

State Expert Appraisal Committee (SEAC)

Minutes of 384th meeting of the State Expert Appraisal Committee (SEAC) held on 16.06.2023 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No: 384-01

(File No: 6332/2023)

Existing limestone mine over an extent of 3.31.0 Ha at S.F.Nos. 12/11, 13/9, 124/1, 2A, 2B, 2C, 2D, 3B, 3C, 4A, 4B, 4C, 4D, 5A, 5B & 5C of Alanthuraiyarkattalai Village, Ariyalur Taluk, Ariyalur District, Tamil Nadu by Thiru.A. Mohamed Feroz - For Environmental Clearance under violation category. (SIA/TN/MIN/424228/2023, Dated: 31.03.2023)

The proposal was placed in 384th SEAC meeting held on 16.06.2023. 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.A. Mohamed Feroz has applied for Environmental Clearance for the proposed limestone mine over an extent of 3.31.0 Ha at S.F.Nos. 12/11, 13/9, 124/1, 2A, 2B, 2C, 2D, 3B, 3C, 4A, 4B, 4C, 4D, 5A, 5B & 5C of Alanthuraiyarkattalai Village, Ariyalur Taluk, Ariyalur 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.

During the presentation, EIA coordinator informed that the proponent was absent for the meeting. Hence, the subject was not taken up for appraisal.

Agenda No: 384-02

(File No: 9913/2023)

Proposed Black Granite Quarry lease over an extent of 1.98.0 Ha at S.F.Nos. 236/1A1 (Part), 236/1A2 (Part) & 236/1B (Part) of Marasandiram Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. Saraa Granites - For Environmental Clearance. (SIA/TN/MIN/421936/2023, Dated: 13.03.2023)

The proposal was placed in 384th SEAC meeting held on 16.06.2023. 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. Saraa Granites has applied for Environmental Clearance for the proposed Black Granite Quarry lease over an extent of 1.98.0 Ha at S.F.Nos. 236/1A1 (Part), 236/1A2 (Part) & 236/1B (Part) of Marasandiram Village, Krishnagiri Taluk, Krishnagiri 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 20 years. The production for 5 years not to exceed ROM – 38,400 m³, saleable Black granite @ 20% recovery – 7,680 m³, Granite waste @ 80% - 30,720 m³, Weathered rock – 16,650 m³ & Top soil – 12,420 m³ to an ultimate depth of Mining 25m below ground level.
4. As per the KML file uploaded by the proponent in Parivesh portal and based on the Google imagery, the following is the distance from the site.
 - i. Cauvery North Wildlife Sanctuary – approximately 24.90 Km.
 - ii. Cauvery South Wildlife Sanctuary – approximately 34.60 Km.

File No	9913/2023	Category	B2
	421936/2023		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	M/s. Saraa Granites Plot No. 61, Vakil Layout, Rayakottai Road, Hosur, Krishnagiri District- 635109
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Black Granite Quarry
3.	S.F Nos. of the quarry site with area break-up	:	236/1A1 (Part), 236/1A2 (Part) & 236/1B (Part)
4.	Village in which situated	:	Marasandiram
5.	Taluk in which situated	:	Krishnagiri
6.	District in which situated	:	Krishnagiri

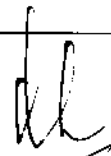

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7.	Extent of quarry (in ha.)	:	1.98.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°37'51.9262"N to 12°37'57.6839"N 78°10'04.7744"E to 78°10'14.9221"E	
9.	Topo Sheet No.	:	57- L/2	
10.	Type of mining	:	Opencast Mining	
11.	Life of Project	:	21 years	
	Lease Period	:	20 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan As modified by SEAC	
	Geological Resources m ³ (RoM)	:	Black Granite - ROM	Black Granite - ROM
			3,98,960m ³	-
			Recovery @ 20%	Recovery @ 20%
			79,792m ³	-
			Granite Waste @ 80%	Granite Waste @ 80%
			3,19,168m ³	-
	Minaable Resources m ³ (RoM)	:	Black Granite - ROM	Black Granite - ROM
			1,59,050m ³	-
			Recovery @ 20%	Recovery @ 20%
			31,810m ³	-
			Granite Waste @ 80%	Granite Waste @ 80%
1,27,240m ³			-	


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		Black Granite - ROM	Black Granite - ROM
		7,700m ³	-
		Recovery @ 20%	Recovery @ 20%
		1,540m ³	-
		Granite Waste @ 80%	Granite Waste @ 80%
		6,160m ³	-
	Annual Peak Production in m ³	:	
	Maximum Depth in meters	:	25 m BGL
13.	Depth of water table	:	52m in rainy season & 60m in summer season
14.	Man Power requirement per day:	:	18 Nos
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. 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 Industries, Investment Promotion & Commerce (MME.2) Department, Department of G&M.	:	Letter No.3060412/MME.2/2022-1, Dated:19.12.2022
18.	Mining Plan approved by Commissioner, Department of G&M.	:	Rc.No. 2138/MM4/2022, Dated: 09.02.2023
19.	Department of G&M, Deputy Director, 500m Cluster Letter	:	Roc.No.625/2021/Mines, Dated 22.02.2023
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 22.03.2023


