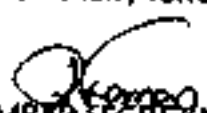
With applicable values of PI-80 (Red Category Industry), N-195 days (of violation period), R-Rs.100 (based on nature of violation; Min. Rs. 100 & Max. Rs.250-), S-0.5 (cumulatively Micro/Small Scale Unit), LF-1.0 (Karuppur Population is less than one million). Environmental Compensation is computed as follows:

$$\begin{aligned}\text{Environmental Compensation} &= 80 \times 195 \times 100 \times 0.5 \times 1.0 \\ &= \text{Rs.11,68,000/- (Maximum)}\end{aligned}$$

However, as per CPCB Guidelines, the Maximum Environmental Compensation shall be for 195 days of Violation will be Rs.11,68,000/

**PENALTY FOR VIOLATION**

The Proponent, Mr. N. Krishnamoorthy has received Demand Notice from the District Collector, Trichy for 100% cost of Mineral value of Limestone quantity produced without EC vide Rc. No. 438/Mineral/2019 dated 02.08.2019 for Rs.5,43,900/-. However, the PP - Mr N. Krishnamurthy, had gone to the Madras High Court and obtained Interim Stay against this penalty and it is still expecting for the results of the Madras High Court (a copy of the Penalty letter & Interim Stay are shown in the Annexure).

  
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Based on the inspection of the project site and other documents furnished by project proponent, Mr. N. Krishnamoorthy, SEAC Sub-Committee recommends the following Estimation made towards the Ecological remediation cost, Natural resources augmentation cost and Community resources augmentation cost under violation category for the concerned lease of Varavanai Limestone Mine, Kulithalai Taluk, Karur District following the SEAC Guidelines after discussing the following related legal provisions made from time to time by various agencies/courts.

***1. Extracts of the Supreme Court of India Common Cause vs Union Of India , on 2 August, 2017 WRIT PETITION (CIVIL) NO. 114 of 2014***

".....In our opinion, as far as the first question is concerned, a reading of EIA 1994 read with the 1st Note implies that the base year would need to be the immediately preceding year that is 1993-94. This is obvious from the opening sentence of the 1st Note, that is, "A project proponent is required to seek environmental clearance for a proposed expansion/modernization activity if the resultant pollution load is to exceed the existing levels." (Emphasis supplied). In its report, the CEC has taken 1993-94 as the base year and we see no error in this. Even the MoEF in its circular dated 28 th October, 2004 stated with regard to the expansion in production: "If the annual production of any year from 1994-95 onwards exceeds the annual production of 1993-94 or its preceding years (even if approved by IBM), it would constitute expansion." If that expansion results in an increase in the pollution load over the existing levels, then an EC is mandated...."

"....The contention of learned counsel for the mining lease holders that EIA 1994 was rather vague, uncertain and ambiguous cannot be accepted. In our opinion, on a composite reading of EIA 1994, it is clear that: (i) A no objection certificate from the SPCB was necessary for continuing mining operations; (ii) An expansion or modernization activity required an EC unless the pollution load was not exceeded beyond the existing levels; (iii) The base year for determining the pollution load and therefore the proposed expansion would be with reference to 1993-94; (iv) Whether an expansion or modernization would lead to exceeding the existing pollution load or not would require a certificate from the SPCB which could be reviewed by the LAA; (v) New projects require an EC; and (vi) Existing projects do not require an EC unless there is an expansion or modernization for the duration (if any) of the validity of the certificate from the SPCB. We need not say anything more on this subject since the CEC has proceeded to discuss the issue of mining in excess of the EC or in excess of the mining plan only W.P. (C) Nos. 114/2014 etc. from the year

  
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2000-01 onwards. The prior period may, therefore, be ignored and it is the period from 2000-01 onwards which is actually relevant for the present discussion...."

