

State Expert Appraisal Committee (SEAC)

Minutes of 383rd meeting of the State Expert Appraisal Committee (SEAC) held on 15.06.2023 (Thursday) at SEIAA Conference Hall, 2nd Floor, Panagal Mallgal, Saldapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No: 383-01

File No: 9567/2022)

Proposed Rough stone quarry lease over an extent of 1.21.5 Ha in S.F.No. 1579/2 Thimmarasanayakkanur Bit II Village of Andipatty Taluk, Theni District, Tamil Nadu by Thiru P. Mayandi - For Environmental Clearance. (SIA/TN/MIN/406807/2022) Dated: 17.11.2022

The proposal was earlier placed for appraisal in the 362nd meeting of SEAC held on 10.03.2023. The project proponent gave a detailed presentation about the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru P. Mayandi has applied for Environmental Clearance for the Proposed Rough stone quarry lease over an extent of 1.21.5 Ha In S.F.No. 1579/2 Thimmarasanayakkanur Bit II Village of Andipatty 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, as amended.


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

- The Project Proponent shall furnish the certified compliance report obtained from MoEF&CC/TNPCB on the existing EC issued.
- Considering the presence of high wall on one side of the existing pit, the PP shall furnish revised mining quantity as suggested.

On receipt of the same the Committee will further deliberate and decide on future course of action.


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The Project Proponent furnished the details sought vide letter dated 19.05.2023. Hence the subject was placed before the Committee in its 383rd meeting held on 15.06.2023. The project proponent gave a detailed presentation on the details sought.

File No	9567		Category	82	
Sl. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm	:	Thiru. P. Mayandi S/o. Palraj V.B.L.M. Illam, Checkpost Near, Madurai Main Road, Kondamanayakkanpatti, Andipatty Taluk, Theni District		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone		
3.	S.F Nos. of the quarry site with area break-up	:	1579/2		
4.	Village in which situated	:	Thimmarasanayakkanur 6th II		
5.	Taluk in which situated	:	Andipatty		
6.	District in which situated	:	Theni		
7.	Extent of quarry (in ha.)	:	1.21.5 Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	100 01' 50.12" N to 100 01' 52.74" N 770 37' 59.40" E to 770 38' 05.20" E		
9.	Topo Sheet No.	:	58 - F/12		
10.	Type of mining	:	Open cast semi-mechanized method of mining		
11.	Life of Project	:	5 years		
	Lease Period	:	5 years		
	Mining Plan Period	:	5 years		

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	Mining Plan Details	: As per approved Mining Plan	As modified by SEAC
12.	Geological Resources m ³ (RoM)	: Rough Stone - 3,62,160 m ³	-
	Minable Resources m ³ (RoM)	: Rough Stone - 60,110 m ³	60,110 m ³
	Annual Peak Production in m ³	: 14,350 m ³	.
	Ultimate Pit Depth in meters	: 31m BGL	
13.	Depth of water table	: 58m BGL	
14.	Man Power requirement per day:	: 16 Nos.	
15.	Water requirement: 1. Drinking water 2. Dust suppression & Green belt	: 2.0 KLD 1.0 kLD 1.0kLD	
16.	Power requirement	: TNEB (Domestic activity) DG set (Industrial activity)	
17.	Precise area communication approved by the Assistant Geologist, Assistant Director(i/c), Dept. of Geology & Mining	: letter Rc.No.855/Kanimarn/2021, dated 28.05.2022.	
18.	Mining Plan approved by Assistant Geologist, Assistant Director(i/c), Dept. of Geology & Mining	: Roc.No.855/2021- Mines dated 15.07.2022.	
19.	Assistant Geologist, Assistant Director(i/c), Dept. of	: Roc.No.855/2021-Mines dated 15.07.2022	


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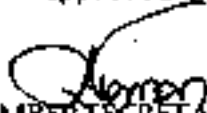
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	Geology & Mining 500m Cluster Letter			
20.	VAO Certificate Regarding Structures within 300m Radius		Letter Dated: 19.07.2022	
21.	Project Cost (excluding EMP cost)		Rs. 51,29,000/-	
22.	EC Recommendation	Validity	30 years subject to the following upper limits.	
			Rough Stone	Gravel
		Max Total RoM in m ³	3,62,160 m ³	-
		Annual Max RoM in m ³	14,350 m ³	-
	Max Depth in m	31m BGL	-	
23.	Total EMP cost (in Rs. Lakh).		Rs. 41,70,968 /-	
24.	CER cost (In Rs. Lakh).		Rs. 5,00,000 /- as accepted by the PP	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a production quantity of 60,110 m³ of Rough stone to an ultimate depth of 31m BGL and the annual peak production shall not exceed 14,350 m³ of Rough Stone as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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


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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 send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall ensure that all the persons employed in the mine undergo the vocational training in the DGMS approved CVTC located in Trichy before the execution of lease.
- 6) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 7) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8) 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.
- 9) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.


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- 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 should be adopted by considering the wind direction.
- 11) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/Local body.
- 13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required. In coordination with the concerned Govt. Authority.
- 14) Perennial sprinkling arrangements 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.
- 15) 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 are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 16) 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.
- 17) 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. 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.
- 18) 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


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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.

- 19) **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.
- 20) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 21) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 22) Further, the PP shall carry out the scientific studies to design the controlled blasting parameters to minimise the blast-induced ground / air vibrations and to control the fly rock within six months from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 23) No 'Deep-hole large diameter drilling and blasting' is permitted in this quarry.
- 24) 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


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confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. 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.

25) 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.

26) As the existing mine is properly not benched, the PP shall carry out the scientific studies to assess the slope stability of the quarry wall and benches within one year from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

27) Before the commencement of mining operations, the PP shall install the Slope retention systems (or) anchored mesh systems, in the highwall sloping faces to prevent the fall of rock and stabilize the existing slopes under the guidance of reputed Research and Academic Institution /Experts in the Geotechnical Engineering. Further, the PP shall install a fencing to prevent the entry of personnel.

28) 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 as per the Environmental Management Plan & the approved Mine Closure Plan.

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

30) 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


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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.

- 31) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 32) 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.
- 33) 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.
- 34) 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.
- 35) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 36) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 37) 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.

- 38) 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.
- 39) 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.
- 40) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 41) 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.
- 42) 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.
- 43) As accepted by the Project Proponent the CER cost of Rs. 5.00 lakh and the amount shall be spent for the committed activities in the Village Government School(s) before obtaining CTO from TNPCB.


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Agenda No.383-02

F.No.7857/2022

Proposed Rough stone and gravel quarry lease over an extent of 1.66.0 Ha at S.F.No. 367/2A (Part), Morattupalayam Village, Uthukuli Taluk, Tiruppur District, Tamil Nadu by Tmt.R.Chitra - For Environmental Clearance. (SIA/TN/MIN/56602/2021 dated 27.09.2021)

The proposal was earlier placed in the 303rd meeting of SEAC held on 18.08.2022 and subsequently in the 367th meeting of SEAC held on 31.03.2023. The details of the project furnished by the proponent are available in the website (parivesh.ntc.in).

The SEAC noted the following:

1. The project proponent Tmt.R.Chitra has applied seeking Environmental Clearance for the proposed Rough stone and gravel quarry lease over an extent of 1.66.0 Ha at S.F.No. 367/2A (Part), Morattupalayam Village, Uthukuli Taluk, Tiruppur District, Tamil Nadu, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. ToR Lr No.S&EIAA-TN/F.No.7857/SEAC/ToR-861/2020 Dated: 12.03.2021.
4. Public hearing report dated: 23.08.2021
5. EIA submitted on 01.10.2021
6. As per mining plan, the production for the five years states that the total quantity of recoverable should not exceed 2,19,325 cu.m of Rough stone and Gravel – 7,980 m³ and to a depth of 42m BGL depth for a period of 5 years.
7. As per the ToR Issued, restricted depth of mining is 37m ultimate depth and quantity to be mined is 2,10,680 cu.m of Rough stone & 7,980cu.m of Gravel for five years with a bench height of 5m as per the approved mining plan considering the hydrogeological regime of the surrounding area.

Based on the presentation and documents furnished by the Proponent, the SEAC decided to call for the following additional particulars:

1. Certified compliance report for the existing quarry.
2. Revised EMP in the format prescribed by the Committee.

The subject was taken for discussion in this proposal was placed in this 383rd meeting


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of SEAC held on 15.06.2023. The Project Proponent made a detailed presentation on the details sought by the Committee.

File No	7857	Category	B2
Sr. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Tmt.R.Chitra No.197, Ponniya Goundanur Morattupalayam Post Tiruppur District - 638 752
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone & Gravel
3.	S.F Nos. of the quarry site with area break-up	:	367/2A(Part)
4.	Village in which situated	:	Morattupalayam
5.	Taluk in which situated	:	Uthukull
6.	District in which situated	:	Tiruppur
7.	Extent of quarry (in ha.)	:	1.66.0ha
8.	Latitude & Longitude of all corners of the quarry site	:	11°08'28.03"N to 11°08'32.58"N 77°25'42.44"E to 77°25'46.93"E
9.	Topo Sheet No.	:	58 E/08
10.	Type of mining	:	Opencast Mechanized Mining Method
11.	Life of Project	:	3 years
	Lease Period	:	3 years
	Mining Plan Period	:	3 years
12.	Mining Plan Details	:	As per approved Mining Plan As modified by SEAC


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	Geological Resources m ³ (RoM)	: Rough Stone - 6,29,492m ³ Gravel - 11,784m ³	-
	Minable Resources m ³ (RoM)	: Rough Stone - 2,19,325 m ³ Gravel - 7980m ³	Rough Stone - 2,10,680, m ³ Gravel - 7980m ³
	Annual Peak Production in m ³	: Rough Stone - 67,835 m ³ Gravel - 5016m ³	-
	Ultimate Depth in m	: 42m BGL	37m BGL
13.	Depth of water table	: 55-50m	
14.	Man Power requirement per day:	: 20 Nos.	
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	: 3.2 kLD 1.0 kLD 1.5 kLD 0.7 kLD	
16.	Power requirement	: TNEB 1,76,786 litres of HSD will be utilized	
17.	Precise area communication approved by the Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining	: Rc.No.344/Kanimany/2019 dt: 25.12.2019.	
18.	Mining Plan approved by Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining	: Rc.No.344/Mines/2019 dt: 11.01.2020.	
19.	Assistant Geologist , Assistant Director(i/c), Dept. of	: Rc.No.344/Mines/2019 dt: 11.01.2020.	


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	Geology & Mining 500m Cluster Letter																	
20.	VAO Certificate Regarding Structures within 300m Radius		Letter Dated:23.01.2020															
21.	Project Cost (excluding EMP cost)	:	Rs.6.15,000/-															
22.	EC Recommendation	:	<table border="1"> <tr> <td>Validity</td> <td colspan="2">30 years subject to the following upper limits.</td> </tr> <tr> <td></td> <td>Rough Stone</td> <td>Gravel</td> </tr> <tr> <td>Max Total RoM in m³</td> <td>2,10,680</td> <td>7,980</td> </tr> <tr> <td>Annual Max RoM in m³</td> <td>67,835</td> <td>5016</td> </tr> <tr> <td>Max Depth in m</td> <td>37m</td> <td>2m</td> </tr> </table>	Validity	30 years subject to the following upper limits.			Rough Stone	Gravel	Max Total RoM in m ³	2,10,680	7,980	Annual Max RoM in m ³	67,835	5016	Max Depth in m	37m	2m
Validity	30 years subject to the following upper limits.																	
	Rough Stone	Gravel																
Max Total RoM in m ³	2,10,680	7,980																
Annual Max RoM in m ³	67,835	5016																
Max Depth in m	37m	2m																
23.	EMP cost (In Rs. Lakh).	:	Capital cost – Rs.23,58,200/- Recurring cost – Rs. 16,633,88/- + 5% of inflation cost every year															
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000 /- as accepted by the PP															

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a production quantity of 2,10,680cu.m of Rough stone & 7,980cu.m of Gravel and the annual peak production shall not exceed 67,835 m³ of Rough Stone and 5016m³ of Gravel with maintaining the ultimate depth of 37 m BCL as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:



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- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall Inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall ensure that all the persons employed in the mine undergo the vocational training in the DGMS approved GVTC located in Salem (or) Hosur before the execution of lease.
- 6) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 7) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8) 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

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- 9) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 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 should be adopted by considering the wind direction.
- 11) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14) Perennial sprinkling arrangements 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.
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- 17) 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. 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.


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- 18) 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.
- 19) 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.
- 20) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 21) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 22) Further, the PP shall carry out the scientific studies to design the controlled blasting parameters to minimise the blast-induced ground / air vibrations and to control the fly rock within one year from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 23) No 'Deep-hole large diameter drilling and blasting' is permitted.


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- 24)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. 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.
- 25)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.
- 26)As the existing mine is properly not benched, the PP shall carry out the scientific studies to assess the slope stability of the quarry wall and benches within one year from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 27)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 as per the Environmental Management Plan& the approved Mine Closure Plan.
- 28)Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 29)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


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de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.

- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) 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.
- 32) 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.
- 33) 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.
- 34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35) 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.
- 36) 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.


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- 37) 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.
- 38) 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.
- 39) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 40) 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.
- 41) 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.
- 42) As accepted by the Project Proponent the CER cost of Rs.5.0 lakh and the amount shall be spent for the committed activities in the Village Government School before obtaining CTO from TNPCB.


Agenda No: 383-03

(File No: 715/2022)

Existing Black Granite quarry lease over an extent of 4.19.5 Ha S.F.Nos.196, Nekkunthi Village, Dharmapuri Taluk, Dharmapuri District, Tamil Nadu by M/s Tamil Nadu Minerals Limited. For amendment to Environmental Clearance. (SIA/TN/MIN/275846/2022 Dt: 31.05.2022)


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The proposal was earlier placed in 291st meeting of SEAC held on 02.07.2022. The project proponent gave a detailed presentation. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

SEAC noted the following:

- In the Mineral Concession Rules, 1960. (hereinafter referred to as the principal rules), in rule 2, in sub rule (1), after clause (vii), the following clause is inserted, namely:-
'(vii a) "run-of-mine" means the raw, unprocessed or uncrushed material in its natural state obtained after blasting, digging, cutting or scraping from the mineralized zone of a lease area.'
- The project proponent has issued with Environmental Clearance vide Lr.No.05/DE/IAA-DPI/EC.No.05/2018 dated:14.8.2018 for the production of black granite 1824 m³ Black Granite for the period of 5 Years from the date of Execution of mining lease.
- Now, the project proponent has applied for the following amendment to the existing Environmental Clearance:

Production quantity as per EC	Amendment Sought
1824 m ³ Black Granite for the period of 5 Years	3690 m ³ of RoM per Annum

The project proponent also furnished the following

- The TAMIN production targets are conservative and follow the government mining rules and regulations to quarry the Black granite, Dolerite at this location and sold to international and domestic markets.
- The project proponent is also demarcated a dedicated area within the leasehold area for dumping of the non-saleable granite waste.
- The waste rock (or) overburden rock (or) other rejects excavated in the quarry is also dumped within the leasehold area and it will be backfilled into the worked out granite quarry faces during the final closure plan, with a view to restore the land to its original use (or) desired alternate use.


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- In case of non-feasibility of backfilling, the waste dumps will suitably terraced and stabilised by planting adequate vegetation as indicated by the SEAC, as a part of progressive mine closure plan.
- Long term & shorter ecological and environmental impacts such as air pollution due to dust, exhaust emissions or fumes, the discharge of toxic and objectionable effluents, noise arising out during the mining operations of granite and related activities are adequately mitigated in the EMP.
- It is submitted that the environmental impact is directly linked to ROM being mined out from the mineralised zone of quarry and not restricted to saleable production quantity (recovery alone).
- Since the EC limits saleable production quantity (recovery only), it is observed that our quarry managers tend to extricate a very miniscule quantity of absolutely defect free material.
- In many quarries the recovery falls down to very low value as 2% of RoM. This is neither in the interest of revenue generation for TAMILN (or) the State Government and also it is also not helping to protect the environment.
- Mining recoverable reserves may vary subject to the quality of Granite mining method and Geological features such as structural, textural formations and the market demand for the Granite being mined.
- It is well known that without extracting the Run of Mine (ROM) the recoverable production (recovery) is not possible.

SEAC carefully considered the request of the project proponent based on the presentation made and the details furnished by the project proponent. SEAC noted the following.

1. Project proponent has requested the following amendment.

Production qty as per EC	Amendment sought
1824 m ³ Black Granite for the period of 5 Years	3690m ³ of RoM per Annum

- 1) The term RoM includes raw, unprocessed or uncrushed material in its natural state obtained after blasting, digging, cutting or scraping from the mineralized zone of a lease area.


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- 2) The quantity of 'saleable mineral' depends on many factors such as the geology of the site, technology, workmanship, etc, and, therefore, is difficult to estimate accurately, while RoM can easily be estimated at the time of preparation of mining plan.
- 3) SEAC recommended EC for the project based on the EIA/PFR/EMP report and approved mining plan wherein the details of production of RoM, mineral and mineral waste were mentioned.
- 4) EMP for the project has been finalised based on total RoM & peak annual RoM and not based on 'saleable mineral.'
- 5) SEAC noted that the project proponent has not asked for any change in the area, or in RoM, or in the peak annual RoM.

Considering all the above, the Committee recommended the following amendment to the EC subject to the certain conditions.


Production quantity as per EC	Amendment Recommended
1824 m ³ Black Granite for the period of 5 Years	3690 m ³ of peak RoM per Annum

Subsequently the subject was placed before SEIAA in its 536th meeting held on 26.07.2022. The Authority noted that as per the approved mining plan/progressive closure plan submitted & as per the Point no. 31 (Storage of overburden, waste rock etc) of Chapter-VI of Granite Conservation & Development Rules, 1999.

- i. The overburden, waste rock and non-saleable granite generated during prospecting or mining operations for granite shall be stored separately in properly formed dumps on grounds earmarked.
- ii. 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.
- iii. Wherever possible, such waste rock or overburden or other rejects, shall be backfilled into the worked-out granite quarry, where granite has been recovered upto the optimum depth, with a view to restore the land to its original use or desired alternate use, as far as possible and where the backfilling is not feasible.


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the waste dumps shall be suitable terraced and stabilised by planting vegetation or otherwise.

As per the Point no. 32 (Reclamation and Rehabilitation of lands) of Chapter-VI of Granite Conservation & Development Rules, 1999,

"Every lease holder shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by prospecting or mining operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarry".

The Authority after detailed discussions, decided to refer back the proposal to SEAC for specific recommendation with justification for grant of Environmental clearance on the quantity of mineable mineral in terms of ROM quantity instead of Production quantity after the receipt of following details from the project proponent.

- I. The proponent shall submit the details of utilization of total quantity of granite Waste till the life of the quarry period for beneficial purpose.
- II. The proponent shall submit revised progressive mine closure & rehabilitation plan.
- III. To furnish approval obtained from the competent authority details of utilization of quantity of granite Waste for beneficial purpose as per market trend and revised progressive mine closure & rehabilitation plan proposed quarry pits till the life of the quarry period.
- IV. Long term and short term ecological and environmental impacts due to storage, handling, and transportation of granite waste for beneficial purpose (or) otherwise.
- V. AD/Competent authority of Geology & Mining Dept. justification for according permission in terms of ROM quantity instead of production quantity.
- VI. Can waste and such tailings be used for land back fills?
- VII. Mine closure plans and EMP in detail. How can the granite mine site be reclaimed to near natural and pre-mining condition?
- VIII. Action plan for protection of open and abandoned open spots as they are Hotspot for toxic water accumulation, contamination and accidents.


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IX. On impact due to transportation of the granite waste on the access road and the equipment, and social impacts.

Further the Proponent shall furnish the following additional particulars:


1. Certified compliance report for the existing quarry.
2. Valid scheme of mining stating the required product.

Hence the proposal was placed for reappraisal in this 304th meeting of SEAC held on 21.08.2022. The Project proponent furnished the clarifications for the points raised by SEIAA as given below:

1. As per the Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016, the term 'run-of-mine' (RoM) is defined as "*the raw, unprocessed or uncrushed material in its natural state obtained after blasting, digging, cutting or scraping from the mineralized zone of a lease area*". this includes the saleable ore mined after the processing, intercalated waste and mineral rejects/subgrade mineral.
2. The quantity of 'recovered saleable ore' depends on many factors such as the geology of the site, physical & geomechanical properties of the rock, quarrying technology, market demand etc. Further, the 'Recovery' is difficult to be estimated always precisely due to poor density & thickness of the granite, poor porosity, Visual appearance where it is being observed with dings, dents, scratches or uneven surfaces and however the RoM can easily be quantified at the time of preparation of mining plan.
3. The PP have informed that the 'Total Excavation' including ROM ore from which saleable fraction is produced are taken into consideration from the view point of economic viability of project during the approval of Mining Plan.
4. SEAC recommended EC for the project based on the EIA/PFR/EMP report and approved mining plan wherein the details of production of RoM which includes the Recovery (Ore), and mineral waste, and the overburden/side burden waste were mentioned.
5. The EMP for the project has been finalised based on total RoM & peak annual RoM and not based on 'meagre quantity of saleable ore'.


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6. Further it is pragmatic to consider total rock excavation from the point of view of Environmental Clearance, rather than production of saleable fraction of ore (or) the RoM (the extracted material from ore zone inclusive of mineral reject, Intercalated waste or gangue minerals, if any).
7. During the approval of Mining Plan, the total excavation including RoM ore from which saleable fraction is produced are taken into consideration.
8. It is also clarified that total rock excavation may differ to generate same amount of RoM on year to year basis.
9. SEAC noted that the PP has not asked for any change in the area, or in RoM, or in the peak annual RoM.
10. By allowing the mineral rejects to be moved out from the leasehold area, the pollution caused due to excessive storage of mineral rejects (Granite rejects obtained from ROM) is reduced considerably. Besides, as per Rule 64B (2), If the Run-of-Mine is removed from the leased area, then royalty shall be payable on the unprocessed Run-of-Mine (ROM) mineral depending on its grade.
11. The PP has informed the entire quarrying operation will be carried out in accordance with the provisions of the Granite Conservation & Development Rules, 1999.

However, based on the additional particulars furnished by the Project proponent, SEAC noted that the PP has not furnished certified compliance report issued by MoEF&CC (or) TNPCB for its existing EC issued. Hence it was decided to call for the following details from the PP.


- The PP shall furnish the certified compliance report issued by MoEF&CC/TNPCB for its existing EC issued.

Subsequently the subject was placed in the 339th meeting of SEAC held on 22.12.2022. The Committee noted that the PP is yet to furnish the aforesaid certified compliance report. Hence SEAC decided to defer the subject to a later date directing the proponent to submit the document called for.

The subject was taken for discussion in this proposal was placed in this 383rd meeting of SEAC held on 15.06.2023. The Project Proponent made a detailed presentation on


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the details sought by the Committee.

Now the Project Proponent requested the Committee for the following amendment:

Production Quantity as per EC	Amendment requested
Production Recovery : 10%	Production Recovery : 20%
RoM : 18240 m ³ -5 Years	Annual Peak RoM capacity : 18240 m ³
Black Granite : 1824m ³ -5 years	Annual Peak Recovery Production Capacity (Black Granite): 3648 m ³ .
EC Period : Five Years	EC Period : 30 years or life of mine whichever is earlier.
	Life of the mine : 90 Years [Lease Period]
	Ultimate pit depth: 30 m BCL

The Committee held detailed discussion and decided to recommend for the grant of the above amendment to the Environmental Clearance issued vide T.O Ir.No.05/DEIAA-DPI/EC.No.05/2018 dated:14.8.2018. All the other conditions stipulated in the aforesaid EC remain unaltered.

Agenda No: 383-04

File No: 9686/2022)

Proposed Rough stone and gravel quarry lease area over an extent of 0.80.0Ha at S.F.No248/1A, Sempalli Village, Gudiyattam Taluk, Vellore District by Thiru. S.Dhanasekaran - For Environmental Clearance. (SIA/TN/MIN/ 412402/2022 dated 28/12/2022)

The proposal was earlier placed in the 354th meeting of SEAC held on 10.02.2023. The project proponent gave a detailed presentation about the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.S.Dhanasekaran has applied for Environmental Clearance for the Rough stone and gravel quarry lease area over an extent of


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0.80,0Ha at S.F.No 248/1A, Sempalli Village, Gudiyattam Taluk, Vellore District, Tamil Nadu.

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

Based on the presentation and documents furnished by the Project Proponent, the SEAC decided to call for the following additional particulars:

1. The proponent shall enumerate on the details of the structures located within 100m, 200m, 300m radius from the proposed mine lease area indicating the type of structure/ building, usage/ purposes of such building – commercial/industrial/residential/farm house/Govt. building such as Sub-station, occupants of such buildings/structures, ownership of the buildings/structures- whether it belongs to the PP (or) not, etc.
2. The Project Proponent shall include the letter received from DFO concerned stating the proximity details of Reserve Forests (Athimugam 1 RF & other RF), Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
3. The proponent shall submit the details regarding the poultry farm located near the mine lease area.
4. The PP shall provide the methodology of carrying out the quarrying operation in the proposed site that is near the Reserve Forest.

On receipt of the aforesaid details, the Committee will take up the subject for further deliberations.

The subject was taken up for discussion in this 383rd meeting of SEAC held on 15.06.2023. The project proponent gave a detailed presentation on the details sought.

File No	9686	Category	B2
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. S. Dhanasekaran. S/o. Mr.E.Srinivasan. No.47, Seevur Village, Pillayar Kovil Street, Gudiyattam Taluk.


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		Vellore District- 632 602	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	Rough stone and gravel	
3.	S.F Nos. of the quarry site with area break-up	248/1A	
4.	Village in which situated	Sempalli	
5.	Taluk in which situated	Gudhyattam	
6.	District in which situated	Vellore	
7.	Extent of quarry (in ha.)	0.80.0Ha	
8.	Latitude & Longitude of all corners of the quarry site	12°58'30.34"N to 12°58'32.67"N 78°47'52.76"E to 78°47'57.92"E	
9.	Topo Sheet No.	57 L/13	
10.	Type of mining	Opencast, Semi-Mechanized mining.	
11.	Life of Project	5 years	
	Lease Period	5 years	
	Mining Plan Period	5 years	
12.	Mining Plan Details	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	Rough stone- 143598 m ³ Gravel- 9800 m ³	.
	Mifiable Resources m ³ (RoM)	Rough stone- 46798 m ³ Gravel- 5544 m ³	Rough stone- 43018 m ³ Gravel- 5544 m ³


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	Annual Peak Production in m ³	:	Rough stone- 15708 m ³ Gravel- 5544 m ³	
	Ultimate Pit Depth in m	:	22m BGL	17m(2m+15m) BGL
13.	Depth of water table	:	55-60m	
14.	Man Power requirement per day:	:	11 Nos.	
15.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression (in KLD) & Green Belt (in KLD)	:	2.0 KLD 0.5KLD 1.5KLD	
16.	Power requirement	:	TNEB (Domestic activity) DG set (industrial activity)	
17.	Precise area communication approved by the Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining	:	Rc.No. 240/2018 (Mines) Dated 26.11.2019	
18.	Mining Plan approved by Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining	:	Rc.No. 240/2018 (Mines) Dated 18.02.2020	
19.	Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining 500m Cluster Letter	:	Rc.No. 240/2018 (Mines) Dated 19.02.2020	


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20.	VAO Certificate Regarding Structures within 300m Radius	Letter Dated: 05.03.2020		
21.	Project Cost (excluding EMP cost)	: 16,95,000/-		
22.	EC Recommendation	: Validity	30 years subject to the following upper limits.	
			Rough Stone	Gravel
		: Max Total RoM in m ³	43018	5544
		: Annual Max RoM in m ³	15708	5544
		: Max Depth in m	15m	2m
23.	EMP cost (in Rs. Lakh).	: Capital cost - Rs. 1699403 /- Recurring cost - Rs. 1036000 /-		
24.	CER cost (in Rs. Lakh).	: Rs. 5,00,000/- as per SEAC		

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 restricted production quantity of 43,018 m³ of Rough stone to a restricted depth of 17m (2m + 15m) BGL and the annual peak production shall not exceed 15,708 m³ of Rough Stone as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC. in addition to the following specific conditions:

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


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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 send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall ensure that all the persons employed in the mine undergo the vocational training in the DGMS approved GVTC located in Hosur (or) Salem before the execution of lease.
- 6) The PP shall submit the methodology of quarrying and safety precautions to be maintained for ensuring the safety of persons employed to the concerned AD (Mines) before the execution of the lease.
- 7) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation pond and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 8) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 9) 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.


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- 10) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 11) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 12) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 13) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 14) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 15) Perennial sprinkling arrangements 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 TNPCC once in six months.
- 16) 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 are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 17) 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.
- 18) 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. 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.


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- 19) 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.
- 20) **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.
- 21) Since the quarry is surrounded by the physical structures, the PP shall carry out only non-explosive techniques such as hand breaking, rock breakers, rippers etc for the breakage & production of raw materials.
- 22) 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 as per the Environmental Management Plan & the approved Mine Closure Plan.
- 23) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 24) 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.
- 25) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 26) 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


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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.

- 27) 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.
- 28) 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.
- 29) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 30) 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.
- 31) 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.
- 32) 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.
- 33) 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


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complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

34)As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 Issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

35)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.

36)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.

37)As accepted by the Project Proponent the CER cost of Rs. 5.0 lakh and the amount shall be spent for the committed activities in the Village Government School before obtaining CTO from TNPCB.

Agenda No: 383-05

(File No: 9602/2022)

Proposed Integrated Township at S.F.No. 230, 231, 232, 233, 234, 242 pt. 243, 244, 245 pt. 249 pt. 250, 251 pt. 252, 253 in Siruseri Village Vandalur Taluk Chengalpattu District by M/s. Singapore Realty Pvt. Ltd- For Terms of Reference (SIA/TN/INFRA2/404651/2022 dated 07.11.2022)

The proposal was earlier placed in the 346th meeting of SEAC held on 12.10.2023. The project proponent made a detailed presentation of the proposal. The details of the project are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent M/s. Singapore Realty Pvt. Ltd has applied seeking Terms of Reference for the proposed Integrated Township at S.F.No. 230, 231, 232.


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233, 234, 242 pt. 243, 244, 245 pt. 249 pt. 250, 251 pt. 252, 253 In Siruseri Village, Vandalur Taluk Chengalpattu District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B" of Item 8(b) "Area Development" of the Schedule to the EIA Notification, 2006, as amended.
3. Total plot area- 4,21,295 Sq.m and the total built up area - 16,11,496 Sq.m.

Based on the presentation made by the proponent and the documents furnished, SEAC decided to recommend the proposal for the grant of Terms of Reference (TOR), subject to the conditions stated therein.

Subsequently the subject was placed in 591st meeting of Authority held on 10.02.2023. The Authority noted that the proposal was placed in the 346th meeting of SEAC held on 12.01.2023. The SEAC decided to recommend the proposal for the grant of Terms of Reference (TOR), subject to the TORs, in addition to the standard terms of reference for EIA study and details issued by the MOEF & CC to be included in EIA/EMP Report. After detailed discussion, the Authority decided to defer the subject seeking the following particulars:

1. O/o of the Member Secretary shall put up a detailed note on the previous Terms of Reference granted for this project.
2. Project proponent shall furnish history of the Court cases pertaining to this project in Chronological order.


The details sought were placed in the 613th meeting of Authority held on 04.04.2023. Based on the history of the Court cases pertaining to this project furnished by the Project Proponent in chronological order vide letter dated 07.04.2023, and on the details available in the file the Authority noted that,

A Commercial Original Suit, COS//0000014/2018 filed by SIPCOT, Tamil Nadu against the Project Proponent is pending at Principal District Court, Chengalpet with the prayer to amicably seek a remedy through a special civil suit based on the withdrawal made by SIPCOT on the review petition made before the Hon'ble Supreme Court.

After detailed discussions, the Authority decided to refer back the subject to SEAC for furnishing its recommendations considering the aforesaid court case.


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Hence the subject was taken up for discussion in this 383rd meeting of SEAC held on 15.06.2023. The project proponent furnished the following reply for the query raised by SEIAA:

SEIAA query	PP's reply
<p>A Commercial Original Suit, COS//0000014/2018 filed by SIPCOT, Tamil Nadu against the Project Proponent is pending at Principal District Court, Chengalpet with the prayer to amicably seek a remedy through a special civil suit based on the withdrawal made by SIPCOT on the review petition made before the Hon'ble Supreme Court.</p>	<ul style="list-style-type: none"> • Petition (CNR Number- TNKP01-001465-2018) filed by SIPCOT in Principal District Court, Chengalpet towards seeking remedy through a special civil suit. • Last hearing conducted on 09/06/2023, where arguments by us was completed and next hearing called on 19/06/2023 for respondents (SIPCOT) arguments. • We will abide the outcome of pending petition (commercial suit)

Based on the presentation made by the proponent and after examining the documents furnished and the reply of PP, the Committee decided to reiterate the recommendations for the grant of Terms of Reference already made vide minutes of 346th meeting of SEAC held on 12.01.2023 subject to the conditions stated therein.