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21.	Project Cost (excluding EMP cost)	:	Rs. 1,38,50,000
22.	EC Recommendation	:	Validity
			30 years subject to the following upper limits.
			Black Granite
		:	Max Total RoM in m ³
		:	38,400 m ³
		:	Annual Max RoM in m ³
		:	1540 m ³
		:	Max Depth in mtrs
		:	25m
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 11,03,600
		:	Recurring Cost – Rs. 2,94,360
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000

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 annual peak production capacity not exceeding 1,540 m³ of ROM by maintaining the Ultimate depth of mining of 25 m, 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 proponent must erect sheet fencing in the Eastern Direction.
3. The proponent must avoid using blasting techniques to open up weathered rock and shall adopt non-blasting techniques.
4. 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.

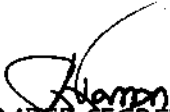
5. The proponent shall obtain a 'Star Rating' system awarded by Anna University, Chennai annually to the mining lease being operated for their efforts and initiatives taken for successful implementation of the Sustainable Development Framework (SDF).
6. The proponent shall mandatorily appoint the statutory Mines Manager & other statutory competent persons and the Geologist in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Granite Conservation & Development Rules, 1999 respectively before obtaining the CTO.
7. 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.
8. 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.
9. The PP shall extract the dimensional stone blocks through non-explosive techniques such that the surrounding structures are not impacted.
10. 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.
11. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
12. 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


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should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained properly.

13. The PP shall ensure that the Diamond Wire Saw Machine Operators/Technicians shall be adequately trained in safe operation/proper maintenance of Machine and the rope.
14. In the interest of safety, the PP of the planned quarry where the Diamond Wire Saw Machines are proposed and OEM of such machines are advised to comply with the safety provisions as given in DGMS (Tech) Circular No. 02 of 2019 so that accidents are mitigated adequately.
15. The PP shall conduct a Slope Stability study after a period of five years from the commencement of quarrying operation through any reputed scientific institution such as NIRM, IIT(ISM), NITK Surathkal-Dept of Mining Engg, Anna University Chennai – CEG Campus and any other CSIR labs, to study the efficacy of the slope stability of highwall in the proposed quarry for the safe operation.
16. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
17. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
18. 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.
19. 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.
20. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics.


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21. 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.
- 22.Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 23.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.
- 24.The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 25.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.
- 26.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.
- 27.The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per


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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) 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. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under.
34. 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.
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


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due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. as per MoEF&CC OM F. No. 22-34/2018-IA.III Dated: 16.01.2020.

36. 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.

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

38. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent to Government High School, Nedumaruthi, Krihsnagiri as committed, before obtaining CTO from TNPCB.

39. The proponent has come forward to contribute to DFO Hosur, in addition to CER, an amount of Rs. 5 Lakhs to prevent man-elephant conflict.

Agenda No: 384-03

(File No: 9920/2023)

Proposed Multi colour Granite Quarry lease over an extent of 4.41.0 Ha at S.F.Nos. 1332/1, 1332/2A, 1332/2B, 1324/1, 1325/1, 1327/2A, 1327/2B1 & 1327/2B2 of Thiruthangal Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by Tvl. Stanco Traders Granite Division - For Environmental Clearance. (SIA/TN/MIN/424891/2023, Dated: 06.04.2023)

The proposal was placed in 384th SEAC meeting held on 16.06.2023. 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, Tvl. Stanco Traders Granite Division has applied for Environmental Clearance for the proposed Multi colour Granite Quarry lease over an extent of 4.41.0 Ha at S.F.Nos. 1332/1, 1332/2A, 1332/2B, 1324/1, 1325/1, 1327/2A, 1327/2B1 & 1327/2B2 of Thiruthangal Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.


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3. As per the mining plan, the lease period is for 20 years. As per the scheme of mining the production for 5 years not to exceed ROM – 96,657 m³, saleable multi-colour granite @ 40% recovery – 38,663 m³ and Granite Reject @ 60% - 57,994 m³ to an ultimate depth of Mining 103m below ground level.
4. Earlier, EC was accorded to the project proponent vide Lr. No. SEIAA-TN/F.No.4656/EC/1(a)/2907/2016 dated: 17.02.2016 for a quantity of 24908 m³ of multi-colour granite up to a depth of 35m with a maximum validity of 5 years.

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

- i) From the presentation made by the PP, it was informed that the amalgamation permission has been obtained from the Director of Mines Safety, DGMS, Chennai Region for combining the five leases under Reg. 111(1) of the MMR 1961 which means that the mine boundary is changed. The PP is requested to provide the total extent and quantity of combined/amalgamated area of five leases with specifying each G.O wise.
- ii) From the presentation made by the PP, it has been observed that amalgamation permission has been obtained from the Director of Mines Safety, DGMS, Chennai Region for combining the five leases under Reg. 111(1) of the MMR 1961 vide Lr. No. CSZ/CNR/Granite/Perm-111(1)/32/2016/479, dated. 28.03.2017 & Lr. No. CSZ/CNR/Granite/Perm-111(1)/33/2016/484, dated. 28.03.2017. The PP shall indicate whether the permission was obtained from the Directorate of Geology and Mining to carry out the quarrying operations in a single lease as per the permission granted by the DMS, DGMS/Chennai Region from 2017 and the PP shall provide the documentary proof for the amalgamation permission obtained from the Directorate of Geology and Mining and the validity of lease period.
- iii) The PP shall provide the details on the proposal given in the Second Scheme of Mining (i.e., 2013 to 2018) for which the prior EC was granted by the SEIAA and also to specify the achieved quantity against the proposed quantity.