"....All that we need to say on this subject is that there is no confusion, vagueness or uncertainty in the application of EIA 1994 and EIA 2006 insofar as mining operations were commenced on mining leases before 27th January, 1994 (or even thereafter). Post EIA 2006, every mining lease holder having a lease area of 5 hectares or more and undertaking mining operations in respect of major minerals (with which we are concerned) was obliged to get an EC in terms of EIA 2006...."

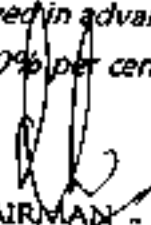
".....In a subsequent letter dated 12th December, 2011 addressed to the Chief Secretary in the Government of Orissa the said Ministry of Mines noted that there were violations of the actual production limit laid down in the mining plan and that the State Government had finally taken steps to curb illegal mining in respect of over-production of minerals. There was a reference to suggest (and we take it to be so) that 20% deviation from the mining plan (in terms of over-production) would be reasonable and permissible. However, it appears from a reading of the communication that illegal mining was going on beyond the 20% deviation limit and that appropriate steps were needed to curb these violations. Learned counsel for the petitioners submitted that such egregious violations must be firmly dealt with by cancellation or termination of the mining lease and a soft approach is not called for...."

".....In this context, it is worth noting that a High Level Committee (called the Hoda Committee) on the National Mineral Policy noted in its Report dated 22nd December, 2006 in paragraph 3.47 as follows :

*"3.47 An EMP [Environment Management Plan] has to be prepared under the MCDR and got approved by IBM. However, this EMP is not acceptable to the MoEF. The miner has to prepare two EMPs separately – one for IBM and another for MoEF. The Committee suggests that IBM and MoEF should prepare guidelines for a composite EMP so that IBM can approve the same in consultation with MoEF's field offices. This will eliminate anomalous situations where increase of even a few tonnes in production requires project authorities to get a fresh EMP approved from the MoEF although the IBM allows a grace of +10% per cent, keeping in view the fluctuations in the market situation and process complexities. If a single EMP is accepted in principle such anomalies can be resolved in advance. The Committee feels the MoEF should also have a cushion of +10% per cent in production while giving EIA clearance."*

  
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"....The above passage indicates that the permissible variation in production as per the Indian Bureau of Mines is +10% but according to the letter dated 12th December, 2011 issued by the Ministry of Mines, the reasonable variation limit could be +20%...."

"....In terms of Rule 22(5) of the MCR a mining plan shall incorporate a tentative scheme of mining and annual program and plan for excavation from year to year for five years. At best, there could be a variation in extraction of 20% in each given year but this would be subject to the overall mining plan limit of a variation of 20% over five years. What this means is that a mining lease holder cannot extract the five year quantity (with a variation of 20%) in one or two years only. The extraction has to be staggered and continued over a period of five years. If any other interpretation is given, it would lead to an absurd situation where a mining lease holder could extract the entire permissible quantity under the mining plan plus 20% in one year and extract miniscule amounts over the remaining four years, and this could be done without any reference to the EC. The submission of learned counsel in this regard simply cannot be accepted...."

".....A submission made by the mining lease holders was that the maximum production in any year up to 1993-94 should be considered as the base for making the calculations. Such a contention was also urged before the CEC and was rejected. We have examined this contention independently and are of the view that the base year of 1993-94 is most appropriate - we have already given our reasons for this. Some lessees might lose in the process while some of them might benefit but that cannot be avoided. In any event, each mining lease holder is being given the benefit of calculations only from 2000-01 and is not being 'penalized' for the period prior thereto. We think the mining lease holders should be grateful for this since it was submitted by learned counsel for the petitioners and the learned Amicus that the penalty should be levied from the date of EIA 1994. In our opinion, the cut-off from 2000-2001 (without interest) is undoubtedly reasonable and there can be hardly be any grievance in this regard...."