Agenda No: 383 - 06

(File No: 9251/2022)

proposed Rough Stone and Gravel quarry over an extent of 0.84.0 Ha (Patta land) in S.F.No.31/1B, 31/1C(Part), 31/1E1(Part) and 31/1E2 (Part) of Nallur Village, Anaimalai Taluk and Coimbatore District by Thiru. T. Pasupathi - For Environmental Clearance. (SI/VTN/MIN/272021/2022, dated: 10.05.2022)

The proposal was placed for appraisal in this 356th SEAC meeting held on 17.02.2023. 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. T. Pasupathi has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry over an extent of 0.84.0Ha (Patta land) in S.F.No.31/1B, 31/1C(Part), 31/1E1(Part) and 31/1E2 (Part) of Nallur Village, Pollachi Taluk and Coimbatore 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. Earlier the proposal was placed in 301st SEAC meeting held on 06.08.2022. Based on the presentation made by the proponent, SEAC decided to call for the following details from the PP:

1. The PP shall furnish the certified compliance report obtained from MoEF&CC/TNPCB for the existing EC issued.
2. Since the Anaimalai Tiger Reserve is located at a distance of 9.33 km away & its ESZ is yet to be notified, the PP shall obtain NBWL Clearance.


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

4. The proposal was subsequently placed in the 356th SEAC meeting held on 17.02.2023. During the presentation, proponent requested time for submission of additional details as pointed out by the SEAC, regarding NBWL clearance. Hence, SEAC decided to defer the proposal.
5. Subsequently, the proposal was placed in the 602nd Authority meeting held on 14.03.2023. In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary, SEIAA-TN to communicate the minutes to the proponent.

Now the proposal was again placed in the 383rd SEAC meeting held on 15.06.2023. Based on the presentation and document furnished by the proponent, SEAC noted that

1. The Principal Chief Conservator of Forests and Chief Wildlife Warden has issued clarification letter vide Ref. No, WLS/10867/2023 Dated: 20.04.2023 which states that

"...It is informed that as per the Hon'ble Supreme Court of India in its order dated 03-06-2022 in IA No. 1000 of 2003 stats that the ESZ is already prescribed as per law that goes beyond one kilometer buffer zone, the wider margin as ESZ


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shall prevail. If such wider buffer zone beyond one kilometer is proposed under any statutory instrument for a particular National Park or Wildlife Sanctuary awaiting final decision in that regard, then till such final decision is taken, the ESZ covering the area beyond one kilometer as proposed shall be maintained. In this regard, the Eco Sensitive Zone notification proposal for Anamalai Tiger Reserve has been sent Government of India on 16-04-2018 and 05-12-2022. The proposed extent of Eco Sensitive Zone is various from 0 to 9.20 Kms and the same is under consideration.

Further it is informed that the as per reference 2nd cited, the proposed project is site is 9.33 Kms away from Anamalai Tiger Reserve and it is located outside the proposed Eco Sensitive Zone of Anamalai Tiger Reserve. Hence, the said project would not require wildlife clearance from the Standing Committee of National Board for Wildlife. You are requested to withdraw the online proposal (proposal No. FP/TN/QRY/6691/2022) already uploaded in PARIVESH web portal."

2. Subsequently, as per the judgement issued in the case of T.N. GODAVARMAN THIRUMULPAD vs UNION OF INDIA & OTHERS, WRIT PETITION (CIVIL) NO. 202 OF 1995 Dated: 26.04.2023, which states that under sub para (b) of Para 66.


ii. "...66. We also modify the directions contained in paragraph 56.5 of the order dated 3rd June 2022 (supra) and replace the same as under:

We further direct that while granting Environmental and Forest Clearances for project activities in ESZ and other areas outside the Protected Areas, the Union of India as well as various State/Union Territory Governments shall strictly follow the provisions contained in the Office Memorandum dated 17th May 2022 issued by MoEF & CC.

3. Further, as per MoEF&CC Office Memorandum vide FC-11/119/2020-FC Dated 17.05.2022 issued regarding Clarification on Requirement of Various Environmental and Forest Clearances for Project/Activity in Eco-Sensitive Zone and Other Such Areas outside Protected Area, under para 5



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<p>Clearance Category</p>	<p>Project/Activity in Notified ESZ Around PA or in notified ESA</p>	<p>Project/Activity outside PA wherein ESZ is not notified or <u>ESZ Notification is at draft stage</u></p>	<p>Project/Activity outside PA in area which is part of Tiger Reserve or linking one PA or Tiger Reserve to another PA or Tiger Reserve</p>
<p>Environmental Clearance (EC)</p>	<p>Project/Activity shall be regulated and governed by the concerned ESZ/ESA Notification. Accordingly, activities prohibited under the ESZ/ESA Notification cannot be undertaken. Whereas, for regulated and other activities in ESZ/ESA Notification covered under the Schedule of EIA Notification, 2006; prior EC as</p>	<p>For Project/Activity covered under the Schedule of EIA Notification, 2006; prior EC as per the prescribed procedure is mandatory, anywhere outside the PA,</p>	<p>For project/Activity covered under the Schedule of EIA Notification, 2006; prior EC as per the prescribed procedure is mandatory anywhere outside the PA,</p>


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	per the prescribed procedure is mandatory		
Forest Clearance (FC)	Projects shall be regulated and governed by the concerned ESZ/ESA Notification. Accordingly, activities prohibited under the ESZ Notification cannot be undertaken. Whereas, for regulated and other activities: Forest Clearance will be required, only if forest land is involved and proposed activity is for non-forestry use, as per provisions of Forest (Conservation) Act, 1980 and	Forest Clearance will be required anywhere outside the PA, only if forest land is involved and proposed activity is for non-forestry use, as per provisions of Forest (Conservation) Act, 1980 and Rules and guidelines made there under, irrespective of the notified limits/default limits of ESZ/ESA.	Forest Clearance will be required anywhere outside the PA, only if forest land is involved and proposed activity is for non-forestry use, as per provisions of Forest (Conservation) Act, 1980 and Rules and guidelines made there under, irrespective of the notified limits/default limits of ESZ/ESA.

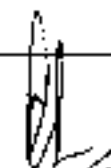

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<p>Consideration by the National Board of Wild Life/Standing Committee of the National Board for Wild Life (NBWL/SCNBWL)</p>	<p>Rules and guidelines made there under.</p> <p>Projects/activities proposed to be located within notified ESZ/ESA shall be regulated and governed by the concerned ESZ Notification.</p> <p>Accordingly, activities prohibited under the ESZ Notification shall not be undertaken.</p> <p>Whereas, regulated and other activities proposed within notified ESZ around National Park or Sanctuary shall require consideration by the NBWL/SCNBWL, if such activity is</p>	<p><u>Project/Activity covered under the schedule of EIA Notification, 2006 and located within 10km of National Park or Sanctuary shall require consideration by the NBWL/SCNBWL.</u></p>	<p>Approval of NBWL/SCNBWL is mandatory if the project/activity is proposed to be located in an area which forms part of a Tiger Reserve or area linking one PA or Tiger Reserve as per section 380(1)(g) of the Wild Life (Protection Act, 1972).</p>
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	covered under the Schedule of EIA Notification, 2006.	
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In the light of the judgement cited above and MoEF&CC Office Memorandum vide FC-11/119/2020-FC Dated 17.05.2022, it is ascertained that for Project/Activity outside PA wherein ESZ is not notified or ESZ Notification is at draft stage and covered under the schedule of EIA Notification, 2006 and located within 10km of National Park or Sanctuary shall require consideration by the NBWL/SCNBWL.

Hence, based on the above facts and documents furnished, SEAC is of the opinion that

1. As per the clarification letter issued by PCCF&CWV vide Ref. No. WL5/10867/2023 Dated: 20.04.2023 Dated: 20.04.2023, it is ascertained that Eco Sensitive Zone notification proposal for Anamalai Tiger Reserve had been sent to Government of India on 16.04.2018 and 05.12.2022.
2. Hence, Anamalai Tiger Reserve comes under National Park or Wildlife Sanctuary where ESZ is not notified or ESZ Notification is at draft Stage which clearly attracts the provisions contained under para 5 of the Office Memorandum vide FC-11/119/2020-FC Dated 17.05.2022.

In the light of the above, SEAC deduced that (1) the earlier decision of SEAC is reiterated and (2) SEIAA may take it up with Principal Chief Conservator of Forests and Chief Wildlife Warden regarding the direction given to the proponent to withdraw the online NBWL proposal (Proposal No. FP/TN/QRY/6691/2022), where the MoEF & CC Office Memorandum Dated: 17.05.2022 clearly mandates that those project/activity which are located within 10 Km of National Park or Sanctuary shall require consideration by NBWL/SCNBWL wherein ESZ is not notified or ESZ Notification is at draft stage.

Agenda No: 383-07

(File No: 9286/2022)

Proposed Black Granite Quarry lease over an extent of 2.11.0 Ha at S.F.Nos. 203/1B (Part), 204/2B (Part) and 206/1B of Periyagoundapuram Village, Vazhapadi Taluk, Salem District, Tamil Nadu by Thiru. M. Ponnambalam - For Environmental Clearance. (SIA/TN/MIN/274479/2022 Dt. 24.05.2022)


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The proposal was placed in 383rd SEAC meeting held on 15.06.2023. The details of the project furnished by the proponent are given in the website (parivesth.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. M. Ponnambalam has applied for Environmental Clearance for the proposed Black Granite Quarry lease over an extent of 2.11.0 Ha at S.F.Nos. 203/1B (Part), 204/2B (Part) and 206/1B of Periyagoundapuram Village, Vazhapadi Taluk, Salem 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. Earlier, the proposal was placed in the SEAC meeting held on 01.09.2022.

Based on the presentation made by the proponent, SEAC decided to call for additional details

1. The proponent is requested to furnish the DFO letter stating the proximity distance from nearest RF, WLS etc., within 25 KM radius distance
 2. The proponent must submit the certified compliance report.
 3. The proponent is requested to carry out a survey and enumerate on the structures located within 50m, 100m, 200m and 300m from the boundary of the mine lease area.
4. Subsequently, the proposal was placed in the 553rd Authority meeting held on 21.09.2022. Further, Authority decided to call for details in addition to SEAC
 1. Impact of mining on Agriculture and horticulture.
 2. Will the activity of mining jeopardise farming activity and animal husbandry.
 3. As per the G.O. (3D) No.19 Dated: 16.04.2015 – Grant of Mine Lease under Para 4 sub point 3) The applicant should not do blasting for quarrying so that there will be no damage to the E.B. line passing nearby. Only chisel and wire saw should be used for granite cutting. Further, the proponent had submitted in Hard copy along with the approved mining plan as annexure XV under the heading "Blasting Work Contract Agreement 22nd Day of September 2020".


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The proponent is requested to furnish the details regarding the reason for signing blasting contract.

In view of this, the Authority decided to accept the decision made by SEAC and decided to request the Member Secretary, SEIAA to communicate the minutes of 308th SEAC meeting to the project proponent.

5. Subsequently, the proposal was placed in the 368th SEAC meeting held on 19.04.2023. Based on the documents & presentation made by the PP, SEAC decided to defer the proposal for want of following details.

The proponent shall submit the certified compliance report from the IRO, MoEF & CC, Chennai for the earlier EC obtained.

6. Subsequently, the proposal was placed in the 615th Authority meeting held on 08.05.2023 & 09.05.2023. In the view of the above, SEIAA accepts the decision of SEAC and decided to request Member Secretary to communicate the minutes of 368th SEAC held on 19.04.2023 to the project proponent.

Based on the reply furnished by the proponent, the proposal was again placed in 383rd SEAC meeting held on 15.06.2023. Based on the presentation and documents furnished by the project proponent, SEAC noted that

1. The Project proponent had submitted Certified Compliance Report obtained from IRO; MoEF&CC vide EP/12.1/2023-24/SEIAA/24/TN/719 Dated: 14.06.2023 which states that

- i. *"... It is an open cast, semi-mechanised mining and is approved up to a depth of 6m. At present there are two pits situated within the lease area. The maximum depths of the two pits are 11m below ground level."*
- ii. Further, in 3. General Conditions of PART-III, under compliance status *"The PA has not obtained Consent to Establishment (CTE) and Consent to Operate (CTO) from Tamil Nadu Pollution Control Board."*

In the view of the above, SEAC decided to call for explanation/additional details with respect to:

- I. The existing pit depth which is greater than the approved depth in the earlier issued EC vide Lr. No. SEIAA-TN/F.No. 2728 /EC/1(a)/1788/2014 dated: 27.03.2015.


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- ii. The reason for not obtaining Consent to Operate from Tamil Nadu Pollution Control Board.

Upon the receipt of additional details, further deliberation shall be done.

Agenda No: 383-08

(File No: 9314/2022)

Proposed Rough Stone and Gravel Quarry lease over an extent of 2.65.5 Ha in S.F.Nos. 224/3A, 224/3B, 224/4A, 224/4B, 240/1B1, 240/1B2, 240/2A, 240/2B & 240/2C of Alapakkam Village, Nemill Taluk, Ranipet District, Tamil Nadu by Thiru. D. Mohanadoss - Environmental Clearance - Regarding, (SIA/TN/MIN/276834/2022, dated: 07.06.2022)


The proposal was placed for appraisal in the 383rd meeting of SEAC held on 15.06.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

SEAC noted the following:

1. The Project Proponent, Thiru.D. Mohanadoss, has applied for Environmental Clearance for the proposed Rough Stone and Gravel Quarry lease over an extent of 2.65.5 Ha in S.F.Nos. 224/3A, 224/3B, 224/4A, 224/4B, 240/1B1, 240/1B2, 240/2A, 240/2B AND 240/2C of Alapakkam Village, Nemili Taluk, Ranipet 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 first 5 years. The total production for 5 years not to exceed 2,07,460m³ of rough stone, 71,120 m³ of Gravel and 16,214 m³ with ultimate depth of 20m BGL.
4. Earlier the proposal was placed in 314th SEAC meeting held on 23.09.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for additional details as given below:
 1. As per the land use classification, the proposed mine lease area falls under the "Nanjai Land" category. Hence the PP shall get the land


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classification changed from 'Punjai' to 'industrial use'.

2. As per the provisions contained in Tamil Nadu Change of Land Use (From Agriculture to Non-agriculture Purposes in Non-planning Areas) Rules, 2017, agriculture land in the state cannot be used for the development purpose, without the consent of the concerned designated local authority (Municipality / Town Panchayat / Village Panchayat) in which the land is situated.
3. Hence, the proponent is requested to submit the aforesaid permission obtained from the Competent Authority.
4. Further, from the KML file uploaded in the online through Parivesh Portal, it is ascertained that a well exists within the lease area. Hence, the proponent is requested to submit the details regarding
 - i. The current status of the well
 - ii. The Depth of Water level in the well
 - iii. Whether the well is in use for agricultural activities?

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

5. Subsequently, the proposal was placed in 560th SEIAA meeting held on 17.10.2022.


In addition to the above queries, the proponent shall submit the following details

1. From the KML file uploaded by the proponent through online in Parivesh Portal, it is ascertained that the project can result in onsite and offsite ecological damage.

Hence, the proponent may submit the following details

- (i) Impact on agricultural lands nearby
- (ii) Impact on water table, watershed
- (iii) Impact on biodiversity.

In view of the above, SEAC shall examine the above-mentioned queries in addition to the queries raised by SEAC. Hence, Authority decided to request the Member Secretary, SEIAA to communicate the minutes to


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the project proponent.

File No	9314/2022	Category	B2
	276834/2022		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. D. Mohanadoss S/o. Dhananchezian No.151, Big Street Thenkadapanthangal village, Walajah Taluk, Ranipet District - 631004.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel Quarry
3.	S.F Nos. of the quarry site with area break-up	:	224/3A, 224/3B, 224/4A, 224/4B, 240/1B1, 240/1B2, 240/2A, 240/2B & 240/2C
4.	Village in which situated	:	Alapakkam
5.	Taluk in which situated	:	Nemili
6.	District in which situated	:	Ranipet
7.	Extent of quarry (in ha.)	:	2.65.5 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	12°56'52.07"N to 12°59'57.16"N 79°30'43.16"E to 79°30'49.58"E
9.	Topo Sheet No.	:	57- P/09
10.	Type of mining	:	Opencast Semi-Mechanized Mining
11.	Life of Project	:	10 years
	Lease Period	:	10 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan As modified by SEAC


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	Geological Resources m ³ (RoM)	:	Rough stone 11,89,170m ³ Gravel 1,05,704m ³	Rough stone . Gravel .
	Mifiable Resources m ³ (RoM)	:	Rough stone 2,07,460m ³ Gravel 71,120m ³	Rough stone - Gravel .
	Annual Peak Production in m ³	:	Rough stone 42,925m ³ Gravel 35,560m ³	Rough stone . Gravel .
	Ultimate Pit Depth in meters	:	50m BGL	.
13.	Depth of water table	:	65m in rainy season & 68m in summer season	
14.	Man Power requirement per day:	:	25 Nos	
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	3.0 KLD 1.0 KLD 1.0 KLD 1.0 KLD	
16.	Power requirement	:	TNEB	
17.	Precise area communication approved by the Assistant Director (i/c), Department of G&M.	:	Rc.No. 86/2021(Mines), Dated: 18.04.2022	
18.	Mining Plan approved by Assistant Director (i/c), Department of G&M.	:	Rc.No. 86/2022(Mines), Dated: 04.05.2022	


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	the land classification changed from punjai to 'industrial use'	Agriculture. District Collector, Ranipet has given NOC for using 2.65.5 ha of Nanjai land for non-agricultural purposes (carrying out rough stone and Gravel mining) and the same is given vide Encl - 1.
2	As per the provisions contained in Tamil Nadu Change of Land Use (From Agriculture to Non-agriculture Purposes in Non-planning Areas) Rules, 2017, agriculture land in the state cannot be used for the development purpose, without the consent of the concerned designated local authority (Municipality / Town Panchayat / Village Panchayat) in which the land is situated.	Copy of the resolution passed by Chairman Allapakkam uratchi mantram is given vide Encl - 2.
3	Hence, the proponent is requested to submit the aforesaid permission obtained from the Competent Authority	
4 i.	The current status of the well	There is a well of about 8m depth within the lease area. It is dry abandoned and unused.
4ii.	The Depth of Water level in the well	
4 iii.	Whether the well is in use for agricultural activities	(Photograph enclosed Encl - 3)
SEIAA Query Reply		
In addition to the above queries, the proponent shall submit the following details:		
1 (i)	Impact on agricultural lands nearby	<ul style="list-style-type: none"> • he entire lease area is totally barren with few grasses only. • Lease area and its southern part is slightly on the higher elevation sloping towards North , NE. Agricultural activities are carried out further north and north east of the lease area that too in patches away from the lease area based on the monsoon rainfall. This can be
1(ii)	Impact on water table, watershed	


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1(ii) Impact on biodiversity

established through Google map Figure No - 1 to 5 for different years covering 1km Radius).

- Since the elevation in the NE side beyond the tank (> 1km from the lease area) is on the lower side and part of the tank in this side hold for water after monsoon for prolonged period, rainfed agricultural activity is carried out in its nearby tank area only.
- Agricultural activity is almost absent in the southern side of the lease area probably due to higher elevation rocky nature.
- From the discussion with locals, it is observed that agricultural activities are almost absent in most of the areas due to poor soil quality, inconsistent rainfall, non availability of water, high labor cost, nonavailability of manpower, less yield and poor economics. Only in few patches that too away from the lease area it is carried out.
- This being the rough stone quarry project mainly boulders are only produced. As such finer dust generation will be very less and there will not be any appreciable impact due to dust generation.
- As far as transportation of mineral is concerned, it will be done through the connecting road on the southern side only.
- The production from this lease is also less and the peak annual production of rough stone is 42, 925m³ only (year 5) only. As such the number of equipment's to be used to achieve this production is very less and the magnitude of operation is of small level.
- Certified vehicles with low carbon emissions will only be used. These equipment's will be properly and regularly


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maintained. Besides, regular vehicular emission tests will be done for the transport vehicles to ensure minimal impact due to carbon emissions.

- It will be ensured that mining will be carried out adhering to all the statutory rules and regulations, appointing statutory personnels like qualified mines manager, blaster, informing DGMS before commencement of mining operations.
- More emphasize will be given for maintaining the environmental quality within the prescribed standards by effective implementation of various mitigative measures like carrying out systematic & scientific mining, regular wetting of transport roads by water sprinkling, proper maintenance of road, machineres to be deployed, closing of mineral transport truck by tarpalin, wet drilling, controlled blasting etc.
- As such loss of Agriculture, or any adverse impact on the agricultural pattern in the nearby region is not envisaged.
- Further good greenbelt and plantation plan has been planned wherein 1350 number of plants will be planted in and around the lease area. Besides, tin sheet of 10 to 12 ft high will be erected all around the lease area to prevent any propagation of dust and effect on surrounding environment.


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(ii)	Impact on water table, watershed	<ul style="list-style-type: none"> • The Main drainage / water shed of the region is controlled by Palar river located 8.2km on SW side. Since the lease area and its surrounding area is of gently sloping type sloping towards NE, based on the local topography the local micro water sheds are formed. • The drainage channel in the south east and north of the lease area controls the micro water shed of the proximate lease area. The drainage channel in the south is of first order type originating nearby and local only leading to kamavoor tank located 1.4km North east side. The other channel is located 710m on the northern side connecting local kuttal on the north west to kamavoor tank on the north east. Water storage in the small western part of Alapakkam tank is observed. These drainage channel remain dry mostly. • Since the lease area is a flat terrain and slightly on the higher elevation when compared to NE side which is at lower elevation, this does not form part of main catchment area and it is easy to effectively control the monsoon rains through proper drainage arrangements for effective rain water management • Direct rain fall will be collected in the mine floor sump. Mine sump capacity shall be 77.5mx71mx0.9m proposed. Water from sump will be pumped to settling pond for down stream users. • Rainwater from the mine periphery will be collected through peripheral garland drain - 450m x 1m x 0.6m proposed. • Garland drain will be connected to a settling pond of 2.0M X 2.0M X 2.0M size and 8.0m³ capacity to be
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constructed in the SE corner of the lease area.

- Supernatant clear water from settling pond will be let out to downstream users through the tank.
- As far as water table is concerned, the water in the local wells are available mainly after monsoon rains and it become dry during summer. Bore wells are as deep as 280 ft reflects that the yield is only better at deeper levels.
- Resistivity survey conducted in the area show that the Water table is found at a depth of 68m below general ground level. The ultimate depth of mining in this lease is 50m Below Ground Level.
- The occurrence and movement of groundwater in hard rock formations are restricted to the porous zones of weathered formations and the open systems of fractures, fissures and joints. Generally, in hard rock regions, occurrence of weathered thickness is discontinuous both in space and depth. Hence recharge of groundwater in hard rock formations is influenced by the intensity and depth of weathering. In the nearby region, the formations are compact with less intergranular porosity and fractures leading to less permeability and transmissivity values and as such the ground water level in this area is deep from surface. The mining area consists of hard compact rock, hence no major water seepage within the mine is expected from the periphery. The ultimate pit depth of mining is 50m Below Ground Level. The ground water table in this area is much below this level. Hence, ground water intersection is not envisaged for the entire life of the mine and ground water will not be affected due to the quarrying operation. As mentioned earlier, the rainfall will be collected in the mine floor sump and advantageously used. Excess water if any in the sump will be pumped to settling pond for downstream users.

As such significant impact on water table is not expected


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I(iii)	Impact on biodiversity	<ul style="list-style-type: none"> • Entire lease area of 2.65.50 ha is a private patta land owned by applicant (Figure no 1). Lease area is a plain terrain mostly barren with and intermittent thorny shrubs, herbs, grasses and some short trees. Dominant species are Prosopis juliflora, Acacia nilotica, Lantana camara. There are no rare, endangered, threatened (RET) species in the lease area and the lease area is not rich in bio diversity. Due to less species diversity in lease area and tree species are common in the periphery of the lease area, no impact on the species diversity is envisaged. Though the few trees of (10 nos of Pungai, Vagai, Pannamaram, Karuvelan trees) observed within the lease area are not matured & transplantable, all efforts will be made for rehabilitation of the trees and Rs 50,000 is allotted in the EMP budget for transplantation purposes. • The biodiversity study of the project impact zone covering an area of 1km is carried out. • (Refer Figure no 8) . The 1km study area is of varying type comprising vacant plain land on the southern side and some patches of agricultural activity in North and North eastern side. • The study area comprises of 16 species of trees followed by 10 species of shrubs, 14 species of herbs, 3 species of climber, 4 species of plantation and 2 species of grasses. Dominated species Mangifera indica, Borassus flabelliformis, Acacia nilotica etc are recorded in the study area. • There are no rare, endangered, threatened (RET) species in the study area and the area is not rich in bio diversity. Due to less species diversity in area which are common in
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the area, by adoption systematic and scientific mining adopting all the environmental protection measures like green netting around the lease area, wet drilling, dust sprinkling on transport road, plantation in and around the lease area, provision of tyre washing facility, proper maintenance of mineral transport roads, avoiding over loading of trucks/tippers, adopting controlled blasting, no impact on the existing vegetation is envisaged

- From the study, it is observed that there are no rare, endangered, threatened (RET) species in the study area and the area is not rich in bio diversity. Besides, proponent has already committed to carryout additional plantation.
- This is a plain lease area owned by proponent. By adoption systematic and scientific mining adopting all the environmental protection measures no impact on the regional Bio diversity is envisaged.

Based on the reply furnished by the proponent, the proposal was again placed in 383rd SEAC meeting held on 15.06.2023. Based on the presentation and documents furnished by the project proponent, after detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 2,07,460 m³ of rough stone & 71,120 m³ of gravel with maintaining an ultimate depth of 50 m Below ground level and the annual peak production not exceeding 42,925m³ of rough stone & 35,560 m³ of Gravel, 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.


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- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall ensure that all the persons employed in the mine undergo the vocational training in the DGMS approved CVTC located in Hosur (or) Salem before the execution of lease.
- 6) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 7) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8) 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.
- 9) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 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 should be adopted by considering the wind direction.


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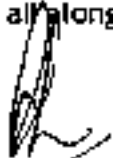
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- 11) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/Local body/AD - Mines.
- 13) Perennial maintenance of haulage road/Village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14) Perennial sprinkling arrangements 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.
- 15) 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 are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 16) 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.
- 17) 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. 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.
- 18) 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


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boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.

- 19) **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.
- 20) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 21) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 22) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 23) However, the PP shall carry out the scientific studies to design the controlled blasting parameters to minimise the blast-induced ground / air vibrations and to control the fly rock within one year from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai- CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 24) 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


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boundary of the quarry. 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.

25) 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.

26) As the existing mine is properly not benched, the PP shall carry out the scientific studies to assess the slope stability of the quarry wall and benches within one year from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

27) 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 as per the Environmental Management Plan & the approved Mine Closure Plan.

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


29) 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.

30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.



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- 31) 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.
- 32) 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.
- 33) 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.
- 34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35) 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.
- 36) 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.
- 37) All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.


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38) 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.

39) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

40) 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.

41) 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.

42) As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the Panchayat union Primary School, Tatchanpattarai Village before obtaining CTO from TNPCB.

Agenda No: 383 - 09

(File No: 9785/2023)

Proposal seeking environmental clearance for the Proposed Expansion and Amendment of Construction of IT Park Building in S.No.117, Plot No. H-6 (B45 & B46), SIPCOT IT Park, Sinsuri Village, Vandalur Taluk, Chengalpet District, Tamil Nadu by M/s. Capgemini Technology Services India Limited applied under Category "B" of item 8(a) Building and Construction projects, Tamil Nadu (SI/TN/INFRA2/416443/2023 Dated: 31.01.2023)

The proposal was placed in 358th SEAC meeting held on 24.02.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).


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The SEAC noted the following:

1. The Project Proponent, M/s. Capgemini Technology Services India Limited has applied for Environmental Clearance for the Proposed Expansion and Amendment of Construction of IT Park Building in S.No.117, Plot No. H-6 (B45 & B46), SIPCOT IT Park, Siruseri Village, Vandalur Taluk, Chengalpet 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 77606.41 Sq.m & the total built-up area after expansion is 1,29,776.85 Sq.m.
4. Earlier the proposal was placed in 358th SEAC meeting held on 24.02.2023. Based on the presentation and document furnished by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance.
5. Subsequently, the proposal was placed in 604th SEIAA meeting held on 27.03.2023.

The Authority after detailed deliberation, decided to call for additional details

1. The proponent is requested to submit the completion certificate obtained from competent authority for the earlier constructed building.
2. The proponent is requested to submit consent to operate obtained from TNPCB after the commencement of operation.
3. The proponent is requested to submit the Certified Compliance Report obtained from Integrated Regional Office (IRO), MoEF&CC for the earlier issued EC dated: 19.09.2008.
4. Further, in the earlier obtained EC issued, para 2 states that

"... the project involves construction of an IT Park on a plot area of 1,09,900 Sq.m. The total built-up area proposed is 87,825.28 Sq.m."

The proponent is requested to clarify the following

- i. As per the earlier EC issued, plot area is 1,09,900 Sq.m and subsequently, in the proposal the proponent has mentioned plot area as 77606.41 Sq.m.


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The ambiguity in the plot area shall be clarified. If there is any change in the plot allotted shall also be clarified.

- ii. In the Consent to Operate obtained from TNPCB vide Consent Order No. 2104233458536 Dated: 25.10.2021, Page No.3, under Special Conditions,

SPECIAL CONDITIONS

- i. This consent to operate is valid for operating the facility for the manufacture of products (Cat. 2) at the rate (Col. 3) mentioned below. Any change in the products and its quantity has to be brought to the notice of the Board and fresh consent has to be obtained.

Sl. No.	Description	Quantity	Unit
Project Details			
1.	Software Development complex with total built up area of 29741.91 sq.m	0	0
By-Product Details			
1.	NIL	0	0
Intermediate Product Details			
1.	NIL	0	0

Built-up area for which Consent to operate issued was 29,741.91 Sq.m. Subsequently, the proponent has mentioned in the proposal that existing built up area is 39,197.2 Sq.m.

Hence, the proponent is requested to clarify.

Upon the receipt of aforesaid details, further deliberation shall be done.

6. Upon the receipt of the reply furnished by the proponent, the proposal was again placed in the 610th Authority meeting held on 11.04.2023.

Based on the document furnished by the proponent for the queries raised by SEIAA in its 604th SEIAA meeting, Authority noted that

1. The proponent had earlier obtained Environmental Clearance from MoEF&CC vide 21-890/2007-IA.III Dated: 19.09.2008 in the name of M/s. Patni Computers Limited in the plot No. H-6 which states that
"... project involves construction of an IT Park on a plot area of 1,09,900 sq.m. The total built-up area proposed is 87,825.28 sq.m."
2. The proponent had obtained completion certificate from DTCP, Thirupurur vide Rc.No.1829/2020 Dated: 07.10.2020.


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3. The proponent has obtained CTO from TNPCB vide consent order no. 2104233458536 Dated: 25.10.2021.
4. The proponent had obtained Certified Compliance Report from Integrated Regional Office (IRO), MoEF&CC vide E.P./12.1/763/TN/231 Dated: 24.02.2023.
 - i. Monitoring Report states that under Part I, Data Sheet,
 - > S.No.7 Breakup of the project area
 - a) Project area – 87.825.28 Sq.m. (Built up area)
 - > S.No.12 Status of construction
 - a) Date of Commencement – 19.07.2012
 - b) Date of completion (actual or planned) – On Going.


ii. Under Part III, B. General Conditions, S.no. iii,

<p>Six monthly monitoring reports should be submitted to the Ministry and It's Integrated Regional Office, Chennai</p>	<p>Refer Below.</p> <p><u>The PA has not submitted six monthly compliance reports (except only one period i.e., December, 2022)</u> on the status of conditions in the stipulated Environmental Clearance conditions along with the monitored data to the Integrated Regional Office of MoEF&CC, Chennai.</p>
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In the view of the above facts, as per EIA Notification 2006, Para 9. Validity of Environmental Clearance (EC) states that "...The "Validity of Environmental Clearance" is meant the period from which a prior Environmental Clearance is granted by the regulatory authority, or may be presumed by the applicant to have been granted under sub-paragraph (iv)


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of paragraph 7, to the start of production operations by the project or activity: or completion of all construction operations in case of construction projects relating to item 8 of the Schedule, to which the application for prior environmental clearance refers. The prior environmental clearance granted for a project or activity shall be valid for a period of ten years in the case of River Valley projects (item 1(c) of the schedule), project life as estimated by Expert Appraisal Committee or State Level Expert Appraisal Committee subject to a maximum of thirty years for mining projects and five years in the case of all other projects and activities”

Based on the above extract from EIA Notification 2006, validity of Environmental Clearance issued for construction project, is for 5 years from the date of issue of EC. Hence, as per the EC issued by MoEF&CC vide 21-890/2007-IA.III Dated: 19.09.2008 expires on 18.09.2013.

