STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU

Minutes of 332nd meeting of the State Expert Appraisal Committee (SEAC) held on 25.11.2022 (Friday) at SEIAA Conference Hall, 2nd Floor, PanagalMaligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects.

Agenda No: 332-01
(File No: 9411/2022)
Proposed construction of Commercial Development building S.Nos. 389/2A1A (part), 390/1 (part) of Mangadu Village, Kundrathur Taluk, Kanchipuram District, Tamil Nadu by M/s. Cybercity Housing Private Limited - For Environmental Clearance (SIA/TN/MIS/283855/2022, dated 28-09-2022)

The proposal was placed in 333rd SEAC meeting held on 25.11.2022. 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, M/s. Cybercity Housing Pvt.Ltd has applied for Environmental Clearance for the proposed construction of Commercial Development building S.Nos. 389/2A1A (part), 390/1 (part) of Mangadu Village, Kundrathur Taluk, Kanchipuram 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. The proposed development involves a total plot area of 4532.3 Sq.m and a total built-up area of 25838 Sq.m.

Based on the presentation and document furnished by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the following specific conditions in addition to normal conditions stipulated by MOEF&.CC,

1. The project proponent shall obtain IGBC Gold rating for the construction project.
2. The proponent shall increase the green belt coverage from the proposed 15% to 20 % by suitably changing the open space & parking area.
3. The proponent shall provide metered e-charging units in the parking area.
4. The PP shall ensure that at least 50% of the HVAC system runs on air cooling mechanism.
5. At least 3 shops in the proposed mall should be earmarked for environmentally

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friendly products and also rental concessions should be given to those shops.

6. The height of the stacks of DG sets shall be provided as per the CPCB norms.
7. The proponent shall ensure that DG sets are run on green energy sources instead of Diesel.
8. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to TNPCB before obtaining CTO.
9. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for Toilet flushing, Green belt development, OSR, and no treated water shall be let out of the premise.
10. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.
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. 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 with proper spacing as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
13. The unit shall ensure the compliance of land use classification fit for construction.
14. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the pubic usage and as committed.
15. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall

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periods and also recharges groundwater in the surrounding area. (2) as a flood control measure. preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.

16. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
17. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
18. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
19. No waste of any type to be disposed of in any other way other than the approved one.
20. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
21. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines.
22. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
23. The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
24. Solar energy should be at least 25% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.

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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 the EMP as committed.

26. As accepted by the Project Proponent the CER cost is Rs. 30 lakhs and the amount shall be spent for the activities as committed by the proponent before CTO from TNPCB.

Agenda No: 332 - 02
(File No: 9419/2022)
Proposed Rough Stone and Gravel quarry lease over an extent of 0.98.0 Ha located at S.F.No. 85/5, 85/6 and 85/7(P) Shozhavaram Village, Vellore Taluk, Vellore District, Tamil Nadu by Thiru. P. Boopalan - for Environmental Clearance. (SIA/TN/MIN/ 285420/ 2022 dated 27.07.2022)

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

The SEAC noted the following:

1. The Project Proponent, Thiru.P. Boopalan has applied for Environmental Clearance for the proposed Rough stone and Gravel quarry lease over an extent of 0.98.0 Ha located at S.F.No. 85/5, 85/6 and 85/7(P) Shozhavaram Village, Vellore Taluk, Vellore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 10 years. The mining plan is prepared for the period of first 5 years. The total production for 5 years not to exceed 51,690 m^3 Rough stone and 13,632 m^3 of Gravel. The annual peak production 11,460 m^3 Rough stone (3rd year) and 4,872 m3 of Gravel (3rd year) with ultimate depth of 12 m BGL.

The proposal is for mining of Rough stone and gravel the salient features of the proposal are as follows:

Sl. No	[redacted]

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1.	Name of the Owner/Firm	:	Thiru.P. Boopalan S/o.Palani No.22, Murugan Kovil Street Chitteri Vellore Vellore - 632002
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Rough Stone & Gravel Quarry
3.	S.F No. of the quarry site with area break-up	:	85/5, 85/6 and 85/7(P)
4.	Village in which situated	:	Shozhavaram
5.	Taluk in which situated	:	Vellore
6.	District in which situated	:	Vellore
7.	Extent of quarry (in ha.)	:	0.98.0 Ha
8.	Period of quarrying proposed	:	5 years
9.	Type of mining	:	Opencast Semi-Mechanized Mining Method
10.	Production (Quantity in m^3)	:	As per the approved Mining Plan, 58,420 m^3 of Rough stone, 13,632 m^3 of Gravel to be produced for a depth of 17 m during the first 5 years.
11.	Revised Actual Production Quantity as accepted by the PP and permitted by the SEAC (Quantity in m^3)		51,690 m^3 of Rough stone, 13,632 m^3 of Gravel to be produced for a depth of 12 m for a period of first 5 years; Bottom bench of 4 m width is not to be extracted during the first 5 years.
12.	Latitude & Longitude of all corners of the quarry site	:	12°49'19.61" N to 12°49'23.68"N 79°06'01.53" E to 79°06'05.59"E
13.	Top Sheet No.	:	57 P/01
14.	Man Power requirement per day:		20 Nos.

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15.	Precise area communication approved by the Assistant Director, with date	:	Rc. No. 59/2021(Mines), Dated: 27.04.2022
16.	Mining Plan approved by the Assistant Director, Department of Geology and Mining, with date	:	Rc. No. 59/2021(Mines), Dated: 10.06.2022
17.	Water requirement: 1. Drinking & domestic purposes 2. Dust suppression 3. Green Belt	:	2.5 KLD 1.0 KLD 1.0 KLD 0.5 KLD
18.	Power requirement a. Domestic Purpose b. Industrial Purpose		TNEB No electricity is needed for mining operation
19.	Ultimate Depth of quarrying	:	37m (Bottom bench of 4 m width shall not be extracted during the first five years)
20.	Depth of water table	:	50m-53m
21.	Project Cost (excluding EMP cost)	:	Rs. 49,88,000
22.	EMP cost	:	Capital Cost - Rs. 10,80,000 Recurring Cost – Rs. 10,47,000
23.	CER cost		Rs. 5 lakhs
24.	Assistant Director, mines 500m cluster letter		Rc. No. 59/2021(Mines), Dated: 13.06.2022
25.	VAO certificate regarding 300m radius cluster		Letter dated: 14.06.2022

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 51,690 m³ of Rough Stone and 13,632 m³ of Gravel for not exceeding a depth of 12 m for the first five years but however not exceeding an annual peak production capacity - 11,460 m3 of Rough stone and 4,872 m3 of Gravel with an ultimate depth of 37 m BGL, subject to the standard conditions as per the Annexure

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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 No. S.O. 1807(E) Dt12.4.2022.
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 communicate the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the 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 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 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 maintain proper benching & sloping for the gravel formation separately with adequate width of not less than 2 m during the quarrying operations.
7. The PP shall carry out the shallow depth Jack hammer drilling (of 32-34 mm dia & 1.5 m depth) & NONEL initiation based 'controlled' blasting operation involving muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 20 m from the blast site.
8. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed directly by him as per the provisions of MMR 1961.

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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 carry out the scientific studies on design of controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock in the proposed quarry, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research (CIMFR)/Dhanbad, NIRM, IIT (ISM)/Dhanbad, Anna University Chennai-Dept of Mining Engg, NIT Surathkal-Dept of Mining Engg, etc shall be carried out within one year from 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.

11. 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 5 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IITs, NIT-Dept of Mining Engg. Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories 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.

12. The PP shall furnish an affidavit while obtaining the CTO that a building situated at a distance of 70 m is owned by him and it will be used as stores pertaining to the quarrying activities.

13. 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 before obtaining the CTO from the TNPCB.

14. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.

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15. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
16. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
17. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent to the committed activities for Government Higher Secondary School, Pennathur Village before obtaining CTO from TNPCB.

Agenda No: 332-03
(File No: 9424/2022)
Proposed Rough stone and Gravel Quarry over an area of 4.51.0 Ha in patta land at Survey No. 11/1, 11/2, 11/3, 12/2 & 12/3 in Therkunam Village, Vanur Taluk, Viluppuram District, Tamil Nadu by M.S.M Mining for Environmental Clearance (SIA/TN/MIN/286093/2022 Dt. 30.07.2022)

The proposal was placed in this 332nd 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.M Mining has applied for Environmental Clearance for the proposed Rough stone and Gravel Quarry over an area of 4.51.0 Ha in patta land at Survey No. 11/1, 11/2, 11/3, 12/2 & 12/3 in Therkunam Village, Vanur Taluk, Viluppuram District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 10 years. As per the mining plan, total excavation for the first 5 years should not exceed 9,44,278 cu.m of rough stone & 78,672 cu.m of Gravel. The annual peak production is 190500 cu.m of rough stone (2nd Year) & 78672 cu.m of Gravel (1st year) . The ultimate depth is 35 m BGL (section XY-AB – 35m & section XY-CD – 25m) (2m Gravel + 33m Roughstone)

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Sl. No.	Details of the Proposal		
1	Name of the Owner/Firm	:	M.S.M Mining. S/o Vaithy. No.15/1, Gandhi Streer, Thiruneermalai, Chromepet, Chennai-600 044
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	:	11/1, 11/2, 11/3, 12/2 & 12/3
4	Village in which situated	:	Therkunam
5	Taluk in which situated	:	Vanur
6	District in which situated	:	Viluppuram
7	Extent of quarry (in ha.)	:	4.51.0 Ha of patta land
8	Period of quarrying proposed	:	5 Years
9	Type of mining		open cast semi mechanized mining
10	Production (Quantity in m^3)	:	As per the approved Mining Plan. 9,44,278 cu.m of Rough stone & 78,672 cu.m of Gravel for a depth of 35 m during the first 5 years.
	Revised Actual Production Quantity as accepted by the PP and permitted by the SEAC (Quantity in m^3)		9,13, 820 cu.m of Rough stone & 73,480 cu.m of Gravel for the first 5 years.
11	Annual peak production (Quantity in m^3)		1,90,500 cu.m of Rough stone (2nd Year) & 73,480 cu.m of Gravel (1st year) as 5192 cu.m of Gravel available in the XY-CD Section shall be used for the ramp & haul road construction only.
11	Latitude & Longitude of all corners of the quarry site	:	12° 6'58.54"N to 12° 7'8.34"N 79°43'4.50"E to 79°43'13.23"E
12	Topo Sheet No.	:	57-P/12
13	Man Power requirement per day:		16 Employees
14	Precise area communication approved by the Assistant Director, Dept. G&M Coimbatore with date	:	Roc.No. A/G&M/165/2022 Dated:07.07.2022
15	Mining Plan approved by the Deputy Director, dept of Geology and Mining with date	:	Roc.No. A/G&M/165/2022 Dated:15.07.2022
16	500 m approved by the Deputy Director, Dept of Geology and Mining		Roc.No.A/G&M/165/2022 Dated:15.07.2022

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17	Water requirement: 1. Drinking Water (in KLD) 2. Utilized Water (in KLD) 3. Dust suppression (in KLD) 4. Green Belt (in KLD)	:	6.0KLD 0.5KLD 1.5KLD 2.0 KLD 2.0 KLD
18	Power requirement b. Domestic Purpose c. Industrial Purpose		TNEB 768518 Liters for 5 years
17	Depth of quarrying	:	35 m BGL (No excavation is permitted in the section XY-CD) (2m Gravel + 33m Roughstone)
18	Depth of water table	:	60m in summer -55m in rainy season
20	Project Cost	:	Rs. 98,51,350/-
21	EMP cost	:	Capital cost: Rs. 27,90,000/- Recurring cost/annum : Rs.38,73,378/-
22	CER Cost		Rs. 7.0 lakhs
23	V AO Letter		Letter Dated 22.01.2022

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production quantity for first 5 years should not exceed 9,13, 820 cu.m of Rough stone & 73,480 cu.m of Gravel with the annual peak production not exceeding 1,90,500 cu.m of Rough stone & 73,480 cu.m of Gravel for the ultimate depth is upto 35 m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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

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Chennai Region before obtaining the CTO as the habitations are situated nearby.

3. 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 before obtaining the CTO from TNPCB.
4. The Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
5. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the bottom 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 PP shall construct the embankments around the garland drains but outside the fencing in the periphery of the quarry before obtaining the CTO from the TNPCB, such that the rain water is collected into the drains leading to a precipitation/settling pond constructed at a suitable place on the surface preventing the entry into the pit and also let off into the surrounding after proper treatment.
7. The PP shall not excavate 30,458 m^3 of Rough stone and 5192 m^3 of Gravel available from the XY-CD section for the commercial purposes and it shall be used only for constructing accessible ramp with required gradient of not exceeding '1 in 14' to '1 in 16' as per the DGMS norms for the proposed quarry.
8. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact as the depth of the proposed quarry exceeds 30 m after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
9. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 4 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.

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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 Local Panchayat Union Office, SEIAA, MoEF, TNPCB, and AD/Mines-DGM as a part of Environmental Compliance without any deviation.

10. As the habitations are located at 500 – 800 m range from the proposed quarry lease, 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. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
12. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 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.
13. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a 'Standard Operating Procedure' (SoP) for carrying out the safe method of blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
14. Since few habitations including farm houses & poultry farms are situated at a distance range of 300 m to 500 m from the mine lease boundary, within six months from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of

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Mining and Fuel Research (CIMFR)/Dhanbad, NIRM, IIT Madras, IIT(ISM)-Dhanbad, NIT Surathkal-Dept of Mining Engg, Anna University Chennai-Dept of Mining Engg, 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.

15. 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.

16. 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.

17. The PP shall ensure that the blasting operations shall be carried out during a time interval as prescribed by the DMS, Chennai 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.

18. As the water tank is situated at a distance of 180 m from the quarry lease, the Project Proponent shall conduct the hydro-geological study within six months from the commencement of mining operations to assess the impacts due to quarrying operations by involving a reputed Research and Academic Institution such as University of Madras - Dept of Geology, IIT Madras, Anna University Chennai-Dept of Geology, 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.

19. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.

20. The PP shall carry out the plantation of 2000 saplings along the periphery of the proposed quarry site and haul roads before obtaining the CTO from TNPCB.

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21. 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.
22. 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.
23. 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.
24. As accepted by the Project proponent the CER cost is Rs. 7.0 lakhs and the amount shall be spent for the Government High School, Therkunam Village, Villupuram District as committed, before obtaining CTO from TNPCB.
25. The Proposed afforestation as per the recommendation of SEAC-TN is 500 trees per hectare. In this project, the proponent M.S.M Mining will plan to do quarry in 4.51.0hectares. Therefore, 2000 number of trees are recommended by SEAC, TN for this project. The plant saplings of 2m height should purchase by the PP from nearby nurseries located at Kovilur X- Road and Maintenance for 5 years should did by proponent.

Agenda No: 332-04
(File No: 9427/2022)
Proposed rough stone quarry lease over an extent of 2.25.0 Ha in S.F.no 279/1 (Part-2), Kondappanayanapalli Village, Bargur Taluk, Krishnagiri District, Tamilnadu by Thiru.R.Shanmugam – For Environmental Clearance (SIA/TN/MIN/285784/2022 dated 28.07.2022)

The proposal was placed in 332nd meeting of SEAC held on 25.11.2022. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

I. The project proponent, Thiru.R.Shanmugam has applied for Environmental Clearance for the proposed rough stone quarry lease over an extent of 2.25.0 Ha in S.F.no 279/1 (Part-2), Kondappanayanapalli Village, Bargur Taluk, Krishnagiri District, Tamilnadu.

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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. Earlier, the proponent was issued with Environmental Clearance vide Lr.No.SEIAA-TN/F.No.5627/1(a)/EC.No.3783/2016 dated 13.10.2016 for a validity of 5 years for quarrying in the project area.

Based on the presentation and details furnished by the project proponent, the Committee noted that there is non-compliance of many of the conditions as stipulated in the EC granted earlier as per the Certified Compliance Report, submitted by the proponent. Hence, the committee after detailed discussions decided to consider the proposal only after obtaining the adequate responses from the PP for the following points:

i) The proponent shall erect Barbed wire fencing all around the boundary of the project area.

II) As per the EC issued earlier, the proponent shall complete the plantation/afforestation work by planting the native species on all sides of the lease area at the rate of 400/Ha. At least 10 Neem trees should be planted around the boundary of the quarry site.

iii) The proponent shall display the name board at the quarry site showing the details of Proponent, lease period, extent, etc..

iv) The PP shall install the ear-marked boundary pillars along the wire fencing.

v) The PP shall show the evidence of insurance paid for the persons employed.

vi) Blast vibration prediction model indicating the vibration level at 300 m, 500 m and 1 km from the quarry.

vii) The PP shall show the Ground water control measures as per the conditions laid by the CWC.

viii) The PP shall show the photographical evidences indicating the rainwater harvesting measures.

ix) The PP shall construct the "Toe Retaining Walls" along the dumps placed within the lease hold area to prevent eh erosion of dumps.

x) The PP shall carry out the plantation along the slopes of the dumps and highwall benches in the ultimate pit boundary.

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xi) The PP shall show the record of carrying out the Free Silica Test for the persons employed in the mines.

xii) The PP shall show the records of ground water monitoring carried out.

xiii) The proponent shall also comply with all other necessary conditions as per the earlier EC issued dated.13.10.2016.

xiv) Besides, the structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds, etc.

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

Agenda No. 332-05
(File No. 9429/2022)
Proposed Rough stone and gravel quarry lease over an extent of 2.02.0 Ha at S.F.Nos. 2196/1, 2196/2, 2196/3, 2198/1, 2198/2 and 2201 of Allinagaram Village, Theni Taluk, Theni District, Tamil Nadu by Thiru V. Sivaraman - for Environmental Clearance. (SIA/TN/MIN/ 286752/2022 dated 05.08.2022)

The proposal was placed in this 332nd 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, Thiru V. Sivaraman has applied for Environmental Clearance for the proposed Rough stone and gravel quarry lease over an extent of 2.02.0 Ha at S.F.Nos. 2196/1, 2196/2, 2196/3.2198/1, 2198/2 and 2201 of Allinagaram Village, Theni Taluk, Theni 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.

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 certified compliance report.

(ii) A letter from the concerned DFO stating the proximity distance of Agamalai RF, WLS etc., located within 25 Km from the project site.

(iii) The PP shall complete the tree plantation along the safety barrier and the fencing.

On receipt of the reply, the Committee will deliberate further and decide future course of action.