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- iv) Based on the approved scheme of mining submitted by the proponent in Parivesh Portal, it is ascertained that the proponent has achieved a depth of 79m during the earlier EC period (2016-2021) against the approved depth of 35m. Further, during the meeting proponent disclosed that existing pit is 90m and subsequently, in presentation existing maximum pit depth mentioned was 103m. Hence, the proponent shall furnish an explanation for exceeding the approved depth and the ambiguity in the existing pit depth. The PP shall provide the details of any permission obtained in the form of Modified Mining Plan approved by the competent authority for carrying out the quarrying operations for a depth of 103 m under the provisions of Granite Conservation & Development Rules, 1999 and the Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016.
- v) As per the scheme of mining approval letter issued vide Rc.No.3687/MM2/2022 Dated: 10.02.2023, it is ascertained that
"...The Lessee has an undertaking vide Sworn affidavit dated 08.02.2023 to the effect that he shall abide by the final orders of the Hon'ble Madurai Bench of Madras High Court in W.P.No.10106/2020 regarding the compensation for E.C. Violation"
- Hence, the proponent shall furnish complete details regarding the pending court case at Madurai bench of Madras High Court.
- vi) Further, during the presentation, proponent disclosed that AD/Mines levied penalty for excess quantity mined. Hence, the proponent shall submit the details regarding the quantity for which penalty was levied.
- vii) The PP shall exhibit the technical justifications for increasing the depth of existing quarry to 103 m with maintaining the stability of the quarry wall in a safe manner.
- viii) The PP shall withdraw any duplicate files if already made with the SEIAA.
- ix) The PP shall disclose the details pertaining to the legal cases pending against the proposal if any.

After receipt of the above particulars, further deliberations will be done.


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Agenda No: 384-04

(File No: 9948/2023)

Proposed Black Granite (Dolerite) Quarry lease over an extent of 2.26.0 Ha at S.F.Nos. 435/6A7A, 435/6A7B, 435/8 & 436/1C1 of Sithalur Village, Kallakurichi Taluk, Kallakurichi District, Tamil Nadu by M/s. Alfa Estates Private Limited - For Environmental Clearance. (SIA/TN/MIN/423631/2023, Dated: 28.03.2023)

The proposal was placed in 384th SEAC meeting held on 16.06.2023. 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, M/s. Alfa Estates Private Limited has applied for Environmental Clearance for the proposed Black Granite (Dolerite) Quarry lease over an extent of 2.26.0 Ha at S.F.Nos. 435/6A7A, 435/6A7B, 435/8 & 436/1C1 of Sithalur Village, Kallakurichi Taluk, Kallakurichi 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 20 years. As per the 2nd scheme of mining approved by Department of Geology and Mining vide Rc. No.1698/MM4/2023 Dated: 15.03.2023, The production for 2023-24 not to exceed ROM – 12,318 m³, saleable Black granite @ 20% recovery – 2,464 m³ and as per 3rd scheme of Mining approved the production for the year 2024-25 to 2028-29 shall not exceed RoM – 1,08,718 m³, 21,744 m³ of Granite @ 20%, Granite waste @ 80% - 86,974 m³, Weathered rock – 16,650 m³ & Top soil – 12,420 m³ to an ultimate depth of Mining 42m below ground level.
4. The proponent has applied for Terms of Reference under violation based on MoEF&CC Notification S.O. 804(E) dated 14-03-2017 vide online number SIA/TN/MIN/27120/2018 Dated: 13.09.2017 and based on MoEF&CC Notification S. O. 1030 (E) dated 08.03.2018 and MoEF& CC office memorandum F. No. Z-11013/22/2017- IA. II (M) dated 16.03.2018 vide SIA/TN/MIN/23697/2018 Dated: 06.04.2018.
5. Further, the above-mentioned Notification
 - i. S.O. 804 (E) Dated: 14.03.2017 states that

"...13 (1). Now, therefore, in exercise of the powers conferred by sub-


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section (1) and sub clause (a) of clause (i) and clause (v) of sub-section (2) of section 3 of the Environment (Protection) Act, 1986, read with clause (d) of sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986; the Central Government hereby directs that the projects or activities or the expansion or modernisation of existing projects or activities requiring prior environmental clearance under the Environment Impact Assessment Notification, 2006 entailing capacity addition with change in process or technology or both undertaken in any part of India without obtaining prior environmental clearance from the Central Government or by the State Level Environment Impact Assessment Authority, as the case may be, duly constituted by the Central Government under sub-section (3) of Section 3 of the said Act, shall be considered a case of violation of the Environment Impact Assessment Notification, 2006 and will be dealt strictly as per the procedure specified in the following manner:-

(2) In case the projects or activities requiring prior environmental clearance under Environment Impact Assessment Notification, 2006 from the concerned Regulatory Authority are brought for environmental clearance after starting the construction work, or have undertaken expansion, modernization, and change in product- mix without prior environmental clearance, these projects shall be treated as cases of violations and in such cases, even Category B projects which are granted environmental clearance by the State Environment Impact Assessment Authority constituted under sub-section (3) Section 3 of the Environment (Protection) Act, 1986 shall be appraised for grant of environmental clearance only by the Expert Appraisal Committee and environmental clearance will be granted at the Central level.