Subsequently, based on the documents furnished by the proponent, it is ascertained that the proponent had obtained completion certificate in the year 2020 and further in the Certified Compliance report obtained from IRO, MoEF&CC it has been stated that construction activity was started in 19.07.2012 and Date of completion as On Going.

Based on the above documents furnished by the proponent and facts, following may be clarified by the proponent

- i. The actual date of completion of the construction activity for the earlier issued Environmental Clearance by MoEF&CC vide 21-890/2007-IA.III Dated: 19.09.2008 shall be furnished.
- ii. The proponent shall submit details regarding if any construction activity was carried out after 18.09.2013.
- iii. If any extension of validity of earlier issued Environmental Clearance was submitted at MoEF&CC/SELAA-TN. If so, the details of the status of the application made shall be furnished.
- iv. The proponent shall furnish the reason for obtaining completion certificate only in the year 2020.


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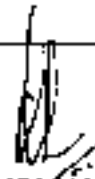

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- v. As per the site inspection carried out on 17.02.2023 by IRO, MoEF&CC it is ascertained that "Date of Completion (actual or planned): On-Going". Hence, the proponent is requested to clarify if any construction activity is currently on-going.
- vi. As per the completion certificate issued by the competent authority dated: 07.10.2020, built up area was 29,741.91 Sq.m. Subsequently, in the CCR issued by MoEF&CC, Built-up area of the project is mentioned as 87,825.28 Sq.m. Hence, the proponent may be requested to clarify if any construction activity was carried out after obtaining completion certificate from the competent authority.

In the view of the above, Authority decided to refer back the proposal to SEAC to examine the documents furnished by the proponent viz Completion certificate obtained from competent authority and Certified Compliance Report obtained from IRO, MoEF&CC and shall furnish its recommendation to SEIAA taking into consideration, the applicability of validity of Environmental Clearance as per EIA Notification 2006 to take further course of action.

S.No	Query	Reply
1	The actual date of completion of the construction activity for the earlier issued Environmental Clearance by MoEF & CC vide 21-890/2007-IA.III Dated 19.09.2008 shall be furnished	<ul style="list-style-type: none"> > The entire building's construction was completed at 2010. > The building commenced its operation from 2012.
2	The Proponent shall submit details regarding if any construction activity was carried out after 18.09.2013.	> There was no construction activity carried out after 18.09.2013.


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3	If any extension of validity of earlier issued Environmental Clearance was submitted at MoEF & CC/SEIAATN. If so, the details of the status of the application made shall be furnished.	<ul style="list-style-type: none"> ➤ There is no extension of validity obtained for Earlier Issued Environmental Clearance.
4	The Proponent shall furnish the reason for obtaining completion certificate only in the year 2020.	<ul style="list-style-type: none"> ➤ The construction was completed in 2010. The company was owned by M/s. Patni Computer Systems Ltd. ➤ The DTCP has made mandatory for completion certificate only after 2018 for the projects under DTCP limit vide G.O. (Ms). No.53 dated 16.04.2018 (Enclosed) ➤ At 2019, Capgemini Technology has applied for Consent to Operate (CTO). Completion Certificate was asked by TNPCB Officials and also TNPCB Officials asked the organization to upgrade the Sewage Treatment Plant (STP) after the site inspection. ➤ Capgemini had replaced the old Sewage Treatment Plant (STP) with new model of Membrane Bio Reactor (MBR) type with the capacity of 150 KLD In cost of Rs. 1.65.95.000/- & commenced the operation of Sewage Treatment Plant. ➤ At 2020, Capgemini Technology again approached DTCP and applied


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		for Completion Certificate for the purpose to submit in TNPCB for obtaining Consent to Operate (CTO)
5	As per the site inspection carried out on 17.02.2023 by IRO, MoEF & CC, it is ascertained that "Date of Completion (actual or planned): On Going". Hence, the proponent is requested to clarify if any construction activity is currently ongoing.	➤ There was no construction activity carried out and there is no on-going construction activity.
6	As per the completion certificate issued by the competent authority dated 07.10.2020, built up area was 29,741.91 Sq.m. Subsequently, in the CCR issued by MoEF & CC, Built up area of the project is mentioned as 87,825.28 sq.m. Hence, the proponent may be requested to clarify if any construction activity was carried out after obtaining completion certificate from the competent authority	<p>➤ Built Up Area mentioned as 29741.91 Sq.m is only FSI Area as per the planning permit</p> <p>➤ As per Building Plan Approval, FSI Area is mentioned as 29741.91 sq.m. Non FSI Area is mentioned as 9455.29 sq.m. So, The Total Built Up Area was 39197.2 sq.m only. (29741.91 + 9455.29 sq.m = 39197.2 sq.m).</p> <p>➤ In CCR, the MoEF&CC has mentioned the EC approved built-up area as 87,825.28 Sq.m. not the constructed area.</p> <p>➤ There is no any construction activity carried after CC.</p>

Subsequently, based on the reply furnished by the proponent the proposal was again placed in 383rd SEAC meeting held on 15.06.2023. SEAC, after carefully examining the replies furnished by the proponent, decided to reiterate its recommendation already made in its 358th SEAC meeting held on 24.02.2023 with all the other conditions unaltered.


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Agenda No: 383-10

(File No.9688/2023)

Proposed rough stone quarry lease over an extent of 1.00.0 Ha in S.F.No. 279 (Part-2) of Chennasandiram Village, Krishnagiri Taluk, Krishnagiri District, Tamilnadu by Thiru.N.Chakravarthy - For Environmental Clearance. (SIA/TN/MIN/412306/2022 dated.28.12.2022)

The proposal is placed in this 383rd Meeting of SEAC held on 15.06.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.N.Chakravarthy has applied for the Environmental Clearance for the Proposed rough stone quarry lease over an extent of 1.00.0 Ha in S.F.No 279 (Part-2) of Chennasandiram Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of item I(a) "Mining of Minerals Project" of the Schedule to the EIA Notification,2006.
3. Environmental Clearance was Issued to the proponent vide Lr.No. SEIAA-TN/F.No.5243/I(a)/EC.No.3223/2016 dated 06.07.2016 with a validity of 5years.
4. Earlier, the proposal was placed in the 354th Meeting of SEAC held on 10.02.2023. During the meeting, the proponent claimed that he is entitled for an automatic extension as per the MoEF&CC notification dated 12.04.2022 and O.M dated 13.12.2022. SEAC noted that as per OM Dated 13.12.2022, Clarification on the amendment to EIA Notification 2006 issued vide S.O. No. 1807(E) dated 12.04.2022 with regard to validity of Environment Clearance, para 2, (i) & (ii) states that...

"(i) The validity of Environmental Clearances, which had not expired as on the date of publication of notification i.e. 12/04/2022, shall stand automatically extended to respective increased validity as mentioned at para no.1 column (C) above...."

(ii) The Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the


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EIA Notification 2006 as on the date of publication of Notification i.e., 12.04.2022 shall stand automatically extended to respective increased validity as mentioned at Para no. 1 column (C) above."

Based on the presentation made by the proponent, the SEAC decided to confirm that the proposal is entitled for 'automatic extension to the respective increased validity' as per the aforesaid OM Issued by the MoEF & CC subject to the following commitment made by the PP.

5. Subsequently, the proposal was placed in the 600th authority meeting held on 07.03.2023. The authority after detailed deliberations, decided to consider the proposal after obtaining the following details from the project proponent:

i) The project proponent shall submit a certified compliance report for the EC obtained earlier vide Lr.No. SEIAA-TN/F.No.5243/1(b)/EC.No.3223/2016 dated 06.07.2016.

6. The proponent vide letter dated.03.04.2023 submitted the Certified Compliance Report obtained from MoEFCC's Integrated Regional Office, Chennai. On receipt of the reply, the proposal is again placed in this 610th meeting of authority held on 11.04.2023.

During deliberations, the authority noted from the Certified Compliance Report that the project proponent has not complied with the following conditions of the EC issued earlier vide Lr. No. SEIAA-TN/F.No.5243/1(a)/EC.No.3223/2016 dated 06.07.2016.

i) PART-III - Condition nos. 1, 6, 21, 35, 40, 41, 43, 44, 50, 56, 59, 61.

In this regard, the authority, after detailed deliberations decided that:

- The proponent shall complete green belt development, fencing and also other applicable conditions as specified in earlier EC dated.06.07.2016.
- Since the proponent has submitted a scheme of mining plan, the committee shall furnish its remarks/recommendations on the quantity to be approved for extension.

In view of the above, the authority decided to refer back the proposal to SEAC.


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7. In this regard, the proposal is again placed in this 383rd SEAC meeting held on 15.06.2023.

The Committee noted that the proponent has submitted application on 28.12.2022 along with a scheme of mining for a period of 5 years from 2021-2026 for the quantity of 85.683m³ of rough stone upto a depth of 30m below ground level.

The Committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to reiterate its recommendation already made in the 354th Meeting of SEAC held on 10.02.2023. All other conditions stipulated in the earlier minutes will remain unaltered.

Agenda No: 383-II

(File No: 9695/2022)

Proposed Rough stone & Gravel quarry lease over an extent of 1.14.9 Ha in S.F.Nos 54/1B1A, 64/4B, 64/4D & 64/5B1 in Kulasekarankottai Village, Vadipatti Taluk, Madurai District, Tamilnadu by Thiru.M.K.Annadurai – For Environmental Clearance (SIA/TN/MIN/412099/2022 dated 28.12.2022)

The proposal is placed in this 383rd meeting of SEAC held on 15.06.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.M.K.Annadurai has applied for Environmental Clearance for the Proposed rough stone & gravel quarry lease over an extent of 1.14.9 Ha in S.F.No 54/1B1A, 64/4B, 64/4D & 64/5B1 in Kulasekarankottai Village, Vadipatti Taluk, Madurai District, Tamilnadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, the proposal was placed in the 365th meeting of SEAC held on 24.03.2023. Based on the presentation and details furnished by the project proponent, the committee after detailed discussions decided to consider the proposal after the receipt of the following details from the project proponent:


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

4. The proponent vide letter dated.12.05.2023 has furnished a reply to the above query raised by SEAC.

In view of this the proposal is again placed in this 383rd meeting of SEAC held on 15.06.2023.

5. The salient features of the proposal are as follows:

File No	9695		Category	1(a)
	SIA/TN/MIN/412099/2022			82
Sl. No	Salient Features of the Proposal			
1	Name of the Owner/Firm	:	Thiru.M.K. Annadurai, S/o. Kandeepan, Door No. 1-2-4/1, Thadampatti, Vadipatti Taluk, Madurai District – 625 218.	
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel Quarry	
3	S.F Nos. of the quarry site with area break-up	:	54/1B1A, 64/4B, 64/4D and 64/5B1	
4	Village in which situated	:	Kulasekarankottai	
5	Taluk in which situated	:	Vadipatti	
6	District in which situated	:	Madurai	
7	Extent of quarry (in ha.)	:	1.14.9 ha	
8	Latitude & Longitude of all corners of the quarry site	:	10°06'10.66"N to 10°06'17.73"N 77°57'39.93"E to 77°57'43.28"E	
9	Topo Sheet No.	:	5B F/16	
10	Type of mining	:	Opencast Mechanized Mining Method.	
11	Life of Project	:	10 years	


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	Lease Period	10 years
	Mining Plan Period	10 years
	Mining Plan Details	As per approved Mining Plan
		As modified by SEAC
	Geological Resources m ³ (RoM)	Rough Stone - 2,29,800m ³
		Gravel - 22,980m ³
		Rough Stone - 2,29,800m ³
		Gravel - 22,980m ³
12	Minable Resources m ³ (RoM)	Rough Stone - 80,650m ³
		Gravel - 13,650m ³
		Rough Stone - 80,650m ³
		Gravel - 13,650m ³
	Annual Peak Production in m ³	Rough Stone - 9450 m ³
		Gravel - 9558m ³
		Rough Stone - 9450 m ³
		Gravel - 9558m ³
	Maximum Depth in meters	22m (2m Gravel + 20 Rough Stone) below ground level
		22m (2m Gravel + 20 Rough Stone) below ground level
13	Depth of water table	56m-61m
14	Man Power requirement per day:	16 Nos.
15	Water requirement: 1. Drinking water & Domestic Purpose 2. Dust suppression 3. Green belt	1.6 KLD 0.5 KLD 0.3 KLD 0.8 KLD
16	Power requirement	36056 Liters of HSD will be Utilized for the entire project life.
17	Precise area communication approved by the Deputy Director, Dept. of G&M with date	Rc.No:52/Mines/2021. Dated: 01.10.2021.


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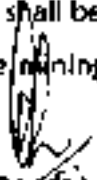
18	Mining Plan approved by the Deputy Director, Dept. of Geology and Mining with date	Roc.No:52/Mines/2021, Dated: 03.11.2021.													
19	500m duster letter issued by the Deputy Director, Dept. of Geology and Mining with date	Roc.No:52/Mines/2021, Dated: 20.01.2022.													
20	VAO Certificate Regarding Structures within 300m Radius	Letter dated: 03.02.2022.													
21	Project Cost (excloding EMP cost)	Rs.24.81.000/-													
22	EC Recommendation	Validity	30 years subject to the following upper limits.												
			<table border="1"> <thead> <tr> <th></th> <th>Rough Stone</th> <th>Gravel</th> </tr> </thead> <tbody> <tr> <td>Max Total ROM in m³</td> <td>80.650</td> <td>13.650</td> </tr> <tr> <td>Annual Max ROM in m³</td> <td>9450</td> <td>9558</td> </tr> <tr> <td>Max Depth in mtrs</td> <td>20m</td> <td>2m</td> </tr> </tbody> </table>		Rough Stone	Gravel	Max Total ROM in m ³	80.650	13.650	Annual Max ROM in m ³	9450	9558	Max Depth in mtrs	20m	2m
			Rough Stone	Gravel											
		Max Total ROM in m ³	80.650	13.650											
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Max Depth in mtrs	20m	2m													
Max Total ROM in m ³	80.650	13.650													
Annual Max ROM in m ³	9450	9558													
Max Depth in mtrs	20m	2m													
23	EMP cost (in Rs. Lakh).	Capital Cost - 21,59,230/- Operating Cost - 13,37,558/-													
24	CER cost (in Rs. Lakh).	Rs.5,00,000/-													

Based on the presentations & detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 80,650m³ of rough stone & 13,650m³ of gravel by maintaining an ultimate depth of 22m Below ground level and the annual peak production not exceeding 9450m³ of rough stone & 9558m³ of gravel, subject to the standard 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) Since the structures not belonging to the owner are situated within 300 m from the quarry lease boundary, the PP shall obtain necessary permission to carry out the blasting operation from the Director of Mines Safety, Chennai Region under the provisions of MMR-1961, before the execution of the lease.
- 3) The proponent shall erect high metal sheet fencing around the project site such that there will be no disturbance to the people/habitations situated in the vicinity of the project area.
- 4) The proponent shall develop a thick greenbelt, especially on the eastern side of the project area, with a minimum of three rows of plantations preferably with Bamboo (*Bambusa vulgaris*) to mitigate dust and noise pollution.
- 5) The proponent shall carry out scientific studies on design of controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock in the proposed quarry, within six months from the commencement of mining operations by involving any of these reputed Research and Academic Institution - 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, and DMS, Chennai as a part of Environmental Compliance.
- 6) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 7) 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.
- 8) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous


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Mines Regulations, 1961, as amended from time to time before the execution of the lease.

- 9) The PP shall ensure that all the persons employed in the mine undergo the vocational training in the DGMS approved CVTC located in Trichy before the execution of lease.
- 10) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 11) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 12) 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.
- 13) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 14) 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 should be adopted by considering the wind direction.
- 15) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 16) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.


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- 17) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 18) Perennial sprinkling arrangements 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.
- 19) 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 are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 20) 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.
- 21) 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. 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.
- 22) 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.
- 23) 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.


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(ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.

- 24) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 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.
- 25) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 26) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 27) 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. 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.
- 28) 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.
- 29) 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 as per the Environmental Management Plan & the approved Mine Closure Plan.
- 30) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.


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- 31) 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.
- 32) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 33) 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.
- 34) 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.
- 35) 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.
- 36) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 37) 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.

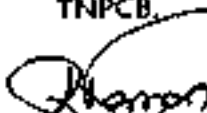

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- 38) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 39) 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.
- 40) 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.
- 41) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 42) 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.
- 43) 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.
- 44) As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Middle School, Kulasekarankottal, Vadipatti Taluk, Madurai before obtaining CTO from

TNPCB.


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Agenda No: 383-12

(File No: 9246/2022)

Proposed Rough Stone and Gravel quarry lease over an extent of 1.00.0 Ha at S.F.Nos.133/1A2 (P) & 133/1B (P) of Thensangampalayam Village, Anaimalai Taluk, Coimbatore District, Tamil Nadu by Thiru. N.Mahalingam – For Environmental Clearance. (SIA/TN/MIN/270509/2022 dated:09.05.2022)

Earlier, this proposal was placed in 301st Meeting of SEAC held on 06.08.2022. 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. N.Mahalingam has applied for Environmental Clearance for the proposed Rough stone and Gravel quarry lease over an extent of 1.00.0 Ha at S.F.Nos.133/1A2 (P) & 133/1B (P) of Thensangampalayam Village, Anaimalai Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 5 years, the total quantity of recoverable should not exceed 64,510 cu.m of Rough Stone and 13,172 cu.m of Gravel with an ultimate depth of mining is 17m (BGL)(2m Gravel + 15m Rough Stone). The annual peak production as per mining plan is 13,180 cu.m of rough stone (3rd year) & 5,624 cu.m of gravel (2nd year).


The PP has made the presentation and furnished the details in the Meeting. Based on the presentation & details furnished by the PP the SEAC decided to call for the following details.

1. Since the Anaimalai Tiger Reserve is located within 10km & its ESZ is yet to be notified, the PP shall obtain and submit NBWL Clearance.

Again the proposal was placed in 316th Meeting of SEAC held on 30.09.2022. The Committee noted that the PP was absent for the meeting and hence the PP shall furnish the reason for the same.


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Now the proposal was placed in this 359th Meeting of SEAC held on 02.03.2023. The Committee noted the PP has not submitted NBWL Clearance as stated in 301st Meeting of SEAC held on 06.08.2022. Hence SEAC decided that the PP shall furnish NBWL Clearance.

Now the proposal was placed in this 383rd Meeting of SEAC held on 15.06.2023.

Based on the presentation and document furnished by the proponent, SEAC noted that

4. The Principal Chief Conservator of Forests and Chief Wildlife Warden has issued clarification letter vide Ref. No. WLS/10867/2023 Dated: 20.04.2023 which states that

"...It is informed that as per the Hon'ble Supreme Court of India in its order dated 03-06-2022 in IA No. 1000 of 2003 states that the ESZ is already prescribed as per law that goes beyond one kilometer buffer zone, the wider margin as ESZ shall prevail. If such wider buffer zone beyond one kilometer is proposed under any statutory instrument for a particular National Park or Wildlife Sanctuary awaiting final decision in that regard, then till such final decision is taken, the ESZ covering the area beyond one kilometer as proposed shall be maintained. In this regard, the Eco Sensitive Zone notification proposal for Anamalai Tiger Reserve has been sent Government of India on 16-04-2018 and 05-12-2022. The proposed extent of Eco Sensitive Zone is various from 0 to 9.20 Kms and the same is under consideration.

Further it is informed that the as per reference 2nd cited, the proposed project is site is 5.75 Kms away from Anamalai Tiger Reserve and the project site is 4.33km away from the proposed Eco Sensitive Zone of Anamalai Tiger Reserve. Hence, the said project would not require wildlife clearance from the Standing Committee of National Board for Wildlife. You are requested to withdraw the online proposal 9 proposal No. FP/TN/QRV/5607/2021) already uploaded in PARIVESH web portal."

5. Subsequently, as per the judgement issued in the case of T.N. GODAVARMAN THIRUMULPAD vs UNION OF INDIA & OTHERS. WRIT PETITION (CIVIL) NO. 202 OF 1995 Dated: 26.04.2023, which states that under sub para (ii) of Para 66,


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...66. We also modify the directions contained in paragraph 56.5 of the order dated 3rd June 2022 (*supra*) and replace the same as under:

ii. We further direct that while granting Environmental and Forest Clearances for project activities in ESZ and other areas outside the Protected Areas, the Union of India as well as various State/Union Territory Governments shall strictly follow the provisions contained in the Office Memorandum dated 17th May 2022 issued by MoEF & CC.

6. Further, as per MoEF&CC Office Memorandum vide FC-11/119/2020-FC Dated 17.05.2022 issued regarding Clarification on Requirement of Various Environmental and Forest Clearances for Project/Activity in Eco-Sensitive Zone and Other Such Areas outside Protected Area, under para 5

Clearance Category	Project/Activity in Notified ESZ Around PA or in notified ESA	Project/Activity outside PA wherein ESZ is not notified or <u>ESZ Notification is at draft stage</u>	Project/Activity outside PA in area which is part of Tiger Reserve or linking one PA or Tiger Reserve to another PA or Tiger Reserve
Environmental Clearance (EC)	Project/Activity shall be regulated and governed by the concerned ESZ/ESA Notification. Accordingly, activities prohibited under the ESZ/ESA Notification cannot be undertaken.	For Project/Activity covered under the Schedule of EIA Notification, 2006: prior EC as per the prescribed procedure is mandatory.	For project/Activity covered under the Schedule of EIA Notification, 2006: prior EC as per the prescribed procedure is mandatory anywhere outside the PA.



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	<p>Whereas, for regulated and other activities in ESZ/ESA Notification covered under the Schedule of EIA Notification, 2006; prior EC as per the prescribed procedure is mandatory</p>	<p>anywhere outside the PA.</p>	
<p>Forest Clearance (FC)</p>	<p>Projects shall be regulated and governed by the concerned ESZ/ESA Notification. Accordingly, activities prohibited under the ESZ Notification cannot be undertaken. Whereas, for regulated and other activities: Forest Clearance will be required, only if forest land is involved and proposed activity is for non-forestry use, as per provisions of</p>	<p>Forest Clearance will be required anywhere outside the PA, only if forest land is involved and proposed activity is for non-forestry use, as per provisions of Forest (Conservation) Act, 1980 and Rules and guidelines made there under, irrespective of the notified limits/default limits of ESZ/ESA.</p>	<p>Forest Clearance will be required anywhere outside the PA, only if forest land is involved and proposed activity is for non-forestry use, as per provisions of Forest (Conservation) Act, 1980 and Rules and guidelines made there under, irrespective of the notified limits/default limits of ESZ/ESA.</p>


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	Forest (Conservation) Act, 1980 and Rules and guidelines made there under.		
Consideration by the National Board of Wild Life/Standing Committee of the National Board for Wild Life (NBWL/SCNBWL)	Projects/activities proposed to be located within notified ESZ/ESA shall be regulated and governed by the concerned ESZ Notification. Accordingly, activities prohibited under the ESZ Notification shall not be undertaken. Whereas, regulated and other activities proposed within notified ESZ around National Park or Sanctuary shall require consideration by the NBWL/SCNBWL, if such activity is covered under the	<u>Project/Activity covered under the schedule of EIA Notification, 2006 and located within 10km of National Park or Sanctuary shall require consideration by the NBWL/SCNBWL.</u>	Approval of NBWL/SCNBWL is mandatory if the project/activity is proposed to be located in an area which forms part of a Tiger Reserve or area linking one PA or Tiger Reserve as per section 380(1)(g) of the Wild Life (Protection Ad. 1972).


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	Schedule of EIA Notification, 2006.		
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In the light of the judgement cited above and MoEF&CC Office Memorandum vide FC-11/119/2020-FC Dated 17.05.2022, it is ascertained that for Project/Activity outside PA wherein ESZ is not notified or ESZ Notification is at draft stage and covered under the schedule of EIA Notification, 2006 and located within 10km of National Park or Sanctuary shall require consideration by the NBWL/SCNBWL.

Hence, based on the above facts and documents furnished, SEAC is of the opinion that

1. As per the clarification letter issued by PCCF&CWV vide Ref. No. WL5/10867/2023 Dated: 20.04.2023 Dated: 20.04.2023, it is ascertained that Eco Sensitive Zone notification proposal for Anamalai Tiger Reserve had been sent to Government of India on 16.04.2018 and 05.12.2022.
2. Hence, Anamalai Tiger Reserve comes under National Park or Wildlife Sanctuary where ESZ is not notified or ESZ Notification is at draft Stage which clearly attracts the provisions contained under para 5 of the Office Memorandum vide FC-11/119/2020-FC Dated 17.05.2022.

In the light of the above, SEAC decided that (1) the earlier recommendation of the Committee is reiterated and (2) SEIAA may take it up with Principal Chief Conservator of Forests and Chief Wildlife Warden regarding the direction given to the proponent to withdraw the online proposal (Proposal No. FP/TN/QRY/5607/2021), where Office Memorandum Dated: 17.05.2022 clearly mandates that those project/activity which are located within 10Km of National Park or Sanctuary shall require consideration by NBWL/SCNBWL wherein ESZ is not notified or ESZ Notification is at draft stage.

Agenda No: 383-13

(File No: 8273/2021)

Proposed Rough Stone, Jelly and Soil quarry lease area over an extent of 2.89.0 Ha at SF.No. 183 of Ramapuram Village, Agastheeswaram Taluk, Kanniyakumari District, Tamil Nadu by Tmt.S.Jeganakumari - For Environmental Clearance.(SIA/TN/MIN/191556/2021, dated: 25.01.2021).

The proposal was placed in 313rd Meeting of SEAC held on 22.09.2022. The details of the project furnished by the proponent are available in the website


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(www.parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Tmt.S.Jeganakumari has applied for Environmental Clearance for the Proposed Rough Stone, Jelly and Soil quarry lease area over an extent of 2.89.0 Ha at SF.No. 183 of Ramapuram Village, Agastheeswaram Taluk, Kanniyakumari 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.


Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain the following details.

1. The project proponent shall furnish documentary evidence from the concerned District Forest Officer showing the distance between the nearest R.F and the proposed quarry site.
2. The project proponent shall conduct a survey at a radial distance of 100m, 200m, 300 m and 500 m from the proposed quarry site and submit a detailed report about the existence of permanent structures/habitats and its construction details & resident's particulars.
3. Readable copy of A register.
4. Land ownership history for last 30 years in the aforesaid survey number.
5. Revised consent lease letter / consent Registered Patta copy.

The project proposal was again placed in 349th SEAC meeting held on 20.01.2023. The committee noted that the PP has not furnished proper reply to the above queries raised in 313th Meeting of SEAC held on 22.09.2022. Hence SEAC decided to defer the proposal.

Now the proposal was placed in this 383rd Meeting of SEAC held on 15.06.2023. Based on the presentation and documents furnished by the project proponent, SEAC noted the following.

- i. The area is demarcated by the movement of elephants.
- ii. The area is surrounded by agricultural activities and rich vegetation.
- iii. The sensitive ESZ is situated at a distance of 1.01 km.
- iv. The sensitive Reserved Forest is located at a distance of 1.35 km.
- v. There are 16 structures are existing within a radius of 500m.


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- vi. There is a shed observed at 297m SE and two odai one at 260m W and another at 257m SE.

Mining activity in this area will considerably damage the environment. Hence SEAC decided not to recommend the project.

Agenda No. 383-14

(File No. 4563/2015)

Proposed Black granite quarry over an extent of 1.12.0 Ha in S.F.No. 368/3(P) & 368/4B (P) of Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by M/s. S.B.S. Granites - for Environmental Clearance Extension. (SIA/TN/MIN/285922/2022 dated 28.07.2018).

Earlier, the proposal was placed in 319th Meeting of SEAC held on 12.10.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

Basic Features of the Project:

1. The project proponent M/s. S.B.S. Granites has applied for Environmental Clearance Extension for the proposed Black granite quarry over an extent of 1.12.0 Ha in S.F.No. 368/3(P) & 368/4B (P) of Karandapalli Village, denkanikottai Taluk, Krishnagiri 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. Lr. No. SEIAA-TN/F. No. 4563/EC/1(a)/2854/2015, dated 15.02.2016 for Environmental clearance.
4. As per mining plan, the lease period is 20 years. The mining plan is for the period of five years & the production should not exceed 14,984m³ RoM (Recovery @ 25% - 3,746m³ of Black granite and Granite waste @ 75% - 11,238m³ with an ultimate depth of mining 32m Below ground level. The annual peak production 3090m³ (RoM) of Black granite (3rd year).

Based on the presentation made by the proponent, SEAC noted the following significant points:

- The quarry lease was granted vide G.O.(3D) No.91, Industries (MMB 3)


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Department Dated 19.09.2005 for a period of twenty years from 09.11.2005 to 08.11.2025.

- The quarry lease executed on 09.11.2005 and the lease is valid till 08.11.2025.
- Environmental Clearance granted on 15.02.2016 vide Ir.No. SEIAA-T /F.No.4563/EC/1(a)/2854/2015 dated 15.02.2016 for the production quantity of 3746 cu.m of Black Granite from the executed lease hold area for a depth of 27 m.
- The quarry operation was carried out till May 2017 after obtaining the necessary 'Legalized Permit' from the office of the Dy. Director (Geology & Mining) to extract & transport the blocks of Black Granite for the quantity of 2665.339 m³ only from the quarry.
- The Cauvery (North) wild life sanctuary is located at a distance of 2.60 km west from the quarry lease.
- However, due to the notified Cauvery North Wildlife Sanctuary, the quarrying operation was suspended from May 2017 to May 2020 for obtaining the NBWL clearance from the Competent Authority due to MOEF draft notification as the buffer zone for Cauvery Wild Life Sanctuary was falling within 10 kms from the quarry.
- In the meanwhile, the final notification of Cauvery Wild Life Sanctuary of MoEF had declared 1 km buffer zone for Cauvery Wild Life Sanctuary on 01.01.2020.
- As per the above final notification of MOEF for Cauvery Wild Life Sanctuary, the Revenue Divisional Officer, Hosur, had submitted his observations vide letter Roc. No.552/2020/(82) dated 24.03.2020. Similarly, the Wildlife Warden, Hosur had submitted his recommendations vide letter Rc. No 2702/2020/L dated, 19.03.2020 to the office of Dy. Director (Geology & Mining).
- Based on the above administrative and wild life clearances received from the competent authorities, the Dy. Director (Geology & Mining) had allowed the lessee to continue quarry from 18.05.2020.
- The PP had stated that he had obtained the certificate for 'Non-Operative Status of the Quarry' & 'Legalized Permit' only to transport the quantity of


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2665.339 m³ vide the letter received from DD, Dept of geology and Mining, Krishnagiri dated. 09.03.2022 and it is clearly given as below:

Sl.No	Period /Year	EC quantity (in cbm)	Permit Quantity (in cbm)
1.	16.02.2016 to 16.06.2020	3746	2665.339

- As the quarry was non-operative from May 2017 to 18th May 2020 and the validity period of EC had expired on 14.02.2021, the quarry had been left with 1081 cbm of Black Granite remaining under the EC granted in 2016. Hence the PP had made a request for Extension of EC for the extraction of the remaining quantity.
- Further, the PP had cited the reasons of the outbreak of the Corona virus (covid-19) and subsequent lockdowns which had put the quarrying operation on hold even though the permit was available to operate the quarry after May 2020. Here, the SEAC had observed the MoEF&CC Notification S.O. 1247(E), dated the 18 March, 2021, stating that "*.....the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearances granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid,.....*".
Hence, the validity of the EC issued earlier in 2016 is deemed to be valid upto 13.02.2022.
- Further, the PP had applied for grant of extension of validity of EC for the extraction of remaining quantity of black granite on 12.03.2021 when the subsisting EC is held by the proponent which fulfills the eligibility to obtain the extension of EC validity under the MoEF Notifications issued under MoEF CC OM No. J-11011/15/2012-IA.II (M), Dated. 20.03.2015 & MoEF CC S.O No. 1141 (E), Dated. 29.04.2015.
- The SEAC have also observed that the PP have applied for the extension of


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validity of Environment Clearance (EC) when the lease period is alive and having the Approved Mining Plan valid till 08.11.2025 under the provisions of Rule 22 (6) of Mineral Concession Rules 1960 which states that

"... The mining plan once approved shall be valid for the entire duration of the lease....."

Further, it is informed that every mining plan duly approved shall be valid for the entire duration of the lease under the provisions of the Granite Conservation & Development Rules, 1999.

- However, the Earlier EC was issued to the project vide Lt.No.SEIAA-T /F.No.4563/EC/1(a)/2854/2015 dated 15.02.2016 stipulates that.

".....subjected to specific condition that the Environmental clearance is subject to obtaining prior clearance from Forestry and wildlife angle including clearance from the standing committee of the National Board for Wildlife as applicable before issue of permit/Consent to establish by the Competent Authority/before starting any activity at site.....".

On the other hand, while examining the records, it is revealed that the quarry operations had been commenced as per EC the validity from 15.02.2016 after obtaining the 'Permits' to mine out & transport the mineral (Black Granite) from DD, Dept of geology and Mining, Krishnagiri but without obtaining prior clearance from *Forestry and wildlife angle including clearance from the standing committee of the National Board for Wildlife (NBWL)*.