".....To avoid any misunderstanding, confusion or ambiguity, we make the following very clear:

*(1) A mining project that has commenced prior to 27th January, 1994 and has obtained a No Objection Certificate from the SPCB prior to that date is permitted to continue its mining operations without obtaining an EC from the Impact Assessment Agency. However, this is subject to any expansion (including an increase in the lease area) or modernization activity after 27th January, 1994 which would result in an increase in the pollution load. In that event a prior EC is required. However, if the pollution load is not expected to*

  
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increase despite the proposed expansion (including an increase in the lease area) or modernization activity, a certificate to this effect is absolutely necessary from the SPCB, which would be reviewed by the Impact Assessment Agency.

(2) The renewal of a mining lease after 27th January, 1994 will require an EC even if there is no expansion or modernization activity or any increase in the pollution load.

(3) For considering the pollution load the base year would be 1993-94, which is to say that if the annual production after 27th January, 1994 exceeds the annual production of 1993-94, it would be treated as an expansion requiring an EC.

(4) There is no doubt that a new mining project after 27th January, 1994 would require a prior EC.

(5) Any iron ore or manganese ore extracted contrary to EIA 1994 or EIA 2006 would constitute illegal or unlawful mining (as understood and interpreted by us) and compensation at 100% of the price of the mineral should be recovered from 2000-2001 onwards in terms of Section 21(5) of the MMDR Act. if the extracted mineral has been disposed of. In addition, any rent, royalty or tax for the period that such mining activity was W.P. (C) Nos. 114/2014 etc. carried out outside the mining lease area should be recovered.

(6) With effect from 14th September, 2006 all mining projects having a lease area of 5 hectares or more are required to have an EC. The extraction of any mineral in such a case without an EC would amount to illegal or unlawful mining attracting the provisions of Section 21(5) of the MMDR Act.

Further, based on the inspection report and the violation notifications issued by the MoEF&CC dated 14.03.2017 & 08.03.2018, SEAC Sub-committee classified the level of damages caused by the Project Proponent on the environment based on the following criteria:

As per the above Notifications, the estimation of Ecological Remediation cost, Natural Resources Augmentation cost and Community Resources Augmentation cost are part of the appraisal of mining projects under violation category.

## **2. Damage Assessment and Evaluation of Costs**

Each mining project has its own characteristics such as mineral mined, mining lease area, mining lease period, method of mining, mined mineral output, mined material storage, waste material storage, transportation of mined material, formation of benches, green belt

  
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development, proximity to the habitations, water body and forest, market value of mined ore, pollution potential of mining project, human safety and health issues and ecological damage. Hence, the SEAC has arrived the following methodology based on major and important factors, field inspection and data collected and expertise of the member of SEAC.

**ESTIMATION OF ECOLOGICAL REMEDIATION COST, NATURAL RESOURCES AUGMENTATION COST AND COMMUNITY RESOURCES AUGMENTATION COST UNDER VIOLATION CATEGORY – M/s. Dalmia Cements (B) Limited, Dalmiapuram**

  
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**STEP - 1:**

Classification of Mining Projects according to the Violation level

Sl No	Criteria	Response	Level of Damage	Concluding Remarks	Final Classification
1.	Year wise Mined Mineral output	The mining operation was carried out as per the approved Mining Plan but without prior EC in the period beyond 15.01.2016 for 292 days producing 7651.4725 Tonnes.	Not carried out with reference without EC as 7651.4725 Tonnes were produced in nine months during the violation period - High Level damage		
2.	Benches formation	Formed as per the specifications given in the approved Mining Plan. BH = 13 m at one side of the pit which is more than the stipulated 6 m bench height. & BW not less than BH (i.e., 8.0 to 12.0 m); Bench Slope = 60-65°. However, the bench height can be reduced during the further	Benches not formed as per the Approved Mining Plan - High Level damage	Out of 11 criteria, 7 criteria have been scored for Low Level of Damage.	Low Level Ecological Damage