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- ii. S.O. 1030 (E) Dated: 08.03.2018 which states that for sub-paragraph (2), the following sub-paragraph shall be substituted, namely: -

(2) In case the projects or activities requiring prior environmental clearance under the Environment Impact Assessment Notification, 2006 from the concerned regulatory authority are brought for environmental clearance after starting the construction work, or have undertaken expansion, modernisation, and change in product-mix without prior environmental clearance, these projects shall be treated as cases of violations and the projects or activities covered under category A of the Schedule to the Environment Impact Assessment Notification, 2006, including expansion and modernisation of existing projects or activities and change in product mix, shall be appraised for grant of environmental clearance by the Expert Appraisal Committee in the Ministry and the environmental clearance shall be granted at Central level, and for category B projects, the appraisal and approval thereof shall vest with the State or Union territory level Expert Appraisal Committees and State or Union territory Environment Impact Assessment Authorities in different States and Union territories, constituted under sub-section (3) of section 3 of the Environment (Protection) Act, 1986.":

6. Further, the proponent has submitted last transportation permit obtained from Department of Geology and Mining vide Rc. No. B/G&M/1983/2008 Dated: 23.03.2023

"...In this regard, on perusal of this office records, it is ascertained that a total quantity of 909,599 cbm of Black Granite has been permitted for transportation from the lease area up to 03.08.2012."

7. Hence, based on the above-mentioned Notification and AD/Mines letter regarding last transport permit obtained, SEAC is of the opinion that since, the proponent has not operated post 2012, the proponent will not come under violation category. Hence, SEAC accepts the proponent's request to withdraw the


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online proposal viz SIA/TN/MIN/27120/2018 Dated: 13.09.2017 and SIA/TN/MIN/23697/2018 Dated: 06.04.2018 which has been submitted under violation category and SEIAA may accordingly take necessary action in accordance with the procedures laid by the MoEF & CC.

File No	9948/2023		Category	B2	
	423631/2023			1(a)	
Sl. No	Salient Features of the Proposal				
1.	Name of the Owner/Firm	:	M/s. Alfa Estates Private Limited. No.911, Barton Centre. 84, M.G.Road, Bangalore, Karnataka State-560001.		
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Black Granite (Dolerite) Quarry		
3.	S.F Nos. of the quarry site with area break-up	:	435/6A7A, 435/6A7B, 435/8 & 436/1C1		
4.	Village in which situated	:	Sithalur		
5.	Taluk in which situated	:	Kallakurichi		
6.	District in which situated	:	Kallakurichi		
7.	Extent of quarry (in ha.)	:	2.26.0 Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	11°42'14.52"N to 11°42'21.16"N 79°3'37.36"E to 79°3'44.24"E		
9.	Topo Sheet No.	:	58- M/02		
10.	Type of mining	:	Opencast Semi-Mechanized Mining		
11.	Life of Project	:	7 years		
	Lease Period	:	20 years		
	Mining Plan Period	:	20 years		
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC	
	Geological Resources m ³ (RoM)	:	Black Granite - ROM	Black Granite - ROM	
		:	2,00,526m ³	-	
		:	Recovery @ 20% 40,105m ³	Recovery @ 20%	


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			Granite Waste @ 80%	Granite Waste @ 80%
			1,60,421m ³	-
	Minable Resources m ³ (RoM) :		Black Granite - ROM	Black Granite - ROM
			1,08,718m ³	-
			Recovery @ 20%	Recovery @ 20%
			21,744m ³	-
			Granite Waste @ 80%	Granite Waste @ 80%
			86,974m ³	-
	Annual Peak Production in m ³ :		Black Granite - ROM	Black Granite - ROM
			23,598m ³	-
			Recovery @ 20%	Recovery @ 20%
			4,720m ³	-
			Granite Waste @ 80%	Granite Waste @ 80%
			18,878m ³	-
	Ultimate Pit Depth in meters :		42m	
13.	Depth of water table :		50m in rainy season & 55m in summer season	
14.	Man Power requirement per day:		17 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 34,784 Litres of HSD	
17.	Precise area communication approved by the Industries (MME - 1) Department, Department of G&M.		G.O.(3D) No.129, Dated:18.12.2008	
18.	Mining Plan approved by Commissioner, Department of G&M.		Rc.No. 1698/MM4/2023, Dated: 15.03.2023	
19.	Department of G&M, Assistant Director (i/c), 500m Cluster Letter		Rc.No.B/G&M/1983/2008, Dated 23.03.2023	


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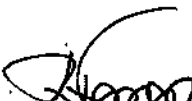
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20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 21.03.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 73,50,000	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
				Granite
			Max Total RoM in m ³	1,08,718 m ³
			Annual Max RoM in m ³	23,598 m ³
		:	Max Depth in mtrs	42m
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 1,20,10,280 Recurring Cost – Rs. 11,79,180	
24.	CER cost (in Rs. Lakh).	:	Rs. 6,40,000	

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 annual peak production capacity not exceeding not exceeding 23,598 m³ of ROM by maintaining the Ultimate depth of mining of 42 m, 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 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.