Hence the SEAC observed the failure to obtain the prior clearance from NBWL before the commencement attracted the Section 15 of the Environment (Protection) Act, 1986. However, SEAC also noted that the quarrying operation commenced after having obtained the permits from the office of the Dy. Director (Geology & Mining) to operate the quarry till the month of May 2017 and the PP had also obtained the certificate on 'Non-Operative Status of the Quarry' vide the letter of DD, Dept of geology and Mining, Krishnagiri dated. 09.03.2022 for the non-operative period of quarry from May 2017 to 18th May 2020.


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Based on the presentation made by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the remaining quantity. SEAC decided to recommend for extension of the validity of EC for the remaining quantity 1,081m³ of Black Granite for ultimate depth of 32 m subject to the other conditions stipulated in the EC vide Lr.No. SEIAA-T /F.No.4563/EC/1(a)/2854/2015 dated 15.02.2016 remains unchanged and unaltered, in addition to the certain specific conditions.

The subject was placed in 564th Authority held on 28.10.2022. The authority noted that this proposal was placed for appraisal in 319th meeting of SEAC held on 12.10.2022 and the SEAC decided to recommend the issue of Environmental Clearance subject to certain conditions stated therein.

The authority noted that,

- (i) The PP shall furnish the reason for not obtaining NBWL clearance before commencement of work, since EC was issued to the project vide Lr.No.SEIAA-T /F.No.4563/EC/1(a)/2854/2015 dated 15.02.2016 stipulates that,

".....subjected to specific condition that the Environmental clearance is subject to obtaining prior clearance from Forestry and wildlife angle including clearance from the standing committee of the National Board for Wildlife as applicable before issue of permit/Consent to establish by the Competent Authority/before starting any activity at site.....".

- (ii) The PP shall submit certified compliance report.
- (iii) The DD in his letter No.Roc.No.305/2022/Mines dated 09.03.2022 had only forwarded the views of proponent and had not given any specific recommendation for the non-operative period.
- (iv) Rs.2 Lakhs has been levied by SEAC towards failure of PP to comply with specific condition as laid in EC and directed the PP to pay the amount to EMAT, Tamil Nadu. Further it is suggested that SEAC may obtain a clarification from the Chief Wild Life Warden/Forest Department/NBWL on the action against contravention of NBWL Act, whether this quarrying operation attracts any penal provisions under the Wildlife Protection Act.


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(v) The PP shall furnish CTO copy obtained from TNPCB.

In view of the above, the authority after detailed discussion decided to refer back the proposal to SEAC for re-appraisal.

The proposal was again placed in 348th Meeting of SEAC held on 19.01.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEIAA.

S.No	Query	Reply by PP
1	The PP shall furnish the reason for not obtaining NBWL clearance before commencement of work.	The Environmental Clearance had many conditions and was totally not aware about all the conditions and its severity and as well the regulatory authority permitted us for carrying out the quarrying operation by Issuing Transport Permit until it was asked for submission of NBWL Clearance by regulatory authority. I wasn't aware of the mandate requirements.
2	The PP shall submit certified compliance report.	The PP has not obtained Certified Compliance report.
2	The DD in his letter No.Roc.No.305/2022/Mines dated 09.03.2022 had only forwarded the views of proponent and had not given any specific recommendation for the non-operative period.	we had given vide representation to the Deputy Director, Geology and Mining, Krishnagiri for the non-operation period for want of NBWL clearance and request DD. G & M to furnish the permit quantity. In this regard the Deputy Director, Geology and Mining, Krishnagiri have given detailed reply to the same.
3	Rs.2 Lakhs has been levied by SEAC towards failure of PP to comply with	The PP furnished letter from The Wildlife Warden, Hosur dated 26/1/22 stating that.


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	<p>specific condition as laid in EC and directed the PP to pay the amount to EMAT, Tamil Nadu. Further it is suggested that SEAC may obtain a clarification from the Chief Wild Life Warden/Forest Department/ NBWL on the action against contravention of NBWL Act, whether this quarrying operation attracts any penal provisions under the Wildlife Protection Act.</p>	<p>*As per Wildlife Protection Act, 1972, there is no penal provision for action against contravention of orders of Environment Impact Assessment Authority with respect to wildlife. Also, the act does not speak about the violation of permission from National Board for Wildlife in case of implementation of project that affects wildlife. As the Eco Sensitive Zone is notified and administered under Environment Protection Act, Wildlife Protection Act, 1972 has no provision for any violation of action in the notified zone*.</p> <p>And the project proposed is located at 2.60 km away from the Cauvery North Wildlife Sanctuary. As per Eco Sensitive Zone notification on 01.01.2020 for Cauvery North Wildlife Sanctuary, the ESZ is notified to a radius of 1km around the Sanctuary and hence the proposed project is located outside the notified ESZ (1.6 km from the boundary of ESZ).</p>
4	<p>The PP shall furnish CTO copy obtained from TNPCB.</p>	<p>After Receipt of Environmental Clearance the Department of Geology and Mining issued quarrying permit without Requirement of CTO until May 2017. When approached Pollution Control Board for obtaining CTO it was informed to submit NBWL Clearance. Now, the proposal does not attract NBWL Clearance and we are seeking EC validity for Non operation</p>


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period because as on date the EC validity is lapsed as per the order. Therefore, unable to obtain CTO and now we assure that CTO shall be obtained after EC Validity extension.

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.

Now the proposal was placed in this 383rd Meeting of SEAC held on 15.06.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC. The PP has submitted certified compliance report vide F.No.EP/12.1/2022-23/SEIAA/278/TN/429 dated 05.04.2023.

SALIENT FEATURES OF THE PROJECT

Name of the Lessee : Yvl.S.B.S. Granites	
Details of project site	S.F.Nos 368/3(Part) and 368/4B(Part) Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu. Extent 1.12.0 Ha
Lease granted vide G.O. No	Letter No G.O.(3D) No. 91 Industries (MMB-3) Department Dated. 19.09.2005 For the period of 20 years (09.11.2005 to 08.11.2025)
Scheme of Mining plan (3 rd Scheme 2020-21 to 2024-25)	The Third Scheme of mining is prepared and submitted for the Approval.
EC Validity Details	EC Obtained - 15.02.2016 Valid upto - 15.02.2021 With COVID Extension - 15.02.2022 Extension applied on - 28.07.2022


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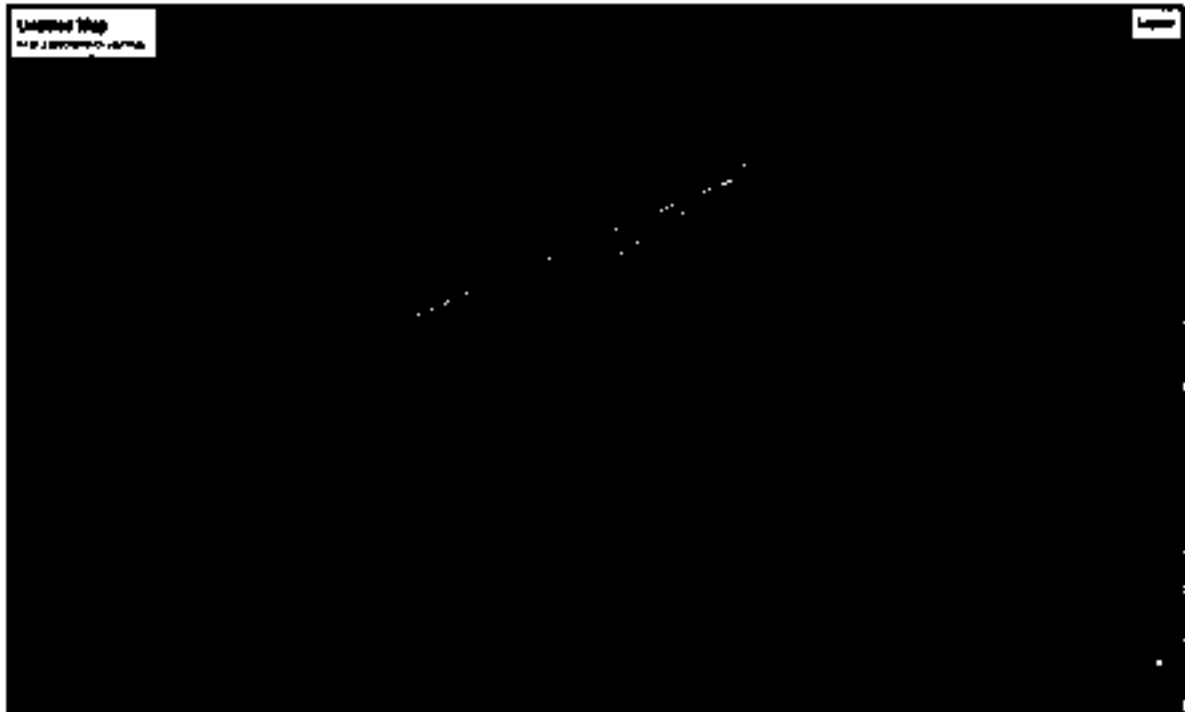
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EC Details	EC Granted quantity	Achieved quantity 2015-16 to 2019-20
	3,746m ³ of Black Granite (ROM 14,984m ³)	2665.339m ³ of Granite
Geological resources – 3 rd SOM	1,77,907m ³ of ROM @ 25% Recovery 44,477 m ³	
Mineable Reserves – 3 rd SOM	57,283m ³ of ROM @ 25% Recovery 14,321m ³	
Estimated proposal given for the 3 rd Scheme of Mining plan	14,934 m ³ of ROM 3,733m ³ of Granite @ 25% Recovery	
Peak Production	3,058 m ³ of ROM	
Existing Depth	27m	
Depth of Estimation – 3 rd SOM	47 m bgl	
Ultimate Depth	47 m bgl	
Estimated life of the mine	5 years	
EMP Prepared for the peak production Capacity and life of the mine up to lease period 2025		
Eco Sensitive Area : Cauvery (North) Wild Life Sanctuary – 2.5km – West (Eco sensitive zone 1.5km – West) Cauvery (South) Wild Life Sanctuary – 6.0 km – West		


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The SEAC noted that Cauvery South Wild Life Sanctuary having the proximity of 6 Km and ESZ has not been notified. However, in between the site and Cauvery South WLS lies the Cauvery North WLS and the site is located beyond the ESZ of Cauvery North WLS. Further, the SEAC carefully examined the replies furnished by the Project Proponent and decided to reiterate the recommendations already made in its 319th meeting of SEAC held on 12.10.2022. All other conditions stipulated in the EC vide Lr.No. SEIAA-T /F.No.4563/EC/1(a)/2854/2015 dated 15.02.2016 remains unchanged and unaltered.

Agenda No: 383-15

(File No: 8931/2022)

proposed of Rough stone Quarry lease over an extent of 1.00.0Ha in S.F.No. 419 (Part-IA) of Vinnamangalam Village, Ambur Taluk, Vellore District, Tamil Nadu by Thiru.C.Sampath - for Environmental Clearance. (SIA/TN/MIN/249184/2021, Dated 05.01.2022)

Earlier, the proposal was placed in 338th meeting of SEAC held on 14.12.2022. The details of the project furnished by the proponent are available in the website (www.pariaverthn.in). The SEAC noted the following:


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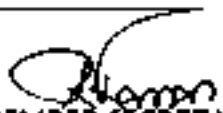
1. The Project Proponent, Thiru.C.Sampath has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 1.00.0Ha at S.F.No.419 (Part-1A) of Vinnamangalam Village, Ambur Taluk, Vellore District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification,2006.

Based on the presentation made by the proponent, SEAC decided to call for additional details,


1. The project proponent shall furnish documentary evidence from the concerned District Forest Officer showing the distance between the nearest R.F and the proposed quarry site.

Now the proposal was placed in this 383rd Meeting of SEAC held on 15.06.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC. The PP has furnished DFO letter vide C.No.10159/2022/D dated 06.01.2023.

File No	8931/2022	Category	B2
	SIA/TN/MIN/249184/2021, Dated:05.01.2022		
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	Thiru.C.Sampath S/o.Chennakesavan No.311, Samaraj Gounder Vattam K.Bandarapalli Pachur-Post, Natrampalli Thirupathur District - 635854	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	Rough stone	
3.	S.F Nos. of the quarry site with area break-up	419 (Part-1A)	
4.	Village in which situated	Vinnamangalam	


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5.	Taluk in which situated	: Ambur
6.	District in which situated	: Thirupathur
7.	Extent of quarry (in ha.)	: 1.00.0Ha
8.	Latitude & Longitude of all corners of the quarry site	: 12°43'29.77"N to 12°43'35.51"N 78°41'43.00" E to 78°41'48.12" E
9.	Topo Sheet No.	: 57 L/10
10.	Type of mining	: Open Cast -Semi mechanized
11.	Life of Project	: 5 years
	Lease Period	: 5 years
	Mining Plan Period	: 5 years
12.	Mining Plan Details	: As per approved Mining Plan
		: As modified by SEAC
	Geological Resources m ³ (RoM)	: Rough Stone 335600m ³
	Mineable Resources m ³ (RoM)	: Rough Stone 137500m ³
	Annual Peak Production in m ³	: Rough Stone 28800m ³
	Ultimate Depth in meters	: 45m (25m AGL + 20m BGL)
13.	Depth of water table	: 70m in Summer Season - 65m In Rainy Season
14.	Man Power requirement per day	: 29 Employees
15.	Water requirement:	4.3 KLD
	1. Drinking water	0.3KLD
	2. Utilized water	: 1.0KLD
	3. Dust suppression	1.5KLD
	4. Green belt	1.5KLD
16.	Power requirement	: TNEB 108320Liters of HSD will be utilized for rough stone


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17.	Precise area communication approved by the Department of G&M.	Rc.No.364/2019(Mines) Dated:26.11.2019	
18.	Mining Plan approved by Department of G&M.	Rc.No.364/2019(Mines) Dated:07.07.2020	
19.	Department of G&M, Assistant Director (i/c)500m Cluster Letter	Rc.No.364/2019(Mines) Dated:24.05.2021	
20.	VAO Certificate Regarding Structures within 300m Radius	25.07.2020	
21.	Project Cost (excluding EMP cost)	Rs.63,10,000/-	
22.	EC Recommendation	Validity	30 years subject to the following upper limits. Rough Stone
		Max Total RoM in m ³	1,33,450m ³
		Annual Max RoM in m ³	28,800m ³
		Max Depth in mtrs	45m (25m AGL + 20m BGL)
23.	EMP cost (in Rs. Lakh).	Rs.43.05 lakhs	
24.	CER cost (In Rs. Lakh).	Rs.5,00,000/-	

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity not exceeding 1,33,450m³ of Rough stone to an ultimate depth of 45m. The Annual peak production is 28,800m³ of Rough stone as per the approved mining plan subject to the standard conditions & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:

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


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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 send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) Within six months from the commencement of quarrying operations, the PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Hosur (or) Salem. A copy of the compliance report shall be submitted to the Director of Mines Safety, Chennai Region, the AD/Mines & Geology, the DEE/TNPCB and the SEIAA-TN.
- 6) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel conneding to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be Included In the HYCR.
- 7) The Project Proponent shall furnish the conceptual slope stability action plan approved by the concerned AD (Mines) for the planned systematic working by maintaining appropriate benches incorporating the haul road with proper gradient in the worked out pit, before obtaining CTO from TNPCB.
- 8) However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in all the quarries of this cluster site collectively if amalgamation is done and when the depth of the working touches 30m (or) during the 3rd year whichever is


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earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Miners' Health - KGF, NIT Surathkal - Dept of Mining Engg, 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.

- 9) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 10) The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- 11) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 12) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 13) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 14) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 15) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 16) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out


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during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.

- 17) 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 are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 18) 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.
- 19) 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. 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.
- 20) 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.
- 21) 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.
- 22) 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


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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.

- 23) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 24) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 25) 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. 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.
- 26) Within six months from the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Impacts of the blasting operations carried out in the mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM-Bangaluru, NIT Surathkal – Dept of Mining Engg, 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.
- 27) 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.
- 28) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete


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this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.

- 29) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 30) 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.
- 31) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 32) 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.
- 33) 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.
- 34) 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.
- 35) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.


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- 36) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 37) 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.
- 38) 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.
- 39) 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.
- 40) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 41) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.


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42)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.

43)As accepted by the Project Proponent the CER cost of Rs. 5.0 lakh and the amount shall be spent for the Panchayat Union Middle School, Kattukollai Village before obtaining CTO from TNPCB,

Agenda No: 383-16

(File No: 9148/2022)

Proposed Rough Stone and gravel quarry lease over an extent of 0.93.0Ha at S.F.No. 112/3A, 112/3B & 112/11 of Agarappatti Village, Viralmalai Taluk, Pudukkottai District, Tamil Nadu by Thiru. K.Panneerselvam - for Environmental Clearance. (SI/TN/MIN/266044/2022 dated 05.04.2022)

Earlier, the proposal was placed in 290th Meeting of SEAC held on 30.06.2022. 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.K.Panneerselvam has applied for Environmental Clearance for the proposed Rough stone and gravel quarry lease over an extent of 0.93.0Ha at S.F.No. 112/3A, 112/3B & 112/11 of Agarappatti Village, Viralmalai Taluk, Pudukkottai 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.

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

- (i) The project proponent shall submit certified compliance report.
- (ii) The project site is 'L' shaped. The project proponent shall revise mining plan indicating the formation of benches of required dimensions of 5 m x 5 m.

Now the proposal was placed in this 383rd Meeting of SEAC held on 15.06.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEAC.


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Sl.No	SEAC Minutes	Reply
1.	The Project proponent shall submit Certified Compliance Report.	Certified Compliance Report has been obtained from MoEF vide E.P/12.1/2022-23/SEIAA/255/TN/226 dated 22.02.2023.
2.	The Project Site is 'L' shaped. The project proponent shall revise mining plan indicating the formation of benches of required dimensions of 5 m x 5 m.	<p>Previous Proposed quantity for Five-year was 42.793 m³ of Rough Stone & 5784 m³ Gravel up to a depth of 22.0 m (Max) (2m Gravel and 20 m Rough Stone). Revised Quantity for Five-year Production is 40.959 m³ of Rough Stone & 5106 m³ Gravel up to a depth of 22.0m (Max) (2m Gravel and 20m Rough Stone).</p> <p>As per the committee's recommendation of revising the mining plan with bench formations of dimensions of 5 m x 5 m, we have purchased a land with S.F.No. 112/3A (0.23.0 Ha) to add to the existing mining area along with already existing land area of 0.70.0 Ha (S.F.No. 112/3B & 112/11) and increased the total mine lease area from 0.70.0 Ha to 0.93.0 Ha and mining plan has been prepared for the mentioned survey numbers and approved by AD Mines.</p> <p>We request SEAC Committee to consider the additional survey number (112/3A) and total mining lease area as 0.93.0 Ha. Patta for the same has been enclosed.</p>


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The PP has also obtained revised precise area communication vide Rc.No.396/2021(G&M) dated 21.12.2022.

As per SEAC recommendations, the revised Mineable reserves are given below.

Mineable Reserves as per Approved Earlier Mining Plan								Revised Mineable Reserves									
Section	Bench	L (m)	W (m)	D (m)	Volume in m ³	Mineable Reserves in m ³ @ 95%	Mine waste in m ³ @ 5%	Gravel in m ³	Bench	L (m)	W (m)	D (m)	Volume in m ³	Mineable Reserves in m ³ @ 95%	Mine waste in m ³ @ 5%	Gravel in m ³	
XY-AB	II	27	1	5	135	128	7		I	1	25	2				50	
	III	61	12	5	3660	3477	183		II	1	23	5	115	109	6		
	IV	56	12	5	3360	3192	168		III	61	36	5	10980	10431	549		
	V	51	12	5	3060	2907	153		IV	56	26	5	7280	6916	364		
	TOTAL				10215	9704	511		V	51	16	5	4080	3876	204		
XY-CD	I	42	38	2				3192	I	28	41	2				2296	
	II	40	38	5	7600	7220	380		II	26	39	5	5070	4817	253		
	III	35	38	5	6650	6318	332		III	35	34	5	5950	5653	297		
	IV	30	38	5	5700	5415	285		IV	30	24	5	3600	3420	180		
	V	25	38	5	4750	4513	237		V	25	14	5	1750	1663	87		
TOTAL				24700	23466	1234	3192	TOTAL				16370	15553	817	2296		
XIY t. CD	I	72	18	2				2592	I	69	20	2				2760	
	II	70	16	4	4480	4256	224		II	67	16	4	4288	4074	214		
	III	65	11	5	3575	3396	179										
	IV	60	6	5	1800	1710	90										
	V	55	1	5	275	261	14										
TOTAL				10130	9623	507	2592	TOTAL				4288	4074	214	2760		
GRAND TOTAL					45045	42793	2252	5784	GRAND TOTAL					43113	40959	2154	5106

Mineable Reserves	As per Approved Mining plan	Revised reserves
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Rough stone	45045	43113
Gravel	5754	5106

YEARWISE DEVELOPMENT AND PRODUCTION RESERVES

As per SEAC recommendations, the revised Year wise Development and Production Reserves is given below.

Year	Section	Bench	L (m)	W (m)	D (m)	Volume in m ³	Recoverable Reserves in m ³ @ 95%	Min e waste in m ³ @ 5%	Gravel in m ³	Section	Bench	L (m)	W (m)	D (m)	Volume in m ³	Recoverable Reserves in m ³ @ 95%	Mine waste in m ³ @ 5%	Gravel in m ³								
I-YEAR	XY-AB	II	27	1	5	135	128	7		XY-AB	I	1	252					50								
																			II	1	235	115	109	6		
	XY-CD	II	40	38	5	7600	7220	380		XY-CD	II	II	284	12												
																				II	II	263	95	5070	4817	253
																				XI	I	692	20			
	XY-CD	II	II	671	64	4288	4074	214																		
II-YEAR	XI-CD	I	72	18	2				2592	XY-AB	III	61	365	109	10431	80	549									
																			II	70	16	4	4480	4256	224	
III-YEAR	XY-AB	III	61	12	5	3660	3477	183		XY-CD	III	35	345	595	5653	0	297									
																			IV	30	38	5	6650	6318	332	
IV-YEAR	XY-AB	IV	56	12	5	3360	3192	168		XY-AB	IV	56	265	728	6916	0	364									
																			XY-CD	IV	30	38	5	5700	5415	285
	XI-CD	I	60	6	5	1800	1710	90																		

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V- YEA R	XY- AB	V 51	1 2	5	3060	2907	153		X Y - A B	V	5 1	5	40 80	3876	204	
	XY- CD	V 25	3 8	5	4750	4513	237		X Y - C D	V	2 5	5	17 50	1663	87	
	XIY I- CD	V 55	1	5	275	261	14									
TOTAL					4504 5	4279 3	225 2	578 4	TOTAL			4311 3	40959	2154	51 0 6	

Year wise Development and Production Reserves	As per Approved Mining plan	Revised Reserves
Rough stone	42793	40959
Gravel	5784	5106

File No	9148/2022	Category	82
	SIA/TN/MIN/ 266044/2022 dated 05.04.2022		
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	Thiru. K.PanneerSelvam S/o.Krishnan Sellampatti Agarappatti,Meenaveli post Virallmalal Taluk Pudukkottai - 621305	


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2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone & Gravel
3.	S.F Nos. of the quarry site with area break-up	:	112/3A, 112/3B & 112/11
4.	Village in which situated	:	Agarappattl
5.	Taluk in which situated	:	Viralimalai
6.	District in which situated	:	Pudukkottai
7.	Extent of quarry (in ha.)	:	0.93.0Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10° 31' 8.43" N to 10° 31' 5.39" N 78° 31' 2.34" E to 78° 30' 57.49" E
9.	Topo Sheet No.	:	58 J/10
10.	Type of mining	:	Opencast mechanized mining
11.	Life of Project	:	5 years
	Lease Period	:	5 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m ³ (RoM)	:	As modified by SEAC
			146494m ³ 8814m ³
	Mirable Resources m ³ (RoM)	:	Rough Stone Gravel
Annual Peak Production in m ³	:	Rough Stone Gravel	
			10431m ³ 5106m ³
	Ultimate Pit Depth in meters	:	22m BGL (2m Gravel + 20m Rough stone)
13.	Depth of water table	:	54m Below Ground Level


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14.	Man Power requirement per day:	: 18 Employees												
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	: 1.5KLD 0.5 KLD - 0.5 KLD 0.5 KLD												
16.	Power requirement	: TNEB 35204Liters of HSD for the entire period of life												
17.	Precise area communication approved by the Department of G&M.	: Rc.No.396/2021(G&M) dated 21.12.2022.												
18.	Mining Plan approved by Department of G&M.	: Rc.No.396/2021(G&M) dated 27.12.2022.												
19.	Department of G&M, Assistant Director 500m Cluster Letter	: Rc.No.396/2021(G&M) dated 03.03.2022.												
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter Furnished Dated :Nil												
21.	Project Cost (exclusing EMP cost)	: Rs.41,25,000												
22.	EC Recommendation	: Validity 30 years subject to the following upper limits. <table border="1"> <thead> <tr> <th></th> <th>Rough Stone</th> <th>Gravel</th> </tr> </thead> <tbody> <tr> <td>Max Total RoM in m³</td> <td>40959m³</td> <td>5106m³</td> </tr> <tr> <td>Annual Max RoM in m³</td> <td>10431m³</td> <td>5106m³</td> </tr> <tr> <td>Max Depth in mtrs</td> <td colspan="2">22m BGL (2m Gravel + 20m Rough stone)</td> </tr> </tbody> </table>		Rough Stone	Gravel	Max Total RoM in m ³	40959m ³	5106m ³	Annual Max RoM in m ³	10431m ³	5106m ³	Max Depth in mtrs	22m BGL (2m Gravel + 20m Rough stone)	
	Rough Stone	Gravel												
Max Total RoM in m ³	40959m ³	5106m ³												
Annual Max RoM in m ³	10431m ³	5106m ³												
Max Depth in mtrs	22m BGL (2m Gravel + 20m Rough stone)													
23.	EMP cost (in Rs. Lakh).	: Rs.24.16.202												
24.	CER cost (in Rs. Lakh).	: Rs.5,00,000												


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Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity not exceeding 40,959m³ of Rough stone and 5106m³ of Gravel to an ultimate depth of 22m. The Annual peak production is 10,431m³ of Rough stone and 5106m³ of Gravel as per the approved mining plan subject to the standard conditions & normal conditions stipulated by MoEF&CC. In addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) Within six months from the commencement of quarrying operations, the PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy. A copy of the compliance report shall be submitted to the Director of Mines Safety, Chennai Region, the AD/Mines & Geology, the DEE/TNPCB and the SEIAA-TN.
- 6) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow


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- channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 7) The Project Proponent shall furnish the conceptual slope stability action plan approved by the concerned AD (Mines) for the planned systematic working by maintaining appropriate benches incorporating the haul road with proper gradient in the worked out pit, before obtaining CTO from TNPCB.
 - 8) As the existing mine is properly not benched, the PP shall carry out the scientific studies to assess the slope stability of the quarry wall and benches within one year from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
 - 9) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
 - 10) The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
 - 11) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
 - 12) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
 - 13) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be


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diverted for other purposes. Year-wise expenditure should be included in the HYCR.

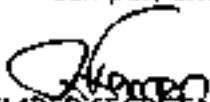
- 14) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 15) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 16) Perennial sprinkling arrangements 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.
- 17) 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 are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 18) 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.
- 19) 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. 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.
- 20) 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.


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- 21) 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.
- 22) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 23) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 24) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 25) 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. 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.
- 26) Within six months from the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Impacts of the blasting operations carried out in the mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving any of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM-Bangaluru, NIT Surathkal - Dept of Mining Engg, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report


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shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.

- 27) 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.
- 28) 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 as per the Environmental Management Plan & the approved Mine Closure Plan.
- 29) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 30) 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.
- 31) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 32) 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.
- 33) 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.



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- 34) 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.
- 35) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 36) 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.
- 37) 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.
- 38) All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Pre-de area communication letter issued by concerned District Collector should be strictly followed.
- 39) 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.
- 40) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for


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growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

41) 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.

42) 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.

43) As accepted by the Project Proponent the CER cost of Rs. 5.0 lakh and the amount shall be spent for the Panchayat Union Primary School, Agarappatti Village before obtaining CTO from TNPCB.

Agenda No: 353-17

(File No: 8903/2021)

Proposed Rough Stone quarry lease over an extent of 1.60.0 Ha in S.F.Nos. 412/11 (Part-4) of Palamathi Village, Vellore Taluk, Vellore District, Tamil Nadu by Thiru.H. Kiruba sankar - For Environmental Clearance. (SIA/TN/MIN/238277/2021 Dated 11.11.2021)

Earlier, this proposal was placed in 279th Meeting of SEAC held on 28.05.2022. During the meeting it was noted that both the project proponent and EIA Coordinator were absent. SEAC therefore, decided to defer the proposal and call for the explanation of the PP.

The proposal was again placed in 318th Meeting of SEAC held on 07.10.2022. The PP requested to defer the project. Hence the committee decided to defer the proposal, the proposal was once again placed in 338th meeting of SEAC held on 14.12.2022. The PP requested to defer the project. Hence the committee decided to defer the proposal.

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.H.Kiruba Sankar has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 1.60.0Ha at S.F.No.412/11(Part4) of Palamathi Village, Vellore Taluk, Vellore District, Tamil


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2. The project/activity is covered under Category "B2" of Item I(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was issued vide Lt. No. SEIAA-TN/F.No.3909/19(a)/ EC.No: 3045/2015 dated:26.02.2016 for Rough Stone and Gravel quarry over an extent 1.60 Ha at S.F.No.412/11(part-4), Palamathi Village, Vellore Taluk, Vellore District, Tamil Nadu and production of 314390 cu.m of Rough stone & 16872 cu.m of Gravel & Ultimate depth upto 37m(12m above ground level & 25m below ground level).
4. MoEF & CC Notification S.O. 221(E), Dt:18.01.2021.
5. MoEF & CC Notification S.O. 1807(E), Dt: 12.04.2022.
6. MoEF & CC O.M, Dt: 13.12.2022.
7. As per the mining plan, the lease period is for 10 years. The production for 5 years not to exceed 1,24,600 m³ of rough stone, 7776 m³ of weathered rock & 3220 m³ of Top soil. The annual peak production is 28,900m³ of rough stone (2nd year), 7776 m³ of weathered rock (1st year) & 3220 m³ of Top soil(1st year) with an ultimate depth of mining 41m(16m AGL + 25 BGL).

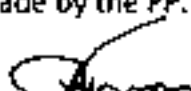
Again the proposal was placed in 353rd meeting of SEAC held on 09.02.2023.

During the meeting, the proponent stated that he is entitled for 'automatic extension' as per the MoEF&CC notification dated 12.04.2022 and O.M dated 13.12.2022 and hence requested to confirm the same.

SEAC noted that as per OM Dated 13.12.2022, Clarification on the amendment to EIA Notification 2006 issued vide S.O. No. 1807(E) dated 12.04.2022 with regard to validity of Environment Clearance, para 2 (ii) states that...

"The Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the EIA Notification 2006 as on the date of publication of Notification i.e., 12.04.2022 shall stand automatically extended to respective increased validity as mentioned at Para no. 1 column (C) above."

Based on the presentation made by the proponent, the SEAC dedded to confirm that the proposal is entitled for 'automatic extension to the respective increased validity' as per the aforesaid OM issued by the MoEF& CC subject to the following commitment made by the PP.


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- As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the Government Primary and High school, Palamathi Village as committed, before obtaining CTO from TNPCB.

The proposal was placed in the 599th Authority meeting held on 06.03.2023. The authority noted that this proposal was placed for appraisal in this 353rd meeting of SEAC held on 09.2.2023 and the SEAC decided to confirm that the proposal is entitled for 'automatic extension to the respective increased validity as per the aforesaid OM Issued by the MoEF & CC'.

After detailed discussion the authority decided that though the PP is eligible for automatic extension the PP is requested to furnish the following details to cover the validity period.

The proponent shall submit.

1. Certified compliance report from competent authority.
2. 50% of the area is found to be vegetation. The PP shall number the trees inside and shall submit an action plan to transplant the trees.

The PP has furnished reply to SEIAA dated 20.04.23. The PP has furnished Certified compliance report only.

The reply was again placed in the 610th Authority meeting held on 11.04.2023.


The authority noted that,

(i) From the Certified compliance report it is seen that the PP has not complied with many conditions like in Part A - Item 15, 20, 28, 30, 31, 32, 33, 35, 38, 40, 42, 43, 44, 45, 46, 47, 48, 51, 52 and in Part - B conditions like item 5, 7, 15.

(ii) The PP has not replied to query no.2 raised in Authority meeting (50% of the area is found to be vegetation. The PP shall number the trees inside and shall submit an action plan to transplant the trees). Hence the PP shall furnish the reply in SEAC meeting.

In view of the above, the authority after detailed discussion decided to refer back the proposal to SEAC for re-appraisal.