  
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		development in near future.			
3.	Drilling, Blasting and Heavy Machineries use	Mild & Short-hole Drilling & Blasting operations were carried out by using Jack hammer. The Secondary blasting adopted using Pop shooting technique.	Drilling & Blasting operations are adopted but the HEMM were not used- High Level damage		
4.	Adequate and qualified statutory personnel	Required: 3	3 number of statutory personnel employed as per the statutory requirements. - Low level damage.		
		Sanctioned & Available:3			
5.	Waste dumps location	Negligible amount of waste produced due to low stripping ratio.	No waste dump placed outside in the mine. - Low Level damage		
6.	Habitations/Forest location	Habitations are partly located in the Northern Parts at a distance of 200 to 250 m range. Note: A small house located at a distance of 180 m used as 'Mine Office & Store Room' during the mining.	Habitations are located within 500 m - High level damage		

7.	Ground water intersection	Not intersecting the Ground Water Table.	Mining operations are not intersecting the Ground Water Table - Low level damage
8.	Green belt development in safety zone and as per norms in terms of species & numbers	Yes, provided. About 120 Trees in an extent of 0.09 Ha, predominantly local species like Neem, Pungan, Teak, etc. are planted and maintained with about 90.0% Survival Rate in this Lease.	Green belt developed around the safety zone - Low level damage
9.	Mined Mineral storage	Not stored in the mine currently. If it is required, it is being stored temporarily within the mine lease area.	No Reserve Ore Stock is being maintained in the mine lease area - Low level damage
10.	Surface Drainage	Constructed as per the specifications.	Garland drains are constructed on the surface - Low level damage
11.	Mined Material transport route	Not Passing through the village	Trucks carrying the Limestone ore are NOT passing through the villages to

  
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			reach the Plant - Low level damage		
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**Step 2: (I) Application of SEAC Methodology**

Level of Damage	Ecological Remediation Cost	Natural Resource Augmentation Cost	Community Resource Augmentation Cost	CER	Total
	Rs. in lakhs / Ha	Rs. in lakhs / Ha	Rs. in lakhs / Ha	Rs. in lakhs / Ha	Rs. in lakhs / Ha
SEAC Scale	0.25	0.30	0.40	0.25	1.20
Actual Amount	25000 × 4.158	30000 × 4.158	40000 × 4.158	25000 × 4.158	120000 × 4.158
	1,03,950	1,24,740	1,66,320	1,03.95 0	4,98,960/-

  
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## DAMAGE COST CALCULATION

SEAC Sub-committee inspected the project site and the documents of project cost details were verified.

The level of damages are assessed by the following criteria:

1. Low level Ecological damage: Only procedural violation – work/operation at site without obtaining EC.
2. Medium level Ecological damage:
  - a. Procedural violation started the construction at site or operation without obtaining EC.
  - b. Infrastructural violation such as deviation from awarded EC, CTO & Mining Plan approvals..
  - c. Non operation of the project.
3. High level Ecological damage: a. Procedural violation (started the construction or operation at site without obtaining EC).
  - b. Infrastructural violation such as deviation from awarded EC, CTO & Mining Plan approvals..
  - c. Under Operation (occupied) without Statutory Approvals.

Thus, the Proposal falls in Low Level Ecological Damage.

### **Step 2: (i) Application of CPCB Guidelines by Proponent**

During the Violation Period, Impacts on the Environmental Components viz. Air, Water, Land, Biological and Socio-economics Environment are assessed based on the Norms specified by the Central Pollution Control Board (CPCB) to implement "Polluter Pays" Principle and to levy Environmental Compensation for Restoration of Environmental Damages ('Report of the CPCB In-house Committee on Methodology for Assessing Environmental Compensation and Action Plan to utilize the Fund' based on the Agenda Note of 63<sup>rd</sup> Conference of Chairman and Member Secretary of PCBs/Committees held on 18.03.2019). The Environmental Compensation shall be based on the following formula:

$$EC = PI \times N \times R \times S \times LF$$

where,

EC is Environmental Compensation in Rupees

PI = Pollution Index of Industrial Sector

N = Number of days of violation took place

R = A factor in Rupees for EC

S = Factor for Scale of Operation

LF = Location Factor.