3. 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).
4. The proponent shall mandatorily appoint the statutory Mines Manager & other statutory competent persons and the Geologist in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Granite Conservation & Development Rules, 1999 respectively before obtaining the CTO.
5. 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.
6. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
7. The PP shall extract the dimensional stone blocks through non-explosive techniques such that the surrounding structures are not impacted.
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 carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
10. 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.


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11. The PP shall ensure that the Diamond Wire Saw Machine Operators/Technicians shall be adequately trained in safe operation/proper maintenance of Machine and the rope.
12. In the interest of safety, the PP of the planned quarry where the Diamond Wire Saw Machines are proposed and OEM of such machines are advised to comply with the safety provisions as given in DGMS (Tech) Circular No. 02 of 2019 so that accidents are mitigated adequately.
13. 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.
14. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the quarry wall of the existing quarry within one year from the commencement of mining operations for determining the safe slope angle and determining stability measures, by involving any one of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, IIT-Madras, NIRM-Bangaluru, NIT Surathkal – Dept of Mining Engg, Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
15. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
16. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
17. 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.


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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.
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.
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, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
22. 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.
23. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
24. 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.
25. 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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26. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
27. 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.
28. 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.
29. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
30. 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.
31. 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.
32. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under.
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. 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. as per MoEF&CC OM F. No. 22-34/2018-IA.III Dated: 16.01.2020.
35. 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.
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 EMP furnished.
37. PP shall withdraw any duplicate files pending in SEIAA on the same proposal.
38. As accepted by the Project proponent the CER cost is Rs. 6.4 lakhs and the amount shall be spent to Government High School – Paniyankal Village, as committed, before obtaining CTO from TNPCB.

Agenda No: 384-05

(File No: 9921/2023)

Existing multi-colour granite quarry lease over an extent of 1.21.5 Ha at S.F.No. 1323/1A & 1302/2 of Thiruthangal Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by Tvl.Stanco Traders – For Environmental Clearance (SIA/TN/MIN/424857/2023 dt.06.04.2023)

The proposal is placed in this 384th meeting of SEAC held on 16.06.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Tvl. Stanco Traders has applied for Environmental Clearance for the Existing multi-colour granite quarry lease over an extent of 1.21.5 Ha at S.F.No. 1323/1A & 1302/2 of Thiruthangal Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu.


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2. The project/activity is covered under Category "B" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was accorded to the project proponent vide Lr.No.SEIAA-TN/F.No.4889/EC/ 1(a)/2899/2016 dated.17.02.2016 for a quantity of 2175m³ of multi-colour granite up to a depth of 46m with a maximum validity of 5 years.
4. Now, the proponent has submitted an application seeking Environmental Clearance for the 3rd scheme of mining (2019-2024) for the production of 21,113m³ of multi-colour granite for an ultimate depth of 103m. The lease is valid till 21.09.2024.

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

- i) From the presentation made by the PP, it was informed that the amalgamation permission has been obtained from the Director of Mines Safety, DGMS, Chennai Region for combining the five leases under Reg. 111(1) of the MMR 1961 which means that the mine boundary is changed. The PP is requested to provide the total extent and quantity of combined/amalgamated area of five leases with specifying each G.O wise.
- ii) From the presentation made by the PP, it has been observed that amalgamation permission has been obtained from the Director of Mines Safety, DGMS, Chennai Region for combining the five leases under Reg. 111(1) of the MMR 1961 vide Lr. No. CSZ/CNR/Granite/Perm-111(1)/32/2016/479, dated. 28.03.2017 & Lr. No. CSZ/CNR/Granite/Perm-111(1)/33/2016/484, dated. 28.03.2017. The PP shall indicate whether the permission was obtained from the Directorate of Geology and Mining to carry out the quarrying operations in a single lease as per the permission granted by the DMS, DGMS/Chennai Region from 2017 and the PP shall provide the documentary proof for the amalgamation permission obtained from the Directorate of Geology and Mining and the validity of lease period.
- iii) The PP shall provide the details on the proposal given in the Second Scheme of Mining (i.e., 2013 to 2018) for which the prior EC was granted by the


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SEIAA and also to specify the achieved quantity against the proposed quantity.