Now the proposal was placed in this 383rd Meeting of SEAC held on 15.06.2023. The Project proponent has made a presentation along with clarification for the above shortcomings observed by the SEIAA.


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S. No	Non Compliance	Reply
Conditions to be complied before commencing mining operations:		
1)	The mined-out pits should be backfilled where warranted and area should be suitably landscaped to prevent environmental degradation. The mine closure plan as furnished in the proposal shall be strictly followed with back filling and tree plantation.	<p>It is a 10 years tender cum auction quarry lease.</p> <p>It is an hillock of altitude varies from 421m to 411m.</p> <p>It is a rough stone quarry of 100% recovery. No backfilling proposed in mine closure plan.</p> <p>PP Informed that fencing completed now and also pay 10% in the Seignourage fee for green fund. After the completion of the quarry operation the hillock may again come for Auction or it will act as rainwater storage structure.</p> <p>It is a rough stone quarry of 100% recovery</p>
2)	A study has to be conducted to assess the optimum blast parameters and blast design to keep the vibration limits less than prescribed levels and only such design and parameters should be implemented while blasting is done. Periodical monitoring of the vibration at specified location to be conducted and records kept for inspection.	<p>PP didn't conduct the study to assess the optimum blast parameters.</p> <p>PP informed that in scheme of mining it will be done before obtaining CTO.</p>
3)	<p>The following measures are to be adopted to control erosion of dumps</p> <p>i. Retention/toe walls shall be provided at the foot of the dumps.</p>	<p>No dump observed. It is a rough stone quarry of 100% recovery.</p> <p>It is an Existing quarry and the slopes are stable as the charnockite is hard and compact of</p>


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	ii. Worked out slopes are to be stabilized by planting appropriate shrub/grass species on the slopes.	density 2.8kg/m ³ and poisson's ratio is 0 to 0.03.
4)	Concealing the factual data or failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act. 1986	Section 5 of EP Act PP consider this as a notice and will follow all the specific conditions in the scheme of mining.
5)	Rain water harvesting to collect and utilize the entire water falling in land area should be provided.	western side of the hillock the abandoned quarry pit exists. PP constructed stone bed along with drain in the western side for the rainwater to fall in the abandoned pit. Similarly in eastern side also.
6)	Rain water getting accumulated in the quarry floor shall not be discharged directly to the nearby stream or water body. If it is to be let into the nearby water body, it has to be discharged into a silt trap on the surface within the lease area and only the overflow after allowing settling of soil be let into the nearby waterways. The silt trap should be of sufficient dimensions to catch all the silt water being pumped out during one season. The silt trap should be cleaned of all the deposited silt at the end of the season and kept ready for taking care of the silt in the next season.	No stream or water body around the hillock. Rainwater collected in the pit during rainy season will send to silt trap in the settling pond.


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7)	The lease holder shall undertake adequate safeguard measures during extraction of material and ensure that due to this activity, the hydro-geological regime of the surrounding area shall not be affected. Regular monitoring of ground water level and quality shall be carried out around the mine lease area during the mining operation. If at any stage, if it is observed that the groundwater table is getting depleted due to the mining activity; necessary corrective measures shall be carried out. District Collector/Mining officer shall ensure this.	In approved mining plan the permissible depth of the granted area is 16m AGL + 25m BGL. The water table is at 50m in depth BGL. So, there is no intersection in the groundwater table.
8)	To take up environmental monitoring of the proposed quarry site before, during and after the mining activities including vibration study data, water, air & flora/fauna environment, slurry water generated/disposed and method of disposal, involving a reputed academic institution.	In the first spell of 5 years the PP not followed the condition. In scheme of mining environmental monitoring conducted and submitted as Baseline report along with Prefeasibility report to Authority, Pg No: 177. For the upcoming years PP assured to follow the condition.
9)	Ground water quality monitoring should be conducted once in 3-Months.	No borewell proposed in the lease area. Ground water quality should measure through piezometric monitoring well constructed by TWAD in Kaniyambadl.
10)	Free Silica test should be conducted and reported to TNPCB, Department of Geology and Mining and Regional Director, MoEF, GOI.	PP didn't follow the condition. The quarry is not in operation now. In scheme it will follow and submit to TNPCB.


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11)	Bunds to be provided at the boundary of the project site.	PP informed that Earth bund constructed.
12)	Ground water quality monitoring should be conducted once in 3 months	No borewell proposed in the lease area. Ground water quality should measure through piezometric monitoring well constructed by TWAD in Kaniyambadi.
13)	The project proponent shall undertake plantation/ afforestation work by planting the native species on all side of the lease area at the rate of 400/Ha. Suitable tall tree saplings should be planted on the bunds and other suitable areas in and around the work place.	It is a hillock. PP informed that he planted 200 trees in the southern side of the lease area. In the western side a safety berm of 7.5m left by PP for the adjacent abandoned quarry. Further the PP go for amalgamation. So plantation not done by PP.
14)	At least 10 Neem trees should be planted around the boundary of the quarry site.	PP planted the 10 neem trees.
15)	Floor of excavated pit to be leveled and sides to be sloped with gentle slope (Except for granite quarries) In mine closure phase.	PP accept and do it at the time of mine closure.
16)	A berm shall be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation.	PP left the berm for the adjacent abandoned quarry.
17)	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 Ministry of Environment and Forests and its regional office located at Chennai.	PP opened the EMP account for the scheme before obtaining CTO.


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Query	Reply
The PP has not replied to query no.2 raised in Authority meeting (50% of the area is found to be vegetation. The PP shall number the trees inside and shall submit an action plan to transplant the trees). Hence the PP shall furnish the reply in SEAC meeting.	Non Invasives species not present in the lease area. The lease area consists of dry terrestrial habitat predominated by grasses, legumes and flowers. It confirmed in site photographs.

File No	B903/2021		Category	B2
	SIA/TN/MIN/238277/2021, Dated 11.11.2021			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru.H.Kiruba Sankar S/o.Mr.Han New No.7, Main Street, Vadivel Nagar Sankarapalayam Vellore District-632001	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone	
3.	S.F Nos. of the quarry site with area break-up	:	412/11 (Part-4)	
4.	Village in which situated	:	Palamathi	
5.	Taluk in which situated	:	Vellore	
6.	District in which situated	:	Vellore	
7.	Extent of quarry (in ha.)	:	1.60.0Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°52'47.4027"N to 12°52'54.4178"N 79°10'10.4457" E to 79°10'14.0196" E	
9.	Topo Sheet No.	:	57 P/01	


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10.	Type of mining	: Open Cast -Semi mechanized
11.	Life of Project	: 10 Years
	Lease Period	: 10 Years
	Mining Plan Period	: 5 Years - Scheme of Mining
12.	Mining Plan Details	: As per approved Mining Plan As modified by SEAC
	Geological Resources m ³ (RoM)	: Rough Stone 372260m ³
	Mineable Resources m ³ (RoM)	: Rough Stone 124600m ³
	Annual Peak Production in m ³	: Rough Stone 27250m ³
	Maximum Depth in meters	: 41m (16AGL + 25 BGL)
13.	Depth of water table	: 55m in Summer - 50m in Rainy
14.	Man Power requirement per day:	: 21 Employees
15.	Water requirement:	3.0KLD
	1. Drinking water	1.0KLD
	2. Utilized water	: -
	3. Dust suppression	1.0KLD
	4. Green belt	1.0KLD
16.	Power requirement	TNEB 99680 Liters of HSD will be utilized
17.	Precise area communication approved by the Department of G&M.	: Roc.No.276 /2015(Mines) dated 13.04.2015
18.	Mining Plan approved by Department of G&M.	: Roc.No.276/2015 (Mines) Dated 26.10.2021
19.	Department of G&M, Assistant Director 500m Cluster Letter	Roc.No.69/2021 (Mines) Dated 02.11.2021


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20.	VAO Certificate Regarding Structures within 300m Radius	Letter Dated: 08.11.2021	
21.	Project Cost (excluding EMP cost)	Rs.68,75,000/-	
22.	EC Recommendation	Validity	30 years subject to the following upper limits. Rough Stone
		Max Total RoM in m ³	124600m ³
		Annual Max RoM in m ³	27250m ³
		Max Depth in mtrs	41m (16AGL + 25 BGL)
23.	EMP cost (in Rs. Lakh).	Rs.93,37.301/-	
24.	CER cost (in Rs. Lakh).	Rs.5,00,000/-	

Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity not exceeding 1,24,600m³ of Rough stone and 5106m³ of Gravel to an ultimate depth of 41m. The Annual peak production is 27,250m³ of Rough stone and 5106m³ of Gravel as per the approved mining plan subject to the standard conditions & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.

- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) Within six months from the commencement of quarrying operations, the PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Hosur (or) Salem. A copy of the compliance report shall be submitted to the Director of Mines Safety, Chennai Region, the AD/Mines & Geology, the DEE/TNPCB and the SEIAA-TN.
- 6) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 7) The Project Proponent shall furnish the conceptual slope stability action plan approved by the concerned AD (Mines) for the planned systematic working by maintaining appropriate benches incorporating the haul road with proper gradient in the worked out pit, before obtaining CTO from TNPCB.
- 8) However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in all the quarries of this cluster site collectively if amalgamation is done and when the depth of the working touches 30m (or) during the 3rd year whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Miners' Health - KGF, NIT Surathkal - Dept of Mining Engg, 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.


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- 9) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 10) The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
- 11) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 12) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 13) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 14) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 15) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 16) Perennial sprinkling arrangements 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.
- 17) 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 are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.


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- 18) 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.
- 19) 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. 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.
- 20) 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.
- 21) 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.
- 22) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 23) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 24) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.


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- 25) 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. 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.
- 26) Within six months from the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Impacts of the blasting operations carried out in the mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving any one of these reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM-Bangaluru, NIT Surathkal - Dept of Mining Engg, 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.
- 27) 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.
- 28) 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 as per the Environmental Management Plan & the approved Mine Closure Plan.
- 29) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 30) 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


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de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.

- 31) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 32) 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.
- 33) 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.
- 34) 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.
- 35) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 36) 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.
- 37) 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.


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- 38) 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.
- 39) 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.
- 40) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 41) 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.
- 42) 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.
- 43) As accepted by the Project Proponent the CER cost of Rs. 5.0 lakh and the amount shall be spent for the Government Primary and High School, Palamathi Village before obtaining CTO from TNPCB.

Agenda No: 383 - 18

(File No.5383/2016)

Proposed Black granite quarry over an extent of 2.44.0Ha in S.F.No. 144/1 and 144/2 of Odaiyendahalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Thiru.R.K.Ramesh - for Environmental Clearance Extension. (SIA/TN/MIN/285921/2022 dated 28.07.2022)


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Earlier, this proposal was placed in this 319th Meeting of SEAC held on 12.10.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). **Basic Features of the Project:**

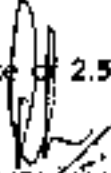
1. The project proponent Thiru.R.K.Ramesh has applied for Environmental Clearance Extension for the proposed Black granite quarry over an extent of 2.44.0Ha in S.F.No. 144/1 and 144/2 of Odaiyandahalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. Lr. No.SEIAA-TN/F.No.5383/1(a)/EC.No:3370/2016, dated 20.07.2016 for Environmental clearance.
4. As per mining plan, the lease period is 20 years. The mining plan is for the period of five years & the production should not exceed 60,275m³ RoM (Recovery @ 20% - 12,055m³ of Black granite and Granite waste @ 80% - 48,220m³ with an ultimate depth of mining 31m Below ground level. The annual peak production 4160m³ (RoM) of Black granite (3rd year).

Based on the presentation made by the proponent, SEAC noted the following significant points:

- The quarry lease was granted vide G.O. (3D) No: 27, Industries (MME-2) Department Dated: 02.06.2010 for a period of twenty years from 28.06.2010 to 27.06.2030.
- The quarry lease executed on 28.06.2010 and the lease is valid till 27.06.2030.
- Environmental Clearance granted on 20.07.2016 vide Lr.No. SEIAA-TN/F. No. 5383/EC/1(a)/3370/2016, dated 20.07.2016 for the production quantity of 3992 cu.m of Black Granite from the executed lease hold area for a depth of 31 m (including 11 m above ground level).
- The quarry operation was carried out till April 2017 after obtaining the necessary 'Legalized Permit' from the office of the Dy. Director (Geology & Mining) to extract & transport the blocks of Black Granite for the quantity of 1648.918 m³ only from the quarry.
- The Cauvery (North) wild life sanctuary is located at a distance of 2.50 km


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west from the quarry lease

- However, due to the notified Cauvery North Wildlife Sanctuary, the quarrying operation was suspended from May 2017 to May 2020 for obtaining the NBWL clearance from the Competent Authority due to MOEF draft notification as the buffer zone for Cauvery Wild Life Sanctuary was falling within 10 kms from the quarry.
- In the meanwhile, the final notification of Cauvery Wild Life Sanctuary of MoEF had declared 1 km buffer zone for Cauvery Wild Life Sanctuary on 01.01.2020.
- As per the above final notification of MOEF for Cauvery Wild Life Sanctuary, the Revenue Divisional Officer, Hosur, had submitted his observations vide letter Roc. No.552/2020/(82) dated 24.03.2020. Similarly, the Wildlife Warden, Hosur had submitted his recommendations vide letter R.C. No 2702/2020/L dated, 19.03.2020 to the office of Dy. Director (Geology & Mining).
- Based on the above administrative and wild life clearances received from the competent authorities, the Dy. Director (Geology & Mining) had allowed the lesser to continue quarry from 18.05.2020.
- The PP had stated that he had obtained the certificate for 'Non-Operative Status of the Quarry' & 'Legalized Permit' only to transport the quantity of 1648.918 m³ vide the letter received from DD, Dept of geology and Mining, Krishnagiri dated, 09.03.2022 and it is clearly given as below:

Sl.No	Period /Year	EC quantity (in cbm)	Permit Quantity (in cbm)
1.	08.09.2016 to 16.06.2020	3992	1648.918

- As the quarry was non-operative from May 2017 to 18th May 2020 and the validity period of EC had expired on 19.07.2021, the quarry had been left with 2,343.08 cbm of Black Granite remaining under the EC granted in 2016. Hence the PP had made a request for Extension of EC for the extraction of the remaining quantity.
- Further, the PP had cited the reasons of the outbreak of the Coronavirus (covid-


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

Hence, the validity of the EC issued earlier in 2016 is deemed to be valid upto 18.07.2022.

- Further, the PP had applied for grant of extension of validity of EC for the extraction of remaining quantity of black granite on 04.03.2022 & 28.07.2022 when the subsisting EC is held by the proponent which fulfills the eligibility to obtain the extension of EC validity under the MoEF Notifications issued under MoEF CC OM No. J-11011/15/2012-IA.II (M), Dated. 20.03.2015 & MoEF CC S.O No. 1141 (E), Dated. 29.04.2015.
 - The SEAC have also observed that the PP have applied for the extension of validity of Environment Clearance (EC) when the lease period is alive and having the Approved Mining Plan valid till 27.06.2030 under the provisions of Rule 22 (6) of Mineral Concession Rules 1960 which states that *"... The mining plan once approved shall be valid for the entire duration of the lease....."*
- Further, it is informed that every mining plan duly approved shall be valid for the entire duration of the lease under the provisions of the Granite Conservation & Development Rules, 1999.
- However, the Earlier EC was issued to the project vide Lr.No.SEIAA-T /F.No.4563/EC/1(a)/2854/2015 dated 15.02.2016 stipulates that,

".....subjected to specific condition that the Environmental clearance is subject to obtaining prior clearance from Forestry and


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wildlife angle including clearance from the standing committee of the National Board for Wildlife as applicable before issue of permit/Consent to establish by the Competent Authority/before starting any activity at site.....".

On the other hand, while examining the records, it is revealed that the quarry operations had been commenced as per EC the validity from 08.09.2016 after obtaining the 'Legalized Permits' to mine out & transport the mineral (Black Granite) from DD. Dept of geology and Mining, Krishnagiri but without obtaining prior clearance from *Forestry and wildlife angle including clearance from the standing committee of the National Board for Wildlife (NBWL)*, fulfilling the MOEF draft notification issued for Cauvery Wild Life Sanctuary.

Hence the SEAC observed the failure of obtaining the prior clearance from NBWL before the commencement attracts the Section 15 of the Environment (Protection) Act, 1986 - 'Penalty for contravention of the provisions of the Act and the rules, orders and directions' states that

"..... (1) Whoever fails to comply with or contravenes any of the provisions of this Act, or the rules made or orders or directions issued thereunder, shall, in respect of each such failure or contravention, be punishable with imprisonment for a term which may extend to five years or with fine which may extend to one lakh rupees, or with both, and in case the failure or contravention continues, with additional fine which may extend to five thousand rupees for every day during which such failure or contravention continues after the conviction for the first such failure or contravention...."

However, the PP had accepted that the quarrying operation commenced after having obtained the permits from the office of the Dy. Director (Geology & Mining) to operate the quarry till the month of May 2017 and obtained the certificate on 'Non-Operative Status of the Quarry' vide the letter of DD, Dept of geology and Mining, Krishnagiri dated, 09.03.2022 for the non-operative period of quarry from May 2017 to 18th May 2020.


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Based on the presentation made by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the remaining quantity SEAC decided to recommend for Extension of the validity of EC for the remaining quantity 2,343.08 m³ of Black Granite for ultimate depth of 31 m (including 11 m above ground level) subject to the other conditions stipulated in the EC vide Lr.No. SEIAA-T /F.No. 5383/EC/1(a)/3370/2016, dated 20.07.2016 remains unchanged and unaltered, in addition to the certain specific conditions:


The subject was placed in the 564th SEIAA Meeting held on 28.10.2022. The authority noted that this proposal was placed for appraisal in this 319th meeting of SEAC held on 12.10.2022 and the SEAC decided to recommend the issue of Environmental Clearance subject to certain conditions stated therein.

After detailed discussions, the Authority noted that,

1. The PP shall furnish the reason for not obtaining NBWL clearance before commencement of work, since EC was issued to the project vide Lr.No.SEIAA-TN /F.No.5383/EC/1(a)/3370/2016 dated 20.07.2016 stipulates that,
".....subjected to specific condition that the Environmental clearance is subject to obtaining prior clearance from Forestry and wildlife angle including clearance from the standing committee of the National Board for Wildlife as applicable before issue of permit/Consent to establish by the Competent Authority/before starting any activity at site....."
2. The PP shall submit certified compliance report.
3. The DD in his letter No.Roc.No.305/2022/Mines dated 09.03.2022 had only forwarded the views of proponent and had not given any specific recommendation for the non-operative period.
4. Rs.2 Lakhs has been levied by SEAC towards failure of PP to comply with specific condition as laid in EC and directed the PP to pay the amount to EMAT, Tamil Nadu. Further it is suggested that SEAC may obtain a clarification from the Chief Wild Life Warden/Forest Department/NBWL on the action against contravention of NBWL Act, whether this quarrying operation attracts any penal provisions under the Wildlife Protection Act.
5. The PP shall furnish CTO copy obtained from TNPCB.


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In view of the above, the authority after detailed discussion decided to refer back the proposal to SEAC for re-appraisal.

Now the proposal was again placed in this 348th Meeting of SEAC held on 19.01.2023. Based on the presentation and document furnished by the project proponent, SEAC decided to seek the following details from the project proponent.

1. The project proponent shall furnish the certified compliance report issued by MoEF & CC / TNPCB for its existing EC.

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


The subject was placed in 593rd authority meeting held on 17.02.2023. The authority noted that the subject was appraised in 348th SEAC meeting held on 19.01.2023 and SEAC decided to call for the following details from the project proponent is as follows

SEIAA query	PP reply
The project proponent shall furnish the certified compliance report issued by MoEF & CC / TNPCB for its existing EC.	Proponent obtained Certified Compliance Report from MoEF & CC, Chennai – Document No E.P./12.1/2022-23/SEIAA/279/TN/428 Dated 05.04.2023.
The PP shall furnish the reason for not obtaining NBWL clearance before commencement of work, since EC was issued to the project vide Lr.No.SEIAA-TN /F.No.5383/EC/1(a)/3370/2016 dated 20.07.2016 stipulates that, “.....subjected to specific condition that the Environmental clearance is subject to obtaining prior clearance from Forestry and wildlife angle including clearance from the standing committee of	The Environmental Clearance had many conditions and was totally not aware about all the conditions and its severity and as well the regulatory authority permitted us for quarrying by issuing Transport Permit until it was asked for submission of NBWL Clearance by regulatory authority I wasn't aware of the mandate requirements.


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<p>the National Board for Wildlife as applicable before issue of permit/Consent to establish by the Competent Authority/before starting any activity at site.....".</p>	
<p>The DD in his letter No.Roc.No.305/2022/Mines dated 09.03.2022 had only forwarded the views of proponent and had not given any specific recommendation for the non-operative period.</p>	<p>We have given vide representation to the Deputy Director, Geology and Mining, Krishnagiri for the non-operation period for want of NBWL clearance and request DD, G & M to furnish the permit quantity. In this regard the Deputy Director, Geology and Mining, Krishnagiri have given detailed reply to the same</p>
<p>Rs.2 Lakhs has been levied by SEAC towards failure of PP to comply with specific condition as laid in EC and directed the PP to pay the amount to EMAT, Tamil Nadu. Further it is suggested that SEAC may obtain a clarification from the Chief Wild Life Warden/Forest Department/NBWL on the action against contravention of NBWL Act, whether this quarrying operation attracts any penal provisions under the Wildlife Protection Act.</p>	<p>Formal letter with regard to SEIAA query has been submitted at the office of Chief Wild Life Warden by the PP and awaiting reply.</p>
<p>The PP shall furnish CTO copy obtained from TNPCB.</p>	<p>After Receipt of Environmental Clearance, the Department of Geology and Mining issued quarrying permit</p>


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without Requirement of CTO until May 2017.

When approached Pollution Control Board for obtaining CTO it was informed to submit NBWL Clearance.

Now, the proposal Does not attract NBWL Clearance and we are seeking EC validity for Non operation period because as on date the EC validity is lapsed as per the order.

Therefore, unable to obtain CTO and now we assure that CTO shall be obtained after EC Validity extension.

Now, this proposal was taken up in 383rd SEAC meeting held on 15.6.2022. The PP gave a detailed presentation covering the above aspects. SEAC carefully examined the replies furnished and decided to reiterate the recommendation already made in the 319th SEAC meeting. All other conditions prescribed therein will remain unchanged.

Agenda No: 383-19

(File No: 8372/2021)

Proposed Red Earth and Pebbles quarry lease over an extent of 2.85.0 Ha at S.F.No. 58/1 (Part-1) of Kallamedu Village, Ufundurpet Taluk, Kallakurichi District, Tamil Nadu by Thiru.P.M.Gautham - For Environmental Clearance. (SI/TN/MIN/ 199607/2021 Dt. 22.02.2021)

Earlier, this proposal was placed in 252nd SEAC meeting held on 10.03.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

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


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license given by the Government for removal of minor minerals in the name of "Savudu" and other Colloquial terminologies and issued the following directions.

- i. There shall not be any grant of quarry lease without ascertaining the composition/component of the minerals and without obtaining the report from authorized lab. The Dept of Geology and Mining shall establish a lab on its own or shall authorize any lab in this regard.*
- ii. There shall not be any quarry operation in the name of colloquial terms/local terms and any lease shall be in accordance with minerals notified under section 3 (e) of the MMDR Act.*
- iii. A high-level committee has to be constituted, consisting of Geologists and Experts in the said field and eminent Officers from WRO, PWD to conduct a detailed study/survey on the possibility or the availability of the river sand on the adjacent patta lands to the rivers and those places, where sand is available, have to be notified and declared as protected zones and there cannot be any quarry operation other than by the Government, in those notified areas.*
- iv. The department of Geology and Mining, shall furnish the details of all the Savudu quarries granted so far, in the state of Tamil Nadu, to this court, within a period of eight weeks from the date of receipt of a copy of this order.*
- v. The details of all the savudu quarries shall also be furnished to the High Level Committee and High Level Committee shall inspect those quarries to ascertain the availability of sand in those quarries. In the event of High Level Committee ascertaining the availability of sand in these quarries, the same shall be reported to the Commissioner of Geology and Mining, marking a copy to this court and the Commissioner shall take necessary action as against the officials, who have granted quarry permits without ascertaining the composition of minerals.*
- vi. Any quarry operations shall be permitted only by way of lease agreement, as per Article 299(1) of constitution of India.*
- vii. The Government shall either adopt the Mineral Conservation Rules, 2017, framed by the Central Government or frame a separate Rule, as directed by the*


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Hon'ble Supreme court in Deepak Kumar's case, within a period of six months from the date of receipt of a copy of this order.

- viii. *Whenever, SEIAA clearance is required, it shall be done only physical inspection by deputing an officer attached to SEIAA, and depending upon the report further proceedings may take place in accordance with law and there must be a mechanism to ensure the conditions of SEIAA are strictly complied with.*

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

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

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

Now, this proposal was taken up in 383rd SEAC meeting held on 15.6.2022. The PP gave a detailed presentation and the SEAC decided to obtain following details from the PP.

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.
3. Registered lease document in the name of applicant.


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AGENDA No: 383 – 20

(File No: 8022/2022)

Proposed Black granite quarry lease over an extent of 1.68.5 Ha at S.F.Nos. 408/2B, 410/1A, 420/1A, 420/1B1 & 421/2B, Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu, by Tmt. Mohana Gopinath (Legal Heir) of Late.A.Gopinath (applicant) - For Environmental Clearance (SlA/TN/MIN/180892/2020 Dt. 28.10.2020)

Earlier, this proposal was placed in this 337th meeting of SEAC held on 13.12.2022. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, by Tmt. Mohana Gopinath (Legal Heir) of Late.A.Gopinath applied seeking Environmental Clearance for the proposed Black granite quarry lease over an extent of 1.68.5 Ha at S.F.Nos. 408/2B, 410/1A, 420/1A, 420/1B1 & 421/2B, Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006, as amended.
3. The proponent has not submitted the copy of approved scheme of mining for the period 2019-20 to 2023-24. Further it was informed that as per MCDR, Rules 1988, amended from time to time clause (5) and (6) if no decision was conveyed within the period of 90 days from the date of receipt mining plan/modified mining plan as the case may be, shall be deemed to have been provisionally approved and such approval shall be subject to the final decision whenever communicated.
4. The legal heir has furnished the supplementary lease executed from the competent authority.

Sl. No	Details of the Proposal	
1	Name of the Owner/Firm	: Late.A.Gopinath, S/o. ArasappaChetty


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		Mohana Gopinath (Legal Heir) Medumuthukottai, Balathottanapally Post, Denkanikottai Taluk, Krishnagiri District.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Black Granite
3	S.F No. of the quarry site with area break-up	: 408/2B, 410/1A, 420/1A, 420/1B1 & 421/2B
4	Village in which situated	: Karandapalli
5	Taluk in which situated	: Denkanikottai
6	District in which situated	: Krishnagiri
7	Extent of quarry (in ha.)	: 1.68.5 Ha
8	Period of quarrying proposed	: 5 years
9	Type of mining	: Opencast Semi Mechanized Mining
10	Production (Quantity in m ³)	: 7400m ³ of Black Granite
11	Latitude & Longitude of all corners of the quarry site	: 12°28'21.95"N to 12°28'24.95"N 77°41'57.08"E to 77°42'08.22"E
12	Topo Sheet No.	: 57-H/11
13	Man Power requirement per day:	: 36 Nos
14	Precise area communication approved by Secretary to Government, Industries (MMB3) Department with date	: G.O. (3D) No: 44, Industries (MMB3) Department dated: 26.03.2004
15	Mining Plan approved by Commissioner, Department of Geology and Mining with date	: Lr.No.1049/MM2/2003, dated:01.03.2004
16	Water requirement: 1. Drinking water & domestic purposes (in KLD)	: 5.0 KLD 2.0 KLD


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	2. Water sprinkling (in KLD)	1.0 KLD
	3. Wet drilling and Green Belt (in KLD)	2.0 KLD
17	Power requirement	
	a. Domestic Purpose	: TNEB
18	Depth of quarrying	: 31m bgl
19	Depth of water table	: 51m bgl
20	Whether any habitation within 300m distance	: No
21	Project Cost (excluding EMP cost)	: Rs. 32 lakhs
22	EMP cost	: Rs. 6.5 lakhs
23	CER cost	: Rs. 5 lakhs
24	Assistant Director, mines 500m cluster letter	: Roc. 127/2021/Mines, dated:15.02.2021
25	VAO certificate regarding 300m radius cluster	: Letter Furnished

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

The proposal was placed in the 582nd Authority meeting held on 09.01.2023. The authority noted that this proposal was placed for appraisal in this 337th meeting of SEAC held on 13.12.2022. The SEAC decided to recommend the proposal for the grant of Environmental Clearance for total production quantity ROM-24668 m³ with not exceeding the annual peak production capacity of ROM- 5300m³ by maintaining the ultimate depth of mining to 31m BGL subject to the standard conditions.

In view of the above, the authority after detailed discussion decided to call for the following additional particulars from the project proponent for further processing the proposal.

1. The project proponent shall submit the Mining Plan/scheme of mining plan approved by the Competent authority/Directorate of Geology and Mining.
2. Details of mining plan submitted to AD mines & Geology.


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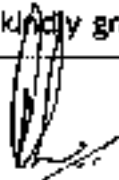
3. Details of remainder sent to AD mines & Geology

On the receipt of above said details, the authority decided to further course of action Based on the proponent's reply furnished by the PP on 09.02.2023. this subject has again been placed in the 595th Authority meeting held on 20.02.2023 & 21.02.2023. After Detailed discussion the Authority decided to request the Member Secretary SEIAA-TN to obtain following details and place before the Authority for the further course of action.

SEIAA query	PP reply
The PP shall Furnish the Approved/valid Mining plan from Competent Authority.	<p>1.The previous mining scheme between 2014-2019 was valid for five years. during this period we extracted overburden/wastages and recovery percentage is about 20% was proposed.</p> <p>2. During proposed mining Scheme between 2019- 2024, we have proposed 30% recovery as we have gone depth. In normal course of mining recovery % is more as we go deeper and deeper. therefore we have proposed recovery percentage @ 30%. keeping ROM Quantity is same.</p> <p>3.We would like clarify that since ROM quantity this proposed mining scheme is same as of previous mining scheme there will be no adverse impact on environment.</p> <p>Since we have clarified the reason for Increased recovery percentage from 20% to 30% and ROM being same. we earnestly request you to kindly grant us</p>


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Environmental Clearance at the earliest. Since we have left with only about 10 months before the expiry of our mining lease period.

Based on the proponent's reply furnished by the PP on 20.03.2023, this subject has again been placed in the 610th Authority meeting held on 11.04.2023. After detailed discussion, the Authority noted that the ROM of this scheme of mining is same as earlier scheme of mining. The recovery percentage is increased from 20% to 30%. Hence, the Authority decided to refer back to SEAC for getting specific remarks and recommendation.

This proposal was taken up in this 383rd SEAC meeting held on 15.6.2023 and the PP has made the detailed presentation along with approved mining plan for the period of 2019-20 to 2023-24.

Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC and the replies given by the PP. The SEAC after detailed discussion decided to call for the following details.

Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC and the replies given by the PP and decided as follows.

1. SEIAA may obtain clarification from the Director, Department of Mines & Geology, as to how the mine was allowed to operate without NBWL clearance & without CTO from TNPCB.

Agenda No: 383 -21.

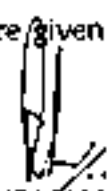
(File No: 8023/2020)

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

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


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The SEAC noted the following:

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

The SEAC noted the following

1. The Project Proponent, Tmt.Mohana Gopinath (Legal Heir of Late.Thiru.A.Gopinath) has applied for Environmental Clearance for the Black Granite Quarry lease over an extent of 0.76.0Ha at S.F.No.132/1A, 132/1B, 132/1C & 132/1D of Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The quarry lease was granted in G.O. (3D) No.44, Industries (MMB3) Department Dated 26.03.2004 for a period of 20 years. The lease deed was executed on 14.06.2004. The lease deed will expired on 13.06.2024. The quarrying operation commenced after getting the Government order.
4. The mining plan is approved by Director, Geology and Mining, Chennai Vide Roc. No. 1049/MM2/2003 Dated 01.03.2004. However, the quarry is being operated with 'Deemed Mining Plan' & "Deemed Review of Scheme' under MCDR.
5. However, the Earlier EC was issued to the project vide Lr.No.SEIAA-T /F.No 4563/EC/1(a)/2854/2015 dated 15.02.2016 stipulates that.
".....subjected to specific condition that the Environmental clearance is subject to obtaining prior clearance from Forestry and wildlife angle including clearance from the standing committee of the National Board for Wildlife as applicable before issue of permit/Consent to establish by the Competent Authority/before starting any activity at site....."
6. Further, the PP had applied for grant of extension of validity of EC for the extraction of remaining quantity of black granite on 12.03.2021 when the subsisting EC is held by the proponent which fulfills the eligibility to obtain the extension of EC validity under the MoEF Notifications issued under MoEF


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CC OM No. J-11011/15/2012-IA.II (M). Dated. 20.03.2015 & MoEF CC S.O No. 1141 (E). Dated. 29.04.2015.