Agenda No: 332-06
(File No: 9431/2022)
Proposed Rough Stone & Gravel quarry lease over an extent of 2.62.0 Ha of patta land at Survey No. 1/3 and 1/4A in Kothandapuram Village, Vandavasi Taluk, Tiruvannamalai District, Tamil Nadu by Thiru. R. Sivakumar - for Environmental Clearance (SIA/TN/MIN/282337/2022 Dt. 01.08.2022)

The proposal was placed in this 332nd 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, Thiru. R.Sivakumar has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 2.62.0 Ha of patta land at Survey No. 1/3 and 1/4A in Kothandapuram Village, Vandavasi Taluk, Tiruvannamalai District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the lease period of 10 years. As per the mining plan, production for the first 5 years should not exceed 2,33,855 cu.m of Rough stone & 35,810 cu.m of Gravel & 16,988 cu.m of Weathered Rock. The annual peak production is 48580 cu.m of rough stone (5th Year), 20960 cu.m of Gravel (2nd year) & 9860 cu.m of Weathered Rock (2nd year). The ultimate depth is 33m BGL (2m Gravel + 1m Weathered Rock + 30m Rough stone)

[redacted]			
1	Name of the Owner/Firm	:	R. Sivakumar, S/o Ramalingam,

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			No.12/11, Rajiv Gandhi Street, Lakshmipuram, Chromepet, Chennai-600004
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	:	1/3 &1/4A
4	Village in which situated	:	Kothandapuram
5	Taluk in which situated	:	Vandavasi
6	District in which situated	:	Tiruvannamalai
7	Extent of quarry (in ha.)	:	2.62.0 Ha of patta land
8	Period of quarrying proposed	:	10Years
9	Type of mining		open cast semi mechanized mining
	Production as per the approved Mining Plan (Quantity in m^3)		2.33.555 cu.m of Rough stone & 35,810 cu.m of Gravel & 16,988 cu.m of Weathered Rock
10	Revised Actual Production Quantity as accepted by the PP and permitted by the SEAC (Quantity in m^3)	:	2.14.040 cu.m of Rough stone & 35.000 cu.m of Gravel & 16.900 cu.m of Weathered Rock
11	Annual peak production (Quantity in m^3)		43750 cu.m of rough stone (5th Year), 20960 cu.m of Gravel (2nd year) & 9860 cu.m of Weathered Rock (2nd year)
11	Latitude & Longitude of all corners of the quarry site	:	12°31'06.60"N to 12°31'13.53"N 79°27'45.71"E to79°27'51.90"E
12	Topo Sheet No.	:	57 P/06
13	Man Power requirement per day:		27Employees
14	Precise area communication approved by the Assistant Director, Coimbatore with date	:	Rc. No. 62/Kanimam/2022, dated: 08.06.2022
15	Mining Plan approved by the Deputy Director, dept of Geology and Mining with date	:	Rc. No. 62/Kanimam/2022, dated: 14.06.2022
16	500 m approved by the Deputy Director, Dept of Geology and Mining		Rc. No. 62/Kanimam/2022, dated: 14.06.2022

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17	Water requirement: 5. Drinking (in KLD) 6. Domestic purposes (in KLD) 7. Dust suppression (in KLD) 8. Green Belt (in KLD)	:	2.5KLD 1.0KLD 0.5KLD 0.5 KLD 0.5 KLD
18	Power requirement d. Domestic Purpose e. Industrial Purpose		TNEB
17	Depth of quarrying	:	33m BGL (2m Gravel + 1m Weathered Rock + 30m Rough stone)
18	Depth of water table	:	55m in rainy season -58m in summer season
20	Project Cost	:	Rs. 85,52,000/-
21	EMP cost	:	Capital cost: Rs. 21,18,000/- Recurring cost : Rs. 17,90,650/-
22	CER Cost		Rs. 5.0 lakhs
23	V AO Letter		Letter dated: 16.06.2022
24.	Habitation location		730 m

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 total production quantity of 2,14,040 cu.m of Rough stone & 35,000 cu.m of Gravel & 16,900 cu.m of Weathered Rock for a period of first 5 years with the annual peak production not exceeding 43750 cu.m of rough stone, 20960 cu.m of Gravel & 9860 cu.m of Weathered Rock for the ultimate depth of 33m BGL and subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier **vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.**
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and obtain 'NOC' for carrying out the blasting

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operation in the proposed quarry from the DMS, Chennai before obtaining the CTO as the habitations are situated nearby.

3. 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. 1$/1959 before obtaining the CTO from TNPCB.
4. The Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
5. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the bottom 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 PP shall maintain proper benching & sloping for the gravel formation separately with adequate width of not less than 2 m during the quarrying operations.
7. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact as the depth of the proposed quarry exceeds 30 m after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
8. 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.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
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 Partide Velocity) measured in the

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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.

11. Since few habitations including farm houses & poultry farms are situated at a distance range of 300 m to 500 m from the mine lease boundary, within six months from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research (CIMFR)/Dhanbad, NIRM, IIT Madras, IIT(ISM)-Dhanbad, NIT Surathkal-Dept of Mining Engg, Anna University Chennai-Dept of Mining Engg. 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.
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 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 4 years of operation whichever is earlier, by involving a

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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.

16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
17. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
20. As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the Panchayat Union Primary School, Kothandapuram Village as committed. before obtaining CTO from TNPCB.

Agenda No: 332-07
(File No. 9447/2022)
Proposed Rough stone & Gravel quarry over an extent of 2.81.50 Ha at SF.No. 1051/2, 1051/3, 1058/1A and 1058/1B Sevalkulam Village, Thiruvengadam Taluk, Tenkasi District by Thiru. C. Jegadeesan- For Environmental Clearance.(Proposal No. SIA/TN/MIN/288723/2022, dt: 22.8.2022)

The proposal was placed in the 332nd SEAC meeting held on 25.11.2022. The project proponent gave a detailed presentation. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

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1. The Project Proponent, **Thiru. C. Jegadeesan** has applied for Environmental Clearance for the Proposed Rough stone & Gravel quarry over an extent of 2.81.50 Ha at SF.No. 1051/2, 1051/3, 1058/1A and 1058/1B Sevalkulam Village, Thiruvengadam Taluk, Tenkasi District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.

Sl. No	Details of the Proposal		
1	Name of the Owner/Firm	:	Thiru. C. Jegadeesan, S/o. Chinnasamy Naidu, Sevalkulam - 627 754, Thiruvengadam Taluk, Tenkasi District.
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	:	1051/2, 1051/3, 1058/1A and 1058/1B
4	Village in which situated	:	Sevalkulam
5	Taluk in which situated	:	Thiruvengadam
6	District in which situated	:	Tenkasi
7	Extent of quarry (in ha.)	:	2.81.50 Ha
8	Period of quarrying proposed	:	5 years
9	Type of mining		Opencast Semi Mechanized Mining
10	Production (Quantity in m^3)	:	3,93,965 m^3 of Rough Stone, 22,694 m^3 of Weathered Rock and 46.336 m^3 of Gravel
11	Latitude & Longitude of all corners of the quarry site	:	09°11'78.28"N to 09°11'24.21"N 77°37'44.97"E to 77°37'53.28"E
12	Topo Sheet No.	:	58-C/12
13	Man Power requirement per day:		23 Nos
14	Precise area communication approved by Deputy Director / Assistant Director (I/c), Department of Geology and Mining with date	:	Roc.No.M1/33561/2016 dated:04.07.2022
15	Mining Plan approved by Deputy Director / Assistant Director (i/c).	:	Rc.No.M1/33561/2016 dated:07.07.2022

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	Department of Geology and Mining with date		
16	Water requirement: 9. Drinking & domestic purposes (in KLD) 10. Dust suppression (in KLD) 11. Green Belt (in KLD)	:	2.5 KLD 1.0 KLD 1.0 KLD 0.5 KLD
17	Power requirement f. Domestic Purpose	:	TNEB
18	Depth of quarrying	:	38m bgl
19	Depth of water table	:	55m in Rainy season and 58m in Summer
20	Whether any habitation within 300m distance	:	No
21	Project Cost (excluding EMP cost)	:	Rs. 81.89,000/-
22	EMP cost	:	Rs. 4.80.000/-
23	CER cost	:	Rs. 5.00.000/-
24	Assistant Director, mines 500m cluster letter	:	Rc.No.M1/33561/2016 dated:07.07.2022
25	VAO certificate regarding 300m radius cluster	:	Letter dated: 16.07.2022
26.	Habitations/Structures around the lease		Village @ 520 m; Village Road @ 280 m; Unused Crusher @ 150 m; Unapproved Shed @ 380 m.

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 total excavation quantity of 393965m³ of **Rough Stone, 22694m³ of Weathered rock & 46336m³ of Gravel** for a period of 5 years and however it shall not exceed the Annual peak production capacity of 79505m³ of **Rough Stone, 16974m³ of Weathered rock & 11748m³ of Gravel with an ultimate depth of 38m below ground level**, 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

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

2. The 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 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 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 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 490 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. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.

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9. Since few habitations & structures are situated at a distance range of 280 m to 520 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 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.
10. 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.
11. 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.
12. 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.
13. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact as the depth of the proposed quarry exceeds 30 m after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
14. 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 4 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. 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 towards the Panchayat Union Primary School Sevalkulam for the activities as committed, before obtaining CTO from TNPCB.

Agenda No. 332-08
(File No. 9478/2022)
Proposed for Existing Black Granite quarry lease over an extent of 2.57.0 Ha at S.F.Nos. 314/12, 314/13, 315/4A, 315/4B, 315/5, 358/1B, 358/1C, 358/3A, 358/3B, 358/3C1, 358/3C2, 358/4, 358/9A1, 358/9A2, 358/10A and 358/10B of Keelapuliyur (South) Village, Kunnam Taluk, Perambalur District, Tamil Nadu by Thiru .S. Sumanth Ram- for Environmental Clearance. (SIA/TN/MIN/ 400590/2022 dated 16.09.2022)

The proposal was placed in this 332nd 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, Thiru. S. Sumanth Ram has applied for Environmental Clearance for the proposed Existing Black Granite quarry lease over an extent of 2.57.0 Ha at S.F.Nos. 314/12, 314/13, 315/4A, 315/4B, 315/5, 358/1B, 358/1C, 358/3A, 358/3B, 358/3C1, 358/3C2, 358/4, 358/9A1, 358/9A2, 358/10A and 358/10B of Keelapuliyur (South) Village, Kunnam Taluk,

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2. The project/activity is covered under Category "B2" of Item 1(a) 'Mining of Mineral Projects' of the Schedule to the EIA Notification, 2006.
3. EC obtained vide Lr.No.DEIAA- PBLR/F.No.222/2(a)/EC.No.1/2017 dated : 06.09.2017.
4. Mine plan has been prepared for the lease period, i.e., 20 years fulfilling the requirements of the provisions laid under the clause (b) of the sub-section (2) of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 but however, the a 'Tentative scheme of mining and annual programme and plan for excavation from year to year for five years' as a part of the aforesaid approved Mining Plan has been prepared for 5 years as per the provisions of Mineral Conservation Rules, 1960.
5. As per mining plan, the lease period is 20 years. The total production & development plan is for the period of 5 years indicates that the production should not exceed 39,995m³ of ROM and 4,000m³ of Black Granite @ 10% recovery and 35995m³ of Granite waste @90% with ultimate depth of mining 29m Below ground level . The annual peak production 8100 m³ of ROM (2nd,3rd &4thyear) and 810 m³ of Black Granite @ 10% recovery (2nd,3rd &4th year) and 7290m³ of Granite waste @90% (2nd,3rd &4th year).

	Details of the Proposal	
1.	Name of the Owner / Firm	S.Sumanth Ram S/o R Sriram(Late) IFF, Aathi Home, Parson Sristi Apartments Opposite to Fathima College Madurai Ditstrict
2.	Type of quarrying	Black Granite Quarry
3.	S.F No. of the quarry site with area break-up	S.F.Nos. 314/12, 314/13, 315/4A, 315/4B, 315/5, 358/1B, 358/1C, 358/3A, 358/3B, 358/3C1, 358/3C2, 358/4, 358/9A1, 358/9A2, 358/10A and 358/10B
4.	Village in which situated	Keelapuliyur (South) Village
5.	Taluk in which situated	Kunnam Taluk
6.	District in which situated	Perambalur District
7.	Extent of Quarry (in ha.)	2.57.0ha

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8.	Period of Quarrying proposed	20 Years
9.	Type of Mining	Opencast Mechanized Mining
10.	Production (Quantity in m^3)	As per mining plan, the lease period is 20 years. As per the Production & Development Plan is for the period of first 5 years, the total excavation should not exceed 39.995m^3 of ROM and 4.000m^3 of Black Granite @ 10% recovery and 35995m^3 of Granite waste @90% with ultimate depth of mining 29m Below ground level. The annual peak production 8100 m^3 of ROM (2nd,3rd &4thyear) and 810 m^3 of Black Granite @ 10% recovery (2nd,3rd &4th year) and 7290m^3 of Granite waste @90% (2nd,3rd &4th year).
11.	Latitude &Longitude of all corners of the quarry site	11°17'10.96"N to 11°17'19.29"N 78°57'36.48"E to 78°57'41.43"E
12.	Topo sheet No.	58-1/15
13.	Precise Area Communication approved by the Industries (MMB.1) Department	G.O.(3D) No.16, Industries (MMB.1) Department, Dated 22.09.2017
14.	Mining plan approved by the Commissioner, Department of Geology and Mining,	Rc. No. 4519/MM5/2016, dated: 08.05.2017.
15.	500mts letter approved by the Assistant Director, Department of Geology and Mining, Theni	Rc.No.46/2014 /Mines , Dated: 11.08.2022.
16.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression 3. Green Belt (in KLD)	1.8KLD 0.5KLD 0.7KLD 0.6KLD
17.	Power requirement: a. Domestic purpose b. Machinery works	The average diesel requirement will be 64,000liters of HSD for during this scheme period.
18.	Existing depth of mine	14 m BGL
19.	Ultimate Depth of mine	29m Below ground level
20.	Depth of Water table	54m in summer and 59m in rainy season below from the ground level.

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21.	Whether any habitation within 300m distance	There are no approved habitations within the radius of 300m.
22.	Project cost	Rs. 2,14,20,000/-
23.	EMP cost	Rs.93,17,021 for 5 years
24.	CER cost	Rs.5,00,000/- Lakhs
25.	VAO letter dated	Letter Furnished Dated Nil

Based on the presentation made by the proponent, **SEAC decided to recommend the proposal for the grant of Environmental Clearance for the total excavation should not exceed the annual peak production of 8100 m³ of ROM which includes 810 m³ of Black Granite @ 10% recovery and 7290m³ of Granite waste @90% for ultimate pit depth of 29 m BGL** subject to the 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 induding 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. 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 of Lakhs as committed.
3. As accepted by the Project Proponent the revised CER cost is Rs.5 lakhs and the amount shall be spent to the activities as committed for Panchayat Union Primary School, Keelapuliyur Village, Kunnam Taluk, Perambalur before obtaining CTO from TNPCB.
1. The proponent shall mandatorily appoint the statutory Mines Manager and the Mining Engineer in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Granite Conservation & Development Rules, 1999 respectively.
2. 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. 1/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.

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3. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de silted and maintained properly.
4. 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).
5. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
6. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
7. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
8. The PP shall carry out the scientific studies to assess the slope stability of the existing benches and quarry wall within one year from the commencement of mining operations, 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
9. 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 Granite, waste, over burden, side burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope

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of working (viz. method of mining, dump management, 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.

10. The Proponent shall ensure that the overburden, waste rock and non-saleable granite generated during prospecting or mining operations of the granite quarry shall be stored separately in properly formed dumps on grounds earmarked. 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. Such dumps shall be properly secured to prevent the escape of material in harmful quantities which may cause degradation of the surrounding land or silting of water courses.
11. 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.
12. 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.
13. 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.
14. 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.

15. 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.

16. **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.

17. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarry as assured in the Environmental Management Plan& the approved Mine Closure Plan.

18. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.

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

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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.

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 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.

25. 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.

26. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the Granite Conservation and Development Rules 1999, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are compiled 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.

27. 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.

28. 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

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Project Proponent liable for legal action in accordance with Environment and Mining Laws.

29. 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.

30. 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.

31. 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. The Project Proponent shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines (IBM) from time to time.

32. 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.

33. 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.

Agenda No: 332-09
(File No. 94862022)
Proposed Gravel quarry over an extent of 3.16.5 Ha at SF.No.204/B Nathampalayam Village, Dharapuram Taluk, Tiruppur District by Thiru. A. Varadaraj,- For Environmental Clearance .(Proposal No. SIA/TN/MIN/401945/2022, dt:28.11.2022)

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The proposal was placed in the 332nd SEAC meeting held on 25.11.2022. The project proponent gave a detailed presentation. 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, Thiru. A. Varadaraj_has applied for Environmental Clearance for the Proposed Gravel quarry over an extent of 3.16.5 Ha at SF.No.204/B Nathampalayam Village, Dharapuram Taluk, Tiruppur District , Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.

	Details of the Proposal	
1.	Name of the Owner / Firm	Thiru. A. Varadaraj, S/o. Arjunasami Gounder; Door No. 12/55, Sundamedu, Varadapampalayam, Kangayam, Tiruppur District, Tamil Nadu – 638 701.
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Gravel quarry
3.	S.F No. of the quarry site with area break-up	204/B,
4.	Village in which situated	Nathampalayam Village
5.	Taluk in which situated	Dharapuram Taluk
6.	District in which situated	Tiruppur District
7.	Extent of Quarry (in ha.)	3.16.5 Ha
8.	Latitude & Longitude of all corners of the quarry site	10°50'07.99"N to 10°50'14.59"N 77°36'29.54"E to 77°36'36.46"E
9.	Topo sheet No.	58-F/09
10.	Type of Mining	Opencast method of shallow mining Without drilling and blasting.
11.	Period of Quarrying proposed	Three Years
12.	Production (Quantity in m^3)	50,660m^3 Gravel,
13.	Depth of quarrying	2m below from the existing ground level
14.	Depth of water table	59m-54m (BGL)
15.	Man power requirement per day	10 Employees

16.	Source of Water Requirement	Approved water vendors and Existing bore wells
17.	Water requirement: 1. Drinking & domestic purposed (In KLD) 2. Dust Suppression, Green Belt & Drilling (in KLD)	2.1 KLD 0.4 KLD 1.0 KLD 0.7 KLD
18.	Power requirement: a) Domestic purpose b) Industrial Propose	 TNEB 8440 Liters of HSD
19.	Whether any habitation within 300m distance	No
20.	Precise Area Communication approved by the. Assistant Director, Department of Geology and Mining, with date	R.c.No. 1478/2021/Mines, Dated: 22.6.2022
21.	Mining plan approved by Deputy Director, Department of Geology and Mining, with date	Letter No. 1478/2021/Mines, Dated:05.07.2022
22.	Assistant Director, Department of Geology and Mining, with date 500mts letter	Rc. No. 1478/2021/Mines, Dated:05.07.2022
23.	VAO Certificate regarding 300m Radius letter dated	21.06.2022
24.	Project cost (excluding EMP cost)	Rs.30.74Lakhs
25.	EMP cost	Rs.1.00Lakhs
26.	CER cost	Rs. 2 Lakh

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance *for a period of 3 Years from the date of execution of lease* for the production quantity of 50660 m³ of Gravel & the ultimate depth of mining upto 2m BGL subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The proponent shall mandatorily appoint the statutory competent persons accordingly for the proposed quarry size to satisfy the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.

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2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
4. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
5. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals.
6. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly.
7. Proper barriers to reduce noise level and dust pollution should be established by providing tree plantation with not less than 1900 saplings along the boundary of the quarrying site before obtaining the CTO from the TNPCB 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

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local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.

10. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
11. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
12. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
13. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
15. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per

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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 compiled by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
18. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
19. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
20. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation. If the project site attracts the NBWL clearance, as per the existing law from time to time.
21. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
22. 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.

23. 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.

24. 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.

25. **As accepted by the Project proponent the CER cost is Rs. 2.00 lakhs and the amount shall be spent for the Govr Girls Hr Sec School Dharapuram as committed, before obtaining CTO from TNPCB.**

1. Hygienic Toilet facilities.
2. Painting of Class Rooms.
3. Environmental related books for school library.
4. Developing Greenbelt in and around the school campus.