- iv) Based on the approved scheme of mining submitted by the proponent in Parivesh Portal, it is ascertained that the proponent has achieved a depth of 103m during the earlier EC period (2016-2021) against the approved depth of 46 m. Further, during the meeting proponent disclosed that existing pit is 90m and subsequently, in presentation existing maximum pit depth mentioned was 103m. Hence, the proponent shall furnish an explanation for exceeding the approved depth and the ambiguity in the existing pit depth. The PP shall provide the details of any permission obtained in the form of Modified Mining Plan approved by the competent authority for carrying out the quarrying operations for a depth of 103 m under the provisions of Granite Conservation & Development Rules, 1999 and the Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016.
- v) As per the scheme of mining approval letter issued vide Rc.No.3687/MM2/2022 Dated: 10.02.2023, it is ascertained that

"...The Lessee has an undertaking vide Sworn affidavit dated 08.02.2023 to the effect that he shall abide by the final orders of the Hon'ble Madurai Bench of Madras High Court in W.P.No.10106/2020 regarding the compensation for E.C. Violation"

Hence, the proponent shall furnish complete details regarding the pending court case at Madurai bench of Madras High Court.

- vi) Further, during the presentation, proponent disclosed that AD/Mines levied penalty for excess quantity mined. Hence, the proponent shall submit the details regarding the quantity for which penalty was levied.
- vii) The PP shall exhibit the technical justifications for increasing the depth of existing quarry to 103 m with maintaining the stability of the quarry wall in a safe manner.
- viii) The PP shall withdraw any duplicate files if already made with the SEIAA.


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- ix) The PP shall disclose the details pertaining to the legal cases pending against the proposal if any.

After receipt of the above particulars, further deliberations will be done.

Agenda No: 384-06

(File No: 9963/2023)

Existing Black Granite quarry lease over an extent of 1.80.0 Ha at S.F.No. 12/2 of Perumbakkam Village, Vanur Taluk, Villupuram District, Tamilnadu by M/s. Satheesh Mines & Industries – For Environmental Clearance (SIA/TN/MIN/422976/2023 dt.22.03.2023)

The proposal is placed in this 384th meeting of SEAC held on 16.06.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **M/s. Satheesh Mines & Industries** has applied for Environmental Clearance for the Existing black granite quarry lease over an extent of 1.80.0 Ha at S.F.No. 12/2 of Perumbakkam Village, Vanur Taluk, Villupuram District, Tamilnadu.
2. The project/activity is covered under Category “B” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was accorded to the project proponent vide Lr.No.SEIAA-TN/F.No.2725/EC/1(a)/2472/2014 dated 15.09.2015 for a quantity of 540m³ of black granite granite up to a depth of 7m with a maximum validity of 5 years.
4. Now, the proponent has submitted an application seeking Environmental Clearance for the scheme of mining (2021-2026) for the production of 6089m³ of black granite. The lease is valid till 09.06.2036.

Based on the presentation and details furnished by the project proponent. it has been observed that the PP has filed the application on 22.03.2023 for the extension of the validity of the prior environmental clearance granted was terminated on 14.09.2021 including the Covid extension which is outside the validity period of subsisting prior EC and also the Scheme of Mining for the period of 2021-22 to 2025-26 was approved only on 20.02.2023 by the competent authority. Hence, the SEAC observe that the aforesaid application cannot be considered for the extension of the validity


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of EC vide MoEF & CC OM No. J-11011/15/2012-IA II (M), dated. 20.03.2015, and for the auto-extension of validity of EC granted earlier vide S.O. 1807(E), dated. 12.04.2022 which states that

“.....on receipt of such application in the laid down proforma from the Project Proponent within the maximum validity period of Environmental Clearance of thirty years, and subsequently on receipt of such application in the laid down proforma from the Project Proponent within the validity period of the extended Environment Clearance.....”

Hence, the EAC decided to treat this application as fresh proposal. Further, the Committee decided to call for the following details from the project proponent to consider the proposal for appraisal:

- i) The project proponent shall submit a certified compliance report obtained from IRO of MoEF&CC for the EC obtained earlier dated.15.09.2015.

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

Agenda No: 384-07

(File No: 9998/2023)

Existing multi-colour granite quarry lease over an extent of 1.84.50 Ha at S.F.No. 128/1, 129/1(P), 129/2(P), 129/3(P), 136/1(P) & 136/2 of Puthur Village, Rajapalayam Taluk, Virudhunagar District, Tamilnadu by Thiru.M.K.Arasappan – For Environmental Clearance. (SIA/TN/MIN/425828/202 dt.12.04.2023)

The proposal is placed in this 384th meeting of SEAC held on 16.06.2023. 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.Arasappan** has applied for Environmental Clearance for the Existing multi-colour granite quarry lease over an extent of 1.84.50 Ha at S.F.No. 128/1, 129/1(P), 129/2(P), 129/3(P), 136/1(P) & 136/2 of Puthur Village, Rajapalayam Taluk, Virudhunagar District, Tamilnadu.
2. The project/activity is covered under Category “B” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was accorded to the project proponent vide Lr.No.SEIAA-TN/F.No.3051/EC/1(a)/1712/2014 dated 04.03.2015 for a quantity of 19,008m³ of rough stone& 9504m³ of gravel.


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4. Now, the proponent has submitted an application seeking Environmental Clearance for quarrying multi colour granite in the same survey number of the previous EC granted for the quarrying of rough stone during the year of 2015 to 2018. The production as per the approved mining plan is 50,000m³ of RoM which includes 15,000m³ of multi-colour granite and 35,000m³ of granite waste & also 4736m³ of weathered rock & 3920m³ of top soil.