  
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Note:

- The industrial sectors have been categorized into Red, Orange and Green, based on their Pollution Index in the range of 60 to 100, 41 to 59 and 21 to 40, respectively. It was suggested that the average pollution index of 80, 50 and 30 may be taken for calculating the Environmental Compensation for Red, Orange and Green categories of industries, respectively.
- N, number of days for which violation took place is the period between the day of violation observed/the date of direction's compliance and the day of compliance verified by CPCB/SPCB/PCC.
- A is a factor in Rupees, which may be a minimum of 100 and maximum of 500, it is suggested to consider A as 250, as the Environmental Compensation in cases of violation.
- S could be based on small/medium/large industry categorization, which may be 0.5 for micro or small, 1.0 for medium and 1.5 for large units.
- LF, could be based on population of the city/town and location of the industrial unit. For the industrial unit located within municipal boundary or up to 10 km distance from the municipal boundary of the city/town, following factors (LF) may be used:

S. No.	Population <sup>a</sup> (million)	Location Factor <sup>b</sup> (LF)
1	Less than 1	1.0
2	1 to <5	1.25
3	5 to <10	1.5
4	10 and above	2.0

<sup>a</sup>Population of the city/town as per the latest Census of India  
<sup>b</sup>LF will be 1.0 in case unit is located >10km from municipal boundary

For critically polluted areas / Ecologically Sensitive areas, the scope of LF may be examined further.

- In any case, minimum Environmental Compensation shall be ₹ 5000/day.

With applicable values of PI-80 (Red Category Industry), N-195 days (of violation period), R-Rs.100 (based on nature of violation: Min. Rs. 100 & Max. Rs.250-), S-0.5 (cumulatively Micro/Small Scale Unit), LF-1.0 (Karuppur Population is less than one million), Environmental Compensation is computed as follows:

$$\begin{aligned}\text{Environmental Compensation} &= 80 \times 292 \times 100 \times 0.5 \times 1.0 \\ &= \text{Rs.11,68,000/- (Maximum)}\end{aligned}$$

However, as per CPCB Guidelines, the Maximum Environmental Compensation shall be for 195 days of Violation will be Rs.11,68,000.

Accordingly, the minimum Environmental Compensation for 292 days of Violation will be Rs.11,68,000/- which has to be compensated as follows:

Sl. No.	Activity Proposed	Total Rs.
1	Cost of Ecological Damage Remediation Plan	4,68,000
2	Natural Resource Augmentation Plan	3,50,000
3	Community Resource Augmentation Plan	3,50,000
Grand Total		11,68,000

  
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The Project Cost is Rs.10 Lakhs. CER Budget is arrived as 2% of the Project Cost i.e. Rs.20000/-, but committed to grant CER of Rs. 5 lakhs/-.

**Step 2: (ii) Application of SEAC Methodology**

Level of Damage	Ecological Remediation Cost	Natural Resource Augmentation Cost	Community Resource Augmentation Cost	CER	Total
	Rs. in lakhs / Ha	Rs. in lakhs / Ha	Rs. in lakhs / Ha	Rs. in lakhs / Ha	Rs. in lakhs / Ha
SEAC Scale	0.25	0.30	0.40	0.25	1.20
Actual Amount	25000 × 4.158	30000 × 4.158	40000 × 4.158	25000 × 4.158	120000 × 4.158
Total	1,03,950	1,24,740	1,66,320	1,03,950	4,98,960/=

**CER Budget-Committed**

The PP had committed to provide the following budget towards the Corporate Environmental Responsibility (CER) during the SEAC appraisal.