Agenda No: 332-10.
(File No. 9501/2022)
Proposed Earth Quarry over an extent of 2.65.5Ha at SF.No.1070/1B & 1071/2 of Palavoor Part-I Village, Radhapuram Taluk, Tirunelveli District by Thiru.T.Sivamiras - For Environmental Clearance .(Proposal No. SIA/TN/MIN/402672/2022, dt: 10.10.2022)

The proposal was placed in the 332nd SEAC meeting held on 25.11.2022. The project proponent gave a detailed presentation. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

The SEAC noted the following:

3. The Project Proponent, Thiru.T.Sivamiras_has applied for Environmental Clearance for the Proposed Earth Quarry over an extent of 2.65.5Ha at SF.No.1070/1B & 1071/2 of Palavoor Part-I Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu.
4. The project/activity is covered under Category "B2" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
5. Earlier appl No. SIA/TN/MIN/173771/2020 dt: 07.10.2020 was appraised (File No. 7921/2020) vide 267th SEAC meeting held on 28.04.2022 & 286th SEAC

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meeting held on 17.06.2022. the SEAC noted that the Tekkumalai West Reserve Forest is located within 1km from this project site and close to Tiger reserve from the GOOGLE map and the proposal is, therefore, hit by the G.O(MS) No. 295 dated 03.11.2021 and the Committee, therefore, decided not to recommend the proposal and same was accepted in 531st authority Meeting Dt:12.07.2022.Also, DFO, Kanniyakumari Division, Nagercoil vide lr. Dt:14.03.2022 stating the following

a) Google earth map for Kanyakumari Wild life Sanctuary and the proposed quarry location along with radial distance from Eco sensitive zone and reserved forest is enclosed.

b) As it is located outside Eco sensitive zone, there is no objection from forestery point of view for this earth quarry.

6. **However, the DFO/ Wild Life Warden, Kanyakumari Division vide Lr. C.No. DI/1436/2021 Dt:07.07.2022 has informed that the distance between the Thekkumalai Reserve Forest (Kanyakumari Wild Life Sanctuary) and the proposed quarry location is 1.49 KM & 0.49 km outside the Eco sensitive zone of Kanyakumari Wild Life Sanctuary.**

7. The precise area communication was issued for the period of 3 Years. The approved mining plan is for the period of 3 Years & for the production quantity of 37620 m^3 of Earth and the peak production shall not exceed 12540 m^3 of Earth/Year. The ultimate depth is 2m BGL.

	Details of the Proposal		
1	Name of the Owner/Firm	:	Thiru.T.Sivamiras, S/o.Thavasi Nadar, No.3/145, Avaraikulam Post, Radhapuram Taluk, Tirunleveli District.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Earth
3	S.F No. Of the quarry site with area break-up	:	1070/1B & 1071/2
4	Village in which situated	:	Palavoor Part-1

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5	Taluk in which situated	:	Radhapuram
6	District in which situated	:	Tirunelveli
7	Extent of quarry (in ha.)	:	2.65.5Ha
8	Latitude & Longitude of all corners of the quarry site	:	08°12'48"N to 08°12'57"N 77°33'43"E to 77°33'49"E
9	Topo Sheet No.	:	58 – H/12
10	Type of mining		Opencast Mechanized of Mining
11	Period of quarrying proposed	:	3 years
12	Production (Quantity in m^3)	:	37,620 m^3 of Earth
13	Depth of quarrying	:	2m
14	Depth of water table	:	43m BGL
15	Man Power requirement per day:		7 Nos.
16	Source of Water Requirement		water vendors
17	Water requirement: 12. Drinking & domestic purposes (in KLD) 13. Dust suppression, Green Belt &Wet Drilling (in KLD)	:	2.0 KLD 0.5 KLD 0.75 KLD 0.75 KLD
18	Power requirement		TNEB
19	Whether any habitation within 300m distance	:	No
20	Precise area communication approved by the, Collector's Office, Department of Geology and Mining with date	:	Rc.No.M2/20333/2016, dt: 16.09.2016
21	Mining Plan approved by Assistant Director (i/c), Department of Geology and Mining with date	:	Roc.No.M2/20333/2016, dt: 29.09.2016
22	Assistant Director (i/c), Department of Geology and Mining 500m cluster letter		Rc.No.M2/20333/2016, dt: 29.09.2016
23	VAO certificate regarding 300m radius cluster		Letter dt: 21.10.2016.
24	Letter of NOC obtained from the Assistant Director, Department of Geology and Mining with date		Rc.No. M2/20333/2016 Dt. 30.11.2022
25	Project Cost (excluding EMP cost)	:	Rs.15.53 Lakh
26	EMP cost	:	Rs.55.22 Lakhs /3 Years including capital cost of Rs. 17.02 Lakhs.
27	CER cost		Rs. 5 Lakhs

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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 the period of 3 Years* for the production quantity of 37620 m^3 of Earth and the peak production does not exceed 12540 m^3 of Earth/year & the ultimate depth of mining upto 2m BGL subject to the standard conditions & normal conditions stipulated by MOEF &CC. In addition to the following specific conditions:

1. The proponent shall mandatorily appoint the statutory competent persons accordingly for the proposed quarry size to satisfy the provisions of Mines Act 1952 and Metalliferrous 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

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established by 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. (Ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
11. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-silitation 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

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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 compiled by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
18. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
19. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
20. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.

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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. 5.00 lakhs and the amount shall be spent for the Panchayat Union Primary School, Palavoor Village as committed, before obtaining CTO from TNPCB.

Panchayat Union Primary School, Palavoor Village
1. Hygienic Toilet facility. 2. Providing desk & benches to Classrooms 3. Environmental Science based books for library in Tamil language. 4. R.O Water Facility 5. Developing Greenbelt in and around the school Campus.

Agenda No.332-11
(File No: 9502/2022)
Proposed Expansion of Hospital Building at S.F Nos: 554/2B, 554/3, 554/4B, 554/4B2, 554/6B, 554/7, 554/8, 555/1, 555/2A, 555/3A, 555/4A, 555/4B1, 555/5, 555/6,

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555/7, 555/8 & 555/9 inNeelambur Village, Sulur Talukand Coimbatore District, Tamil Nadu by M/s. Royal Care Super Speciality Hospital Limited–Environmental Clearance for Expansion.(SIA/TN/MIS/401956/2022 dated:03.10.2022).

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

The SEAC noted the following:

1. The Project Proponent, M/s.Royal Care Super Speciality Hospital Limited has applied for Environmental Clearance for the Proposed Expansion of Hospital Building at S.F Nos: 554/2B, 554/3, 554/4B1, 554/482, 554/6B, 554/7, 554/8, 555/1, 555/2A, 555/3A, 555/4A, 555/4B1, 555/5, 555/6, 555/7, 555/8 & 555/9 in Neelambur Village, Sulur Taluk and Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 8(a) "Building & Construction Projects" of the Schedule to the EIA Notification, 2006.
3. Environmental Clearance issued vide SEIAA.Lr.No.SEIAA-TN/F.No.6119/EC/8(a)/511/2016 dated: 19.05.2017 for Proposed Expansion of Hospital Facility by M/s. Royal Care Super Speciality Hospital Limited at S.F Nos: 554/2B, 554/3, 554/4B1, 555/1, 555/2A, 555/3A, 555/4Ain Neelambur Village, Sulur Taluk and Coimbatore District, Tamil Nadu. It is proposed to expand 4th & 5th floor on existing main block (Basement + Ground + 3 floors) & additional construction of Oncology Block (Basement + Ground + 5 floors)having total land area of 20,650 Sqm andtotal built up area of 35,529.48 Sqm.
4. The Certified Copy of the Compliance Report for Earlier EC issued videSEIAA.Lr.No.SEIAA-TN/F.No.6119/EC/8(a)/511/2016 dated: 19.05.2017 was submitted the PP. This has been approved by the Competent Authority vide E.P/12.1/2022-23/SEIAA/99/TN/951 dated: 08.09.2022.

		Details
1.	Name of the Project	Proposed Expansion of Hospital Building of M/s. Royal Care Super Specialty Hospital Limited

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2.	Location	S.F Nos: 554/2B, 554/3, 554/4B1, 554/4B2, 554/6B, 554/7, 554/8, 555/1, 555/2A, 555/3A, 555/4A, 555/4B1, 555/5, 555/6, 555/7, 555/8 & 555/9 in Neelambur Village, Sulur Taluk and Coimbatore District, Tamil Nadu.
3.	S.F.NO	Existing S.F Nos: 554/2B, 554/3, 554/4B1, 555/1, 555/2A, 555/3A, 555/4A Proposed S.F.No: 554/4B2, 554/6B, 554/7, 554/8, 555/4B1, 555/5, 555/6, 555/7, 555/8 & 555/9
4.	Type of Project	Building and Construction Projects Schedule 8 (a), Category "B"
5.	Latitude & Longitude	

Latitude	Longitude
11° 3'34.18"N	77° 5'19.39"E
11° 3'34.97"N	77° 5'26.16"E
11° 3'31.71"N	77° 5'26.49"E
11° 3'31.76"N	77° 5'27.03"E
11° 3'27.15"N	77° 5'27.12"E
11° 3'27.73"N	77° 5'23.65"E
11° 3'27.96"N	77° 5'19.30"E

6.	Total Plot/Land Area (in sq. m) (after Expansion)	48,733.86 Sqm (Existing- 20,650 Sqm and proposed- 20,081.86 Sqm.)
7.	Built up area	1,03,489.89 Sqm (Existing 34,443.47 Sqm + Addition 69,046.42)
8.	Cost of Project	Rs. 327 Crores
9.	Land Use Breakup	

S.No	Description	Existing		After Expansion	
		Sqm	%	Sqm	%
1	Total Ground Coverage Area of Buildings	5,747.79	27.83	13,666.56	28.04
2	Roads and Pavements Area	7,125.21	34.50	15,838.32	32.50
3	Surface Parking Area	1,824.23	8.83	5,345.00	10.97
4	STP, Solid Waste Disposal and Other Utilities Area	787.80	3.81	1,602.84	3.29

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		5	Greenbelt Development Area (excluding OSR)	3,097.50	15.00	7,376.41	15.14
		6	OSR Area	2,067.47	10.00	4,904.73	10.06
		Total Land Area		20,650	100	48.733.86	100

10.	Built up Area Breakup	S. No	Floor	Area, Sqm			Remarks
				Existing	Proposed Expansion	After Expansion	
		BLOCK 1 - HOSPITAL BUILDING					
		1	Lower Basement	0	5,632.59	5,632.59	Parking
		2	Upper Basement	4,885.80	6,351.70	11,237.5	Parking
		3	G + 7 Floors	29,094.30	51,227.80	80,322.05	Hospital
			Terrace Floor	0	377.61	377.61	Lift & Staircase Head rooms
		BLOCK 2 - SERVICE BLOCK					
		4	Lower Basement	-	513.35	513.35	Work Station
		5	Upper Basement	-	506.50	506.50	Medical Records Room
		6	G + 7 Floors	-	4,022.32	4,022.32	Hospital service
		7	Terrace Floor	-	88.59	88.59	Lift & Staircase Head rooms
		BLOCK 3 - MADAPALLI					
		8	Ground Floor	-	32.78	32.78	Madapalli
		OTHERS UTILITIES					
		9	Ground Floor	463.41	293.19	756.60	EB Room, Pump Room

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		Total	34,443.47	69,046.42	1,03,489.89	and other utilities
11.	No of Patient beds	Existing: 401 Nos After Expansion : 900 Nos				
12.	Expected Occupancies	Existing: 1501 Nos After Expansion : 4600 Nos				
13.	a) Water requirement KLD (After expansion)	Agreement with NTADCL – 5 lakhs liter/day Total water requirement of the Hospital: 756 KLD Domestic use (Fresh Water) : 341 KLD Canteen, Laundry, Lab & OT use (Fresh Water) : 45 KLD HVAC use (Treated Water) : 156 KLD Flushing use (Treated Water) : 171 KLD Greenbelt development (Treated Water) : 26 KLD OSR maintenance (Treated Water) : 17 KLD				
14.	Total STP & ETP Capacity	MBBR Technology Existing STP : 210KLD Proposed STP : 450 KLD Proposed ETP : 50KLD				
15.	Details of /Sewage Treatment Plant(Existing STP-210 KLD)	S. No	Unit	Quantity	Dimensions, m	
		1	Bar Screen Chamber	2	0.6 x 0.6 x 0.6	
		2	EqualizationTank	2	3.7 x 4.2 x 4.0 (LD)	
		3	Aeration Tank	2	3.1 x 4.2 x 4.0 (SWD)	
		4	Secondary Settling Tank	2	2.6 x 2.6 x 4.0 (SWD)	
		5	Clarified Water Tank	1	Area 23.07 sqm x 4.0 (SWD)	
		6	Sludge Holding Tank	1	1.15 x 8.63 x 4.0	
		7	UF Feed Tank	1	3.0 x 8.63 x 4.0	
		8	Pressure Sand Filter	1	Dia – 1.2, HOS – 1.5	
		9	Activated Carbon Filter	1	Dia – 1.2, HOS – 1.5	

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		10	UV Steriliser	1	3 Lamps of 75 Watts
		11	Filter Press	8	0.47 x 0.47
		12	Ultra Filtration System	-	1

16. Details of /Sewage Treatment Plant(Proposed STP-450 KLD

S. No	Unit Description	Quantity	Dimension of the units
1	Bar Screen Chamber	1	1.50 m x 2.00 m x 1.00 m
2	Collection Tank	1	m 2 Collection Tank 1 2
3	Anoxic & Aeration Tank	1	14.68 sq.m x 5.70 m
4	Settling Tank	1	4.18 m x 2.00 m x 5.10 m
5	Clarified Water Tank	1	4.50 m x 3.10 m x 5.70 m
6	Sludge Holding Tank	1	1.50 m x 2.00 m x 3.50 m
7	Pressure Sand Filter	1	0.75 m Dia X 2.00 m HOS
8	Activated Carbon Filter	1	0.75 m Dia X 2.00 m HOS
9	Ultra Violet Disinfection System	1	3 Lamps of 60 Watts
10	Treated Water Tank	1	16.32 sq.m. x 5.70 m
11	Filter Press	1	500 mm x 500 mm, 17 Plates
12	Ultra-Filtration System	1	18.75 m3 /hr, 100 m2 Area

17. Details of Effluent Treatment plant(Proposed ETP-50 KLD)

S. No	Unit	Quantity	Dimensions, m
1	Bar Screen Chamber	1	1.50 m x 1.50 m x 1.00 m
2	Oil and Grease Chamber	1	1.50 m x 1.50 m x 1.00 m

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		3	Collection cum Neutralization Tank	1	3.00 m x 1.50 m x 3.80 m
		4	Flocculation Tank	1	0.70 m x 1.50 m x 1.00 m
		5	Settling Tank	1	2.25m x 2.00 m x 2.00 m
		6	UV Disinfection System	1	1 Lamp of 8 Watts
		7	Treated Water Tank	1	4.50m x 1.50m x 2.00m

18.	Quantity of Sewage Generation (KLD)	• Effluent Generation : 45 KLD • Sewage Generation : 465 KLD • Treated sewage : 464 KLD
19.	Disposal of Treated waste water	• Flushing : 171 KLD • Greenbelt & OSR : 43 KLD • HVAC : 156 KLD • Roadside Avenue Plantation & Disposal : 94 KLD

20. Quantity of Solid Waste generated per day , Mode of treatment and Disposal of Solid Waste

S.No	Description	Quantity (Kg/day)	Mode of treatment / disposal
1	Bio degradable	917	Converted into manure using Organic Waste Converter & utilized for Greenbelt development
2	Non-Biodegradable	836	Sent to authorized recyclers
3	Bio – Medical Waste	338	Sent to Bio Medical Waste Management Facility (TeknoTherm Industries)
4	STP Sludge	20 kg/week	Dried and Used as manure for greenbelt development
5	E Waste	3.5 kg/day	Handed over to Authorized Recyclers/collection Centers

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21	Power requirement & Source of Power	TNEB grid Total Power requirement -4700 kVA
22.	Details of D.G. sets with Capacity	Existing : 750 kVA DG set x 2 Nos Additional : 1010 kVA DG Set x 2 Nos
23.	Details of Green Belt Area	Existing: 3,097.50 After Expansion : 7,376.41
24.	Details of Parking Area	

Description	No. of Car parks	No. of Two Wheeler parks	Parking Area Sqm
Parking Provided			
Surface Parking (including 6 parking spaces allocated for the physically challenged)	368	372	5,345
Lower Basement Parking	74	77	5,070
Upper Basement Parking	126	134	8,660
Total number of Parking provided	**568**	**583**	**19,075**
Parking Required as per DTCP norms			
1 Car space and 1 Two-wheeler space for every 150 Sqm (or) part thereof (FSI Area = 80,600)	538	538	7,693.4

		Total number of Parking required	538	538	7,693.4		
25.	Provision for rain water harvesting	Total Run off - 26,208.17cu.m/annum Recharge Pits provided – 16 No's (6 Existing + 10 Additional) Pit Dimensions - 1.2 m Dia x 2.7 m Depth + 0.3m (FB)					
26.	EMP Cost (Rs.)	**Construction Phase** Capital Expenses : Rs .32 Lakhs Operational Expenses : Rs.42 Lakhs **Operation Phase** Capital Cost: Rs. 521 Lakhs Operational Cost : Rs. 59.85 Lakhs					
27.	CER activities with the specific allocation of funds	Rs. 3 Crores					

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

1. The building shall conform to minimum of IGBC Gold green building norms and shall obtain IGBC certificate in this regard before obtaining CTO from TNPCB.
2. The PP shall construct a tank of appropriate size in the earmarked OSR land in consultation with the local body. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
3. Generation of the solar/renewable energy should not be less than 50% of total energy utilization and ensure that the entire roof of the building.

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Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.

4. The proponent shall provide charging facility for e-vehicle and provide car washing arrangements.
5. The PP has proposed surface car parking involving concretising large area of ground. Instead, the PP shall install a Multi-Level Car Parking (MLCP) and the space released shall be utilised for establishing additional green cover upto 20%, hence the PP shall furnish the action plan in this regard.
6. The project proponent shall provide STP of capacity 450 KLD and ETP of capacity 50 KLD and the treated water shall be utilized for flushing, green belt.
7. The treated/untreated sewage water shall not be let-out from the unit premises.
8. The proponent shall provide adequate organic waste disposal facility such as organic waste convertor waste within project site as committed and non-Biodegradable waste to authorized recyclers as committed.
9. The height of the stacks of DG sets shall be provided as per the CPCB norms.
10. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc., to TNPCB before obtaining CTO.
11. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for Toilet flushing, Green belt development & OSR and no treated water be let out of the premise.
12. The sludge generated from the sewage treatment plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.
13. The proponent shall provide the separate wall between the STP & ETP and OSR area as per the layout furnished and committed.
14. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low

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rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.

15. 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. 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.
16. 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
17. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
18. The excess runoff water shall be connected to a nearby water body.
19. The generated Bio medical waste shall be handled as per Bio Medical waste management Rules 2016.
20. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
21. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
22. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Bio-Medical Waste Management Rules, 2016, as

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amended for the generation of Bio-medical waste within the premises.