Based on the presentation and details furnished by the project proponent, the Committee decided to call for the following details from the project proponent to consider the proposal for appraisal:

- i) The project proponent shall submit a certified compliance report obtained from IRO of MoEF&CC for the EC obtained earlier dated.04.03.2015.
- ii) The PP shall submit the revised EMP.
- iii) The PP shall submit the mining methodology of converting the rough stone quarry into the Granite quarry where the safety precautions to be maintained for ensuring the slope stability, accessibility, and extraction of blocks.

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

Agenda No: 384-08

(File No: 9979/2023)

Existing Black Granite quarry lease area over an extent of 1.79.0 Ha at S.F.No. 52/1 and 52/2A1 of Thondamanur Village, Thandarampattu Taluk, Tiruvannamalai District, Tamil Nadu by Thiru. M. Ramasamy - For Environmental Clearance. (SIA/TN/MIN/424596/2023, Dated: 03.04.2023)

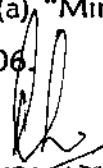
The proposal was placed for appraisal in this 384th meeting of SEAC held on 16.06.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. M. Ramasamy has applied for Environmental Clearance for the existing Black Granite quarry lease area over an extent of 1.79.0 Ha at S.F.No. 52/1 and 52/2A1 of Thondamanur Village, Thandarampattu Taluk, Tiruvannamalai 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.


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3. Environmental Clearance was granted vide Letter No SEIAA-TN/F.No.2769/EC/1(a)/1607/2014 Dated 19.02.2015. For the production stating that 1,002m³ of Black Granite & 4,006m³ of Granite waste & 1,083m³ of Top soil & 1,350m³ of Side burden over a period of five years
4. The PP have quarried and transported a quantity of 2,464.512m³ of Black Granite (Till 25.07.2018) as against the proposed quantity of Granite granted in EC ie.,1002m³ of Black Granite in the Mining plan period 2015-19 to 2019-20
5. For the Excess Granite quantity of 1462.512m³ District Collector, Tiruvannamalai Given Demand Notice vide Rc. No. 438/Kanimam/2019-6 Dated 29.06.2020 to pay penalty Rs 9,27,45,797/- RATE OF 100% Mineral Cost.
6. The PP has obtained Clarification vide amendment in EC Obtained vide Lr.No. SEIAA-TN/F.No.2769/2014 Dated: 23.06.2021 was obtained declaring ROM for EC Issued is 5008 m³ its mentioned the proponent shall handle the mineral within ROM mentioned in the approved mining Plan submitted to the State Level Environment Impact Assessment Authority.
7. Field inspection was carried out by Deputy Director, Assistant Geologist 04.02.2023 stated that the particulars furnished by the lessee in the Scheme of mining regarding the overburden, Generation of Waste, recovery of Marketable Granite blocks found to be correct.

xii. From the 1st scheme of mining submitted by the lessee, the following are noticed.

1. Total ROM	:	20,049 cbm
2. Total Recoverable Reserves @50% recovery	:	10,024.5 cbm
3. Granite waste @50%	:	10,024.5 cbm
4. Side burden	:	342 cbm
5. Total Waste (Granite waste + side burden)	:	10,366.5 cbm
6. Granite:Waste ratio	:	1:1.03
7. Average production per year @50% recovery	:	10,024.5 cbm
8. Five years production of Granite	:	2005 cbm
9. Available Mineable reserves	:	15,839 cbm
10. Estimated life of the quarry	:	8 years

8. WA pending in the Hon'ble high Court regarding EC Penalty and the PP has given undertaking affidavit to the Department of Geology and Mining mentioning we will abide by decision of the Government and we also pay for


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the stamp duty to the Entire ROM 5008 m³ mentioned in the Environmental Clearance Lr. No SEIAA-TN Lr. No. F. No. 2769/2014 Dated 23.06.2021

9. The Commissioner, Department of Geology and Mining, Guindy, Chennai – 32 Approved our Scheme of Mining plan vide Letter RC. No 847/MM4/2023 Dated 13.02.2023.
10. The PP also request, they had excavated 2464.512m³ of Granite within the ROM of 5,008m³ only my recovery of Granite is increased during the mining operation.

EC Issued	Achieved during EC Period
Period – 5 Years (2015-16 to 2019-20)	Period – 5 Years (2015-16 to 2019-20)
1002 m ³ of Black Granite 4006 m ³ of Granite Waste <u>Total ROM – 5,008 m³</u> 1,350 m ³ of Side Burden 1,083 m ³ of Topsoil Depth of Mining – 11 m bgl	<u>Achieved Production</u> 2484.443m³ of Black Granite Existing Pit Dimension = 85 m (L) * 42 m (W) * 11 m (D)


File No	9979 / 2023	Category	B2
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. M. Ramasamy, S/o. Muthu Gounder, Muthu Gounder Colony, Harur Taluk, Dharmapuri District - 636 903.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Black Granite
3.	S.F Nos. of the quarry site with area break-up	:	52/1 and 52/2A1
4.	Village in which situated	:	Thondamanur
5.	Taluk in which situated	:	Thandarampattu