Name of the School	Particulars	CER Amount
Government Middle School, Varavanai	Upliftment of Toilet facilities for Girls Students.	Rs. 5.00 Lakhs
	Provision of Environment related Books in School Library	
	Maintenance of Chairs & Benches for the class	
	Avenue Plantation around compound wall	
Total		Rs. 5.00 Lakhs

**CONCLUSIONS:**

As the Proposal falls in **Low Level Ecological Damage** and EMP measures were in place (collectively for all Leases in Kallakudi Mine Pit No. 1) during the Violation Period, the Sub-Committee is of the opinion that the higher Environmental Compensation value has been arrived based on the **CPCB Violation Norms** (as calculated by the Proponent) is Rs.11,68,000/- which is higher than Environmental Compensation values of Rs. 4,68,000/- based on the EIA model prepared by the EIA coordinator and Rs. 4,98,960 arrived by the SEAC-TN model and hence it must be compensated for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan as given below:

  
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S. No.	Activity Proposed	Total, Rs.
1	Ecological Damage Remediation Plan	4,68,000
2	Natural Resource Augmentation Plan	3,50,000
3	Community Resource Augmentation Plan	3,50,000
Grand Total		11,68,000

#### Ecological Damage Remediation Plan

S.No	Environmental component	Remediation Plan/ Activity Description	Budgetary Provision Rs. Lakhs			Total Rs. Lakhs
			I	II	III	
1	Air Quality and Ecology	Additional Green Belt by Planting 300 Trees in Mine Area @ Rs.400 per tree including its maintenance - 100 trees every year	0.54	0.54	0.54	1.62
2	Water Environment	Channelization & Utilization of Surface Runoffs through Garland Drains towards demand water	0.52	0.52	0.52	1.56
3	Socio economic & public health	Community/public building maintenance and conducting medical camp	0.50	0.50	0.50	1.50
Total			1.56	1.56	1.56	4.68

#### Natural Resource Augmentation Plan

S. No.	Activity Proposed	Budgetary Provision, Rs. Lakhs			Total, Rs. Lakhs
		I	II	III	
1	Plantation in common areas of villages like bus stops, Govt hospitals, VAO offices (200 Trees)	0.50	0.50	0.50	1.50
2	Installing five numbers of 40 watt Solar light Pole One 40 watt Solar light Pole = Rs.30,000	1.00	0.50	0.50	2.00
Total		1.50	1.00	1.00	3.50

#### Community Resource Augmentation Plan

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S. No.	Activity Proposed	Budgetary Provision, Rs. Lakhs			Total, Rs. Lakhs
		I	II	III	
1	Installation of RO Plant for safe drinking water supply to Government Hospital and Government schools in Nearest Village. (Capacity = 100 LPH – 2 Nos)	1.00	0.50	0.50	2.00
2	Placing cement concrete chairs in bus stops of nearest villages	0.50	0.50	0.50	1.50
Total		1.50	1.00	1.00	3.50

The Project Cost is Rs.10 Lakhs. CER Budget is estimated as 2% of the Project Cost i.e. Rs.20,000/-. However, the PP had committed to provide the following budget towards the Corporate Environmental Responsibility (CER) during the SEAC appraisal.


Name of the School	Particulars	CER Amount
Government Middle School, Varavanai	Upliftment of Toilet facilities for Girls Students.	Rs. 5.00 Lakhs
	Provision of Environment related Books in School Library	
	Maintenance of Chairs & Benches for the class	
	Avenue Plantation around compound wall	
Total		Rs. 5.00 Lakhs

#### STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs.11,68,000/- has to be given to TNPCB for successful implementation of the Schemes in 1 year period. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. CER fund of Rs. 5.00 Lakhs has to be spent by the PP as committed during the appraisal and receipt has to be produced to the SETAA-TN for awarding the EC.
3. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

#### RECOMMENDATIONS

The SEAC Sub-Committee observed that the Mining of Limestone in an extent of 4.15.8 Ha SF No. 824/1B(P), 824/2(P), 824/3(P), 825/1B(P), 825/2B & 825/3B for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the subcommittee opines the grant of Environmental Clearance for Mining of Limestone in an extent of 4.15.8 Ha SF No. 824/1B(P), 824/2(P), 824/3(P), 825/1B(P), 825/2B & 825/3B of M/s. N.