23. No waste of any type to be disposed off in any other way other than the approved one.
24. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
25. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.
26. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
27. The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
28. Solar energy should be at least 50% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
29. 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.
30. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere the EMP as committed.
31. As accepted by the Project Proponent the CER cost is Rs. 3.0 Crores. As accepted by the PP Rs.1.5 Crores amount shall be spent for 50 Nos (as per list given) welfare of tribals before obtaining CTO from TNPCB.

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Agenda No: 332 - 12
(File No: 9504/2022)
Proposed Rough Stone and Gravel quarry lease over an extent of 0.68.00 Ha located at S.F.No. 280/1B Soolakkarai Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu by Thiru. P. Ramar - for Environmental Clearance. (SIA/TN/MIN/ 402116/ 2022 dated 06.10.2022)

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

The SEAC noted the following:

1. The Project Proponent, Thiru. P. Ramar has applied for Environmental Clearance for the proposed Rough stone and Gravel quarry lease over an extent of 0.68.00 Ha located at S.F.No. 280/1B Soolakkarai Village, Aruppukottai 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.
3. As per the mining plan, the lease period is for 5 years. The mining plan is for the period of 5 years. The total production for 5 years not to exceed 18,250 m^3 Rough stone and 2322 m3 of Gravel. The annual peak production 4,400 m^3 Rough stone (1st year) and 2322 m3 of Gravel (1st year) with ultimate depth of 27 m BGL (existing pit – 17m BGL).

The proposal is for mining of Rough stone and gravel the salient features of the proposal are as follows:

1.	Name of the Owner/Firm	: Thiru. P. Ramar S/o. Perumalsamy, Door No.4/273A, Door No.4/273A, Ettunaickenpatti Village, Virudunagar Taluk and District
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone & Gravel Quarry
3.	S.F No. of the quarry site with area break-up	: 280/1B

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4.	Village in which situated	:	Soolakkarai
5.	Taluk in which situated	:	Aruppukottai
6.	District in which situated	:	Virudhunagar
7.	Extent of quarry (in ha.)	:	0.68.00 Ha
8.	Period of quarrying proposed	:	5 years
9.	Type of mining	:	Opencast Semi-Mechanized Mining Method
10.	Production (Quantity in m^3) as per Mining Plan		29,950 m^3 of Rough stone and 2,322m^3 of Gravel
11.	Revised Actual Production Quantity as accepted by the PP and permitted by the SEAC (Quantity in m^3)		18,250 m^3 of Rough stone and 2,322m^3 of Gravel
12.	Latitude & Longitude of all corners of the quarry site	:	09°13'32.13" N to 09°31'37.19"N 77°56'59.71" E to 77°57'02.38"E
13.	Top Sheet No.	:	58 G/14
14.	Man Power requirement per day:		16 Nos.
15.	Precise area communication approved by the Assistant Director, with date	:	Na.Ka.No. KV1/191/2022-Kanimam, Dated: 27.04.2022
16.	Mining Plan approved by the Assistant Director, Department of Geology and Mining, with date	:	Roc. No. KV1/191/2022, Dated: 22.08.2022
17.	Water requirement: Drinking & domestic purposes Dust suppression Green Belt	:	2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD
18.	Power requirement g. Domestic Purpose a. Industrial Purpose		TNEB 242,347 Litres of HSD for the entire life period
19.	Depth of quarrying	:	27m BGL (Existing Pit - 17m)

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20.	Depth of water table	:	63m - 66m
21.	Project Cost (excluding EMP cost)	:	Rs. 48,08,000
22.	EMP cost	:	Capital Cost - Rs. 11,57,600 Recurring Cost - Rs. 10,39,351.11
23.	CER cost		Rs. 5 lakhs
24.	Assistant Director, mines 500m cluster letter		Roc. No. KV1/191/2022. Dated: 29.08.2022
25.	VAO certificate regarding 300m radius cluster		Letter dated: 25.08.2022

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for quantity of 18,250 m^3 of Rough stone and 2,322m^3 of Gravel and for an annual peak production of 4,400 m^3 of Rough Stone (Ist Year) & 2,322 m^3 of Gravel (Ist Year) up to an ultimate depth of 27m BGL (Existing Pit – 17m BGL), 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 No. S.O. 1807(E) Dt12.4.2022.
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 communicate the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the 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 commencement of the operation as recommended in the DGMS Circular, 11/1959

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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 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 carry out the shallow depth Jack hammer drilling (of 32-34 mm dia & 1.5 m depth) & NONEL initiation based 'controlled' blasting operation involving muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 20 m from the blast site.
7. The PP 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.
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. As a part of fulfilling the Certified Compliance Report, the PP shall carry out the scientific studies on design of controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock in the proposed quarry, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc within one year from 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.
10. 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 having approved by the concerned AD (Geology & Mines) to the DEE/TNPCB before obtaining CTO.
11. 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 before obtaining the CTO from the TNPCB.

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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.
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-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
15. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent to the committed activities for Panchayat Union Primary School, Soolakarai before obtaining CTO from TNPCB.

Agenda No: 332 - 13
(File No: 8460/2022)
Proposed Rough Stone and Gravel quarry lease over an extent of 4.16.23 Ha located at S.F.No. 822(P), 823/A, 823/B & 829/A(P) Nallroad Village, Kangayam Taluk, Tiruppur District, Tamil Nadu by A.D.Elango - for Environmental Clearance.
(SIA/TN/MIN/ 402423/ 2022 dated 29.10.2022)

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

The SEAC noted the following:

1. The Project Proponent, A. D. Elango has applied for Environmental Clearance for the proposed rough stone and Gravel quarry lease over an extent of 4.16.23 Ha located at S.F.No. 822(P), 823/A, 823/B & 829/A(P) Nallroad Village, Kangayam Taluk, Tiruppur District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. ToR issued vide Lr No. SEIAA-TN/F.No.8460/SEAC/ToR-1009/2021 Dated: 28.07.2021.
4. Public Hearing conducted on 20.07.2022.
5. EIA Report submitted on 07.10.2022.

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6. Earlier in the ToR issued, the depth was restricted to 37m and inadvertently mentioned as 1,79,931 m^3 of Rough Stone and 3294 m^3 of Gravel. Hence, as per the approved mining plan submitted by the proponent in online through Parivesh portal, it is ascertained and recalculated volume is provided accordingly that. In the proposed mine lease area there are three sections viz XY – AB, X1Y1 – AB and X1Y1 – CD. In XY-AB there is an existing pit of 47m. Further, since the bench width is < 12m, considering the safety aspect, last bench in section X1Y1 – CD is removed.
7. As per the mining plan, the lease period is for 5 years. The mining plan is for the period of 5 years. Based on the above facts, the total production for 5 years not to exceed 2,84, 265 m^3 Rough stone, 50.367 m^3 of Weathered Gravel and 36,874 m^3. The annual peak production 73,570 m^3 Rough stone (1st year) and 21,222 m3 of Weathered Gravel (1st year) and 15,174 m^3 of Gravel (1st Year) with an ultimate depth of 35 m BGL.
8. It has been noted that the PP had already initiated an account exclusively for maintaining the EMP expenditures as per the MoEF & CC Guidelines.
9. It has been observed that the PP is carrying out remarkable mitigation measures for controlling the fugitive dust in and around the pit adopting green belt development & effective water sprinkling arrangements.

The proposal is for mining of Rough stone and gravel the salient features of the proposal are as follows:

Details of the Proposal			
1.	Name of the Owner/Firm	:	A.D.Elango S/o.Duraisamy No.531/C,Main Road Kunnathur Post Uthukuli Taluk Tiruppur District-638103
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Rough Stone & Gravel Quarry
3.	S.F No. of the quarry site with area break-up	:	822(P), 823/A, 823/B & 829/A (P)
4.	Village in which situated	:	Nallroad
5.	Taluk in which situated	:	Kangayam

6.	District in which situated	:	Tiruppur
7.	Extent of quarry (in ha.)	:	4.16.23Ha
8.	Period of quarrying proposed	:	5 years
9.	Type of mining	:	Opencast Mechanized Mining Method
10.	Production as per the approved Mining Plan (Quantity in m^3)		3,49,105 m^3 of Rough stone, 50,367 m^3 of Weathered Gravel & 36,874 m^3 of Gravel.
11.	Revised Actual Production Quantity as accepted by the PP and permitted by the SEAC (Quantity in m^3)	:	2,84,265 m^3 of Rough stone, 50,367 m^3 of Weathered Gravel & 36,874 m^3 of Gravel.
12.	Latitude & Longitude of all corners of the quarry site	:	11°04'01.75" N to 11°04'08.76"N 77°35'07.14" E to 77°35'18.97"E
13.	Top Sheet No.	:	58 E/12
14.	Man Power requirement per day:		33 Nos.
15.	Precise area communication approved by the Assistant Director, with date	:	913/2020/Mines. Dated: 27.01.2021
16.	Mining Plan approved by the Deputy Director, Department of Geology and Mining, with date	:	913/2020/Mines. Dated: 05.02.2021
17.	Water requirement: 14. Drinking & domestic purposes 15. Dust suppression 16. Green Belt	:	6.0 KLD 1.5 KLD 4.16 KLD 0.3 KLD
18.	Power requirement h. Domestic Purpose i. Industrial Purpose		TNEB 1,27,977 Liters of HSD
19.	Ultimate Depth of quarrying	:	45m (2m Gravel + 3m Weathered formation + 40m Rough Stone) restricted depth
20.	Depth of water table	:	63m in rainy & 67m in summer seasons
21.	Project Cost (excluding EMP cost)	:	Rs. 74.63 Lakhs
22.	EMP cost	:	Capital Cost - Rs. 21,07,083 Recurring Cost – Rs. 19,57,083
23.	CER cost		Rs. 5 lakhs.
24.	DD mines 500m cluster letter		913/2020/Mies. Dated: 05.02.2021

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25.	VAO certificate regarding 300m radius cluster	Letter dated: 06.02.2021
26.	Tor Issued Date	Letter.No SEIAA-TN/F.No.8460/SEAC/ToR-1009/2021, Dated: 28.07.2021
27.	Public hearing Date	20.07.2022
28.	EIA Report submitted date	07.10.2022

Based on the reply furnished by the PP, the proposal was again placed in the 327th SEAC meeting held on 10.11.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 2,84,265 m3 of Rough Stone 50.367 m3 of Weathered Gravel and 36,874 m3 for a period of 5 years but not exceeding an annual peak production of 73,570 m3 Rough stone and 21,222 m3 of Weathered Gravel and 15,174 m3 of Gravel with maintaining an ultimate depth of 45m BGL,** 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 No. S.O. 1807(E) Dt12.4.2022.
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 communicate the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the 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 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.

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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 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 carry out the shallow depth Jack hammer drilling (of 32-34 mm dia & 1.5 m depth) & NONEL initiation based 'controlled' blasting operation involving muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 20 m from the blast site.
7. The PP 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.
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. Within one year of the commencement of mining operations, the PP shall carry out the scientific studies on controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT (ISM)/Dhanbad, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-Dept of Mining Engg, 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.
10. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the mitigation measures for the existing highwall benches of 47 m in the worked out areas and indicating haul road ramp keeping the benches intact for the proposed quarry lease as the depth of the proposed quarry is exceeding 30 m after having approved by the concerned AD (Geology & Mines) to the DEE/TNPCB before obtaining CTO.
11. 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

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completion of 4 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 (ISM)/Dhanbad, 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.

12. 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 before obtaining the CTO from the TNPCB.
13. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
14. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
15. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
16. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent to the committed activities for Panchayat Union Middle School, Paranchervali, Kangayam Taluk, Tiruppur District before obtaining CTO from TNPCB.

Agenda No. 332-14
(File No. 760/2013)
Proposed construction of Residential Development at R.S. No. 1841/3, Block No 31 of Tondiarpet Village, Division 11 & Zone01, 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)

The proposal was placed in this 332nd 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).

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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 11 & 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.

On receipt of the reply, the Committee will deliberate further and decide future course of action.

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Agenda No: 332 - 15

(File No: 9497/2022)

Proposed Construction of High-rise residential building comprises of Block A & B with combined basement floor , Combined Stilt floor & 1st floor to 16th floor and 17th floor part residential building and clubhouse – 1st floor part to 3rd floor part & the total no. of dwelling units is 128 Nos in T.S.No 2/67 and 3/108 (as per TSLR Extract) as per sale deed (T.S.No 2/1 (part) & 3/1 (part) and Old S.Nos 235/2 (part) 235/3 (part) 236/1 of Gurusamy Street, Padi Village, Ambattur Taluk, Tiruvallur District, Tamil Nadu by M/s Emerald Haven Development Ltd - For Environmental Clearance (SIA/TN/MIS/402460/2020, dated 10.10.2022)

The proposal was placed in 332nd SEAC meeting held on 25.11.2022. 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, M/s Emerald Haven Development Ltd has applied for Environmental Clearance for the Proposed Construction of High-rise residential building comprises of Block A & B with combined basement floor , Combined Stilt floor & 1st floor to 16th floor and 17th floor part residential building and clubhouse – 1st floor part to 3rd floor part & the total no. of dwelling units is 128 Nos in T.S.No 2/67 and 3/108 (as per TSLR Extract) as per sale deed (T.S.No 2/1 (part) & 3/1 (part) and Old S.Nos 235/2 (part) 235/3 (part) 236/1 of Gurusamy Street, Padi Village, Ambattur Taluk, Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under Category "B" of item 8(a) "Building & Construction" of the Schedule to the EIA Notification, 2006.
3. Total land area is 8,522.680 Sqm. The total built-up area of the proposed residential building is 32163.46 Sqm.

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S. No.	[redacted]	[redacted]
1.	Name of the Project	proposed construction of High rise building for Residential Purpose
2.	Location	T.S.No 2/67 and 3/108 (as per TSLR Extract) [as per sale deed (T.S.No 2/1 (part) & 3/1 (part) and Old S.Nos 235/2, (part) 235/3 (part), 236/1 part)] in Ward-I, Block No 68, Gurusamy Street, Padi Village, Ambattur Taluk, Chennai District
3.	Type of Project	Building and Construction Projects Schedule 8 (a)
4.	Latitude & Longitude	13°4'50.69"N 80°11'29.80"E 13°4'49.74"N 80°11'32.16"E 13°4'48.70"N 80°11'28.84"E 13°4'48.34"N 80°11'27.64"E 13°4'47.09"N 80°11'31.14"E
5.	Total Area (in sq. m)	a) Total land area – 8,522.680 Sq.m b) Total Ground Coverage area of Buildings– 1,719.740 Sq.m c) Roads and Pavements area – 3,581.349 Sq.m d) Green Belt Area – 1,288.549 Sq.m e) Surface or Open Parking area – 248.400 Sq.m f) STP, GWTP, Solid Waste Disposal and Other Utilities Area – 89.170 Sq.m g) OSR area – 853.000 Sq.m h) Swimming pool & amenities – 742.472 Sq.m
6.	Built up area	32,163.46 sq.m
7.	Cost of Project	Rs. 133.7 Crores

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8. Brief description of the project

Name of the Block / Building	Total Built up area (Sqm)	Deductions (OTS, void, shaft) (Sqm)	Parking (Sqm)	Space excluded from FSI (Sqm)	FSI Area (Sqm)
Combined Basement Floor	5353.57	22.30	5133.43	62.69	135.15
Combined Stilt Floor	2209.44	16.90	1748.09	117.13	327.32
Total	**7563.01**	**39.2**	**6881.52**	**179.82**	**462.47**

Built Up Area Statement – Block A

Name of the Block / Building	Total Built up area (Sqm)	Deductions (OTS, void, shaft) (Sqm)	FSI Area (Sqm)
1st Floor	733.39	58.46	674.93
2nd Floor	727.76	29.6	698.16
3rd Floor	727.76	29.6	698.16
4th Floor	727.76	28.17	699.59
5th Floor	727.76	28.17	699.59
6th Floor	727.76	28.17	699.59
7th Floor	727.76	28.17	699.59
8th Floor	727.76	28.17	699.59
9th Floor	727.76	28.17	699.59
10th Floor	727.76	28.17	699.59
11th Floor	727.76	28.17	699.59
12th Floor	727.76	28.17	699.59
13th Floor	727.76	28.17	699.59
14th Floor	727.76	28.17	699.59
15th Floor	727.76	28.17	699.59
16th Floor	727.76	28.17	699.59
17th Floor	222	49.94	172.06

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Total	11871.79	533.81	11342.26

Built Up Area Statement – Block B

Name of the Block / Building	Total Built up area (Sqm)	Deductions (OTS, void, shaft) (Sqm)	FSI Area (Sqm)
1st Floor	717.47	57.19	660.28
2nd Floor	711.92	28.95	682.97
3rd Floor	711.92	28.95	682.97
4th Floor	711.92	27.56	684.36
5th Floor	711.92	27.56	684.36
6th Floor	711.92	27.56	684.36
7th Floor	711.92	27.56	684.36
8th Floor	711.92	27.56	684.36
9th Floor	711.92	27.56	684.36
10th Floor	711.92	27.56	684.36
11th Floor	711.92	27.56	684.36
12th Floor	711.92	27.56	684.36
13th Floor	711.92	27.56	684.36
14th Floor	711.92	27.56	684.36
15th Floor	711.92	27.56	684.36
16th Floor	711.92	27.56	684.36
17th Floor	217.19	48.82	168.37
Total	11613.5	522.19	11095.5

Built-Up Area Statement – Clubhouse

Name of the Block / Building	Total Built up area (Sqm)	Deductions (OTS, void, shaft) (Sqm)	Space excluded from FSI (Sqm)	FSI Area (Sqm)
1st Floor	291.88	0	0	291.88
2nd Floor	291.88	0	0	291.88
3rd Floor	291.88	0	0	291.88
Total	875.64	0	0	875.64
Swimming pool	196.3	-	196.3	-
Change room	43.1	-	43.1	-

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Summary of the Built-Up Area Statement

Name of the Block / Building	Total Built up area (Sqm)	Deductions (OTS, void, shaft) (Sqm)	Parking (Sqm)	Space excluded from FSI (Sqm)	FSI Area (Sqm)
Combined Basement Floor	5353.57	22.30	5133.43	62.69	135.15
Combined Stilt Floor	2209.44	16.90	1748.09	117.13	327.32
Total	**7563.01**	**39.2**	**6881.52**	**179.82**	**462.47**
Block A					
Total	**11871.79**	**533.81**	**0**	**0**	**11342.26**
Block B					
Total	**11613.5**	**522.19**	**0**	**0**	**11095.5**
ClubHouse					
Total	**875.64**	**0**	**0**	**0**	**875.64**
Swimming pool	196.3	-	-	196.3	-
Change room	43.1	-	-	43.1	-
Total	**32163.46**	**1095.03**	**6881.52**	**419.22**	**23775.82**

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<table>
<tr><td>9.</td><td>a) Water requirement KLD</td><td>Total water requirement – 119 KLD
Fresh water requirement – 75 KLD
i. Swimming Pool – 2 KLD
ii. Domestic water requirement – 73 KLD
Flushing water requirement – 44 KLD</td></tr>
<tr><td></td><td>b) Source</td><td>CMWSSB</td></tr>
<tr><td>10.</td><td>Quantity of Sewage KLD</td><td>During Operation Phase
Sewage Generation – 103 KLD</td></tr>
<tr><td>11.</td><td>Details of /Sewage Treatment Plant</td><td>Sewage Treatment Plant – 110 KLD capacity
• Bar Screen Chamber
• Collection tank
• Aeration Tank
• Sludge Holding Tank
• Pressure Sand Filter
• Activated Carbon Filter
• Clarified water Tank
• Settling Tank
• Treated Water Tank
• UV Treated water Tank
• UV Disinfection system
• Dewatering system – filter press with screw pumps</td></tr>
<tr><td>12.</td><td>Mode of Disposal of treated sewage with quantity</td><td>Total Treated waste water – 98 KLD
i. CMWSSB – 54 KLD
ii. Toilet Flushing – 37 KLD
iii. Greenbelt Development & OSR – 7 KLD</td></tr>
<tr><td>13.</td><td>Quantity of Solid Waste generated per day, Mode of treatment and Disposal of Solid Waste</td><td>
<table>
<tr><th>S.No</th><th>Description</th><th>Quantity (kg/day)</th><th>Methods of Treatment / Disposal</th></tr>
<tr><td>1</td><td>Biodegradable Waste (40%)</td><td>200</td><td>The Biodegradable waste will be processed in the proposed Eco converter to be installed in the site.</td></tr>
<tr><td>2</td><td>Non-Biodegradable Waste (60%)</td><td>299</td><td>Waste will be sold to recyclers</td></tr>
<tr><td>3</td><td>STP Sludge</td><td>20</td><td>Will be mixed with compost from Organic waste converter and will</td></tr>
</table>
</td></tr>
</table>

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						be used as Manure for Greenbelt development In site.