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

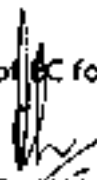
Here, the SEAC had observed the MoEF&CC Notification S.O. 1247(E). dated the 18 January, 2021, stating that *".....the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearances granted under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

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

11. Further, the PP had applied for grant of extension of validity of EC for the


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extraction of remaining quantity of black granite on 12.03.2022 when the subsisting EC is held by the proponent which fulfills the eligibility to obtain the extension of EC validity under the MoEF Notifications issued under MoEF CC OM No. J-11011/15/2012-LA.II (M), Dated. 20.03.2015 & MoEF CC S.O No. 1141 (E), Dated. 29.04.2015.

12. The SEAC have also observed that the PP have applied for the extension of validity of Environment Clearance (EC) when the lease period is alive and having the Approved Mining Plan valid till 08.11.2025 under the provisions of Rule 22 (6) of Mineral Concession Rules 1960 which states that

"... The mining plan once approved shall be valid for the entire duration of the lease...."


13. Here, the Cauvery (North) Wild Life Sanctuary is located at a distance of 2.50 km west from the quarry lease site.

14. However, due to the notified Cauvery North Wildlife Sanctuary, the quarrying operation was suspended from May 2017 to May 2020 for obtaining the NBWL clearance from the Competent Authority due to MOEF draft notification as the buffer zone for Cauvery Wild Life Sanctuary was falling within 10 kms from the quarry.


15. Now, the PP has submitted NOC from Wildlife Warden, Hosur Forest Extension vide Proc. No.6526/2017/L Dated: 04.10.2019 in regard to Cauvery North Wildlife Sanctuary based on PCCF & CWLW Ref.no. WLS(A)/42997/2017 Dt:25.09.2019. Earlier, the quarry operation was stopped from 01.05.2017 to 31.05.2020 due to non-availability of NBWL clearance.

16. During Presentation the PP has informed the following.

- a) The PP has submitted death certificate of applicant and legal heir certificate
- b) Application for review of scheme of mining plan was submitted on 01.04.2019.
- c) In regard to approval of review of scheme of mining plan by Commissioner of Dept. Of Geology & Mining.


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

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

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

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

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

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

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

17. At present, the mining plan is valid until 2024 & the production should not exceed the quantity of ROM - 5,935m³ (Recovery @30% of Black Granite = 1480 m³& Waste/ reject @ 70% = 3455 m³). The ultimate depth of mining upto 30m BGL


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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 subject to the certain conditions stated therein.

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


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

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

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

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

The proposal was again placed for appraisal in 366th meeting of SEAC held on 30.03.2023. During committee meeting the PP has submitted the copy of Certified Compliance Report (CCR) Dt:15.12.2022 from IRO (SEZ), MoEF&CC, GOI in regard to queries raised by 337th SEAC Meeting held on 13.12.2022 and the SEAC noted that in the said certified compliance report it was reported that the PP has not obtained


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Consent to Establish (CTE) and Consent to Operate (CTO) from TNPCB for the earlier EC period.

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

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


Subsequently, the subject was placed in 613th authority meeting held on 21.04.2023. The authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 30.03.2023.

In this connection, the project proponent has furnished reply, this proposal was again placed for appraisal in 383rd meeting of SEAC held on 15.06.2023. During presentation the PP has furnished reply as follows

Sl No	SEIAA query	PP reply
1.	The failure to obtain the CTO/CTE	<p>1. We have obtained environmental clearance for the above quarry, vide Lr. NO SEIAA-TN /F.NO.4593 /EC/1(a)/3057/2015 dated.02.03.2016.</p> <p>2.At that time our above quarry was falling under Cauvery wild life sensitive zone where No mining operations is permissible within 10 KMS from the above sensitive zone later in the year 2022 the distance was reduced to 1 KM.</p> <p>3. After the receipt of Environmental Clearance we have approached Tamil Nadu Pollution control board HOSUR for NOC. Our application was rejected for the reason that the quarry is falling under Cauvery wild life sensitive zone, and we have been asked</p>


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		<p>come back after obtaining NBWL clearance.</p> <p>4. Immediately we have applied for NBWL clearance there was considerable delay from Central Government and state government due to various technical reasons. finally we have been granted NBWL clearance. vide letter no Proc.No.6526/2017/L. dated 4.10.2019.</p> <p>5. After the receipt of NBWL clearance we have once again approached TPCB, our application was again rejected that time due to lapse of Mining Scheme in April 2019.</p> <p>6. In spite of our sincere efforts we could not able to get NOC from TPCB due to abnormal delay in granting NBWL clearance, and further delay in approving Mining scheme by Department of Geology and Mines. We request you to kindly Condone us for not obtaining CTO from TNPCB which was beyond our control.</p>
2.	Failure to carry out the plantation	Planation Photos Endosed
3.	free silica report of the persons employed in the mine during the previous EC period	Free Silica test reports of the persons employed in the mines is enclosed.

Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC and the replies given by the PP. The SEAC after detailed discussion decided as follows.

1. SEIAA may obtain clarification from the Director, Department of Mines & Geology, as to how the mine was allowed to operate without NBWL clearance & without CTO from TNPCB.


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Agenda No: 383- 22

(File No: 8940/2022)

Proposed Rough stone & gravel quarry lease over an extent of 2.35.5Ha in S.F.No:72/1, 72/2, 72/3 Myleripalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu by Thiru. Ammasaiappan - For Environmental Clearance. (SIA/TN/MIN/77782/2022 Dt. 09.06.2022)

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.Ammasaiappan** has applied for Environmental Clearance for the Rough stone & gravel quarry lease over an extent of 2.35.5Ha in S.F.No:72/1, 72/2, 72/3 Myleripalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item I (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. ToR vide, Lr No.SEIAA-TN/F.No. 8940/SEAC/ToR- 1128/2021 Dated: 23.03.2022
4. Public Hearing Conducted on 30.01.2023
5. The precise area communication was issued for the period of 5 years. The approved mining plan is for the period of five years & production should not exceed 2,00,299 cu.m of Rough Stone & 12212 Cu.m of Gravel. The annual peak production is 40,288 cu.m of Rough Stone (4th Year). The ultimate depth is 32m BGL.
6. Earlier, the proposal was placed for appraisal in 324th SEAC meeting held on 21.10.2022. Based on the presentation and documents furnished by the project proponent, EIA Coordinator informed that public hearing is yet to be conducted. Hence, SEAC noted and decided to take up the proposal for appraisal in the forthcoming meeting after the receipt of minutes of public hearing with proper EIA & EMP.
7. Subsequently, the proposal was placed in the 569th Authority meeting held on 10.11.2022 & 11.11.2022. The authority decided to request the Member Secretary,


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SEIAA to communicate the SEAC minutes to the project proponent held on 21.10.2022.

Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	: Thiru.A. Ammasalappan S/o. Arasey Gounder. No. 4/90A, S.K.M.S Illam, Kurumbapalayam Madukkarai Taluk, Coimbatore District
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	: Rough stone & gravel
3.	S.F Nos. of the quarry site with area break-up	: 72/1, 72/2, 72/3
4.	Village in which situated	: Myteripalayam
5.	Taluk in which situated	: Madukkarai
6.	District in which situated	: Coimbatore
7.	Extent of quarry (in ha.)	: 2.35.5 Ha
8.	Latitude & Longitude of all corners of the quarry site	: 10°51'50.37519"N to 10°51'58.03831" N 77°02'05.87456"E to 77°02'10.29629" E
9.	Topo Sheet No.	: 58F/1
10.	Type of mining	: Opencast Semi-Mechanized Mining
11.	Life of Project	: 5 Years
	Lease Period	: 5 Years
	Mining Plan Period	: 5 Years
12.	Mining Plan Details	: As per approved Mining Plan
	Geological Resources m ³ (RoM)	: Rough Stone (m ³) Gravel (m ³) 2,59485 12,212
	Mineable Resources m ³ (RoM)	: Rough Stone (m ³) Gravel (m ³) 216315 12,212
	Annual Peak Production in m ³	: Rough Stone (m ³) Gravel (m ³) 200299 12,212
	Ultimate Depth in meters	: 32 m
13.	Depth of water table	: 40- 42m


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14.	Man Power requirement per day:	:	19 Nos.												
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	3.0 KLD 1.0 KLD 2.0 KLD												
16.	Power requirement	:	TNEB												
17.	Predse area communication approved by the Department of G&M.	:	Na.Ka.No.453/Kanmam/2021. Dated 16.12.2021												
18.	Mining Plan approved by Department of G&M.	:	Rc.No.453/Mines/2021, Dated 31.12.2021												
19.	Department of G&M, Deputy Director 500m Cluster Letter	:	Rc.No.453/Mines/2021, Dated 31.12.2021												
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated: 04.01.2022												
21.	Project Cost (excluding EMP cost)	:	Rs.36.10 Lakhs												
22.	EC Recommendation	:	1st Five Years as per approved mining plan <table border="1"> <thead> <tr> <th></th> <th>Rough Stone</th> <th>Gravel</th> </tr> </thead> <tbody> <tr> <td>Max Total RoM in m³</td> <td>210480 m³ (Recovery - 200299 m³)</td> <td>12212 m³</td> </tr> <tr> <td>Annual Max RoM in m³</td> <td>42408</td> <td></td> </tr> <tr> <td>Max Depth in mtrs</td> <td>32 m</td> <td></td> </tr> </tbody> </table>		Rough Stone	Gravel	Max Total RoM in m ³	210480 m ³ (Recovery - 200299 m ³)	12212 m ³	Annual Max RoM in m ³	42408		Max Depth in mtrs	32 m	
	Rough Stone	Gravel													
Max Total RoM in m ³	210480 m ³ (Recovery - 200299 m ³)	12212 m ³													
Annual Max RoM in m ³	42408														
Max Depth in mtrs	32 m														
23.	EMP cost (in Rs. Lakh).	:	Rs. 44.88 Lakhs/ 5 Years including capital & recurring cost with 5% Inflation cost anticipated every year.												


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24.	CER cost (in Rs. Lakh).	:	Rs. 5 Lakhs
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In this connection, the project proponent has furnished reply vide Lr. dt:30.03.2023. The proposal was again placed for appraisal in 383rd meeting of SEAC held on 15.06.2023.

Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC and the replies given by the PP. The SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 2,00,299 cu.m of Rough Stone & 12212 Cu.m of Gravel and the annual peak production shall not exceed 40,288 cu.m of Rough Stone & 12212 Cu.m of Gravel by restricting the ultimate depth of mining upto 32m BGL and for the period five Years subject to the standard conditions as per the Annexure 1 of this minutes & normal conditions stipulated by MOEF &CC. in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the



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commencement of mining, Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.

- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) 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.
- 8) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 9) 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 should be adopted by considering the wind direction.
- 10) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 11) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 12) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 13) Perennial sprinkling arrangements 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.
- 14) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate



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noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.

- 15) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 16) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. 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.
- 17) Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
- 18) Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 19) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 20) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.


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- 21) No 'Deep-hole large diameter drilling and blasting' is permitted.
- 22) However, the PP shall carry out the scientific studies to design the controlled blasting parameters to minimise the blast-induced ground / air vibrations and to control the fly rock within one year from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 23) 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. 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.
- 24) The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall after the completion of 3 years of operation, by involving any one of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation. If applicable.
- 25) 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.
- 26) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall


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complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.

- 27) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 28) 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 desiltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 29) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 30) 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.
- 31) 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.
- 32) 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.
- 33) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.


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- 34)The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 35)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.
- 36)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.
- 37)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.
- 38)As per the directions contained In the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 39)The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.


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40) 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.

41) As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the Government High School, Mylaripalyam Village before obtaining CTO from TNPCB.

Agenda No: 383- 23.

(File No. 6672/2018)

Existing Limestone mine over an extent of 21.66.5 Ha at S.F. No. 631/9, Devannagoundanur Village, Sankari Taluk, Salem District, Tamil Naduby M/s. Super Mines and Minerals -for Environmental Clearance. (Final EIA Report). (SIA/TN/MIN/37038/2018 Dt:31.05.2019).

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

The SEAC noted the following

1. The Project Proponent, M/s. Super Mines and Minerals has applied for Environmental Clearance along with Final EIA Report for the existing Limestone mine over an extent of 21.66.5 Ha at S.F. No. 631/9, Devannagoundanur Village, Sankari Taluk, Salem District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item I(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier Environmental Clearance obtained Vide MoEF, Gov. Lt. No. J-11015/14/99-IA, II(M) Dt:19.05.2000.
4. Application for ToR vide online proposal No. SIA/TN/MIN/28302/2018 dated:18.07.2018.
5. The ToR with public hearing for carrying out the EIA study issued vide SEIAA, Lt. No. SEIAA -TN/ F.No.6672/2018TOR-596/2019, Dt: 11.01.2019.
6. The project proponent has obtained Mining lease vide G.O.(3D), No.24, Industries (MMB-1) department Dated 23.03.1998 but it expired on 22.03.2018 (for 20 years). However, the PP has not obtained any order (or) communication


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regarding the deemed extension of the validity of the mining lease from the Competent authority from the State Government under the provisions of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 Dt:26.03.2015.

7. In the meanwhile, the project proponent has obtained the approved 'Review of Mining Plan' (Including Progressive Mine closure plan) under Rule 16 of Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016, from Indian Bureau of Mines (IBM), (Ministry of Mines) vide Lr. TN/SLM/LST/ROMP/1495MDS Dt:24.05.2018 subject to extension of the validity of the mining lease by State Government as per MMDR Act, 2015 (Amended).


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

1. The PP shall submit revised EIA/EMP, incorporating points raised in public hearing, if any.
2. Certified compliance report obtained from IRO, Chennai/MoEF & CC (or) the concerned DEE/TNPCB.
3. G.O/letter indicating the extension of Mining lease under the Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016 obtained from the Competent Authority, State Dept of Geology and Mining, Govt of Tamil Nadu.
4. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
5. Details regarding the copy of correspondence / no. of permits issued by the concerned AD/DD, (Geology and Mining) for the previous EC period.
6. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.

On the receipt of the additional particulars, further deliberation will be carried out in the forthcoming Committee Meeting.


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Subsequently, the proposal was placed in the 581st Authority meeting held on 22.12.2022. The authority after detailed discussion decided to call for the following additional particulars from the project proponent in addition to the said additional particulars sought by the SEAC as follows

- i. Copy of approved letter & review of scheme of mining plan by the competent authority (IBM).
- ii. Detailed study on type of vegetations including no. of trees & shrubs, keystone species, Vulnerable species, & Threatened Species within the proposed mining area and, if so, transplantation of such vegetations all along the boundary of the proposed mining area along with action plan for protection of such said species shall be committed in EMP.
- iii. List of trees shall be enumerated within the proposed mining area.
- iv. Detailed study on loss to biodiversity, soil erosion, GHC, Co2 emission, Agriculture, Water table, Surface & underground drainage pattern due precipitation/rainfall & Temp. raise and its remediation/mitigation strategies shall be committed in EMP.

In this connection, the project proponent has furnished reply. The proposal was again placed for appraisal in 383rd meeting of SEAC held on 15.06.2023. During presentation the PP has requested to defer the proposal to submit the required details. Therefore, SEAC decided to defer the proposal.

Agenda No.383 - 24.

(File No. 8212/2021)

Proposed Rough Stone, Jelly & Gravel Quarry lease over an extent of 0.87.0Ha at S.F.No.660/1 (P) of Kodaganallur Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by Tmt.K.Muthupappa - For Environmental Clearance. (SIA/TN/MIN/189846/2020, Dt: 05.01.2021)

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 of Tmt.K.Muthupappa has applied for Environmental Clearance Proposal for quarrying of Rough Stone, Jelly & Gravel Quarry lease


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over an extent of 0.87.0Ha at S.F.No.660/1 (P) of Kodaganallur Village, Tirunelveli Taluk, Tirunelveli 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.Precise area communication period is 5 years. The mining plan is for the period of 5 years & the production should not exceed 75480Cu.m of Rough Stone, 1645 Cu.m of Gravel, & 6534 cu.m. of Weathered Rock. The annual peak production 17235Cu.m of Rough Stone(1st Year). The ultimate depth – 34m BGL.
- 4.Earlier, the proposal was placed for appraisal in 323rd meeting of SEAC held on 20.10.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to ask for the following additional details from the PP,
 1. Documentary evidence from the concerned District Forest Officer showing the exact distance of location of the nearest reserve forest/protected areas/wild life sanctuary/ bird sanctuaries from the proposed quarry site.
 2. As no provision has been made to show the safety berm, possessing atleast the dimension of bench width fulfilling the legal provisions of MMR 1961, in the weathered rock and rough stone strata, the PP shall furnish a revised mining plan & sections approved by the AD (Geology & Mining) Indicating proper bench geometry and fencing photographs.
 3. Certified compliance report obtained from IRO, Chennai/MoEF & CC (or) the Concerned DEE/TNPCB. On receipt of the above details, SEAC would further deliberate on this project and decide the further course of action.
5. Subsequently, the proposal was placed in the 568th Authority meeting held on 09.11.2022. The authority after detailed discussion decided to call for the details of impact on water table.

Sl. No	Salient Features of the Proposal
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1.	Name of the Owner/Firm	:	Tmt.X.Muthupappa No.116. Senthamil Nagar Vagalkulam Village Near Pettai Tirunelveli District - 627010		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone, Jelly & Gravel		
3.	S.F Nos. of the quarry site with area break-up	:	660/1 (P)		
4.	Village in which situated	:	Kodaganallur		
5.	Taluk in which situated	:	Tirunelveli		
6.	District in which situated	:	Tirunelveli		
7.	Extent of quarry (in ha.)	:	0.87.0Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	08°43'45"N to 08°43'48"N 77°34'53"E to 77°34'57"E		
9.	Topo Sheet No.	:	58- H/10		
10.	Type of mining	:	Opencast Semi-Mechanized Mining		
11.	Life of Project	:	5 Years		
	Lease Period	:	5 Years		
	Mining Plan Period	:	5 Years		
12.	Mining Plan Details	:	As per approved Mining Plan		
	Geological Resources m ³ (RoM)	:	Rough Stone m ³	Gravel m ³	Weathered Rock m ³
			259980	8666	25998
	Mineable Resources m ³ (RoM)	:	Rough Stone m ³	Gravel m ³	Weathered Rock m ³
			75480	1654	6534
	Annual Peak Production in m ³	:	Rough Stone m ³	Gravel m ³	Weathered Rock m ³
17235			1654	6534	


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	Ultimate Depth in meters	:	34 m			
13.	Depth of water table	:	58 m			
14.	Man Power requirement per day:	:	16 Nos.			
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD			
16.	Power requirement		TNEB			
17.	Precise area communication approved by the Department of G&M.	:	Rc.No.MI/41691/2017. Dated:07.09.2020.			
18.	Mining Plan approved by Department of G&M.	:	Rc.No.MI/41691/2017. Dated:05.10.2020			
19.	Department of G&M, Deputy Director 500m Cluster Letter		Rc.No.MI/41691/2017, Dated: 30.11.2020			
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dt: 19.10.2020			
21.	Project Cost (excluding EMP cost)	:	Rc. 52.83 Lakhs			
22.	EC Recommendation		1st Five Years as per approved mining plan			
		:		Rough Stone m ³	Gravel m ³	Weather ed Rock m ³
		:	Max Total RoM in m ³	75480	1654	6534
		:	Annual Max RoM in m ³	17235	1654	6534
		:	Max Depth in mtres	m		


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23.	EMP cost (in Rs. Lakh).	:	Rs. 68.60 Lakhs/ 5 Years including capital & recurring cost with 5% inflation cost anticipated every year.
24.	CER cost (in Rs. Lakh).	:	Rs. 5 Lakhs

In this connection, the project proponent has furnished reply vide Lr. dt:17.03.2023 received on 21.03.2023.

S.No.	Raised ADS	PP Reply
1.	Documentary evidence from the concerned District Forest Officer Showing the exact distance of location of the nearest reserve forest/protected areas/wild life sanctuary/bird sanctuary from the proposed quarry site.	<ul style="list-style-type: none"> ● Letter from District Forest Officer and Wildlife Warden, Tirunelveli Division vide C.No. D/11013/2022 Dated 27.11.2022. ● From the DFO Letter, it is observed that the nearest RF is Kolunthumamalal, which is located at the distance of 8.20 km from the proposed quarry site ● Kalakad Mundanthurai Tiger Reserve is the nearest Wildlife Sanctuary, which is located at the distance of 14.30 km from the proposed quarry.
2.	As no Provisions has been made to show the safety berm, possessing at least the dimension of bench width fulfilling the legal provisions of MMR 1961, in the weathered rock and rough stone strata, the PP shall furnish a revised mining plan & sections approved by the AD(Geology and Mining) indicating proper	<ul style="list-style-type: none"> ● As suggested, Revised Mining Plan providing adequate safety berm has been prepared. The same is enclosed as Annexure - 2. Revised production capacity is 1,645m³ Gravel, 6534m³ Weather Rock and 48,050m³ rough stone up to a depth of 34m for 5 years lease period as against mining plan approved production capacity of 1,645m³ Gravel, 6534m³ Weather Rock and 75,490m³ rough stone for a depth of 34m for five years.


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	bench geometry and fencing photographs.	<ul style="list-style-type: none"> ● Revised Yearwise Plan & Section. Conceptual plan & Section given in Figure No - 1 & 4 ● Photographs of the fencing
3.	Certified Compliance report obtained from IRO, Chennai/MoEF & CC (or) the concerned DEE/TNPCC.	Environmental Clearance Compliance Report Certified by Ministry of Environment, Forest and Climate Change Integrated Regional Office, Shastri Bhawan, Haddows Road, Nungambakkam, Chennai.
568th Meeting - ADS RAISED BY SEIAA dated - 09.11.2022		
4.	Details of impact on the water table	Ground water impact were assessed by the Geophysical study (Schlumberger Electrical Resistivity Survey)

The proposal was again placed for appraisal in 383rd meeting of SEAC held on 15.06.2023. During presentation the PP has made the representation covering the said points.

Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC and the replies given by the PP and SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of ^{48,050} 75480 m³ of Rough Stone, 1654 m³ of Gravel, & 6534 m³ of Weathered Rock and the annual peak production shall not exceed 17235 m³ of Rough Stone, 1654 m³ of Gravel, & 6534 m³ of Weathered Rock by restricting the ultimate depth of mining upto 34m BGL and for the period five Years subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF & CC. In addition to the following specific conditions:

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


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- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) 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.
- 8) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 9) 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 should be adopted by considering the wind direction.
- 10) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be



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diverted for other purposes. Year-wise expenditure should be included in the HYCR.

- 11) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 12) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 13) Perennial sprinkling arrangements 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.
- 14) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 15) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 16) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. 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.
- 17) Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.


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- 18) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 19) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 20) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 21) No 'Deep-hole large diameter drilling and blasting' is permitted.
- 22) However, the PP shall carry out the scientific studies to design the controlled blasting parameters to minimise the blast-induced ground / air vibrations and to control the fly rock within six months from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 23) 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. 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.


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- 24)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.
- 25)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 as per the Environmental Management Plan& the approved Mine Closure Plan.
- 26)The PP shall carry out the scientific studies to assess the slope stability of the quarry wall and benches during the 3rd year of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SELAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 27)Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 28)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.
- 29)The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 30) 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


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

- 31) 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.
- 32) 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.
- 33) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skilful, 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.
- 34) 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.
- 35) 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.
- 36) 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.
- 37) 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.


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38) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

39) 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.

40) 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.

41) As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the Government School, Nadukallur village before obtaining CTO from TNPCB.

Agenda No: 383 – 25.

(File No. 9353/2022)

Proposed Gravel quarry lease over an extent of 4.17.66Ha at S.F.No.1438/1B, 1438/2B, 1438/3, 1438/1C, 1438/2C, 1486/1A and 1486/1B of Shanmugasundrapuram Village, Andipatti Taluk, Theni District, Tamil Nadu by Thiru.N.Gubendran for Environmental Clearance.(SIA/TN/MIN/276517/2022. dt: 07.06.0222)

Earlier, the proposal was placed in this 314th Meeting of SEAC held on 23.09.2022. 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 project proponent, Thiru.N.Gubendran has applied for Environmental Clearance for the proposed Gravel quarry lease over an extent of 4.17.66Ha at S.F.No.1438/1B, 1438/2B, 1438/3, 1438/1C, 1438/2C, 1486/1A and 1486/1B of Shanmugasundrapuram Village, Andipatti Taluk, Theni District.


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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. As per the mining plan, the lease period is 3 Year. The mining plan is for the period of 3year & the production should not exceed 66638 m³ of Gravel. The maximum depth of mining would be 2 metres below ground level.
4. The salient features of the proposed mining activity as follows

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru.N.Gubendran S/o.S.Natarajan Pillayar Kovil Street B.Ammapatti Bodinaickanur Theni District - 625528
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Gravel
3	S.F No. Of the quarry site with area break-up	1438/1B, 1438/2B, 1438/3, 1438/1C, 1438/2C, 1486/1A and 1486/1B
4	Village in which situated	Shanmugasundrapuram
5	Taluk in which situated	Andipatti
6	District in which situated	Theni
7	Extent of quarry (in ha.)	4.17.66 Ha
8	Latitude & Longitude of all corners of the quarry site	09°58'58.77"N to 09°59'05.49"N 77°32'09.69"E to 77°32'19.42"E
9	Topo Sheet No.	58 - G/09
10	Type of mining	Opencast Shallow Mining
11	Period of quarrying proposed	3 years
12	Production (Quantity in m ³)	66,638m ³ of Gravel
13	Depth of quarrying	2m
14	Depth of water table	33m BGL
15	Man Power requirement per day:	6Nos.
16	Source of Water Requirement	water vendors


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17	Water requirement: 4. Drinking & domestic purposes (in KLD) 5. Dust suppression, Green Belt & Wet Drilling (in KLD)	: 1.0 KLD 0.3 KLD 0.4 KLD 0.3 KLD
18	Power requirement	TNEB
19	Whether any habitation within 300m distance	No
20	Precise area communication approved by the District Collector, with date	Rc.No.856/Kanimam/2021. dt:08.04.2022
21	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	Rc.No.856/2021/Mines, dt:26.04.2022
22	Assistant Director, Department of Geology and Mining 500m cluster letter	Rc.No.856/2021/Mines. dt:06.05.2022
23	VAO certificate regarding 300m radius cluster	Letter dt: 26.04.2022
24	Project Cost (excluding EMP cost)	Rs.24.26 Lakh
25	EMP cost	Rs.15.23 Lakhs/ 3 Years
26	CER cost	Rs.1.5 Lakhs as conservation measure for Srivilliputhur Megamalai Tiger Reserve to DFO, Theni.

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

- i) NBWL Clearance as the proposed site lies within the default 10 km distance from the Srivilliputhur, Megamalai Tiger Reserve.
- ii) The proponent should produce a letter from the concerned Asst Director (Geology & Mines) stating that the location of quarry site does not lie adjoining to the rivers, streams, canals and also does not come under any notified/declared protected zones in terms of the above Judgment.

Subsequently, the subject was placed in 560th authority meeting held on 17.10.2022. The authority after detailed discussion decided to call for the following additional particulars from the project proponent as follows


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- a) Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area from reputed research institutions on the following
- b) Top soil, Soil health, bio-diversity, Agriculture, Forestry & Traditional practices.
- c) Aquifer in the vicinity, Ground water potential and impact on surrounding wells and other surface water bodies.
- d) Climate change leading to Droughts, Floods etc.
- e) Aquatic & terrestrial vegetation in regard to pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
- f) Possibilities of water contamination and impact on aquatic ecosystem health and wetlands.
- g) Hydrothermal/Geothermal effect due to destruction in the Environment.
- h) Bio-geochemical processes and its foot prints including environmental stress.
- i) Sediment geochemistry in the surface streams & and water bodies.
- j) Erosion, Loss of habitat and land scape changes.

In this regard, the PP has furnished reply vide Ir Dt:27.02.2023 and submitted copy of PCCF& CWW letter Dt:21.01.2023.

S.No.	Raised by SEIAA	PP Reply
614 th SEIAA Meeting dated - 25.04.2023		
1.	The PP shall submit NOC from Agricultural department that the proposed mining lease area is not fit for agriculture purpose	● NOC from Agriculture and Farmers Welfare Department furnished
2.	NOC for Local Panchayat	● NOC from the President Thirumalapuram Panchayat, Theni District furnished
3.	The PP shall furnish details of Impacts and mitigation measures on agricultural fields, Aquifers, drainage pattern.	<ul style="list-style-type: none"> ● The proposed mining operation is for the production of 66, 638 m³ of gravel for the period of three years only. ● Water table around the proposed area


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water table around the proposed mining area

is observed at the depth of 33m BGL and the proposed depth is only 2m. As such no intersection of ground water table and subsequent impact on this front is envisaged.

- There are no perennial water bodies nearby. However there is a nilaviyal dry odai present eastern side of the lease area for which 10m safety distance as per the prede area is left.
- Letter from Assistant Director, Department of Geology and Mining, Theni in this regard is obtained and enclosed as Annexure 3 which states that this nilaviyalodal does not comes under any notified or declared protected zones. No rivers and other water bodies situated adjacent to the applied area.
- Proposed production quantity, depth of mining, method of mining (without drilling & blasting) and the magnitude of operation are very less. Besides, no major agricultural activities are carried out in the lease vicinity.
- As such by carrying out scientific mining after implementing various mitigative measures like peripheral fencing with wire netting, carrying out water sprinkling arrangements, avoiding


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	overloading of trucks, covering of mineral carrying trucks with tarpaulin, installing wheel washing facility, construction of surface runoff structures like peripheral garland drain with settling pond arrangements will ensure that there is no adverse impact on the agricultural fields if any, aquifers, drainage pattern and water table around the proposed mine lease area due to the proposed quarrying operations.
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The proposal was again placed for appraisal in 367th meeting of SEAC held on 31.03. 2023. Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC and the replies given by the PP and SEAC decided to recommend the proposal for the grant of Environmental Clearance *for the period of 3 Years* for the production quantity of 66.638m³ of Gravel but annual peak production capacity of not exceeding 22212 m³ of gravel by maintaining the ultimate depth of mining of 2m BGL subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions stated therein.

Subsequently, the subject was placed in 614th authority meeting held on 24 .04.2023 & 25.04.2023. The authority noted that the proposed mining area is surrounded by agricultural fields. Therefore, Authority after detailed discussion decided to refer back the proposal to SEAC and decided to direct the PP to furnish following additional particulars

- i) The PP shall submit NOC from Agricultural department that the proposed mining lease area is not fit for agriculture purpose.
- ii) NOC for Local panchayat.
- iii) The PP shall furnish details of impacts and mitigation measures on agricultural fields, Aquifers, drainage pattern, water table around the proposed mining area.


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In this connection, the project proponent has furnished reply vide Lr. dt: 12.06.2023. The proposal was again placed for appraisal in 383rd meeting of SEAC held on 15.06.2023. Based on the presentation & documents furnished, the Committee carefully examined the points raised by SEAC/SEIAA and the replies given by the PP. The SEAC after detailed discussion decided to reiterate the recommendation already made in 367th meeting of SEAC held on 31.03.2023. All other conditions prescribed therein shall remain unchanged.

Agenda No: 383 – 26.

(File No. 9473/2022)

Proposed Rough stone & Gravel Quarry over an extent of 4.88.0Ha at SF.No.780, 781/1, 781/2, 782/1, 782/2(P), 783/1(P), 783/2(P), & 786 of Kumbikulam Village, Radhapuram Taluk, Tirunelveli District, Tamil Naduby Tvl.Mars Mining - for Environmental Clearance. (SI/VTN/MIN/291056/2022, Dt: 10.09.2022)

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

The SEAC noted the following:

1. Now, the Project Proponent, Tvl.Mars Mining has applied for Environmental Clearance for the proposed Rough stone & Gravel Quarry over an extent of 4.88.0Ha at SF.No.780, 781/1, 781/2, 782/1, 782/2(P), 783/1(P), 783/2(P), & 786 of Kumbikulam Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication/lease is issued for the period of 10 years. The approved mining plan is for the period of five years & production should not exceed 1098200m³ of Rough Stone & 128898m³ of Gravel & 200355m³ of Weathered Rock. The annual peak production shall not exceed 223300 m³ of Rough Stone (4th Year), 51558 m³ of Gravel (1st Year), & 73500 m³ of Weathered Rock (1st Year). The ultimate depth is 58m BGL.