  
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KRISHNAMOORTHY may be considered subject to the following conditions in addition to the normal conditions:

1. The grant of EC is subject to the production of the 'No Dues Certificate' from the State Government (i.e. Department of Geology & Mining) by the PP for the penalty levied by the District Collector to the SEIAA, based on the outcome of the Interim Stay ordered by the Madras High Court.
2. The amount prescribed for Ecological remediation (Rs.4.68 Lakhs), natural resource augmentation (Rs.3.50 lakhs) & community resource augmentation (Rs.3.50 Lakhs), totaling Rs. 11.68 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 11.68 Lakhs 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.
3. 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 from the issue of EC. If not, the bank guarantee will be forfeited to TNPCB without further notice.
4. 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.
5. 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.
6. 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 No. S.O. 1807(E) Dt.12.4.2022.
7. The proposed action plan for green belt development shall be maintained in 33 % of the overall project area and accordingly the plantation shall be carried out in 1.37 Ha including the dumps and safety zone areas.
8. The PP shall install the Environmental Management Cell headed by the statutory First/Second Class Mines Manager appointed for the 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.
9. 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.

10. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia & 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
11. 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.
12. 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.
13. 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.
14. Within one year from the commencement of mining operations, the PP shall carry out the scientific studies for the limestone quarry located close to the habitations, on 'Design of Controlled Blast Techniques' for reducing the impact of blast-induced ground & air vibrations caused due to quarry blasting operation involving NONEL Initiation systems', by involving any of the reputed Research and Academic Institution - CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM/Bangalore, 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.
15. 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.
16. 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.
17. The proponent shall create a separate bank account and shall deposit the cost allocated for the committed EMP activities every year and the said expenditure details spent on the committed EMP activities shall be maintained & periodically submitted to TNPCB.

  
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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. 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.

After detailed deliberation, the SEAC accepted the recommendation of the Sub-committee and decided to recommend the proposal for grant of Environment Clearance for the total ROM production of 1,17,867m<sup>3</sup> which includes production (@60%) of 70720m<sup>3</sup> and mineral rejects of 47147m<sup>3</sup> with an ultimate depth not exceeding 19m below ground level and the annual peak production of 14,222m<sup>3</sup> of Umestone subject to the conditions recommended as above by the sub-committee and other 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 grant of EC is subject to the production of the 'No Dues Certificate' to the SEIAA from the State Geology & Mining (DGM) by the PP for the penalty levied by the District Collector for the exploitation of mineral without prior Environmental Clearance.
3. The amount prescribed for Ecological remediation (Rs.4.68 Lakhs), natural resource augmentation (Rs.3.50 lakhs) & community resource augmentation (Rs.3.50 Lakhs), totaling Rs. 11.68 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 11.68 Lakhs 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.
4. 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 from the issue of EC. If not, the bank guarantee will be forfeited to TNPCB without further notice.

5. 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.
6. 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.
7. 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 No. S.O. 1807(E) Dt12.4.2022.
8. The proposed action plan for green belt development shall be maintained in 33 % of the overall project area and accordingly the plantation shall be carried out in 1.37 Ha including the dumps and safety zone areas.
9. The PP shall install the Environmental Management Cell headed by the statutory First/Second Class Mines Manager appointed for the 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.
10. 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.
11. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia& 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
12. 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.
13. 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.
14. 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.

  
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15. Within one year from the commencement of mining operations, the PP shall carry out the scientific studies for the limestone quarry located close to the habitations, on 'Design of Controlled Blast Techniques' for reducing the impact of blast-induced ground & air vibrations caused due to quarry blasting operation involving NONEL initiation systems'. by involving any of the reputed Research and Academic Institution - CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM/Bangalore, 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 SELAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
16. 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.
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 proponent shall create a separate bank account and shall deposit the cost allocated for the committed EMP activities every year and the said expenditure details spent on the committed EMP activities shall be maintained & periodically submitted to TNPCB.
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. 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.

  
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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.

  
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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.

  
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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.
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.