14	Power requirement	1349 KVA . Source of power – TNEB Grid Solar Proposal

Building	Load seved
50% of roof area will be allocated for solar panel.	601 KVA

15.	Details of D.G. set with Capacity	2 Nos. of 500 KVA & 1 No of 320 KVA • Acoustic enclosures proposed for DG sets to comply with the noise level standards prescribed by CPCB. • Stack height of 59 m for all the DG is proposed as per CPCB specifications.

Solar Proposal

S. No	Description	Roof area in Sqm	Area per KW (Sqm) TEDA	Solar power in kW	Amount per Kw Rs	Total Amount Rs
1	50 % of Roof area	554.49	12	46	65.000	26,00.000
Total Load in kW				46	Rs . 26,00.000	

16.	Details of Green Belt Area	1,288.549 Sq.m
17.	Details of Parking Area	Total Parking area – 6,563.95 Sq.m

Details	No. of Car Parkings	No. of two-wheeler Parkings	Area allotted for parking in (Sqm)
Total amount of Parking's in Basement	182	-	4939.10
Total amount of Parking's in Stilt	66	78	1376.85

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		Total number of car parks in Ground level (Surface parking)	23	.	248
		Total number of Parking required as per CMDA norms	216	.	.
		Total number of Parking's provided	**271**	**78**	**6563.95**
		EV Charging: As per CMDA parking qty – 216 Nos EV charging provisions for 30% - 65 Nos. EV charging provisions provided – 70 Nos.			
18.	Provision for rain water harvesting	Total runoff – 5,363 m³			
		Considering 50 rainy days per Annum, per day rainwater runoff will be	107 cum		
		Rainwater collection sump capacity- 36 KLD (100% of the roof top, collection per day is 35 KLD)	35 cum		
		Remaining rainwater will be recharged into recharge pit. Recharge pit: 8 Nos with Dia 2 m, depth 3m.	72 cum		
		100 % of rainwater managed inside by storage and recharge within the site			
		During Excess rain and Flood, the rainwater from site will be connected to External storm water drain			
		The water from paved and green surfaces will be directed to the recharge wells (Proposed – 8 Nos. of 2m Dia, 3 m Depth with a total capacity of 72 Cum).			
19.	EMP Cost (Rs.)	**During Construction Phase** Capital Expenses – Rs. 11 Lakhs Operational Expenses – Rs. 16 Lakhs **During Operation Phase** Capital Cost – Rs. 109.95 Lakhs Recurring Cost – Rs. 34.76 Lakhs			
20.	CER activities with the	The CER amount of Rs 110 Lakhs.			

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	specific allocation of funds	

Based on the presentation and document furnished by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the following specific conditions in addition to normal conditions stipulated by MOEF&.CC.

1. The project proponent shall obtain IGBC Platinum rating for the construction project.
2. The proponent shall provide Bio Methanation plant within project site for bio-degradable waste and shall dispose the non- Biodegradable waste to authorized recyclers as committed.
3. PP shall ensure that minimum 50% of capacity of DG sets which are proposed to be set up are run on green energy sources instead of Diesel.
4. The height of the stacks of DG sets shall be provided as per the CPCB norms.
5. The project proponent shall submit structural stability certificate from reputed institutions like IIT, Anna University etc. to TNPCB before obtaining CTO.
6. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for Toilet flushing, Green belt development, OSR, and no treated water shall be let out of the premise.
7. The sludge generated from the Sewage Treatment Plant shall be collected and de-watered using filter press and the same shall be utilized as manure for green belt development after composting.
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. 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.
9. Tall/one year old Saplings raised in appropriate size of bags, preferably eco-

friendly bags should be planted with proper spacing as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.

10. The unit shall ensure the compliance of land use classification fit for construction.
11. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the pubic usage and as committed.
12. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
13. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
14. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
15. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
16. No waste of any type to be disposed of in any other way other than the approved one.
17. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.

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18. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines.
19. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
20. The project proponent shall measure the criteria air pollutants data (including CO) due to traffic again before getting consent to operate from TNPCB and submit a copy of the same to SEIAA.
21. Solar energy should be at least 25% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
22. 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.
23. As accepted by the Project Proponent the CER cost is Rs.110 lakhs and the amount shall be spent for the activities as committed by the proponent which shall include
    A. Rs. 50 Lakhs – As committed.
    B. Rs. 50 Lakhs – Govt schools and Adi-Ddravidar Welfare school Agaram.
    C. Rs. 10 Lakhs – For raising nursery and distributing saplings to public free of cost.

Agenda No: 332-16
File No: 9198/2022)
Proposed Rough stone & Gravel quarry lease over an extent of 4.26.5 Ha in S.F.No 14/2B(P), 17/2, 3 & 4, Melakalangal Village, Veerakeralampudur Taluk, Thenkasi District, Tamil Nadu by Thiru. M. Senthur Pandian - For Environmental Clearance. (SIA/TN/MIN/269398/2022 Dt.25.04.2022)

Earlier, this proposal was placed for appraisal in this 293rd meeting of SEAC held on 8.7.2022. 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, Thiru. M. Senthur Pandian has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent

of 4.26.5 Ha in S.F.No 14/2B(P), 17/2, 3 & 4, Melakalangal Village, Veerakeralampudur Taluk, Thenkasi District, Tamil Nadu.

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

3. As per the mining plan, the lease period is for 5 years. The mining plan is for the period of Five years. The total production for 5 years not to exceed 899529m³ of Rough stone & 189348 m³ Gravel. The annual peak production as per mining plan is 184140m³ of Rough stone (5th year) & 68400 m³ Gravel (1st year) with ultimate depth of 60m.

1	Name of the Owner/Firm	:	Thiru. M. Senthur Pandian, S/o. Muthusamy Pandian, 7-2-4, Aranmanai Street, Surandai, Veerakeralamputhur Taluk, Tenkasi - 627859.
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	:	14/2B(P), 17/2, 3 & 4
4	Village in which situated	:	Melakalangal
5	Taluk in which situated	:	Veerakeralampudur
6	District in which situated	:	Tenkasi
7	Extent of quarry (in ha.)	:	4.26.5 Ha
8	Period of quarrying proposed	:	5 years
9	Type of mining		Opencast Semi Mechanized Mining
	Production (Quantity in m³) as per Mining Plan		8,99,529m³ of Rough Stone & 1,89,348m³ of Gravel
10	Revised Actual Production Quantity as accepted by the PP and permitted by the SEAC (Quantity in m³)	:	8,34,159m³ of Rough Stone & 1,89,348m³ of Gravel
	Ultimate pit depth as given in Mining Plan		60 m BGL (Existing depth: 2 m / 3 m)
	Ultimate Pit depth as permitted by the SEAC		50 m Below Ground Level

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11	Latitude & Longitude of all corners of the quarry site	:	09°02'13.23"N to 09°02'20.73"N 77°29'41.08"E to 77°29'52.03"E
12	Topo Sheet No.	:	58-G/8
13	Man Power requirement per day:		12 Nos
14	Precise area communication approved by Assistant Director, Department of Geology and Mining with date	:	Rc.No.M1/36644/2014, Dated:13.12.2021
15	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	:	Rc.No.M1/36644/2014, Dated:21.02.2022
16	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression (in KLD) 3. Green Belt (in KLD)	:	2.0 KLD 0.3 KLD 0.4 KLD 1.3 KLD
17	Power requirement j. Domestic Purpose k. Industrial Purpose	:	TNEB 4,63,790.8 Litres of HSD
18	Depth of quarrying	:	60m bgl
19	Depth of water table	:	75m in Rainy season and 80m in Summer
20	Whether any habitation within 300m distance	:	No
21	Project Cost (excluding EMP cost)	:	Rs. 4,22,17,020/-
22	EMP cost	:	Rs. 3,80,000/-
23	CER cost	:	Rs. 8,51,940/-
24	Assistant Director, mines 500m cluster letter	:	Rc.No.M1/36644/2014, Dated:26.02.2022
25	VAO certificate regarding 300m radius cluster	:	Letter dated: 16.03.2022

Based on the presentation made by the proponent, the SEAC called for the following details from the PP.

1. The PP shall furnish the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
2. The ROA of well water located in the vicinity of the project site

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3. The PP shall furnish a letter obtained from AD/DD Mine & Geology with respect to exact depth of existing Pit, period of the operation and stoppage of the earlier mines & quantity of minerals mined out.

On the receipt of the same it is again been placed in 332nd SEAC meeting held on 25.11.2022. During the meeting the PP has made the representation along the above said details.

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the total excavation quantity of 8,34,159m³ of Rough Stone & 189384m³ of Gravel for a period of 5 years and not exceeding the Annual peak production of 184140m³ of Rough Stone & 68193m³ of Gravel restricting the ultimate depth to 50m below ground level, 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 commencement of the operation as recommended in the DGMS Circular, 1)4959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.

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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 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 use the material available in the section CC' – DD' exclusively for constructing an accessible ramp to the proposed quarry pit.
7. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
8. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry without a prior permission obtained from the Director of Mines Safety, Chennai Region.
10. Since few habitations are situated at a distance range of 500 m to 700 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 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.

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11. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
12. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
13. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the existing benches properly aligned for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
14. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 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.

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18. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
19. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
20. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
21. As accepted by the Project proponent the CER cost is Rs. 5.20 lakhs and the amount shall be spent for the Government Higher Secondary School, Eraiyur Village, Villupuram District as committed, before obtaining CTO from TNPCB.

Agenda No: 332 -17
(File No: 9448/2022)
Proposed Rough Stone and Gravel quarry lease over an extent of 2.20.0 Ha located at S.F.No. 89/1B (P) & 90/8 (P) Ponnamangalam Village, Thirumangalam Taluk, Madurai District, Tamil Nadu by Thiru. I. Vetrivel - for Environmental Clearance.
(SIA/TN/MIN/ 288754/ 2022 dated 22.08.2022)
The proposal was placed in this 332nd Meeting of SEAC held on 25.11.2022. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. I. Vetrivel has applied for Environmental Clearance for the proposed Rough stone and Gravel quarry lease over an extent of 2.20.0 Hs located at S.F.No. 89/1B (P) & 90/8 (P) Ponnamangalam Village, Thirumangalam Taluk, Madurai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 10 years. The mining plan is for the period of 10 years. The total production for first five years not to exceed 119,750 m³ Rough stone and 33,696 m3 of Gravel.

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4. The total production for second five years not to exceed 1,17,775 m³ Rough stone. Hence, the total mineable reserves have been approved as per the Mining Plan is 2,37,525 m3 of Rough stone and 33,696 m3 of Gravel below ground level for a period of ten years.

The proposal is for mining of Rough stone and gravel the salient features of the proposal are as follows:

Sl. No.				
1.	Name of the Owner/Firm	:	Thiru.I.Vetrivel, S/o.Irulandithevar, No.7/2, Thiruvalluvar Nagar, Usilampatti, Madurai District- 625532	
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Rough Stone & Gravel Quarry	
3.	S.F No. of the quarry site with area break-up	:	89/18 (P) & 90/8(P)	
4.	Village in which situated	:	Ponnamangalam	
5.	Taluk in which situated	:	Thirumangalam	
6.	District in which situated	:	Madurai	
7.	Extent of quarry (in ha.)	:	2.20.0 Ha	
8.	Period of quarrying proposed	:	5 years	
9.	Type of mining	:	Opencast Mechanized Mining Method	
10.	Total Production (Quantity in m³)	:	2,37, 525 m³ of Rough stone, 33,696 m³ of Gravel	
11.	Revised Actual Production Quantity as accepted by the PP and permitted by the SEAC (Quantity in m³)		I Year	1,16,400 m³ Rough stone, 33,696 m³ Grave
			II Year	1,09,610 m³ Rough stone
12.	Total Excavation Quantity (in m³)		As per Approved Mining Plan	2,37,525 m³ of Rough stone and 33,696 m³ of Gravel below ground level

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			Revised Quantity	2,26,010 m³ of Rough stone and 33,696 m³ of Gravel below ground level
13.	Latitude & Longitude of all corners of the quarry site	:	09°53'20.38" N to 09°53'23.75"N 77°57'18.09" E to 77°57'27.66"E	
14.	Top Sheet No.	:	58 G/13	
15.	Man Power requirement per day:		18 Nos.	
16.	Precise area communication approved by the Assistant Director, with date	:	Na.Ka.No.797/Kanimam/2021, Dated; 06.05.2022	
17.	Mining Plan approved by the Deputy Director, Department of Geology and Mining, with date	:	Roc. No. 797/Mines/2021, Dated: 06.06.2022	
18.	Water requirement: 17. Drinking & domestic purposes 18. Dust suppression 19. Green Belt	:	2.5 KLD 1.0 KLD 1.0 KLD 0.5 KLD	
19.	Power requirement I. Domestic Purpose m. Industrial Purpose		TNEB No electricity is needed for mining operation	
20	Ultimate Depth of quarrying	:	37m BGL	
21.	Depth of water table	:	68m in rainy & 73m in summer seasons	
22.	Project Cost (excluding EMP cost)	:	Rs. 43,72,000	
23.	EMP cost	:	Capital Cost - Rs. 17,67,050 Recurring Cost – Rs. 14,16,250	
24.	CER cost		5 lakhs As per SEAC Minutes	
25.	DD mines 500m cluster letter		Roc. No. 797/Mines/2021, Dated: 06.06.2022	
26.	VAO certificate regarding 300m radius cluster		Letter dated: 26.05.2022	

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 production quantity of** 2,37,525 m³ of Rough stone and 33,696 m³ of Gravel with

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not exceeding the annual peak production of 27,805 m³ Rough stone and 21,086 m3 of Gravel with maintaining the ultimate depth to 37 m BGL, 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 induding 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.
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 communicate the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the 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 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 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 carry out the shallow depth Jack hammer drilling (of 32-34 mm dia & 1.5 m depth) & NONEL initiation based 'controlled' blasting operation involving muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 20 m from the blast site.
7. The PP 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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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. Within one year of the commencement of mining operations, the PP shall carry out the scientific studies on controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (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.
10. 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.
11. 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 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.
12. 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.
13. 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 before obtaining the CTO from the TNPCB.
14. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted

for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.

15. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.

16. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.

17. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent to the committed activities for Government Kallar Primary School, Sorikkampatti Village before obtaining CTO from TNPCB.

Agenda No: 332 - 18
(File No: 9139/2022)

Proposed Rough stone & Gravel quarry lease over an extent of 4.95.0 Ha in S.F. No 708/3A (Part) and 709 (Part), North Ariyanayagipuram Part – II Village, Cheranmahadevi Taluk, Tirunelveli District, Tamil Nadu by Thiru. T. Satheesan- For Environmental Clearance. (SIA/TN/MIN/263649/2022 Dt. 25.03.2022)

The proposal was placed for appraisal in this 289th meeting of SEAC held on 24.06.2022. 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, Thiru. T.Satheesan has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 4.95.0 Ha in S.F.No 708/3A (Part) and 709 (Part), North Ariyanayagipuram Part – II Village, Cheranmahadevi Taluk, Tirunelveli District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. The mining plan is for the period of 5 years. The total production for 5 years not to exceed 1101720 m³ Rough stone and 84376 m3 of Gravel. The annual peak production 234960 m³ Rough stone (3rd year) and 38208 m3 of Gravel (1st year) with

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ultimate depth of 42 m BGL

4. Earlier the proposal was placed in 289th SEAC meeting held on 24.06.2022. Based on the presentation made by the proponent SEAC recommended for grant of Environmental Clearance for the proposed quarry to produce 1101720 m^3 Rough stone and 84376 m3 of Gravel with an Annual peak production of 234960 m^3 Rough stone and 38208 m3 of Gravel by maintaining the ultimate depth of 42 m.

5. Subsequently, the proposal was placed in 534th Authority meeting held on 18.07.2022. The Authority noted that there is a nearby water drain and drainage paths running adjacent to the site. Further, there are agricultural lands adjacent to the site. Hence in this regard the PP shall submit the following necessary reports as follows,

    1. Detailed study shall be carried out in regard to assess the impact of mining around the proposed mine lease area from reputed Research and Academic Institution such as NIRM, IITs, NITs, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc on the following
        a. Soil health & bio-diversity.
        b. Climate change leading to Droughts, Floods etc.
        c. Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
        d. Possibilities of water contamination and impact on aquatic ecosystem health.
        e. Agriculture, Forestry & Traditional practices.
        f. Hydrothermal/Geothermal effect due to destruction in the Environment.
        g. Bio-geochemical processes and its foot prints including environmental stress.
        h. Sediment geochemistry in the surface streams.
    2. 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) so as to assess the impacts on the nearby water bodies 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, covering the project life (or) subject to a maximum of thirty years, whichever is earlier.

3. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities.
4. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.
5. Detailed Mine Closure Plan covering the project life.
6. Detailed Environment Management Plan includes adaptation, mitigation & remedial strategies covering the project life.