The salient features of the proposed mining activity as follows


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Sl. No	Details of the Proposal	
1.	Name of the Owner/Firm	: Tvl.Mars Mining, Old No.4/131, New No.2, 15 th street, Sakshi nagar, Nerukundram.. Chennai-600107.
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough stone & Gravel
3.	S.F No. Of the quarry site with area break-up	: 780, 781/1, 781/2, 782/1, 782/2(P), 783/1(P), 783/2(P), & 786
4.	Village in which situated	: Kumbikulam
5.	Taluk in which situated	: Radhapuram
6.	District in which situated	: Tirunelveli
7.	Extent of quarry (In ha.)	: 4.88.0Ha
8.	Latitude & Longitude of all corners of the quarry site	: 08°18'02.67"N to 08°18'11.50"N 77°43'04.47"E to 77°43'12.46"E
9.	Topo Sheet No.	: 58 - H/11
10.	Type of mining	: Opencast Semi-Mechanized of Mining
11.	Lease/precise area communication period of quarrying proposed	: 5 years
12.	Mineable reserve	: 1098200m ³ of Rough Stone & 128898m ³ of Gravel & 200355m ³ of Weathered rock
13.	Ultimate pit depth & dimension upto life of mine/mineable reserve	: Depth - 58 m Dimension: A-A' & B-B' - 216m (L) X 115m (W) X 58m (D) A-A' & C-C' - 188m (L) X 42m (W) X 58m (D) A-A' & D-D' - 110m (L) X 93m (W) X 53m (D)
14.	Lease Period of quarrying	: 5 years


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15.	Production (Quantity In m ³) as per mining plan	: 1098200m ³ of Rough Stone & 128898m ³ of Gravel & 200355m ³ of Weathered rock
16.	Proposed Depth of quarrying as per mining plan	: 58 m
17.	Approved Ultimate Depth of quarrying as per SEAC recommendation	: 50m
18.	Pit dimension as per mining plan	: A-A' & B-B' - 216m (L) X 115m (W) X 58m (D) A-A' & C-C' - 188m (L) X 42m (W) X 58m (D) A-A' & D-D' - 110m (L) X 93m (W) X 53m (D)
19.	Revised Production (Quantity in m ³) as per SEAC recommendation upto 50m depth	: 101162m ³ of Rough Stone & 128898m ³ of Gravel & 200355m ³ of Weathered rock
20.	Depth of water table	: 65m BGL
21.	Man Power requirement per day:	: 25 Nos.
22.	Source of Water Requirement	: water vendors
23.	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	: 6.0 KLD 1.0 KLD 2.5 KLD 2.5 KLD
24.	Power requirement	: TNEB
25.	Whether any habitation within 300m distance	: No
26.	Precise area communication approved by the, District Collector's, Department of Geology and Mining with date	: Rc.No.M2/38457/2021. dt: 10.05.2022
27.	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Roc.No.M2/38457/2021. dt: 13.05.2022
28.	Assistant Director, Department of Geology and Mining 500m cluster letter	: Rc.No.M2/38457/2021. dt: 13.05.2022
29.	VAO certificate regarding 300m radius cluster	: Letter dt:18.07.2022
30.	Project Cost (excloding EMP cost)	: Rs.346.46 Lakh
31.	EMP cost	: Rs.206 Lakhs/5 Years including capital cost of Rs. 32.17 Lakhs &


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		slope study cost of Rs. 4 Lakhs & Blast vibration study cost of Rs. 4 Lakhs
32.	CER cost	Rs.7.00 Lakhs

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

1. The PP shall enumerate the permanent structures which are belongs to the PP & not belongs to the PP, situated within 100m, 200m & 300m radius of the proposed mining area.
2. The PP shall furnish a report on the scientific studies carried out for the 'Impact of blast-induced ground and fly rock due to the proposed Quarrying on the Surrounding Structures including Wind Mills and Habitations located within 200 m from the quarry lease', from any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Rock Mechanics (NIRM)-Bangaluru, IIT (ISM)-Dhanbad, NIT- Dept of Mining Engg. Surathkal.
3. The Project proponent shall furnish revised EMP including mine closure plan.
4. The Project proponent shall furnish revised production quantity for ultimate depth of mining up to 50m.
5. The project proponent shall photograph of barbered wire fencing and green belt provided.

Subsequently, the subject was placed in 578th SEIAA meeting held on 17.12.2022. In this regard, the PP has furnished reply vide Ir Dt:22.02.2023 and submitted copy of design of controlled blasting to reduce ground vibrations to eliminate fly rocks from proposed mining area by Dept. of Mining Engineering, CEG, Anna University Chennai.

The proposal was again placed for appraisal in 367th meeting of SEAC held on 31.03. 2023. During the meeting the PP presented the replies to the queries raised in the 333rd meeting of SEAC held on 01.12.2022 & 578th SEIAA meeting held on 17.12.2022, which is as follows.


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SL.NO	QUERY	REPLY
1	The PP shall enumerate the permanent structure which belongs to the PP and belongs to the PP, situated within 100m, 200m & 300m radius of the proposed mining area.	There are 4 structures within 300m radius. All these structures not belong to PP. Its details are shown in Figure no 1 & Enclosure - 1. There are no habitations within 300m zone. There is a wind mill located 160m W of the lease area. Although it is much beyond the followed norm of 60m, by carrying out systematic and scientific mining with controlled blasting it will be ensured that there will be no impact on this far away structure also.
2	The PP shall furnish a report on the scientific studies carried out for the 'impact of blast-induced ground and fly rock due to the proposed Quarrying on the Surrounding Structures including Wind Mills and Habitations located within 200 m from the quarry lease, from any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Rock Mechanics (NIRM)-Bangalore, IIT (ISM)-Dhanbad MIT-Copco Mining Engrg. Societial.	Scientific studies and Design of controlled blasting to reduce the ground vibrations and eliminate the fly rock from the proposed rough stone and gravel quarry is carried out through Department Of Mining Engineering College Of Engineering, Guindy Anna University, Chennai 600025. Study report is given vide Enclosure - 2. Study concludes that "it can be concluded that the controlled blasting using NONEL initiator system by limiting maximum explosive charge per delay did not produce peak particle velocities (blast vibrations) greater than 2 mm/s at the locations of the interest, namely, windmill villages and other buildings implying that they are safe". All the suggestions and recommendations given in the report like drilling pattern, blasting pattern, initiating sequence, total charge to be used per blast, maximum charge per delay etc will be strictly adhered during the course of mining and it will be ensured that there is no adverse impact on the nearby structure due to proposed mining activities.

SL.NO	QUERY	REPLY
3	The Project proponent shall furnish revised EMP including mine closure plan.	The details of revised EMP coal is given in Enclosure No.3. During the mining it will be ensured that the entire lease periphery is properly fenced to prevent inadvertent entry of man and animals. Besides, good plantation will be carried out in the lease periphery. In the post mining stage, the entire mined out void will be left as water body which can be utilized locally. Progressive mine closure plan is given in approved mining plan.
4	The Project proponent shall furnish revised production quantity for ultimate depth of mining upto 50m.	The revised production quantity for ultimate depth of mining upto 50m is given in Enclosure - 4.
5	The project proponent shall photograph of barbed wire fencing and green belt provided.	The details of photograph of barbed wire fencing and green belt is given in Enclosure - 5.

Recommendations mentioned in the report on design of controlled blasting to reduce ground vibrations to eliminate fly rocks from proposed mining area by Depr. of Mining Engineering, CEG, Anna University Chennai as follows.

- In the proposed quarry of the project proponent, controlled blasting techniques like muffled blasting with conveyor belts & Tyres and line-drilling technique shall


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be followed to control the fly rock generation and ground vibration towards the windmill.

- ii. The proponent shall implement the trench to be formed around the boundary to reduce the ground vibrations propagate from the blasting operations as in the said report vide annexure VII.
- iii. It is strongly recommended to install the sheet piling along the proposed quarry boundary to reduce the impact of flyrock on the nearest structures.
- iv. It is suggested that to propose the haul road towards northwest direction of the proposed quarry to reduce the propagation of ground vibrations induced from blasting operations towards the windmill as in the said report vide Annexure VII.
- v. It is strongly recommended to conduct blast vibration study immediately after the commencement of quarrying operation.

Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC and the replies given by the PP and SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production of 1011162m³ of Rough Stone & 128898m³ of Gravel & 200355m³ of Weathered rock and the annual peak production shall not exceed 219650 m³ of Rough Stone, 73500 m³ of Weathered rock & 51558 m³ of Gravel and maintaining the ultimate depth of mining of 50m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions stated therein.

Subsequently, the subject was placed in 614th authority meeting held on 24 .04.2023 & 25.04.2023. The authority noted that the proposed mining area is surrounded by agricultural fields. Therefore, Authority after detailed discussion decided to refer back the proposal to SEAC and decided to direct the PP to furnish following additional particulars

- iv) The PP shall submit NOC from Agricultural department that the proposed mining lease area is not fit for agriculture purpose.
- v) NOC for Local panchayat.


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vi) The PP shall furnish details of impacts and mitigation measures on agricultural fields. Aquifers, drainage pattern, water table around the proposed mining area.

The proposal was again placed for appraisal in 383rd meeting of SEAC held on 15.06.2023. The PP/EIA has not attended the meeting. Therefore, SEAC decided to defer the proposal.

Agenda No: 383 - 27,

(File No: 1107/2022)

Existing Black Granite quarry lease over an extent of 35.99.0 Ha at S.F.No: 412 (P) at Sinjalanatham Village, Pennagaram Taluk, Dharmapuri District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited- For Environmental Clearance.(SIA/TN/MIN/74005/2018 Dated:23.03.2022)

Earlier, this proposal was placed in 291st SEAC meeting held on 1.7.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

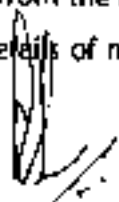
1. The project proponent, M/s. Tamil Nadu Minerals Limited has applied for Environmental Clearance for the proposed Black Granite quarry lease over an extent of 35.99.0 Ha at S.F.No: 412 (P) at Sinjalanatham Village, Pennagaram Taluk, Dharmapuri District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. ToR was issued vide Lr No. SEIAA-TN/F.No.1102/2013/TOR-820/2020 Dt.17.11.2020 under violation category.
4. Public hearing was conducted on 21.01.2022
5. As per the mining plan, the lease period is for 30 years. The mining plan is for the period of 5 years. The total production for 5 years not to exceed ROM- 296347 m³& 29634 m³ of Granite with ultimate depth of 28m.

This proposal was placed in 291st SEAC meeting held on 1.7.2022. The Committee decided to defer the proposal since the PP requested for time to furnish certain details to the Committee. Also the Committee called for the following details from the PP.

1. The PP shall furnish a letter from DFO on the proximity details of nearest RF with respect to the proposed project site.


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Subsequently, this proposal was placed in the 536th Authority meeting held on 21.10.2020 & 22.10.2020. The authority after detailed discussion decided to refer back the proposal to SEAC for appraisal on the receipt of following details from the project proponent.

The authority noted that as per the approved mining plan/mine closure plan submitted & as per the Point no. 31 (Storage of overburden, waste rock etc) of Chapter-VI of Granite Conservation & Development Rules, 1999

- i) The overburden, waste rock and non-saleable granite generated during prospecting or mining operations for granite shall be stored separately in properly formed dumps on grounds earmarked.
- ii) 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.
- iii) Wherever possible, such waste rock or overburden or other rejects, shall be backfilled into the worked out granite quarry, where granite has been recovered upto the optimum depth, with a view to restore the land to its original use or desired alternate use, as far as possible and where the backfilling is not feasible, the waste dumps shall be suitable terraced and stabilised by planting vegetation or otherwise.

As per the Point no. 32 (Reclamation and Rehabilitation of lands) of Chapter-VI of Granite Conservation & Development Rules, 1999

"Every lease holder shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by prospecting or mining operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarry".

The Authority after detailed discussion decided to refer back the proposal to SEAC for specific recommendation with justification for grant of Environmental clearance on the quantity of mineable mineral in terms of ROM quantity instead of Production quantity after the receipt of following details from the project proponent.

- i) The proponent shall submit the details of utilization of total quantity of


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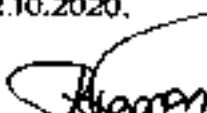
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granite Waste till the life of the quarry period for beneficial purpose.

- i) The proponent shall submit revised progressive mine closure & rehabilitation plan.
- ii) To furnish approval obtained from the competent authority details of utilization of quantity of granite Waste for beneficial purpose as per market trend and revised progressive mine closure & rehabilitation plan proposed quarry pits till the life of the quarry period.
- iv) Long term and short term ecological and environmental impacts due to storage, handling, and transportation of granite waste for beneficial purpose (or) otherwise.
- v) AD/Competent authority of Geology & Mining Dept. justification for according permission in terms of ROM quantity instead of production quantity.
- vi) Can waste and such tailings be used for land back fills.
- vii) Mine closure plans and EMP in detail. How can the granite mine site be reclaimed to near natural and pre-mining condition.
- viii) Action plan for protection of open and abandoned open spots as they are Hotspot for toxic water accumulation, contamination and accidents.
- ix) On impact due to transportation of the granite waste on the access road and the equipment, and social impacts.
- x) EC has been issued & mentioned with the quantity of ROM, Products & Waste etc., as per mining plan. If any revision is required, the PP shall obtain necessary revision/amendment in the approved mining plan from the competent authority.
- xi) The PP shall furnish the revised/detailed mine closure plan by considering ROM/total excavation from the competent authority.

This proposal was again placed in 335th SEAC meeting held on 06.12.2022. The Committee decided to defer the proposal since the project proponent requested time to furnish certain details sought by the Committee vide minutes of 291st SEAC meeting held on 1.7.2022 & the vide minutes of 536th Authority meeting held on 21.10.2020 & 22.10.2020.


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This proposal was again placed in 347th SEAC meeting held on 13.01.2023. Based on the presentation & documents furnished, the Committee after detailed discussion decided to defer the proposal since the project proponent has again requested additional time to furnish certain details sought by the Committee vide minutes of 291st SEAC meeting held on 1.7.2022 & the vide minutes of 536th Authority meeting held on 21.10.2020 & 22.10.2020.

Subsequently, the proposal was placed in the 592nd Authority meeting held on 16.02.2023. The authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 13.01.2023.

The sub-committee constituted by the SEAC submitted its inspection report before the SEAC on 31.03.2023. Hence the proposal was placed again for appraisal in this 367th Meeting of SEAC held on 31.03.2023.

The extract from the report of revised assessment of Ecological damage, Remediation plan and Natural & Community resource augmentation plan due to violation prepared by the NABET consultant as per the guidelines mentioned in the MoEF&CC Notifications dated 14.03.2017 and 08.03.2018 furnished by the proponent is as follows:

Ecological Damage due to mining Activities & Remediation Plan and Cost

S. No	Parameter	Activity / Source	Impact	Cause	Remediation Plan	Cost/ year in INR
1	Air Environment	i) Drilling ii) Blasting Movement of Machineryes	Dust generation	Particulate matter smaller than 10 microns, can settle in the bronchi and lungs and cause health problems like Bronchitis.	Using inbuilt dust collector system Usage of sharp drill bits for drilling of holes. Provision of dust filters / mask to workers working at	7.49 B


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		Transportation	<p>Emphysema, Bronchial Asthma, Irritation of mucus</p> <p>Membranes of eyes, etc.</p> <p>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.</p> <p>Vehicle emission can also create various health problems on human being.</p>	<p>highly dust prone and affected areas.</p> <p>Proper maintenance of machineries which avoids excessive noise and vibration.</p> <p>Sufficient training to operators on safety and environmental parameters.</p> <p>Regular wetting of transport road using water tanker.</p> <p>Avoiding overloading of tippers</p> <p>Covering of loaded tippers with tarpaulins during transportation.</p> <p>Development of green belt / barriers wherever possible.</p>		
2	Water Environment	<p>Water usage</p> <p>Quarry working faces and dumps</p>	<p>Generation domestic Effluents.</p> <p>Soil erosion, siltation due to runoff / Storm Water.</p> <p>Reduction in ground water</p>	<p>The direct impact on human beings due to poor water quality can lead to various waterborne diseases like diarrhoea, jaundice, dysentery etc.</p> <p>Polluted water may not be useful for human or animal consumption etc. If not treated to standards.</p>	<p>Rain water harvesting ponds will develop.</p> <p>Clear supernatant water after settling can be let out of this pond after passing through settling traps.</p> <p>Most of the mine water will be used for green belt, dust suppression, etc.</p> <p>Plantation will be carried out in the</p>	7,498

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			Siltation on rainwater drainage channel near the mine lease		safety zone area, all possible area within the lease area Mine sump water can also be utilized.	
3	Soil Environment	Quarrying and dumping of waste	Loss of top soil Loss of soil fertility & soil quality	Affecting biotic environment	The top soil will be used for afforestation & Redamation purpose. Application of manure to retain its fertility. Spreading over reclaimed areas for plantation.	6498

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 of equipment. Planting of trees where ever possible to act as acoustic barriers. Conducting regular health checkup of workers Including audiometric test for the workers engaged in noise prone area.	7,498
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5	Vibration	Drilling in Quarry	Creation of Vibration effect	Accident and injury damage to the nearby structures if appropriate technology and control measures are not adopted	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 6998 Creation of green belt in all possible vacant places within the lease area. Local species in consultation with the state forest department can be chosen for this purpose.

7	Occupational health	Quarrying and allied operation	Dust generation. Noise and vibration effect	Dust related pneumonia Tuberculosis Rheumatic arthritis Segmental vibration Miner's Nystagmus Loss of life/machinery	Water sprinkling on haul roads. 7,498 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 doctors, as per DGMS circulars. Providing Health report to employees regularly after health checkups. Provided Personnel Protective Equipments (PPE) to all staff and workers to guard against excess noise levels, dust
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				generation and inhalation, etc., as per standards prescribed by DGMS. Imparting Vocational training to all workers/ staff.
Total cost proposed under Ecological Remediation plan is Rs. 49985/-				

Natural & Community Resource Augmentation Plan & Mitigation measures for quarry operations for the damages caused are as below:

S. No	Description	Augmentation Plan
1	Air Management	<p>Plantation along the haul roadside to reduce effects of air/ noise pollution as part of landscape development.</p> <p>A row of trees to be planted along the Quarry boundary periphery to screen the site from air/ noise pollution.</p> <p>Regular maintenance and upkeep of the internal roads within project site will help to reduce air pollution.</p> <p>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.</p>
2	Water Management	<p>There is no effluent generation in existing quarry.</p> <p>Storm water drainage system laid considering natural gradient of the site and sufficient number of recharge pits will be provided at appropriate locations to recharge ground water table.</p> <p>Existing sewage disposed in to Septic tank followed by Soak pit.</p> <p>Proper provision for maintenance of sewage disposal.</p>
3	Noise & Vibration Management	<p>During quarry operations important to maintain the noise levels within the site for the safety and better health of residents in the nearby area.</p>


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		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.
4	Solid Waste Management	Collection of waste, segregation, and disposal in a manner so as to cause minimal environment impact. Non-degradable waste will be disposed to municipal garbage collection site.
5	Green Area Development Management	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. There shall be monetary provision made for development of green belt. A horticulture officer and gardener shall be appointed for the same. Maintenance shall include watering and manuring plants at appropriate time, weeding out unwanted plants, cleaning, replacing wilted/died plants etc.

Natural Augmentation Plan

S. No	Activity	Year wise Implementation and Budgetary provision (Rs.)	
		2022-2023	
1	Development of Greenery in the surrounding area and maintaining them	15994	
2	Rain water harvesting and water shed programmes in the nearby village	4000	
	Sub Total	19994	
	Grand Total	19994	

Community Augmentation Plan

S. No	Description	Year wise Implementation and Budgetary provision (Rs.) 2023-2024


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1.	Providing Masks & Sanitizers to the nearby Sunjalnatham government school	5000
2.	Providing Note books & Stationary for the Sunjalnatham government school.	24991
Sub Total		29991

Total Budget proposed based on EIA Model:

S. No	Name of the area	Budget (Rs)
1	Estimation cost for remediation plan based on the Damage Assessment due to violation	49,985
2	Natural Resource Augmentation Plan	19,994
3	Community Resource Augmentation Plan	29,991
Grand total		99,970

CER Budget-Proposed by PP based on EIA model:-

Name of the Village	Particulars	CER Amount
Sunjalnatham Govt School, Sunjalnatham village	As per MoEF&CC Notification dated 20.10.2020.	Rs.2.00 Lakhs
Total		Rs.2.00 Lakhs

The following are the observations by the Sub-Committee Team during field visit on 21.02.2023 to the project site.

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

1. Sub Committee has visited Sunjalnatham Granite Quarry during the inspection to have over all mining scenario in the Region.
2. The Lease over an extent of 35.99.0 Ha is being operated in the Sunjalnatham. It is wire fenced in all sides.
3. The settlements/habitations are observed in 200 m from Lease boundary in eastern sides.
4. There was no mining activities in the quarry during the site visit
5. Rain water accumulated in the Quarry and atleast two bottom most benches are covered in water, as noticed.


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6. During Violation Period. Environmentally friendly Mining activities, involving the Drilling & highly mild controlled Blasting to cause hairline fracturing and Diamond Wire Saw cutting, were carried out in the Lease.
7. There was 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.
8. No Ground Water-table Intersection as noticed in the existing benches of the quarry.
9. 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).
10. Green Belt, was developed along the periphery of quarry pit including in Safety Barriers.
11. The Water tanker trucks possessing the water sprinklers were deployed along the Haul Road during the violation period and is in the working condition.
12. Garland Drains are partially provided along the periphery but its maintenance has to be improved.
13. Green belt developed along the boundaries is infested with Procopius Juliflora which are to be eradicated and additional green belt shall be developed. So far the PP has raised around 100 plantation and further hundred sapling is available for plantation
14. M/s. TAMIN is carrying out various CSR activities in the Region as per CSR Policy of the Company, as reported.

STATUS OF MINING OPERATION

The mining activities were stopped on 28.04.2017 and there was no production from this Mine since then.


MINING PLAN APPROVALS

The Director, DGM, Chennai has accorded the latest Scheme of mining for the period from form 2022-2027 Lr.No.1125/MM4/2022, dt. 01.03.2022

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

➤ The physical nature of the Black Granite deposit:

Strike length (m) : 988 m


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- Width (m) : 25m
- Strike direction : SW-SE
- Dip : Almost vertical
- Depth proved (m) : More than 30 m as it Dolerite rock formation

➤ Pit Dimension

Description	Length (m)	Width (m)	Depth (m)
Present pit -I	220	56	9
Present pit -II	251	62	19

- 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 Scheme of Mining plate Nos 4 & 5.

STATUTORY MANPOWER (during the violation period)

Sl. No.	Name of the Post Occupied	Statutory Requirement as per MMR, 1961	Manpower available during the Mining Operations
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 plant predominently 100 native species during the Third Scheme of mining period .

PENALTY FOR VIOLATION

TAMIN has remitted the amount Rs.3,17,19,289/- to the Department of Geology and Mining towards 100% cost value of the mined mineral against the permitted EC quantity.

Accordingly, the Director of Geology and Mining has issued 'No Objection Certificate' to TAMIN for getting EC vide Letter Rc. No.265/MM4/2020. dt. 08.07.2020.

Tamil Nadu Pollution Control Board has filed the case under Section 19 of Environment (Protection) Act, 1986 in Hon'ble Judicial Magistrate No.1 Dharmapuri vide Calendar Case No.305/2022 . Judgment pronounced.


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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 augmentation cost under violation category for the concerned lease of Sunjalnatham Black Granite Mine of TAMIN, Sunjalnatham, Pennagaram Taluk, Dharmapuri District following the SEAC Guidelines after discussing the following related legal provisions made from time to time by various agencies/courts.

Thus, the Proposal falls in **Low Level Ecological Damage** as the operations were carried out without obtaining prior EC but however the quantity excavated as per the approved Mining Plan.

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. 57,58,400/- which is higher than the other estimation - Environmental Compensation values of Rs. 99,970/- based on the EIA model prepared by the EIA coordinator. Therefore, the aforesaid value of Rs. 57,58,400/- 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	14,39,600
2	Natural Resource Augmentation Plan	17,99,500
3	Community Resource Augmentation Plan	25,19,300
Grand Total		57,58,400

Based on the SEAC-TN model for the violation cases, the CER value is estimated as Rs. 14,39,600/-. However, the PP had committed to provide the following budget towards the Corporate Environmental Responsibility (CER) during the SEAC appraisal meeting.

Name of the Village	Particulars	CER Amount
Sunjalnatham Govt School, Sunjalnatham village	Education & Repairs and Maintenance of School buildings, Upliftment of Toilet facilities for the Students & Teachers, Tree Plantation and Environmental related Books for the Library etc.	Rs. 14,39,600
Total		Rs. 14,39,600


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STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 57,58,400/- must be given to TNPCB for successful implementation of the Schemes In ONE 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. 14,39,600 must 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 of SUB-COMMITTEE:

The SEAC Sub-Committee observed that the Mining of Black Granite in an extent of 35.99.0 Ha SF No. 412 (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 35.99.0 Ha SF No. 412 (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. 14,39,600), natural resource augmentation (Rs. 17,99,500) & community resource augmentation (Rs. 25,19,300), totaling Rs. 57,58,400. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 57,58,400 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/EEMP 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 one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.


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3. The amount committed by the Project proponent for CER (Rs. 14,39,600) 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. However, the PP shall supervise the work and submit the status of the work completed pertaining to the CER within a period of one year to the DEE/TNPCB and the SEIAA.
4. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac. 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
5. The company shall obtain 'No Dues Certificate' from State Government i.e. Department of Geology & Mining within a period of two weeks and submit the same to SEAC before grant of EC, if not produced earlier.
6. The PP shall ensure that 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


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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.

However, since the project proponent has requested additional time to furnish certain details sought by the Committee vide minutes of 291st SEAC meeting held on 1.7.2022 & the vide minutes of 536th Authority meeting held on 21.10.2020 & 22.10.2020 as per Minutes of 347th SEAC meeting held on 13.01.2023. In view of the above, SEAC has decided to defer and to take up in the proposal in the ensuing meeting after the receipt of additional particulars.

Subsequently, the subject was placed in 614th Authority meeting held on 24 .04.2023 & 25.04.2023. The Authority decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the project proponent held on 31.03.2023.

In this connection, the project proponent has furnished reply vide Lr. dt: 28.04.2023. The proposal was again placed for appraisal in 383rd meeting of SEAC held on 15.06.2023.

Based on the presentation & documents furnished and the Committee carefully examined the points raised by SEAC and the replies given by the PP. The SEAC observed that the existing Black Granite mining activity was carried out without prior environmental clearance & the proposal seeking Environmental Clearance under violation category for the existing Black Granite quarry lease over an extent of 35.99.0 Ha at S.F.No: 412 (P) at Sunjalanatham Village, Pennagaram Taluk, Dharmapuri District, Tamil Nadu by M/s. Tamil Nadu Minerals Limited which is categorized under the "low level ecological damage category". The SEAC after detailed deliberations decided to recommend the project proposal for grant of Environmental Clearance subject to the


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standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1) As per the MoEF& CC Notification, S.O.1030 (E) dated:08.03.2018, "The project proponent shall submit a bank guarantee equivalent to the amount of remediation plan and Natural and Community Resource Augmentation Plan with the State Pollution Control Board and the quantification will be recommended by the Expert Appraisal Committee for category A projects or by the State or Union territory level Expert Appraisal Committee for category B projects, as the case may be, and finalized by the concerned Regulatory Authority, and the bank guarantee shall be deposited.

a) Accordingly, the amount prescribed for Ecological remediation (Rs. 14.396 lakhs), natural resource augmentation (Rs. 17,995 lakhs) & community resource augmentation (Rs. 25,193 lakhs), totaling Rs.57,584 Lakhs. Hence the SEAC after detailed deliberations decided to direct the project proponent to remit the amount of Rs. 57,584 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.

b) The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.

c) The amount committed by the Project proponent for CER (Rs. 14.396 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.

2) 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.


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- 3) The PP shall ensure that the plantation shall be carried out in 2.00 Ha in a phase manner as a part of mine closure activities.
- 4) 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.
- 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 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.
- 7) 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.
- 8) 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).
- 9) The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
- 10) The 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.


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- 11) 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.
- 12) 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.
- 13) 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.
- 14) Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
- 15) The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
- 16) The PP shall carry out maximum of TWO rounds of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
- 17) However, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, IIT-Dept of


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Mining Engg. Surathkal and Anna University – CEC 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.

- 18) No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
- 19) 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.
- 20) 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.
- 21) 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.
- 22) The project proponent shall allocate a separate area for waste dumping and proper protective structure may be made to contain the fugitive emissions from the same.
- 23) The project proponent should install cautionary boards at the entry and important locations of the mining site displaying caution notice to the public about the danger of entering the mining areas.
- 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.

Agenda No: 383-28

(File No: 8941/2021)

Proposed Rough stone & Gravel quarry lease over an extent of 3.47.5 Ha at S.F.Nos.67/2 & 69 of Myleripalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu by Tmt.S.Selvamani . For Environmental Clearance. (SIA/TN/MIN/78237/2021 Dt.18.06.2022).


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The proposal was placed in 383rd SEAC meeting held on 15.06.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

SEAC noted the following:

1. The Project Proponent Tmt.S.Selvamani has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 3.47.5 Ha in S.F.No.67/2 & 69 of Myleripalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 3,26,342 m³ of Rough stone & 10,656m³ of Gravel up to an ultimate depth of 38 m below ground level.
4. Quarrying in this lease area was earlier carried out by Thiru.S.Karthikeyan. EC Lr.No.SEIAA-TN/F.No.2495/1(a)/EC.No:3061/2015 dated:02.03.2016. Existing pit-22m.
5. ToR issued vide Lr.No.SEIAA-TN/F.No.8941/ToR-1119/2022 Dated: 23.03.2022.
6. Public hearing conducted on 30.01.2023.
7. EIA Report submitted on 25.04.2023.
8. EDS raised on 25.11.2022.
9. Earlier, this proposal was placed for appraisal in the 355th SEAC meeting held on 15.02.2023. During the meeting the Committee noted that the project proponent is absent during the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.
10. The Proponent had submitted the following vide letter to O/o. SEIAA-TN.
"...the application for environmental clearance of our Proposed Rough stone and Gravel Quarry has been submitted in PARIVESH portal vide SIA/IN/MIN/78237/2021 dated 17.06.2022. As our lease area comes within the cluster area of Thiru S.Shanmugasundaram (2.95.5 Ha), the public hearing


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has not been conducted for our quarry during EC application considering one Public consultation is enough for entire cluster as per MOEF&CC SO 141 (E) dated 15.01.2016-Appendix XI.

Thiru A.Ammasaiappan Rough and Gravel Quarry located within cluster area of Thiru S.Shanmugasundaram (2.95.5 Ha), also submitted the EC application without conducting public hearing as per MOEF&CC SO 141 (E) dated 15.01.2016-Appendix XI. During the appraisal of Thiru A.Ammasaiappan EC proposal in 324th SEAC meeting, SEAC stated that in the minutes of S.Shanmugasundaram public hearing meeting, the details of Thiru A.Ammasaiappan lease area is not mentioned and instructed to conduct public hearing.

Based on the instruction, the public hearing has been conducted for cluster of four quarries -Thiru.Ammasaiappan, Tmt.Selvamani, Tmt.Sarojini and Tvl. Sri Vetrivelavan Blue Metals on 30.01.2023 and the minutes of Public Hearing has been attached in our Final EIA report. As the process of our public hearing meeting was undergoing during the 355th SEAC meeting dated 15.02.2023, we were unable to attend the SEAC meeting on 15.02.2023..."