  
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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>Aegle marmelos</i>	Vilvam	விவம்
2	<i>Adenanthera pavonina</i>	Manjadi	மஞ்சரி, அழகாழகந்தம்
3	<i>Albizia lebbek</i>	Vangai	வங்கை
4	<i>Albizia amara</i>	Uai	உ.அ
5	<i>Bauhinia purpurea</i>	Marthandu	மரத்தாண்ட
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவத்தி
8	<i>Buchanania axillaris</i>	Kathuna	கா.நா
9	<i>Borassus flabellifer</i>	Panni	பன்ன
10	<i>Butea monosperma</i>	Murukkasaram	முருக்கசரம்
11	<i>Bobax caba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Pannai	பன்ன
13	<i>Cassia fistula</i>	Sarakondrai	சரகண்டரை
14	<i>Cassia torburchii</i>	Sengondrai	செங்கண்டரை
15	<i>Chloroxylon swietenia</i>	Purammarum	புரம் மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Nannoli	நன்னா
18	<i>Croton adansonii</i>	Mavalingsan	மாவலிங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உ.அ
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	அ.உ.அ
21	<i>Diospyro sebenerum</i>	Karungali	கரங்கலி
22	<i>Diospyro schloroxylon</i>	Vagana	வா.நா
23	<i>Ficus amplissima</i>	Kallachi	கா. இச்சி
24	<i>Hibiscus tiliaceus</i>	Astrupoorvarasu	அஸ்தூர்ப்பாரசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆய் அரம், ஆயில்
27	<i>Lannea coromandelica</i>	Odhiam	ஒடியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மரம்
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaran	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maran	விளா மரம்
31	<i>Litsea glauca</i>	Pinnappalai	பின்னா. பிண்டா.க.
32	<i>Malluca longifolia</i>	Iluppa	இலுப்பா
33	<i>Maukura hexandra</i>	UllakkiPannai	உ.கோ.க. பன்ன
34	<i>Mimusops elengi</i>	Magzhamaram	மங்கிரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனா
38	<i>Phoenix syriaca</i>	Eechai	ஏச்சை
39	<i>Pongamia pinnat</i>	Pungam	புளம்

40	<i>Prunus mollissima</i>	Mannai	முத்து
41	<i>Prunus serratifolia</i>	Narumalai	சா முத்து
42	<i>Prunus tomentosa</i>	Malpoozansu	சா முத்து
43	<i>Prosopis cinerea</i>	Vanni maram	சா முத்து
44	<i>Pterocarpus marsipiens</i>	Vengai	சா முத்து
45	<i>Pterospermum canescens</i>	Vennangu, Tada	சா முத்து
46	<i>Pterospermum xylocarpum</i>	Polavu	சா முத்து
47	<i>Perthamylon roxburghii</i>	Karipala	சா முத்து
48	<i>Salmolva persica</i>	Uga Maram	சா முத்து
49	<i>Sapindus emarginatus</i>	Manipongai, Soapukai	சா முத்து சா முத்து
50	<i>Swarcia asoca</i>	Asoa	சா முத்து
51	<i>Shrubus asper</i>	Pray maram	சா முத்து
52	<i>Strychnos nuxvomica</i>	Yetti	சா முத்து
53	<i>Strychnos potatorum</i>	Therthang Kottai	சா முத்து
54	<i>Syzygium cumini</i>	Navai	சா முத்து
55	<i>Terminalia belleric</i>	Thandi	சா முத்து
56	<i>Terminalia arjuna</i>	Ven mardha	சா முத்து
57	<i>Toona ciliata</i>	Sandhana vembu	சா முத்து
58	<i>Theophras populnea</i>	Puvazam	சா முத்து
59	<i>Wikstratiphiata</i>	valura	சா முத்து
60	<i>Wrightia tinctoria</i>	Veppalai	சா முத்து
61	<i>Pithecellobium dulce</i>	Kodukkapali	சா முத்து

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உயர்நீதிமன்றம் தீர்மானம் செய்து கொடுத்திருப்பதால் அதற்குரிய அனுமதி வழங்கித் தரப்படும் என்று உறுதிப்படுத்தியுள்ளது.

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