The proposal is for mining of Rough stone and gravel the salient features of the proposal are as follows:

1.	Name of the Owner/Firm	:	T.Satheesan S/o. Thomson No. 12/115, Paruthivilai, Vellamcode, Chithara Kanniyakumari - – 629 151.
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	:	708/3A (Part) and 709 (Part)
4.	Village in which situated	:	North Ariyanayagipuram Part - II Village
5.	Taluk in which situated	:	Cheranmahadevi
6.	District in which situated	:	Tirunelveli
7.	Extent of quarry (in ha.)	:	4.95.0Ha (patta land)
8.	Period of quarrying proposed	:	5 years

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9.	Type of mining		Opencast semi Mechanized mining
10.	Production (Quantity in m^3)	:	11,01,720m3 of Rough stone & 84,376m3 of Gravel
11.	Depth of quarrying	:	42m (2m Gravel + 40m Rough Stone)
12.	Latitude & Longitude of all corners of the quarry site	:	08°45'09.03"N to08°45'19.05"N 77°33'24.03"E to 77°33'32.51"E
13.	Top Sheet No.	:	58-H/09
14.	Man Power requirement		48 Nos.
15.	Precise area District Collector with date	:	Rc.No. M2/30092/2020, Dated: 15.02.2022
16.	Mining Plan approved by Assistant Director, Department of G&M Mines with date	:	Rc.No. M2/30092/2020, Dated: 07.03.2022
17.	Assistant Director (i/c) . Department of G&M Mines with date 500m duster letter		Rc.No. M2/30092/2020, Dated: 07.03.2022
18.	Water requirement: 20. Drinking & Domestic Purpose 21. Dust suppression 22. Green Belt (in KLD)	:	2.8 KLD 1.0 KLD 1.0 KLD 0.8 KLD
19.	Power requirement n. Domestic Purpose o. Industrial Purpose	:	8,95,436 Liters of HSD for the entrie period of life
20.	Depth of water table	:	62m – 58m
21.	Project Cost	:	Rs. 1,43,58,000
22.	EMP cost	:	Rs. 3,80,000
	CER cost (2.0%)	:	Rs. 2,95,000
	Total Project Cost	:	Rs. 1,50,33,000
	VAO certificate regarding habitation within 300m radius	:	Letter Dated:03.03.2022

PP has furnished replies to all the points raised by SEIAA and the same was placed in the 332nd SEAC meeting held on 25.11.2022. SEAC carefully examined the replies and decided to reiterate its recommendation already made in the 289th SEAC meeting held on 24.06.2022. All the conditions recommended will also remain unchanged.

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Agenda No: 332-19
(File No: 9168/2022)
Proposed Rough Stone and gravel quarry Lease over an extent of 4.95.46 Ha at S.F.No. 152/1(P), 152/2A, 152/2B, 152/2C, 152/2D, 152/2E, 152/2F, 152/2G(P), 152/2H(P), 152/2I, 152/2J, 152/2K, 152/2L, 152/2M, 152/2N, 152/2O, 152/2P, 152/2Q, 152/2R (P), 152/2S(P), 152/3A(P), 152/3B(P) & 152/3C(P) in Udhayathur Village, Radhapuram Taluk, Tirunelveli District, Tamilnadu by Thiru.M.Vinukumar – For Environmental Clearance. (SIA/TN/MIN/291247/2022 dated 01.09.2022)

The proposal was placed in 332nd meeting of SEAC held on 26.11.2022. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **Thiru.M.Vinukumar** has applied for Environmental Clearance for the proposed Rough Stone and gravel quarry Lease over an extent of 4.95.46 Ha at S.F.No. 152/1(P), 152/2A, 152/2B, 152/2C, 152/2D, 152/2E, 152/2F, 152/2G(P), 152/2H(P), 152/2I, 152/2J, 152/2K, 152/2L, 152/2M, 152/2N, 152/2O, 152/2P, 152/2Q, 152/2R (P), 152/2S(P), 152/3A(P), 152/3B(P) & 152/3C(P) in Udhayathur Village, Radhapuram Taluk, Tirunelveli District, Tamilnadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the project are as follows:

1	Name of the Owner/Firm	Thiru.M.Vinukumar S/o. Mani, No.5/6-164, Panankalavilai, Malavilai, Ayacode Kanniyakumari District–629161
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone & Gravel
3	S.F No. Of the quarry site	152/1(P), 152/2A, 152/2B, 152/2C, 152/2D, 152/2E, 152/2F, 152/2G(P), 152/2H(P), 152/2I, 152/2J, 152/2K, 152/2L, 152/2M, 152/2N, 152/2O, 152/2P, 152/2Q, 152/2R (P), 152/2S(P), 152/3A(P), 152/3B(P) & 152/3C(P)

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4	Village in which situated	Udhayathur
5	Taluk in which situated	Radhapuram
6	District in which situated	Tirunelveli
7	Extent of quarry (in ha.)	4.95.46Ha
8	Latitude & Longitude of all corners of the quarry site	08°16'50.16"N to 08°16'59.15"N 77°45'38.45"E to 77°45'46.39"E
9	Topo Sheet No.	58 – H/15
10	Type of mining	Opencast Mechanized of Mining
11	Period of quarrying proposed	5 years
12	Production (Quantity in m^3)	10,44,120m^3 of Rough Stone, 79,236m^3 of Weathered rock & 84,096m^3 of Gravel
13	Depth of quarrying	44m BGL
14	Depth of water table	65m-60m BGL
15	Man Power requirement per day:	89 Nos.
16	Water requirement: 23. Drinking & domestic purposes 24. Dust suppression 25. Green Belt	2.8 KLD 1.0 KLD 1.0 KLD 0.8 KLD
17	Power requirement	8,62,526 Liters of HSD
18	Precise area communication approved by the Assistant Director, Department of Geology and Mining with date	Rc.No.M2/36810/2020, dt: 24.01.2022
19	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	Roc.No.M2/36810/2020, dt: 07.03.2022
20	Letter from Sub-Collector on the distance between proposed quarry lease and existing seasonal tank (water body)	Letter dated. 25.11.2022 indicates the distance of 200 m from the quarry lease to the water tank.
21	500m cluster letter issued by Assistant Director, Department of Geology and Mining	Roc.No.M2/36810/2020, dt: 07.03.2022
22	VAO certificate regarding habitations in 300m radius	Letter dt: 09.03.2022.
23	Project Cost (excluding EMP cost)	Rs.124.17 Lakh

24	EMP cost	Capital Cost - Rs.41.70742 Lakhs Recurring Cost – Rs.41.88350 Lakhs

4. As per the mining plan, the lease period is for 5 years. The mining plan is for the period of Five years. The total production for 5 years not to exceed **10,44,120m³ of Rough Stone, 79,236m³ of Weathered rock & 84,096m³ of Gravel with an ultimate depth of 44m below ground level.**

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 total excavation quantity of **10,44,120m³ of Rough Stone, 79,236m³ of Weathered rock & 84,096m³ of Gravel** but not exceeding annual production capacity of **2,25,990 m³ of Rough Stone, 33,108 m³ of Weathered rock & 36,480 m³ of Gravel with maintaining an ultimate depth of 44m below ground level**, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

1. **The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.**
2. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
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 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 before obtaining the CTO from TNPCB.

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5. Further, the PP shall construct the garland drain with proper size, gradient and length around the proposed quarry along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m before obtaining the CTO, as it is designed to take care of run-off water to the surface siltation points of sufficient size are maintained for the collection of silt.
6. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
7. Due to duster situation, 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.
8. As a windmill structure exists at a distance of 280 m from the proposed quarry site, **no 'Deep-hole large diameter drilling and blasting'** shall be carried out without obtaining prior permission from the Director of Mines Safety, Chennai Region after the commencement of mining operations under the provisions of Reg. 106 (2) (b) of MMR 1961.
9. However, the PP shall carry out the scientific studies on controlled blasting within one year of the commencement of mining operations, for reducing the impact of blast-induced ground/air vibrations and fly rock, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT (ISM)/Dhanbad, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-Dept of Mining Engg. 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.
10. 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.
11. 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 4 years of operation whichever is earlier, by involving a reputed

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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.

12. 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.
13. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
14. The PP shall ensure that the blasting operations are carried out by only the statutory persons like Blaster/Mine Mate/Mine Foreman directly employed by him as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
15. The PP shall 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 towards the Government Higher Secondary School, Athukurichi, Radhapuram Taluk, Tirunelveli District for the activities as committed, before obtaining CTO from TNPCB.

(File No: 8556/2021)

Proposed Expansion of Residential Apartment at R.S.No. 273/48(p), & 274/49(p) Block-No. 17, Purasaiwakkam Village, Purasaiwakkam- Perambur Taluk, Chennai District, Tamil Nadu by M/s. Sanklecha Infra projects Private Limited- For Terms of Reference under violation category (SIA/TN/MIS/63114/2021, Dated 05.05.2021)

The proposal was placed in this 332nd SEAC Meeting held on 25.11.2022. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, M/s. Sanklecha Infra projects Private Limited has applied for Terms of Reference under violation category for the Proposed Expansion of Residential Apartment at SF.No. 273/48(p), & 274/49(p) Block- No. 17, Purasaiwakkam Village, Purasaiwakkam- Perambur Taluk, Chennai District, Tamil Nadu.
2. The project/activity is covered under Category "B" of item 8(a) "Building & Construction Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC issued vide SEIAA, Lr.No.SEIAA-TN/F.No.6393/EC/8(a)/529/2017 dated: 21.07.2017 for the construction of Residential apartment comprising of Block R (S+7), Block S (S+7), Block T (S+8) and a club house with 452 dwelling units having total built up area of 25,569.46 Sqm.
4. Further, the PP have applied for EC Expansion under normal category vide application No. SIA/TN/MIN/124152/2019 dated 20.11.2019. The file has not been scrutinized under normal category as the construction has already been completed and hence, the PP requested SEIAA for the withdrawal of EC application under normal category and SEIAA has accepted the request for withdrawal of application and application has been withdrawn vide online acceptance letter dated 27th March 2021.
5. The PP has completed the project without obtaining EC and has also not applied during the window period, this has to be treated as violation case under SoP notified by the MoEF & CC, outside the window period. Hence, the proposal comes under violation category.

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6. In order to obtain EC for the revised proposal, the PP had applied for ToR to carry out the EIA study under violation vide Proposal No. SIA/TN/MIN/63114/2021, dated: 05.05.2021.
7. **The Auto TOR has been granted for TOR Application dated 04.03.2022.**
8. Earlier, this proposal was placed in the 275th SEAC Meeting held on 20.5.2022. During the meeting the project proponent informed that they would withdraw this proposal. SEAC, therefore decided not to examine the proposal.
9. Subsequently, 520th SEIAA minutes held on 14.06.2022, SEIAA requested member secretary to communicate the decision of SEAC to the project proponent.
10. Now, the Project Proponent has submitted a letter dated: 26.09.2022 to proceed with already issued Auto TOR by SEIAA and hence PP have requested SEIAA and SEAC to process the same file under Violation category and submit the EIA report along with Ecological Remediation, Natural Resource Augmentation & Community Resource Augmentation for this violation project and ready to comply with the direction of SEAC in the CER and ecological remediation

Hence, the proposal was again placed for reappraisal in this 332nd SEAC Meeting held on 25.11.2022. The SEAC noted that, the MoEF&CC has issued office memorandum Dated 28th January, 2022 regarding observation of Hon'ble Supreme Court with reference to the SoP dated 7th July 2021 for identification and handling of violation cases under EIA Notification 2006 and stated that

"93. The interim order passed by the Madras High Court appears to be misconceived. However, this Court is not hearing an appeal from that interimorder. The interim stay passed by the Madras High Court can have no application to operation of the Standard Operating Procedure to projects in territories beyond the territorial jurisdiction of Madras High Court. Moreover, final decision may have been taken in accordance with the Orders/ Rules prevailing prior to 7th July, 2021."

Based on the presentation & documents furnished, since the PP has completed the project without obtaining EC and has also not applied during the window period,

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this has to be treated as violation case. Hence SEAC decided to direct the PP to prepare the EIA report including the assessment of ecological damage, remediation plan and natural and community resource augmentation plan components, as per Notification vide S.O.804(E) Dt. 14.3.2017 and in terms of Auto Terms of Reference already issued. PP should note that the final decision on the EIA report and its appraisal will be subject to final orders of the Hon'ble High Court of Madras in the matter W.P.(MD) No. 11757 of 2021.

Agenda No: 332- 21
(File No: 9553/2022)
Proposed Sand quarry over an extent of 4.90.0 Ha located at S.F.No: 333 (Part), Echambadi Village, Pallipattu Taluk, Tiruvallur District, Tamil Nadu by the Executive Engineer, PWD/WRD– For Environmental Clearance. (SIA/TN/MIN/ 405373/2022 Dt. 24.11.2022)

The proposal was placed for appraisal in this 332nd SEAC Meeting held on 25.11.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, The Executive Engineer, PWD/WRD, has applied for Environmental Clearance proposed Sand quarry over an extent of 4.90.0 Ha located at S.F.No: 333 (Part), Echambadi Village, Pallipattu Taluk, Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is 1 year and the mining plan for the period 1 year & mining quantity should not exceed 71050 m^3 of sand . The ultimate depth 1m (0.45 Above Bed Level + 1m Below Bed Level) for a period of one year..

Based on presentation & documents furnished by the PP, SEAC decided to carry out onsite inspection by the Sub Committee constituted by SEAC to assess the present Environmental Condition. Further, the PP shall furnish the following details during the site inspection.

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1. The Project Proponent shall study and report in detail on the "Replenishment Study" as per Sustainable Sand Mining Management Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand Mining 2020".
2. Pillar stone shall be erected before the site inspection.
3. Details of existing mining activities carried out in 1 Km either upstream & downstream direction.

On receipt of the Sub Committee report further deliberation will be done.

Agenda No. 332-TA1
(File No. 1260/2018)
Proposed Black Granite quarry lease over an extent of 6.09.0 Ha at S.F.No.11(P) Perumbakkam Village, Vanur Taluk, Villupuram District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited for Environmental Clearance (SIA/TN/MIN/78698/2018, Dt.22.06.2022) under violation category.

Earlier, this proposal was placed in this 313th Meeting of SEAC held on 30.09.2022. 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. Tamil Nadu Minerals Limited has applied for Environmental Clearance for the proposed Black Granite quarry lease over an extent of 6.09.0 Ha at S.F.No. 11(P) Perumbakkam Village, Vanur Taluk, Villupuram District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation made and documents furnished by the project proponent, the SEAC decided to make site inspection by the sub-committee to be constituted by the SEAC to assess the present status of the project and environmental settings as the proposal falls under violation category. Further the subcommittee will assess the ecological damage and to check the Remedial Plan & Community Augmentation Plan submitted by the PP during the inspection. On the receipt of the sub committee report, further deliberation will be carried out.

Based on that the Sub Committee has inspected the site on 23.9.2022 furnished the following:-

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M/s Tamil Nadu Minerals Limited (An Undertaking of Government of Tamil Nadu hereinafter referred as TAMIN) was established in the year 1978 to carryout systematic mining and development of different minerals all over the State.

About the Mine:

District	:	Villupuram
Taluk	:	Vanur
Village	:	Perumbakkam
SF No.	:	11(Part)
Extent	:	6.09.0 Ha
Land Classification	:	Govt.Pormaboke
Mineral	:	Black Granite
Lease period	:	20 Years. 19.06.2019 to 18.06.2029.

Basic need for going for EC under Violation Category

TAMIN has obtained EC form SEIAA vide Letter No. SEIAA-TN/F-1260/EC/1(a)/1834/2014, dt. 27.03.2015. The EC period is valid up to 26.03.2020. Approved EC production quantity is 523.800 cu.m for period of five years. At the time of getting EC the quarry was treated as B2 category as per MoEF&CC. Office Memorandum dated 24.12.2013.

During the EC period TAMIN has exceeded the production quantity against the quantity permitted in the EC. The production quantity of 523.800 cu.m was allowed as per EC, but the actually the quantity of 632.211 cu.m has been produced as per the Assistant Director's (Mines) measurement. [532.800 cu.m -632.211 cu.m = (-) 108.411 cu.m]

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

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

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2. Chronology

1.	ToR applied under violation category Online Proposal No. SIA/TN/MIN/24539/2018. SEIAA File No. 1260/2020	12.04.2018
2.	ToR granted under violation category vide SEIAA-TN/F.No.1260/ToR-853/2020	18.02.2021
3.	Public Hearing Conducted	12.04.2022
4.	EC Application applied vide Online Proposal No. SIA/TN/MIN/78698/2018	22.06.2022
5.	SEAC meeting held on	22.09.2022
6.	SEAC sub-committee visited the area vide SEAC -TN/1260 Site Inspection/2022, dt.23.09.2022	20.11.2022

3. Salient Features of the Project

1.	Latitude & Longitude	12°05'53.67"N to 12°06'04.52"N 79°39'12.36"E to 79°39'22.44"E
2.	Site Elevation above MSL	80 m AMSL
3.	Topography	Hilly terrain
4.	Lease area Topo Sheet details	57P/12
5.	Land use of the site	Government Poramboke land
6.	Lease Period	12.01.2009 to 18.06.2029 (20 years)
7.	Depth of Mining	30m (from top of the hill)
8.	Method of mining	Semi- mechanized opencast system
9.	Water Requirement (KLD)	1.5 KLD
10.	Source of water	Private Tankers
11.	Power Requirement	60 kVA
12.	DG set capacity	1 * 125 kVA (will be used during power failure)
13.	Fuel Requirements (Diesel)	200L/Day
14.	Manpower	35 Nos
15.	Municipal Solid waste Generation	16.0 kg/day
16.	Waste Oil Generation	3.0 Liter/Annum
17.	Seismicity	Seismic zone-II (Low risk)
18.	Project Cost	Rs. 99.97 Lakhs (Say 1.0 Crore)

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Other Salient Features of the Project

1	Nearest Highway	SH136(Mailam-Karasanur-Puducherry) – 1.49km (WSW) NH32 (Chennai-Puducherry-Tuticorin) ~ 7.60km (NE)
2	Nearest Airport	Chennai International Airport ~ 110.94 km (NNE)
3	Archaeologically places	S.No / Monuments / Distance (km) / Direction 1 Urn burial site Kadagambattu – 8.38 – S 2 Megalithic cairns and stone circles Sengamedu – 8.82 – SSE 3 Megalithic stone circles Tiruvakkarai – 6.82 – S 4 Chandra Mouleeswarar Temple – 7.74 – S 5 Arasaleeswarar Temple – 13.73 – ESE
4	Nearest Town	Tindivanam ~ 11.98 km (N)
5	Nearest City	Puducherry ~ 21.06 km (SE)
6	State & National Boundaries	TN-PY State Boundary(As per SOI Toposheet)≈ 7.83km , SSW TN-PY State Boundary(As per Google)≈ 7.85km, SSE

S.No	Name of Villages	Distance (~km)	Direction from project site	Population (Census 2011)
1	Parikkalpattu	0.02	E	900
2	Perumbakkam	0.34	SSE	1000
3	Taludali	0.98	W	1500
4	Parikkalpattu	1.00	NE	2257
5	Kurukkanpatti	2.08	N	1267

4. Mining Lease Details

	[illegible] Grant	[illegible] Grant Reference	[illegible]	[illegible]
1	Initial Grant	G.O Ms No.773, Industries (H2) Dept. dt. 17.11.1987.	11.04.1988	10.04.2008
2	Renewal lease	G.O 3(D) No.2 Industries (MME1) Dept. dt. 12.01.2009	19.06.2009	18.06.2029

5. Mining Plan Details

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1	Mining Plan	2004-2009	Lr.No.4524/MM9/2004,dt. 27.12.2004.
2	1st Scheme of Mining	2009-2014	Deemed approval under Rule 18(5) of GCDR 199
3.	2nd Scheme of Mining	2014-2019	
4.	3rd Scheme of Mining	2019-2024	Lr.No.5847/MM4/2020,dt. 07.12.2020.