File No	8941	Category	81
	Online Number - 78237/2021 Dt.18.06.2022		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	Tmt.S.Selvamani, W/o.Subramaniyan, No.1/525, North Thottam, Malumitchampatti, Madukkarai Taluk, Coimbatore District-641 050.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	Rough stone & Gravel	
3.	S.F Nos. of the quarry site with area break-up	67/2 & 69	


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4.	Village in which situated	Myleripalayam	
5.	Taluk in which situated	Madukkarai	
6.	District in which situated	Coimbatore	
7.	Extent of quarry (in ha.)	3.47.5Ha	
8.	Latitude & Longitude of all corners of the quarry site	10°51'56.04239"N to 10°52'05.1021"N	
		77°01'56.64545"E to 77°02'03.3589"E	
9.	Topo Sheet No.	58- F/1	
10.	Type of mining	Opencast Semi-Mechanized Mining	
11.	Life of Project	5 Years	
	Lease Period	5 Years	
	Mining Plan Period	5 Years	
12.	Mining Plan Details	As per approved Mining Plan As modified by SEAC	
		Rough Stone	Gravel
	Geological Resources m ³ (RoM)	4,78,373 m ³	10,656m ³
	Minable Resources m ³ (RoM)	4,41,026 m ³	10,656m ³
	Annual Peak Production in m ³	65,356 m ³	10,656m ³
	Maximum Depth in meters	38m BGL	
13.	Depth of water table	40m-42m BGL	
14.	Man Power requirement per day:	16 Nos.	
15.		3.0 KLD	
	Water requirement:	1.0 KLD	
	1. Drinking water	1.0 KLD	
	2. Dust suppression & Green belt	1.0 KLD	


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16.	Power requirement	TNEB															
17.	Precise area communication approved by the Assistant Director (i/c). Department of G&M.	Na.Ka.No.807/ Kanimam/2021, dated.18.10.2021															
18.	Mining Plan approved by Assistant Director (i/c). Department of G&M.	Rc.No.807/Mines/2021, dated.25.11.2021.															
19.	Department of G&M. Assistant Director (i/c). 500m Cluster Letter	Rc.No.807/Mines/2021. dated.25.11.2021															
20.	VAO Certificate Regarding Structures within 300m Radius	Letter dated: 02.12.2021															
21.	Project Cost (excluding EMP cost)	Rs.44.10Lakhs															
22.	EC Recommendation	<table border="1"> <tr> <td>Validity</td> <td colspan="2">30 years subject to the following upper limits.</td> </tr> <tr> <td></td> <td>Rough Stone</td> <td>Gravel</td> </tr> <tr> <td>Max Total RoM in m³</td> <td>3.26.342 m³</td> <td>10.656m³</td> </tr> <tr> <td>Annual Max RoM In m³</td> <td>65,356 m³</td> <td>10.656m³</td> </tr> <tr> <td>Max Depth in m</td> <td colspan="2">38m BGL</td> </tr> </table>	Validity	30 years subject to the following upper limits.			Rough Stone	Gravel	Max Total RoM in m ³	3.26.342 m ³	10.656m ³	Annual Max RoM In m ³	65,356 m ³	10.656m ³	Max Depth in m	38m BGL	
Validity	30 years subject to the following upper limits.																
	Rough Stone	Gravel															
Max Total RoM in m ³	3.26.342 m ³	10.656m ³															
Annual Max RoM In m ³	65,356 m ³	10.656m ³															
Max Depth in m	38m BGL																
23.	EMP cost (in Rs. Lakh).	Capital cost :Rs.7,55,750/- Recurring Cost/annum : Rs.7,56,407/-															
24.	CER cost (In Rs. Lakh).	Rs 5.0Lakhs															
25.	Tor Issued	SEIAA- TN/F.No.8941/TOR-1119/2020 Dated: 23.03.2022															
26.	Public Hearing	30.01.2023															
27.	EIA Report Submitted	25.04.2023															


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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 a production quantity of 3,26,342 m³ of Rough stone & 10,656m³ of Gravel to a ultimate depth of 38m BGL in 5 years and the annual peak production shall not exceed 65,356 m³ of Rough Stone as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) 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.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall ensure that all the persons employed in the mine undergo the vocational training in the DGMS approved GVTC located in Hosur (or) Salem before the execution of lease.
- 6) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.


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- 7) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 8) 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.
- 9) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 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 should be adopted by considering the wind direction.
- 11) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 14) Perennial sprinkling arrangements 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.
- 15) 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 are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.


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- 16) 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.
- 17) 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. 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.
- 18) 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.
- 19) 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.
- 20) 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.
- 21) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 22) No 'Deep-hole large diameter drilling and blasting' is permitted.


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- 23) However, the PP shall carry out the scientific studies to design the controlled blasting parameters to minimise the blast-induced ground / air vibrations and to control the fly rock within six months from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 24) 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. 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.
- 25) 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.
- 26) The PP shall carry out the scientific studies to assess the slope stability of the existing quarry wall and benches within six months of commencement of mining operations for arriving the stability action plan to carry out quarrying operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 27) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall


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complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.

- 28) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 29) 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.
- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) 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.
- 32) 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.
- 33) 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.
- 34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamil Nadu 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.


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- 35) 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.
- 36) 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.
- 37) 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.
- 38) 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.
- 39) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 40) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.


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41) 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.

42) As accepted by the Project Proponent the CER cost of Rs. 5.00 lakh and the amount shall be spent for the committed activities in the Mylerpalayam Village, Government School before obtaining CTO from TNPCB.

Agenda No: 383-29

(File No: 7954/2021)

Proposed Rough stone quarry lease area over an extent of 1.22.0Ha at S.F.Nos. 76 and 140 (Part-4), Nathathahalli Village, Nallampalli Taluk, Dharmapuri District, Tamil Nadu by Thiru.P.Periyannan -For Environmental Clearance (SIA/TN/MIN/174650/2020 Dt. 22.9.2020).

The proposal was again placed for appraisal in this 383rd SEAC meeting held on 15.06.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.P.Periyannan has applied for Environmental Clearance for the Rough stone quarry lease over an extent of 1.22.0Ha at S.F.Nos. 76 and 140 (Part-4), Nathathahalli Village, Nallampalli Taluk, Dharmapuri 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 the mining plan the lease period is 10 years. The mining plan is for the period of five years & production should not exceed 96.154 m³ of Rough stone up to an ultimate depth of 20 m (5m AGL + 15m BGL).
4. Earlier, this proposal was placed for appraisal in the 221st meeting of SEAC held on 23.07.2021. Based on the presentation and documents furnished by the project proponent, SEAC noted that a complaint letter has been received from the Member Secretary/TNPCB vide Lr. No.TNPCB/F.22649/DMP/Complaint section/2020 dated 17.12.2020 enclosing the copy of complaint received from the Public of the Nathathahalli


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Village against the proposed quarry. SEAC decided that only after receipt of the action taken report from competent authority on the said complaint the project will be appraised by the committee.

Again, this proposal was placed for reappraisal in the 264th meeting of SEAC held on 19.4.2022. Based on the presentation and document furnished by the project proponent, SEAC decided to call for the following details from the project proponent.

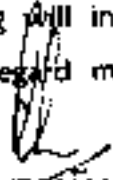
- The project proponent shall furnish a letter from DFO indicating the distance of Nathathahalli RF with respect to the project site.

Subsequently, this proposal was placed in the 509th meeting of SEIAA held on 20.05.2022. After detailed discussions, the Authority decided to obtain the following additional particulars from the project proponent with reference to project life (or) subject to a maximum of thirty years, whichever is earlier in addition to the above.

- i. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area from a reputed research institutions 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 distraction in the Environment.
 - g) Bio-geochemical processes and its foot prints including environmental stress.
 - h) Sediment geochemistry in the surface streams.
- ii. 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 waterbodies 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


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- provided, covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
- iii. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/unfavorable accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities.
 - iv. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.
 - v. Detailed Mine Closure Plan covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
 - vi. Detailed Environment Management Plan including adaptation mitigation & remedial strategies covering the project life (or) subject to a maximum of thirty years, whichever is earlier.

Again, this proposal was placed for reappraisal in the 317th meeting of SEAC held on 06.10.2022. 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 total production quantity of 96,154 m³ of Rough stone and not to exceed the Annual Peak Production capacity of 34265 m³ of Rough stone with restricting the ultimate pit depth of 20 m (5m AGL + 15m BGL), subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the specific conditions stated therein.

Subsequently, this proposal was placed in the 571st meeting of SEIAA held on 21.11.2022 & 22.11.2022. After detailed discussion, the Authority noted that a complaint letter has been received from the Member Secretary/TNPCB vide Lr. No.TNPCB/F.22649/DMP/Complaint section/2020 dated 17.12.2020 enclosing the copy of complaint received from the Public of the Nathathahalli Village against the proposed quarry. Hence, the Authority decided that upon the receipt of the action taken report by the Competent Authority, further course of action will be taken. Meanwhile, the Proponent has submitted an Affidavit of Nathathahalli village people on 07.11.2022 stating that they have no objection for quarrying Rough stone in the proposed mining area. In this connection, the Authority decided to request the Member


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Secretary SEIAA-TN to refer back the proposal to SEAC-TN stating the following reasons.

- i. The possible impacts of the quarry operation on the inhabitation and their assets like house, property & livelihoods shall be studied.
- ii. The impacts of the vibration, air pollution, water table, water resources may be examined.
- iii. Possible impacts of soil erosion, flood movements, loose boulders, land vulnerability, silting of pond on inhabitation and other instabilities to the infrastructure may be examined in the light of the following.
- iv. As per the kml uploaded by the proponent in the online through the Parivesh portal, it is ascertained that there are many structures exist within 300m from the proposed mine lease area. A structure exists at 50m from the proposed area. Since the mining involves blasting, considering the safety point of view,

As per Tamil Nadu Minor Mineral Concession Rules, 1959 under section V – Miscellaneous in para 36, General restrictions in respect of quarrying operations;

(c)

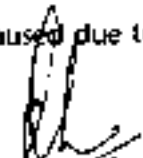
"No new layout, building plans falling within 300 metres from any quarry should be given approval by any agency unless prior clearance of the Director of Geology and Mining is obtained. On receipt of proposals for according clearance, the Director of Geology and Mining shall decide upon the continuance or closure, as the case may be of any quarry which is situated within 300 metres from the new layout, building sought for such "clearance".

Again, this proposal was placed for appraisal in the 348th meeting of SEAC held on 19.01.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain following details from the PP.

1. The PP shall enumerate the structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds, etc.
2. The PP shall furnish a report on the scientific studies carried out for the 'Cumulative impact of blast-induced ground/air vibrations, fly rock and dust caused due to the


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

Based on the Proponent's reply, this proposal was again placed for reappraisal in the 367th meeting of SEAC held on 31.03.2023. During the meeting the PP has requested for additional time to produce the said details pertaining to the existence of the structures. Therefore, SEAC decided to defer the proposal.

Now, the subject was again placed before the Committee in its 383rd meeting held on 15.06.2023. The project proponent gave a detailed presentation on the details sought.

S.No	SEAC Query	Reply
1.	The PP shall enumerate the structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m with details such as dwelling houses with number of occupants, places of worshp.	<p>A detailed Socio-economic study has been carried out and data are given below:</p> <ul style="list-style-type: none"> ▪ There are 1 farmer House found within the radius of 0-50m from the project site, population is 3no's Concrete house in the study area. • In 50-100m radius one Demolish house and one shed poultry farming Shed (99m-NW) found in the zone, three tiled house and two concrete house total 11 persons in the zone area. • In 100-200m radius more than 10 houses located the sample survey were taken in the 4 tiled house shed and 1 shop with merchant, 6 concrete houses about 32 Persons covered in the zone area. ▪ In 200-300m radius 19 houses located in the sample survey were taken in the 6 tiled house and 13


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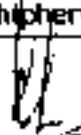
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<p>Industries. factories. sheds. etc.</p>	<p>Concrete housed total member 60 persons in the zone area.</p> <ul style="list-style-type: none"> • In above 300m radius 2 houses located in the sample survey 1 tiled house and 1 concreted house in the study area. <p>It is inferred from the study most of the peoples are farmers and daily wages, House owners welcoming the rough stone quarry project since the proponent belonging to the same area and peoples getting employment opportunity and materials in low cost from the quarry. It is recommended to do the following activities.</p> <ul style="list-style-type: none"> • Vocational training programme to make the people self- employed, particularly for women and unemployed youth. • On the basis of qualification and skills local youths may be employed. • Long term and short-term employments can be generated.
<p>2. The PP shall furnish a report on the scientific studies carried out for the 'Cumulative impact of blast-induced ground/air vibrations, fly rock and dust caused due to the proposed Quarrying operations on the Surrounding Structures including Wind Mills, Habitations and Water bodies located within 300 m from the quarry lease', from any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Rock Mechanics (NIRM)-Bangaluru, IIT (ISM)-Dhanbad, NIT-Dept of Mining Engg, Surathkal.</p>	<p>The scientific study has been conducted in the project site by the Anna University - Chennai. The following recommendations spell out in the above study report will be implemented without deviation:</p> <ol style="list-style-type: none"> i. Non-explosive rock breakage technique such as rock breakers, rippers, hydraulic fracturing, etc shall be used for the development/extraction of first two benches. ii. Line drilling / trench shall be made at the periphery of the


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	<p>mine lease directed towards the structures.</p> <p>iii. Tall metallic sheet fencing shall be installed at the boundary of the lease directing towards the structures.</p> <p>iv. The statutory personnel such as II Class Mines Manager, Blaster shall be appointed to oversee the quarrying operation.</p> <p>v. Prior permission shall be obtained from the DMS, Chennai Region/DGMS while carrying out the blasting operation.</p> <p>vi. The thick tree plantation for 2 to 3 rows shall be installed before the execution of lease for controlling the air/noise pollution.</p>
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The committee carefully examined the replies given by the PP and decided to reiterate its recommendation already made in 317th meeting of SEAC held on 06.10.2022. All other conditions stipulated in the earlier minutes will remain unaltered.


Agenda No: 383-30

File No: 9053/2022

Proposed Rough Stone Quarry over an area of 1.00.0 Ha at Survey Nos. 249/1 of Veppilai Village, Kadaiyampatti Taluk, Salem District, Tamil Nadu by Thiru.R.Munirathinam for Environmental Clearance. (SIA/TN/MIN/258888/2022 dt.02.03.2022)

The proposal was placed in this 383rd SEAC meeting held on 15.06.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, Thiru.R.Munirathinam has applied for Environmental


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Clearance for the Rough Stone Quarry over an area of 1.00.0 Ha at Survey Nos. 249/1 in Veppilai Village, Kadaiyampatti Taluk, Salem District, Tamil Nadu.

2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 5 years. The mining plan is for the period of five years & production should not exceed 111829m³ of Rough stone with an ultimate depth of 46m BGL (1m top soil + 45m rough stone).
4. Earlier, this proposal was placed for appraisal in the 334th Meeting of SEAC held on 02.12.2022. During the meeting the Committee noted that the project proponent is absent during the meeting.

Again, this proposal was placed in the 383rd SEAC meeting held on 15.06.2023. The SEAC noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

Agenda No: 383-31

(File No: 8675/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.00.0 Ha at S.F.Nos. 165/5(Part), Uttathur Village, Lalgudi Taluk, Tiruchirappalli District, Tamil Nadu by Tvl. C S Mines -For Environmental Clearance (SIA/TN/MIN/220891/2021 dated: 26.07.2021).

The proposal was placed in this 383rd SEAC meeting held on 15.06.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, Tvl. C S Mines has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 1.00.0 Ha at S.F.Nos. 165/5(Part), Uttathur Village, Lalgudi Taluk, Tiruchirappalli District Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & production should not exceed 1,10,237m³ of Rough Stone and


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6,800m³ of Gravel with maintaining an ultimate depth of 37.0m (2m Gravel+35m Rough Stone) BGL.

4. Earlier, this proposal was placed for appraisal in the 355th meeting of SEAC held on 15.02.2023. During the meeting, the Committee noted that the project proponent is absent during the meeting.

Again, this proposal was placed in the 383rd SEAC meeting held on 15.06.2023. The SEAC noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

Agenda No: 383-32

(File No: 9284/2022)

Proposed Rough Stone quarry lease over an extent of 2.00.0 Ha (Govt.Poramboke Land) in S.F.No. 481/2 (part-1), Musuvanoothu Village, Nilakottai Taluk, Dindigul District, Tamil Nadu by Thiru. M. Bose- For Environmental Clearance (SIA/TN/MIN/273508/2022 Dated 28.05.2022).

The proposal was placed in the 383rd SEAC meeting held on 15.06.2023. The details of the proposed quarry furnished by the proponent are available in the website (parivesh.nic.in).


The SEAC noted of the following:

1. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
2. Earlier, this proposal was placed for appraisal in the 308th meeting of SEAC held on 01.09.2022. During the meeting, the project proponent requested for additional time to submit additional information on proximity of reserve forest. In view of the above, SEAC decided to defer the subject and call for the explanation of PP for not attending the meeting.
3. As per the G.O. (Ms.) No. 243 industries, investment promotion and Commerce (MMC.1) Department dated 14.12.2022, Amendment to the Tamil Nadu Minor Mineral Concession Rules, 1959 as follows.

"...In the said rules, in rule 36, in Sub-rule (1-A), in Clause (e) for the expression "the National Parks, Wild Life Sanctuaries, Tiger Reserves,


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Elephant Corridors and Reserve Forests". the expression "National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors" shall be substituted.."

Again, this proposal was placed for appraisal In the 353rd Meeting of SEAC held on 09.02.2023 & the PP has made the representation. Based on the presentation and documents furnished by the project proponent, by considering the safety point of view, SEAC decided to reduce the depth in section XY-AB. Accordingly, the SEAC recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 4.25,470m³ of Rough Stone & 17802 m³ of Topsoil not exceeding the annual peak production of 105510 m³ of Rough stone (2nd year) & 17802 m³ of Topsoil (1st Year) with maintaining an ultimate pit depth of 75m (50m AGL + 25 m BGL), subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC. In addition to the specific conditions stated therein.

Subsequently, this subject was placed in the 599th Authority meeting held on 06.03.2023. After detailed discussions, the Authority decided to obtain following details.

1. This seen to be densely vegetated hillock, the PP shall furnish detailed inventory about impact of mining.
2. The approved mining plan submitted by the PP is reported that there is no major flora, fauna and valuable trees. But the kml uploaded by the PP shows existence of dense flora and fauna.
3. Hence, the flora and fauna to be listed by the PP and furnish the same. The action taken report also needed.
4. The PP shall furnish detailed impact study on soil erosion, agricultural activities and drainage pattern.

Based on the reply submitted by the proponent to O/o SEIAA, the proposal was placed in the 610th Authority meeting held on 11.04.2023. Further, the Authority noted the following.

1. The DFO, Dindigul vide his letter dated;14.10.2021 has reported that the Kadavakurichi Reserve Forest is located at 151m distance from the proposed


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project site.

2. Though the PP has given listed up flora and fauna, species are likely to be lost due to mining activity.
3. Also, the kml and reply submitted by the PP shows that this area is habitat for medical plants, valuable herbs and shrubs.
4. Since the project site is contiguous to the Kadavakurichi RF, it may be migratory route for mammals, Reptiles, Birds etc..

The Authority after detailed deliberation, decided that the reply furnished by the PP for the above queries shall be examined by SEAC and shall furnish its recommendations to SEIAA to take further course of action.

Hence, the proposal was placed for reappraisal in this 383rd SEAC meeting held on 15.06.2023. During the meeting, the Committee noted that the Proponent has changed the location of the project without the approval of competent authorities.

The Rule 41 (9) of The Tamil Nadu Minor Mineral Concession Rules, 1959 states that

"..... (ii) If the approved mining plan requires modifications within the lease period, the lessee shall carry out such modifications and re-submit the modified mining plan to the Assistant Director or Deputy Director of Geology and Mining, as the case may be of the district concerned for approval....."

Therefore, the Committee decided that the PP shall apply afresh application along with Modified Mining Plan approved by the competent authority for obtaining the Environmental Clearance, enumerating the previous history of the project. Also, the PP is requested to withdraw the proposal seeking EC, vide SIA/TN/MIN/273508/2022 Dated 28.05.2022. SEIAA may take up the withdrawal process with the proponent based on merits.

Agenda No. 383-33

(File No: 226/2021)

Constructed Medical College & Hospital Buildings at S.F. No. 35/1,2,3,63/2,64/1A & 1B2 in Numbal village, Ambattur Taluk, Tiruvallur District Tamil Nadu by M/s. A.C.S. Medical College & Hospital – Environmental clearance under violation notification dated: 08.03.2018 of MoEF & CC – Regarding. (SIA/TN/MIS/225908/2021 Dt. 22.8.2021)


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The proposal is placed in this 383rd SEAC Meeting held on 15.06.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The Proponent, M/s A.C.S. Medical College & Hospital has applied for Environmental Clearance (violation category) for the Constructed Medical College & Hospital in S.F. No. 35/1,2,3,63/2.64/1A & 1B2 in Numbal village, Ambattur Taluk, Tiruvallur 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 Proponent was issued with ToR under violation category vide Letter No. SEIAA-TN/F.No.226/Violation/ToR-821/2020 dated: 23.11.2020.
4. Earlier, the proposal was placed in the 622nd Authority meeting held on 26.05.2023.

The authority noted the following:

- i) Earlier, the proposal was placed in 565th authority meeting held on 31.10.2022. The authority noted that the subject was appraised in 320th SEAC meeting held on 13.10.2022. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.

After detailed discussion, the Authority decided to request the Member Secretary, SEIAA to inform the proponent to furnish the following particulars as recommended by SEAC in the Minutes of 320th SEAC Meeting held on 13.10.2022.

1. Accordingly, the amount prescribed for Ecological remediation (Rs.35.86 lakhs), Natural resource augmentation (14.344 lakhs) & Community resource augmentation (Rs.21.516 lakhs), totaling Rs.71.72 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs.71.72 Lakhs in the form of a bank guarantee to Tamilnadu Pollution Control Board and submit acknowledgment of the same to SEIAA-TN. The funds shall be utilized for the ecological damage remediation plan, Natural resource augmentation plan & Community


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resource augmentation plan as indicated in the EIA/EMP report.

2. The proposed CER amount of Rs. 121.72 lakhs shall be spent as committed before the issue of Environmental Clearance and the proof for the same shall be submitted to SEIAA-TN.
 3. The project proponent shall submit proof of the action taken by the state Government/TNPCB against the project proponent under the provisions of section - 19 of the Environment (Protection) Act, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
- ii) The project proponent is yet to submit the above details mentioned in the 565th SEIAA meeting.
- iii) Meanwhile, the project proponent vide letter dated.31.01.2023 has requested as follows:

"..... Therefore, we kindly request your good office to consider our environmental clearance/ Consent to operate for our Educational Institutions in the name of ACS Medical College its Hospital and Hostel having built-up area of 78,103 sq.m under schedule 8(a) to EIA Notification 2006, constructed based on the notification S.O.5736 (E) dated.15.11.2018 of MoEF&CC as exempted category to get prior environmental clearance at an early date and do the needful...."

- iv) Further, the project proponent has again submitted a request letter dated.17.05.2023 to the O/o SEIAA-TN on 19.05.2023 stating as follows:
- "..... Therefore in continuation of our representation dated.31.01.2023 we would submit this further submissions towards our project of building construction of Educational Institution of Medical College, Hostels, and Hospital, etc to impose and to comply the conditions as per SEIAA minutes of meeting dated.31.10.2022 cannot be insisted and based on our earlier representation and this submissions consider our project Environmental Clearance/ Consent to operate without insisting remedial measures and action against alleged violation as mentioned in the 565th minutes of meeting of SEIAA and do the needful.."*


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In view of the above, the Authority after detailed discussions decided to forward the request to SEAC for seeking remarks on the above request of the proponent. In this regard, the proposal was placed in the 383rd SEAC meeting. During the meeting, the Committee, after deliberations, decided to defer the proposal and take up for discussion in the ensuing meeting.

Agenda No. 383-34

6440/2020

proposed construction of Tuna Fishing Harbour with net fish handling capacity of 69,000TPA at S.F.No. 7/4, 39, 40, 41, 42 & 49, Thiruvottiyur Kuppam Village, Ennore Taluk, Thiruvallur District, Tamil Nadu by Department of Fisheries, Government of Tamil Nadu, Fishing Harbour Project Division SIA/TN/MIS/43388/2015, dated: 27.09.2019 – For amendment in Environmental Clearance

This proposal was placed in this 383rd meeting of SEAC held on 15.06.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

- The SEIAA has issued the Terms of Reference (ToR) to carryout Environment Impact Assessment (EIA) and Public hearing meeting, vide their Lr. No. SEIAA-TN/F.No.6440/SEAC-C/7(e) ToR-301/2017 dated:22.01.2018.
- SEIAA has granted Environmental Clearance (EC) vide their Letter No. SEIAA-TN/F.No.6440/EC/7(e)/75/ 2020 dated 05.08.2020.
- In the meantime, anticipating the Environmental Clearance and considering the importance of Welfare schemes, only casting of Tetra pods and placing of Granite stones on the existing groynes were started by the PP.
- Subsequently, In Hon'ble NGT one Original Application OA N o.28/2020 was filled by the Meenava Thanthai K.R. Selvaraj Kumar, Meenava Nala Sangam rep. by its President M.R. Thyagarajan against the Construction of Tuna Fishing harbour in CRZ Zone at Thiruvottiyur, Thiruvallur District. The Application was filed before the National Green Tribunal as the Department of Fisheries, is alleged commenced the works without getting permissions.


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- The Hon'ble National Green Tribunal (NGT) In OA No.28/2020 is given the directions. As per the Hon'ble court direction the work was stopped from 10.02.2020. The Tamil Nadu Environmental Impact Assessment Authority granted Environmental Clearance (EC) on 05.08.2020. Based on the Hon'ble NGT direction work has been resumed from 21.09.2020 and now the work has been completed 94% and as per court order further onshore works are in progress.
- After, So many hearings the Hon'ble NGT Judgment in Original Application No.28/2020 as well as the Appeal No.28/2020 dated: 28.09.2022 as follows.
 - a) The claim of the appellant that the baseline data collected prior to the ToR and the consideration of the project after three years of the collection of baseline data which will vitiate and not conducting the public hearing after further details submitted by the project proponent as directed by the SEAC – Tamil Nadu in its 141st meeting will vitiate the issuance of Environmental Clearance (EC) are rejected for the reasons discussed above in the Judgment.
 - b) There is no necessity to set aside the Environmental Clearance (EC) as claimed by the appellant, but suspending the Environmental Clearance (EC) to the extent of directing the project proponent not to commission the project but permitting to undertake the project work in onshore area only till such time further studies are completed and further conditions are to be imposed, if any, by the SEIAA – Tamil Nadu will be sufficient and for that purpose, following directions are issued:
 - i. The project proponent is directed to conduct a study of sediment deposit and sediment erosion including predicting the locations and suitable environment management plan for reducing the same on the basis of the ToR issued and the directions issued by the SEAC – Tamil Nadu in their 141st meeting.
 - ii. The project proponent is also directed to conduct a study on impact of spillage of fuel or engine oil, lubricant from the construction site and source of other pollution and impacts and


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suitable precautionary methods to be taken to avoid pollution and trap the spillage should be conducted.

- iii. A detailed marine biodiversity management plan prepared through NIOT or any other institute of repute on marine, brackish water and freshwater ecologically and biodiversity and must be submitted to and implemented to the satisfaction of the State Biodiversity Board and the CRZ authority. The report shall be based on the study of the impact of the project activities on intertidal biotopes, corals and coral communities (if any) in the area, molluscs, sea grasses, sea weeds, sub-tidal habitats, fishes and other marine and aquatic micro, macro and mega flora and fauna including benthos, planktons, turtles, birds, etc. as also the productivity. The data collection and impact assessment shall be as per standards survey methods and include underwater photography in tune with the recommendations made by the SEAC – Tamil Nadu while recommending the project.
- iv. The study must be conducted by the project proponent and prepare a biodiversity management plan and in consultation with biodiversity board and the CRZ authority.
- v. After conducting studies and getting report through accredited agency, then the same shall be placed before the SEAC – Tamil Nadu for consideration and on receipt of the same, the SEIAA-Tamil Nadu shall place the same before the SEAC – Tamil Nadu and they shall consider the sufficiency or otherwise of the same and on that basis, if any, further conditions are to be imposed to protect the marine environment then they shall impose the same and recommend the project or pass appropriate findings and forward the same with recommendation / findings to the SEIAA – Tamil Nadu and on receipt of the same, the SEIAA – Tamil Nadu shall appraise the same and take appropriate decision imposing additional conditions or otherwise on the basis of the


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findings of the SEAC – Tamil Nadu and Incorporate the same in the Environmental Clearance (EC) granted.

- c) The project proponent is directed to complete the studies within a period of 6 (Six) months and on submission of the report by the project proponent, the SEAC / SEIAA – Tamil Nadu are directed to complete the process of further appraisal as directed by this Tribunal within a further period of 3 (Three) months and issue necessary further conditions or modifications or findings in accordance with law.
 - d) Once the SEIAA – Tamil Nadu imposed further conditions, then the project proponent is directed to carry out those conditions as well while proceeding with the project.
 - e) The Environmental Clearance (EC) granted will be subject to the further orders to be passed by the SEAC and SEIAA – Tamil Nadu as directed by this Tribunal.
- ♦ Considering the circumstances, parties are directed to bear their respective costs in the respective cases

Based on this Appeal No.28/2022 (SZ) the marine biodiversity management plan prepared through Centre of Advanced Study in Marine Biology Faculty of Marine Sciences, Parangipettai - Annamalai University and submitted by the PP.

During the meeting, SEAC decided to defer the proposal and take it up in the ensuing meeting.


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ANNEXURE-I

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


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


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13. **Noise and Vibration Related:** (i) The Proponent shall carry out only the Controlled Blasting operation using NONEL shock tube initiation system during daytime. Usage of other initiation systems such as detonating cord/fuse, safety fuse, ordinary detonators, cord relays, should be avoided in the blasting operation. The mitigation measures for control of ground vibrations and to arrest fly rocks should be implemented meticulously under the supervision of statutory competent persons possessing the I / II Class Mines Manager / Foreman / Blaster certificate issued by the DGMS under MMR 1961, appointed in the quarry. No secondary blasting of boulders shall be carried out in any occasions and only the Rock Breakers (or) other suitable non-explosive techniques shall be adopted if such secondary breakage is required. The Project Proponent shall provide required number of the security sentries for guarding the danger zone of 500 m radius from the site of blasting to ensure that no human/animal is present within this danger zone and also no person is allowed to enter into (or) stay in the danger zone during the blasting. (ii) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs. (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
14. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
15. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
16. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
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


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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


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

25. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation. If the project site attracts the NBWL clearance, as per the existing law from time to time.
26. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
27. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
28. The Project proponent shall install a Display Board at the entrance of the mining lease area/abutting the public Road, about the project information as shown in the Appendix -II of this minute.


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Appendix -I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Asple marmelita</i>	Vilvam	விவம்
2	<i>Adenanthera pavonina</i>	Manjaci	மஞ்சரி, சுண்ணாம்பிணி
3	<i>Albizia lebbek</i>	Vaagai	வகை
4	<i>Albizia amara</i>	Usai	உசை
5	<i>Bachnia purpurea</i>	Mantharai	மந்தரை
6	<i>Bachnia racemosa</i>	Aathi	அதி
7	<i>Bachnia tomentos</i>	Iruvathi	இருவதி
8	<i>Buchanania axillaris</i>	Kathuma	காதுமா
9	<i>Borassus flabellifer</i>	Pani	பனி
10	<i>Butea monosperma</i>	Marudkamaram	முருகமரம்
11	<i>Butea caba</i>	Ilavu, Sevilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Pumai	புமை
13	<i>Cassia fistula</i>	Sarakondrai	சரகண்டிரை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கண்டிரை
15	<i>Chloroxylon swietenia</i>	Purattamaram	புரட்டமரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjilavu	கொங்கு, மஞ்சிலவு
17	<i>Cordia dichotoma</i>	Niruvadi	நிருவடி
18	<i>Crotola adarora</i>	Mavalungam	மாவலுங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiraUva, Sibiruzha	சீரா உவா
21	<i>Diospyros sebiana</i>	Karungah	கரங்கா
22	<i>Diospyros chloroxylon</i>	Vaganai	வகை
23	<i>Ficus amplissima</i>	Kalitchi	கல் கிச்சி
24	<i>Hibiscus tiliaceus</i>	Astrupoovarasu	அஸ்தூபுவாசு
25	<i>Hardenia birtata</i>	Acha	அச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	அயிலி
27	<i>Laurus coromandelica</i>	Othiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெிகொட்டைமரம்
30	<i>Limonia acidissima</i>	Vila maran	வில்லா மரம்
31	<i>Litsea glutinos</i>	Pisipattai	பிசிபட்டை
32	<i>Madhuca longifolia</i>	Iluppal	இலுபால்
33	<i>Mammillaria hexandra</i>	UlaikaiPanai	உலகை பனி
34	<i>Mimusops elengi</i>	Magichamparam	மகிச்சம்பரம்
35	<i>Mitragyna parvifolia</i>	Kadamba	கடம்பா
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வலை நுனா
38	<i>Phoenix sylvestre</i>	Eachai	ஏச்சை
39	<i>Pongamia pinnata</i>	Pangan	பங்கா


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40	<i>Prunus mollissima</i>	Munnai	முன்னை
41	<i>Prunus serratifolia</i>	Narumalai	நாரமலை
42	<i>Prunus lanceolata</i>	Mahipovaras	மாஹிபொவரசு
43	<i>Prunopsis cistrea</i>	Vanni anaran	வாணி அரன்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்டாங்கு
46	<i>Pterospermum xylocarpum</i>	Polaru	பொலறு
47	<i>Putranjiva roxburghii</i>	Karpala	கர்பலா
48	<i>Salvadora persica</i>	Ugaa Maran	உகா மாறன்
49	<i>Sapindus marginatus</i>	Manipungan, Soopakai	மாண்புமண சோப்பகை
50	<i>Sesuvia portulacastrum</i>	Asoca	அசோகா
51	<i>Strobilium asper</i>	Piray maran	பிராய் மாறன்
52	<i>Strychnos nuxvomica</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Theerthang Kottai	தீர்த்தங்கு கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia bellirica</i>	Theendri	தேண்டிரி
56	<i>Terminalia arjuna</i>	Ven anarathu	வேண்டாந்து
57	<i>Terminalia catappa</i>	Sandhana verbu	சாண்டாணா வேறு
58	<i>Thespesia populnea</i>	Puvvarasu	புவ்வரசு
59	<i>Walsaratrifolia</i>	valsara	வால்சாரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecolobium dulce</i>	Kodakkapuli	கொடக்காபுலி


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