6. Details of Mining

1	Method of mining	Open cast semi mechanized
2	Updated Geological reserves as on 31.03.2019	4.57,342 cu.m
3	Updated Mineable reserves as on 31.03.2019	1,47,530 cu.m
4	Proposed production per Annum	1531 cu.m
5	Elevation range of the mine site	Top RL 120
6	Bench height	6 m
7	Bench width	Not exceeding 6 m
8	Bench slope	60° to vertical
9	Proposed Depth of mining	30 m Top of the hillock (Bottom RL 90 m)
10	Life of mine	10 years

7. Past Production Details

S						
1	2014-2015	13,065	653	13,368	668	713.676
2	2015-2016	15,093	755	2,920	146	418.628
3	2016-2017	15,057	753	1,952	98	63.832
4	2017-2018	15,313	766	2,690	134	149.761
5	2018-2019	15,231	762	Nil	Nil	--
Total		73,759	3,689	20,930	1,046	1345.897

8. Proposed Production Details

1	2019-2020	13,065	1,307	11.758
2	2020-2021	13,970	1,397	12,573

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3	2021-2022	14,502	1,450	13,052
4	2022-2023	15,313	1,531	13,782
5	2023-2024	14,784	1,478	13,306
	Total	71,634	7,163	64,471

10. Status on Compliance of TOR

Complied as Reported and given in the EIA Report.

11. Violation Category

During the EC period TAMIN has exceeded the production quantity against the quantity permitted in the EC. The production quantity of 523.800 cu.m was allowed as per EC, but the quantity of 632.211 cu.m has been produced actually as per the Assistant Director's (Mines) measurement. (532.800 cu.m -632.211 cu.m = (-)108.411 cu.m)

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

1	Valid EC	X	EC obtained. But exceeded the EC approved quantity	EC quantity violation
2	Valid CTO	√	CTOs were obtained vide Orders 1805112332150 (Water Act) and 805112332150 (Air Act) dated 19.03.2018 which was valid upto 31.03.2018	There is No violation in this regard.
3	Valid Mining Plans/Schemes	√	Lr.No.5847/MM4/2020.dt. 07.12.2020. Valid up to 31.03.2024	There is No violation in this regard.
4	Forest Clearance	-	Not applicable.	Revenue Poramboke
5	Transport Permits	√	TAMIN has obtained the required Transport Permits.	There is No violation in this regard.
6	Any other violation	-	Nil	Nil

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12. Land Use Pattern

S. No.				
1	Area under Quarrying	0.91.0	0.58.0	1.61.0
2	Waste Dump	0.95.0	0.65.5	2.26.0
3	Infrastructure	0.00.5	Nil	0.00.5
4	Roads	0.26.0	--	0.20.0
5	Green Belt	0.09.0	0.07.0	0.25.0
6	Unutilized	3.87.5	2.57.0	1.76.5
	Total	6.09.0	3.87.5	6.09.0

13. Ecological Damage Assessment:-

TAMIN has remitted the amount Rs.43,20,143/- to the Department of Geology and Mining towards 100% cost value of the mined mineral against the permitted EC quantity.

Accordinly, the Director of Geology and Mining has issued No Objection Certificate to TAMIN for getting EC vide Letter Rc. No. 17/MM4/2020, dt. 03.07.2020.

Tamil Nadu Pollution Control Board has filed the case under Section 19 of Environment (Protection) Act, 1986 in Hon'ble Judicial Magistrate No.I Tindivanam vide Calendar Case No.184/2022.

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

Damage Assessment: Quantification of Damage Cost

S. No								
1	Mine Lease Area		Ha	6.09.0	6.09.0	6.09.0	6.09.0	6.09.0
2		Qty/ Mining plan	m^3/year	653	755	753	766	762
		Actual production	m^3/year	668	146	98	134	Nil
		Total Water	KL/year	480	480	480	480	Nil

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		Consumption						
3	Source of water	--	KL/Y	Road Tankers supply				
4	Hazardous waste	--	Lits/A	0	0	0	0	-
	Waste oil	--	Tonne/Year	3.0	3.0	3.0	3.0	-
5	Municipal Solid Waste	--	Tonne/Year	5.12	5.12	5.12	5.12	-
6	Mode of Disposal of Sewage	--	-	Septic tanks	Septic tanks	Septic tanks	Septic tanks	Nil
7	Deforestation /No of plants	--	Nos	Nil	Nil	Nil	Nil	Nil
8	Domestic Sewage Quantity(KLD)			0.45	0.45	0.45	0.45	-
9	Manpower	--	Nos	35	35	35	35	-

Quantification of Damage Cost

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

1. Air Environment

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

Emission calculation References:

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

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Quantification of Emissions due to quarry activities

1	PM	0.33	1.34
2	SO_2	0.26	1.03
3	NOx	5.04	20.17
	Total	5.63	22.54

2. Water Environment

Water is being sourced from nearby road tankers for mining operations purpose is about 1.5m³/day of water is required for the project.

2.1 Water pollution

There is no wastewater generation in the quarry. The sewage generated is being collected in Septic tank followed by soak pit. Assuming 100% of the sewage is collected in soak pit contaminating.

Year wise Sewage generation in Violation period

1	Domestic Sewage Quantity(KLD)	0.45	0.45	0.45	0.45	Nil
2	Sewage collected in soak pit(KLD)	0.45	0.45	0.45	0.45	Nil

2.2 Solid Waste

Municipal solid waste will be generated. If not managed properly, waste will affect the health of staff and employees as well as locals in the surrounding areas and will also be esthetically unpleasant.

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

S. No	Description	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
1	MSW (Tonne/Year)	5.84	5.84	5.84	5.84	

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Ecological Damage due to mining Activities & Remediation Plan and Cost

1	Air Environment	i) Drilling ii)Blasting iii) Movement of Machineries iv) Transportation	• Dust generation	• Particulate matter smaller than 10 microns, can settle in the bronchi and lungs and cause health problems like Bronchitis, Emphysema, Bronchial Asthma, Irritation of mucus Membranes of eyes, etc. • Particles smaller than 2.5 micrometers (PM2.5), tend to penetrate into the lungs and very Small particles (<100 nanometers) may pass through the lungs to affect other organs. • Vehicle emission	• Using inbuilt dust collector system • Usage of sharp drill bits for drilling of holes. • Provision of dust filters / mask to workers working at highly dust prone and affected areas. • Proper maintenance of machineries which avoids excessive noise and vibration. • Sufficient training to operators on safety and environmental parameters. • Regular wetting of transport road using water tanker. • Avoiding overloading of tippers • Covering of loaded tippers	7.498

				can also create various health problems on human being.	with tarpaulins during transportation. • Development of green belt / barriers wherever possible.	
2	Water Environment	a) Water usage b) Quarry working faces and dumps	• Generation domestic Effluents. • Soil erosion, siltation due to runoff / Storm Water. • Reduction in ground	• The direct impact on human beings due to poor water quality can lead to various water borne diseases like diarrhoea, jaundice, dysentery	• Rain water harvesting ponds will develop. • Clear supernatant water after settling can be let out of this pond after passing through settling traps. • Most of the mine water will be used	7,498
3	Soil Environment	Quarrying and dumping of waste	• Loss of top soil • Loss of soil fertility & soil	• Affecting biotic environment	• The top soil will be used for afforestation &Reclamation purpose. • Application of	6498

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4	Noise Environment	a)Drilling b)Movement of vehicles	• Prolonged exposure to high noise level is harmful to human auditory system	• Mental fatigue • Rebellious attitude • Annoyance • Carelessness • Hearing impairment	• Providing in-built mechanism for reducing sound emissions • Providing earplugs/earmuffs to workers exposed to high noisy areas. • Proper and regular maintenance	7.498
5	Vibration	Drilling in Quarry	• Creation of Vibration effect	• Accident and injury • damage to the nearby	• Controlling Blasting methods	6498
6	Biological Environment	Quarrying and allied operation	• Clearance of vegetation • Dust generation	• Loss of vegetative cover • Retardation of tree growth. Tip burning	• Water sprinkling to arrest dust generation • Creation of green belt in all possible vacant places within the lease area. • Local species in consultation with the state forest	6998

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7	Occupational health	Quarrying and allied operation	• Dust generation. • Noise and vibration effect	• Dust related pneumonia • Tuberculosis Rheumatic arthritis Segmental vibration Miners Nystagamus • Loss of life /machinery	• Water sprinkling on haul roads. • Green belt creation wherever possible to arrest dust and reduce noise propagation. • Good control measures for reducing air pollution & Control of noise levels. • Conducting Initial Medical examination (IME) at pre-entry level stage of workers by qualified	7,498
Total cost proposed under Ecological Remediation plan is Rs. 49986/- ~ Rs. 50,000/=						

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Environment Remediation Plan, Cost and Time Schedule (as Proposed)
Environment Remediation measures for quarry operations for the damages caused are as below:

Mitigation measures

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	Air Management	1. Plantation along the haul roadside to reduce effects of air/ noise pollution as part of landscape development. 2. A row of trees to be planted along the Quarry boundary periphery to screen the site from air/ noise pollution. 3. Regular maintenance and upkeep of the internal roads within project site will help to reduce air pollution. 4. The entry/ exit to the site to be with adequate curvature so that vehicles coming out/ entering the quarry do not impinge on road traffic directly.	7.498	7.498
2	Water Management	1. There is no effluent generation in existing quarry. 2. Storm water drainage system laid considering	7.498	7.498

		natural gradient of the site and sufficient number of recharge pits will be provided at appropriate locations to recharge ground water table. 3. Existing sewage disposed in to Septic tank followed by Soak pit. 4. Proper provision for maintenance of sewage disposal.			
3	Noise & Vibration Management	1. During quarry operations important to maintain the noise levels within the site for the safety and better health of residents in the nearby area. 2. The various precautions to be taken to maintain acceptable noise level within the project area are as under smooth flow of traffic to be ensured on the internal roads to avoid idling of vehicles while transportation.	7.498	6.498	13.996

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4	Solid Waste Management	1. Collection of waste, segregation, and disposal in a manner so as to cause minimal environment impact. 2. Non-degradable waste will be disposed to municipal garbage collection site.	6498	6498
5	Green Area Development Management	1. In order to keep a check on noise levels, particulate matter dispersion and concentration of polluting agents, a green belt is provided as part of the landscaping and it shall be maintained. 2. There shall be monitory provision made for development of green belt. 3. A horticulture officer and gardener shall be appointed for the same. 4. Maintenance shall include watering and manuring plants at appropnate time, weeding out	6998	6998

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		unwanted plants, cleaning, replacing wilted/died plants etc.		
6	Fire & Safety Management	1. For safety purpose of the occupants a well designed disaster management plan is prepared. 2. Emergency Assembly points will be marked. Regular mock drill to be undertaken. 3. Guidance over public address systems. 4. Sprinklers in quarry area and common areas.	7.498	7.498
Grand Total			**49.986**	**49.986 = Rs. 50,000/-**

Natural &Community Augmentation Plan breakup

Project Proponent Proposed Rs.49985/- for Natural &Community Augmentation Plan as below:

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1	Development of Greenery in the surrounding area and maintaining them	5332	5332	5330
2	Rain water harvesting and water shed programmes in the nearby village	1333	1333	1334
Sub Total		**6665**	**6665**	**6664**
Grand Total		**19994**		

1.	Providing Masks & Sanitizers to the nearby Perumbakkam government school	3000	3000	3000
2.	Providing Note books & Stationary for the Perumbakkam government school.	6997	6997	6997
Sub Total		**9997**	**9997**	**9997**
Total		**29991**		

CER Budget-Proposed:-

Perumbakkam Govt School. Perumbakkam village	Education & Repairs and Maintenance of School buildings, Upliftment of Toilet facilities for Girls Students, etc.	Rs.5.00 Lakhs
Total		Rs.5.00 Lakhs

17. Summary of Budget Allocation proposed for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan based on EIA Model

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Sl. No.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	Cost of Ecological Damage Remediation Plan	0.50		-	0.50
2	Natural Resource Augmentation Plan	0.07	0.07	0.07	0.21
3	Community Resource Augmentation Plan	0.10	0.10	0.10	0.30
Grand Total					1.01

14. OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION

1. The Sub Committee has visited Perumbakkam Granite Quarry during the Inspection to observe over all mining scenario in the Region.
2. The Lease over an extent of 6.09.0 Ha is being operated in the Perumbakkam. It is wire fenced in all sides.
3. As per Rule 2 of Rule 8C of Tamil Nadu Minor Mineral Concession Rules 1959, validity of the Lease is upto 10.04.2028.
4. The settlements/habitations are observed in 200 m from Lease boundary in eastern sides.
5. There was no mining activities in the quarry.
6. Rain water accumulated in the Quarry and atleast 2 bottom most benches are covered in water, as noticed.
7. The Lease is having valid EC, approved Mining Plan and Consent to Operate, as reported. Thus, the mining operations in the Quarry are subjected to compliance of existing EC conditions and CTO conditions. As reports produced to the Sub Committee, the EC conditions were reportedly complied except the incease of production quantity as per AD(Mines) measurement .
8. During Violation Period, Environmental friendly Mining activities, involving the Small diameter Drilling with mild & controlled Blasting operations has been practised but however the Diamond Wire Saw cutting, the primary cutting machinery, was used as a 'Non-Explosive component' for the quarrying operations.
9. There were no Top Soil and Over Burden generation during the Period and thus only the Granite Rejects produced from the quarry are formed as waste dump within the Lease area but in the non-mineralised zone.
10. No Ground Water-table Intersection as noticed in the existing benches of the quarry.

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11. Dedicated Haul Roads from Quarry to Panchayat/village road and from Panchayat Road to the SH exists and very minimal transportation through village road (during the Violation Period) was carried out (maximum of 2 load trucks).
12. The Green Belt has been developed along the periphery of quarry pit including in Safety Barriers.
13. The Water tanker trucks possessing the water sprinklers were deployed along the Haul Road during the violation period and is in the working condition.
14. Gartand Drains are partially provided along the periphery but its maintenance has to be improved.
15. Green belt developed along the eastern side boundaries are infested with Procopius Juliflora which are to be eradicated and additional green belt shall be developed.
16. M/s. TAMIN is carrying out various CSR activities in the Region as per CSR Policy of the Company, as reported.
17. Further, the Sub-Committee has significantly observed that a distance of 50 m earlier provided for the safety of pilgrims and temple henceforth need not be left unutilised. It has been noted that the deity in the temple was vacated and relocated to some other distant temple. Hence, this area, in future, may be utilised for mining activities by the company.

STATUS OF MINING OPERATION

The mining activities were stopped on 30.11.2017 and there was no production from this Mine since then.

MINING PLAN APPROVALS

The Director, DMG, Chennai has accorded the latest Scheme of mining for the period from form 2019-2024 Lr.No.5847/MM4/2020,dt. 07.12.2020

PRESENT CONDITION OF THE MINES PIT AND DUMP (Incorporate your data)

- The physical nature of the Black Granite deposit:
  - Strike length (m) : 370 m
  - Width (m) : 68m
  - Strike direction : NW-SE
  - Dip : Almost vertical
  - Depth proved (m) : More than 30 m as it Dolerite rock Formation

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- Pit Dimension

Present pit size	86	56	15

- Waste Dump details : The dumps have been maintained at an average height of 5m and the angle of slope of dumps at 45° from horizontal.The waste dump has been earmarked in the Schem of Mining plate Nos 4 & 5.

STATUTORY MANPOWER (during the violation period)

1.	Manager (Second Class Competency Certificate)	1	1
2.	Mines Foreman	1	1
3.	Mine Mate (Will act as Blaster)	1	1

GREEN BELT DEVELOPMENT AND PLANTATION

Since the lease area is Granite terrain TAMIN has proposed to carry out the plantations, predomenetly. 100 native species during the IIIrd Scheme of mining period .

VIOLATION

PENALTY FOR VIOLATION

TAMIN has remitted the amount Rs.43,20,143/- to the Department of Geology and Mining towards 100% cost value of the mined mineral against the permitted EC quantity.

Accordinly, the Director of Geology and Mining has issued No Objection Certificate to TAMIN for getting EC vide Letter Rc. No. 17/MM4/2020, dt. 03.07.2020.

Tamil Nadu Pollution Control Board has filed the case under Section 19 of Environment (Protection) Act, 1986 in Hon'ble Judicial Magistrate No.1 Tindivanam vide Calendar Case No.184/2022.

Based on the inspection of the project site and other documents furnished by project proponent, M/s. TAMIN, SEAC Sub-Committee recommends the following Estimation made towards the Ecological remediation cost, Natural resources augmentation cost and Community resources

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augmentation cost under violation category for the concerned lease of Perumbakkam Black Granite Mine of TAMIN, Perumbakkam, Vanur Taluk, Vippupuram 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 Ist 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 Ist 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 28th 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 IAA; (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 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."*

"....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

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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 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.

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(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 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

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SEAC has arrived the following methodology based on major and important factors, field inspection and data collected and expertise of the members of SEAC.

Table 1: Classification of Mining Projects for Violation Category

Sl. No	Criteria	Low	High
1.	Year wise Mined Mineral Output	As per approved Mining Plan	Not as per approved Mining Plan
2.	Benches formation	Formed and as per specifications	Not formed
3.	Drilling, Blasting and Heavy Machineries use	Not used	Drilling, Blasting and Heavy Machineries used
4.	Adequate and qualified statutory personnel	Employed	Inadequate and unqualified personnel employed
5.	Waste dumps location	Within the lease hold area	Outside the lease hold area
6.	Habitations/Forest location	Away from the site by 500 m or more	Located within 500m
7.	Ground water table intersection	Not intersected	Intersected
8.	Green belt development in safety zone and as per norms of species & numbers	Developed in safety zone and as per norms	Green belt formed outside the safety zone and also not as per norms
9.	Mined Mineral storage (Ore)	Scientific and within the lease area	Unscientific and outside the lease area
10.	Surface Drainage	Constructed and as per specifications	Not constructed
11.	Mined material transport route	Away from habitations atleast by 500 m	Passing through the habitations

In the step 1, the objective is to classify the mining project taken up for the study into either low level ecological damage category (or) high level ecological damage category. In this exercise, 11 characteristics attributed to the mining projects in general are used as criteria. Depending upon

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the applicability of the each of the criteria to the mining project, the mining project will become classified into either low level ecological damage category or high level ecological damage category. In the above Table, if a minimum of 6 criteria becomes applicable for a classification, then the project is classified under the concerned type of classification (low/high).

In view of the above and based on the inspection report & the Ecological damage, remediation plan and natural & community resource augmentation plan furnished by the project proponent, the SEAC decided the fund allocation for Ecological remediation, natural resource augmentation & community resource augmentation and penalty by following the below mentioned criteria given in Table 2.

Table 2: Damage Assessment Classification of Granite Mining Projects

Level of damages	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
Low level Ecological damage	0.40	0.50	0.70	0.40	2.00
High level Ecological damage	0.75	1.00	1.25	0.75	3.75

In the step 2, the objective is to estimate the Ecological Remediation cost, Natural Resources Augmentation cost and Community Resources Augmentation cost. In this exercise, data related to the select mining projects from project proposals and field conditions have been used to calculate the damage assessment from the above Table 2.

ESTIMATION OF ECOLOGICAL REMEDIATION COST, NATURAL RESOURCES AUGMENTATION COST AND COMMUNITY RESOURCES AUGMENTATION COST UNDER VIOLATION CATEGORY

STEP – 1:

Classification of Mining Projects according to the Violation level

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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 with prior EC obtained on 27.03.2015. Here, the granite volume of 523.800 cu.m was allowed as per EC, but the the quantity of 632.211 cu.m has been produced as per the Assistant Director's (Mines) measurement, [532.800 cu.m -632.211 cu.m = (-) 108.411 cu.m).	Not carried out in accordance with the quantity as specified in the EC as 108.411 cu.m were produced during the violation period – **High Level damage**	Out of 11 criteria, 8 criteria have been scored for Low Level of Damage.	Low Level Ecological Damage
2.	Benches formation	Partially Formed as per the specifications given in the approved Mining Plan. BH = 7.5 m & BW not less than BH (i.e., 8.0 to 12.0	Benches are not formed as per the Approved Mining Plan – **High Level damage**		

		m); Bench Slope = 10 to 15° (to vertical).			
3.	Drilling, Blasting and Heavy Machineries use	No Drilling & Blasting operations were carried out. Instead, the HEMM fitted with rock breaker deployed for primary rock breakage.	Very mild and Controlled Drilling & Blasting operations were adopted along with the Diamond Wire Saw Cutting for the extraction of Dimension Stones but the HEMM were used- **Low Level damage**		
4.	Adequate and qualified statutory personnel	Required: 3 Sanctioned & Available:3	Three number of statutory personnel employed – **Low Level damage**		
5.	Waste dumps location	Low quantity of waste produced due to low stripping ratio. However, the mineral rejects were produced also	The waste dump placed within the mine.- **Low Level damage**	However, vide CCOM/IBM Lr No. K-011011/1/2011-CCOM-VOL-1(PF), dated. 10.01.2013, any dumping	

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		stored in the mine lease holed area.		of waste outside the mining lease boundary proposed in the approved Mining Plan/Scheme of Mining is permitted but necessary approval shall be obtained from the Regional office/IBM in this regard.	
6.	Habitations/Forest location	Parikkalpattu village located in the Eastern Part at a distance of 200 to 250 m range where about 1077 persons are living.	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 100 Trees in an extent of 0.09 Ha (@ 10 Trees/Ha). predominantly local species	Green belt developed around the safety zone – Low level damage		

		like Neem, Pungan, etc, are planted and maintained with about 90.0% Survival Rate in this Lease.	
9.	Mined Mineral storage	It is being stored in the mine lease area currently with a systematic & scientific manner in the non-mineralized zone.	Further, 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 necessarily Passing through the village	Trucks carrying the Granite blocks are NOT necessarily pass through the villages to reach the Highway as the alternative route is available - Low level damage

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	0.40	0.50	0.70	0.40	2.00
Actual Amount	40000 × 6.09	50000 × 6.09	70000 × 6.09	40000 × 6.09	200000 × 6.09
	243600	304500	426300	243600	12,18,000/-

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.

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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** as the operations were carried out without obtaining prior EC for the enhanced recovery quantity of Granite only.

CONCLUSIONS:

As the Proposal falls in **Low Level Ecological Damage** during the Violation Period, the Sub-Committee is of the opinion that the higher Environmental Compensation value has been arrived **based on the SEAC-TN model is Rs. 9,74,400/- which is higher than** the other estimation - Environmental Compensation values of Rs. 1,01,000 **based on the EIA model prepared by the EIA coordinator.** Therefore, **the aforesaid value of Rs. 9,74,400/-** must be compensated for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan as follows:

Sl. No.	Activity Proposed	Total, Rs.
1	Ecological Damage Remediation Plan	3,74,400
2	Natural Resource Augmentation Plan	3,00,000
3	Community Resource Augmentation Plan	3,00,000
Grand Total		9,74,400

The Project Cost is **Rs.100 Lakhs.** CER Budget is estimated as 2% of the Project Cost i.e. **Rs.2,00,000/-. Based on the SEAC-TN model for the violation cases, the CER value is estimated as Rs. 2,43,600/-.** However, the PP had committed to provide the following budget (Rs.5,00,000/-) towards the Corporate Environmental Responsibility (CER) during the SEAC appraisal meeting.

Name of the Village	Particulars	CER Amount
Perumbakkam Govt School. Perumbakkam village	Education & Repairs and Maintenance of School buildings, Upliftment of Toilet facilities for Girls Students, etc.	Rs.5.00 Lakhs
Total		**Rs.5.00 Lakhs**

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STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 9,74,400/- must 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 M/s. TAMIN as committed during the appraisal and receipt has to be produced to SEAC/SEIAA-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 Black Granite in an extent of 6.09.0 Ha SF No. 11 (part) 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 Black Granite in an extent of 6.09.0 Ha SF No. 11 (part) of M/s Tamil Nadu Minerals Limited **may be considered** subject to the following conditions in addition to the normal conditions:

1. The amount prescribed for Ecological remediation (Rs. 3,74,400), natural resource augmentation (Rs. 3,00,000) & community resource augmentation (Rs. 3,00,000), totaling Rs. 9,74,400. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 9,74,400 in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
2. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of six months. If not, the bank guarantee will be forfeited to TNPCB without further notice.
3. The amount committed by the Project proponent for CER (Rs. 5.00 Lakhs) shall be remitted in the form of DD to the beneficiary for the activities committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.
4. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.

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5. The company shall obtain 'No Dues Certificate' from State Government i.e. Department of Geology & Mining within a period of two weeks and submit the same to SEAC before grant of EC, if not produced earlier.
6. The 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 2.00 Ha in a phase manner as a part of mine closure activities.
7. The PP shall install the Environmental Management Cell headed by the statutory (I/II Class) Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
8. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
9. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained properly.
10. 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.
11. The proponent shall obtain a 'Star Rating' system awarded by Anna University, Chennai annually to the mining lease being operated for their efforts and initiatives taken for successful implementation of the Sustainable Development Framework (SDF).
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.

This proposal has placed in 332nd SEAC meeting held on 25.11.2022. Based on the inspection report and documents furnished, SEAC decided to accept the recommendation made by the subcommittee and decided to recommend the proposal for the grant of Environmental Clearance for the period of 5 Years for the production quantity of 71,634 m³ of ROM 7,163 m3 of (10% Recovery) of Granite & 64,471 m3 of Granite waste . The peak production shall not exceed 15313 m³ of ROM 1531 m3

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of Granite 13782 m3 of Granite waste with the ultimate depth of mining upto 30m AGL subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the conditions as recommended by the Subcommittee.

Agenda No: 332 – TA2
(File No: 8429/2021)
Proposed Red Earth quarry lease area over an extent of 1.63.0 Ha at S.F.Nos.24/1 of Thalakanikuppam Village, Vanur Taluk, Villuppuram District, Tamil Nadu by Thiru. C. Vinoth- For Environmental Clearance. (SIA/TN/MIN/201755/2021, dated: 04.03.2021).

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

The SEAC noted the following:

1. The Project Proponent, Thiru. C. Vinoth has applied for Environmental Clearance for the proposed Red Earth quarry lease area over an extent of 1.63.0 Ha at S.F.Nos.24/1 of Thalakanikuppam Village, Vanur Taluk, Viluppuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. The precise area communication was issued for the period of 2 Years. The approved mining plan is for the period of 2Years & for the production quantity of 18900 m³ of Red Earth and the peak production shall not exceed 9450 m³ of Red Earth/Year. The ultimate depth is 2m BGL.

Sl. No.	Details of the Proposal		
1	Name of the Owner/Firm	:	Thiru.C.Vinoth S/o. Cheelladurai No.578,Nadagudi village Kandiyur Sivagangai District, TN – 630303.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Red Earth

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3	S.F No. Of the quarry site with area break-up	:	24/1
4	Village in which situated	:	Thalakanikuppam
5	Taluk in which situated	:	Vanur
6	District in which situated	:	Villupuram
7	Extent of quarry (in ha.)	:	1.63.0 Ha
8	Latitude & Longitude of all corners of the quarry site	:	12°09'11.86"N to 12°09'16.62"N 79°49'10.69"E to 79°49'17.82"E
9	Topo Sheet No.	:	58 – P/16
10	Type of mining		Opencast conventional mechanized shallow Mining
11	Period of quarrying proposed	:	2 years
12	Production (Quantity in m^3)	:	18900 m^3 of Red Earth and the peak production shall not exceed 9450 m^3 of Red Earth/Year
13	Depth of quarrying	:	2m
14	Depth of water table	:	9m – 14m BGL
15	Man Power requirement per day:		10Nos.
16	Source of Water Requirement		water vendors
17	Water requirement: 5. Drinking & domestic purposes (in KLD) 6. Dust suppression, Green Belt &Wet Drilling (in KLD)	:	2.5 KLD 0.5 KLD 1.5 KLD 0.5 KLD
18	Power requirement		TNEB
19	Whether any habitation within 300m distance	:	No
20	Precise area communication approved by the, Collector's Office. Department of Geology and Mining with date	:	Rc.No.A/G&M/413/2020/Dated: 30.11.2020.
21	Mining Plan approved by Assistant Director (i/c). Department of Geology and Mining with date	:	Rc.No.A/G&M/413/2020/Dated: 03.02.2021.
22	Assistant Director (i/c). Department of Geology and Mining 500m cluster letter		Rc.No.B/G&M/413/2020/Dated: 03.02.2021.
23	VAO certificate regarding 300m radius cluster		Letter dt: 26.02.2021.
24	Project Cost (excluding EMP cost)	:	Rs.26.49 Lakh
25	EMP cost	:	Rs.1.22 Lakhs
26	CER cost		Rs.1 Lakhs

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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 certain directions. Acting on the said 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.

Hence, the SEAC directed the proponent to submit the following additional details for further processing the proposal.

1. The composition/component of the minerals proposed to be quarried shall be tested in any of the laboratories authorized by the Dept of Geology & Mining as directed in the above Judgment.

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

The project proponent has furnished reply vide Lr. dt: 02.06.2022 received on 06.06.2022. The proposal was placed for appraisal in 298th meeting of SEAC held on 22.07.2022. Based on the presentation and document furnished by the project proponent, SEAC decided to call for following additional particulars

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1. AD/OD (Mines & Geology) comments on the soil test report Dt: 13.10.2021 obtained from Division of Soil Mechanics and Foundation Engineering, Department of Civil Engineering, College of engineering, Guindy Campus, Anna university, Chennai in compliance to order of Madurai Bench of Hon'ble Madras high court Dt: 12.02.2021 in case No. 20903/2021 & status on the proposed mine lease area whether it is 'notified' and declared as 'protected zones' for carrying out any quarry operation.
2. AD Mines & Geology shall also report on the sand composition in the proposed site and whether it is permissible under the Sand mining Rules.
3. To furnish NBWL clearance, since proposed mine lease area falls within 10km radius of the Kazhuveli Bird sanctuary.

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 2 Years for the production quantity of 18900 m^3 of Red Earth and the peak production shall not exceed 9450 m^3 of Red Earth/Year & the ultimate depth of mining upto 2m BGL subject to the standerd 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 Metalliferrous Mines Regulations, 1961.
2. The proponent shall transplant all the trees/vegetations and shall maintain thick canopy of green cover all along the periphery of the proposed mining area. Also, the after the mining period, the proponent shall carryout agricultural activity within the proposed mining area as committed before SEAC.
3. The proponent shall access the transport route of mined out mineral in a closed manner without causing hindrance to the nearby bird sanctuary at any time.
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

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and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.

5. As accepted by the Project proponent shall remit Rs. 1.00 lakh to the DFO, Villupuram for carrying out conservation measures around the Kazhuveli Bird Sanctuary before obtaining CTO from TNPCB, Since the Kazhuveli Bird Sanctuary is located within 10km from the project site.
6. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
7. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. 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.
8. 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.
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.
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.

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12. 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.
13. **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.
14. 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.
15. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
16. 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.
17. 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.
18. 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.

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19. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are compiled 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
25. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been

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

26. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.

Agenda No: 332- TA-03
(File No: 9074/2022)
Proposed Red Earth and Pebbles quarry over an extent of 3.46.0 Ha in S.F.No. 4/1, Sorappattu Village, Marakkanam Taluk, Villupuram District, Tamil Nadu by Thiru Raphael Alphonse Nimalraj for Environmental Clearance (SIA/TN/MIN/259653/2022 dated 04.03.2022).

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

The SEAC noted the following:

1. The project proponent, Thiru. Raphael Alphonse Nimalraj has applied for Environmental Clearance for the proposed Red Earth and Pebbles quarry over an extent of 3.46.0 Ha in S.F.No. 4/1, Sorappattu Village, Marakkanam Taluk, Villupuram District, Tamil Nadu
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 3 years. The mining plan is for 3 years & the production should not exceed 21,470 cu.m. of Red Earth and 32,206 cu.m. of Pebbles. The maximum depth of mining would be 2 metres below ground level.
4. Earlier, this proposal was placed in the 282nd Meeting of SEAC held on 04.06.2022. Based on the presentation & documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the specific conditions, in addition to normal conditions stipulated by MOEF &CC
5. Subsequently, this proposal was placed in the 527th Meeting of Authority held on 01.07.2022. After detailed discussions the Authority decided to request the

Member Secretary, SEIAA TN to refer back the proposal to SEAC TN after obtaining the following details from the Project Proponent.

- The Project proponent shall obtain NOC from the DFO for the impact of the proposed mining on the flora, fauna and Reserve Forest located nearby.
- The Project proponent shall obtain NOC from the competent Authority for the impact of the proposed mining on the Eri and other water bodies located nearby the mine lease area.

6. Again, this proposal was placed for reappraisal in the 305th meeting of SEAC held on 23.08.2022. The PP has furnished a detailed reply covering the points raised by SEIAA and also furnished a letter from DFO vide letter Dt. 22.07.2022 and NOC from DD mines vide letter Dt: 03.08.2022. SEAC noted that Kazhuveli Bird Sanctuary has since been notified and hence decided to seek the following details from the PP.

- The PP shall obtain NBWL clearance for Kazhuveli Bird Sanctuary, vide, MoEF &CC Office Memorandum no. FC-11/119/2020-FC dated 17th May, 2022.

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

Now, the PP had submitted a letter dated: 07.09.2022 and the PP stated the following,

"we were asked to furnish NBWL Clearance for Kazhuveli Bird Sanctuary whereas the mentioned sanctuary is situated at 2.85km from the proposed quarry. While trying to apply for NBWL clearance online, we were not able to proceed for further application as our site does not fall under protected area. Kindly consider the above point and exempt us from obtaining NBWL clearance."

Hence, the proposal was again placed for reappraisal in this 332nd Meeting of SEAC held on 25.11.2022. The Project proponent made a representation along with the clarifications for the above shortcomings observed by the SEAC. The Committee

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carefully examined the replies given by the PP and **decided to reiterate its recommendation already made** in the 282nd Meeting of SEAC held on 04.06.2022. All other conditions stipulated in the earlier minutes will remain unaltered. As accepted by the Project proponent an amount of Rs. 1.0 lakh shall be spent for implementing conservation measures in Kazhuveli Bird Sanctuary, through DFO-Villupuram District as committed, before obtaining CTO from TNPCB.

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

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

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

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

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

18. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.

19. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.

20. The Project proponent shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flora, fauna etc.

21. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.

22. The project proponent shall ensure that the provisions of the MMRD, 1956, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.

23. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/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

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

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

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

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

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Appendix -I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	*Aegle marmelos*	Vilvam	வில்வம்
2	*Adenanthera pavonina*	Manjadi	மஞ்சாடி, சூலைமஞ்சாடி
3	*Albizia lebbeck*	Vaagai	வாகை
4	*Albizia amara*	Usil	உசில்
5	*Bauhinia purpurea*	Mandharai	மந்தாரை
6	*Bauhinia racemosa*	Aathi	ஆத்தி
7	*Bauhinia tomentosa*	Iruvathi	இருவாத்தி
8	*Bucheranania axillaris*	Kattuma	காட்டுமா
9	*Borassus flabellifer*	Panai	பனை
10	*Butea monosperma*	Murukkamaram	முருக்கமரம்
11	*Bobax ceiba*	Ilavu, Sevvilavu	இலவு
12	*Calophyllum inophyllum*	Punnai	புன்னை
13	*Cassia fistula*	Sarakondrai	சரக்கொன்றை
14	*Cassia roxburghii*	Sengondrai	செங்கொன்றை
15	*Chloroxylon swietenia*	Purusamaram	புரசு மரம்
16	*Cochlospermum religiosum*	Kongu, Manjalilavu	கொன்று, மஞ்சள் இலவு
17	*Cordia dichotoma*	Naruvili	நருவிலி
18	*Crateva adansoni*	Mavalingam	மவலிங்கம்
19	*Dillenia indica*	Uva, Uzha	உவ
20	*Dillenia pentagyna*	SiruUva, Siruzha	சிறு உவ
21	*Diospyro sebenum*	Karungali	கருங்காலி
22	*Diospyro schloroxylon*	Vaganai	வகனை
23	*Ficus amplissima*	Kallichi	கல் இச்சி
24	*Hibiscus tiliaceus*	Aathupoovarasu	ஆற்றுப்பூவரசு
25	*Hardwickia binata*	Aacha	ஆச்சா
26	*Holoptelia integrifolia*	Aayili	ஆயில் மரம், ஆயிலி
27	*Lannea coromandelica*	Odhiam	ஓதியம்
28	*Lagerstroemia speciosa*	Poo Maruthu	பூ மருது
29	*Lepisanthes tetraphylla*	Neibottaimaram	நெய் கொட்டை மரம்
30	*Limonia acidissima*	Vila maram	விளா மரம்
31	*Litsea glutinosa*	Pisinpattai	பிசின் பட்டை
32	*Madhuca longifolia*	Iluppai	இலுப்பை
33	*Manilkara hexandra*	UlakkaiPaalai	உலக்கை பாலை
34	*Mimusops elengi*	Magizhamaram	மகிழமரம்
35	*Mitragyna parvifolia*	Kadambu	கடம்பு
36	*Morinda pubescens*	Nuna	நுனா
37	*Morinda citrifolia*	Vellai Nuna	வெள்ளை நுனா
38	*Phoenix sylvestris*	Eachai	ஈச்சை
39	*Pongamia pinnat*	Pungam	புங்கம்

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40	*Premna mollissima*	Munnai	முன்னை
41	*Premna serratifolia*	Narumunnai	நறு முன்னை
42	*Premna tomentosa*	Malaipoovanam	மலை பூவரசு
43	*Prosopis cineraria*	Vanni maram	வன்னி மரம்
44	*Pterocarpus marsupium*	Vengai	வேங்கை
45	*Pterospermum canescens*	Vennangu, Tada	வெண்கொங்கு
46	*Pterospermum xylocarpum*	Polavu	பலவு
47	*Pulicaria roxburghii*	Karipala	கரிப்பாலை
48	*Salvadora persica*	Uppu Maram	உப்பு மரம்
49	*Sapindus emarginatus*	Manipungan, Soapukai	மணிப்புங்கன் சோப்புக்காய்
50	*Saraca asoca*	Asoca	அசோகம்
51	*Strobilus asper*	Piray maram	பிரை மரம்
52	*Strychnos nuxvomica*	Yetti	எட்டி
53	*Strychnos potatorum*	Therthang Kottai	தேற்றாங் கொட்டை
54	*Syzygium cumini*	Naval	நாவல்
55	*Terminalia bellerica*	Thandri	தான்றி
56	*Terminalia arjuna*	Ven marudhu	வெண் மருது
57	*Toona ciliata*	Sandhana vembu	சந்தன வேம்பு
58	*Thespesia populnea*	Puvarasu	புவரசு
59	*Walsuratrifoliata*	valsura	வால்சுரா
60	*Wrightia tinctoria*	Veppalai	வேப்பலை
61	*Pithecellobium dulce*	Kodukkapuli	கொடுக்காப்புளி

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Appendix –II

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

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