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6.	District in which situated	:	Tiruvannamalai	
7.	Extent of quarry (in ha.)	:	1.79.0	
8.	Latitude & Longitude of all corners of the quarry site	:	12°04'30.39"N to 12°04'36.97"N 78°56'40.76"E to 78°56'47.38"E	
9.	Topo Sheet No.	:	57-L/16	
10.	Type of mining	:	Opencast Mechanized Mining	
11.	Life of Project	:	8 years	
	Lease Period	:	20 years	
	Mining Plan Period	:	20 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	Black Granite 2,04,200 m ³ ROM which includes 1,02,100 m ³ of Black Granite (50% recovery) and 1,02,100 m ³ of Black Granite waste	Black Granite 2,04,200 m ³ ROM which includes 1,02,100 m ³ of Black Granite (50% recovery) and 1,02,100 m ³ of Black Granite waste
		:	Black Granite 31,678 m ³ ROM which includes 15,839 m ³ of Black Granite (50% recovery) and 15,839 m ³ of Black Granite waste	Black Granite 31,678 m ³ ROM which includes 15,839 m ³ of Black Granite (50% recovery) and 15,839 m ³ of Black Granite waste
	Annual Peak Production in m ³	:	Black Granite 4095 m ³ of ROM	Black Granite 4095 m ³ of ROM
	Ultimate Depth in meters	:	31m bgl	31m bgl
13.	Depth of water table	:	57m-62m bgl	
14.	Man Power requirement per day:	:	30 Nos.	
15.	Water requirement:	:	1.6 KLD	
	1. Drinking water	:	0.4 KLD	
	2. Utilized water	:	-	
	3. Dust suppression	:	0.7 KLD	
	4. Green belt	:	0.5 KLD	
16.	Power requirement	:	32,080 Liters of HSD	



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17.	Precise area communication approved by the Additional Chief Secretary to Government, Industries (MMB.2) Department	:	G.O. (3D) No.7, Industries (MMB.2) Department, Dated: 10.03.2015	
18.	Mining Plan approved by Commissioner, Department of G&M.	:	Rc.No.847/MM4/2023, dated: 13.02.2023	
19.	Department of G&M, Deputy Director 500m Cluster Letter	:	Rc.No.138/Kanimam/2023, dated: 13.03.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 22.03.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 1.35.34,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m ³	Black Granite 20,049 m ³ ROM which includes 10,024.5 m ³ of Black Granite (50% recovery) and 10,024.5 m ³ of Black Granite waste
		:	Annual Max RoM in m ³	4095 m ³
		:	Max Depth in mtrs	31m bgl
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 30,06,300/- Recurring Cost – Rs. 11,47,180/-	
24.	CER cost (in Rs. Lakh).	:	Rs. 5 lakhs	

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production of not exceeding 4095 m³ of RoM to an ultimate depth of 31m BGL as per the approved mining plan subject to the standard conditions as per the


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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) 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 (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) 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


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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 Project Proponent shall carry out the scientific studies to assess the slope stability of the quarry wall of the existing quarry within two years from the commencement of mining operations for determining the safe slope angle and determining stability measures, by involving any one of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, IIT-Madras, NIRM-Bangaluru, NIT Surathkal – Dept of Mining Engg, Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
- 10) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 11) The PP shall install the Environmental Management Cell headed by the statutory (I/II Class) Mines Manager of the concerned mine 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.
- 12) 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.
- 13) 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).


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- 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.
- 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.


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- 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, (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 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) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 27) 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.
- 28) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 29) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road


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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.

- 30) 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.
- 31) 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.
- 32) 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.
- 33) 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.
- 34) 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.
- 35) 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.
- 36) 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


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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.

- 37) 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.
- 38) 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.
- 39) 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.
- 40) 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 Govt Middle School, Thondamanur Village, Thandrapattu the Village Government School, before obtaining CTO from TNPCB.

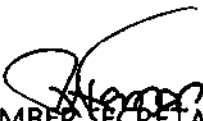
Agenda No: 384-09

(File No: 10000/2023)

Existing Multi-Colour Granite quarry lease area over an extent of 1.12.0 Ha at S.F.No. 650/4 of Kodaiyur Village, Aravakurichi Taluk, Karur District, Tamil Nadu by M/s. Millenium Granites - For Environmental Clearance. (SIA/TN/MIN/425350/2023, Dated: 12.04.2023)

The proposal was placed for appraisal in this 384th meeting of SEAC held on 16.06.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:


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1. The project proponent, M/s. Millenium Granites has applied for Environmental Clearance for the existing Multi-Colour Granite quarry lease area over an extent of 1.12.0 Ha at S.F.No. 650/4 of Kodaiyur Village, Aravakurichi Taluk, Karur 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.

File No	10000 / 2023	Category	B2
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	M/s. Millenium Granites, No.7-B, Ramakrishnapuram, Karur - 639 001.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Multi-Colour Granite
3.	S.F Nos. of the quarry site with area break-up	:	650/4
4.	Village in which situated	:	Kodaiyur
5.	Taluk in which situated	:	Aravakurichi
6.	District in which situated	:	Karur
7.	Extent of quarry (in ha.)	:	1.12.0
8.	Latitude & Longitude of all corners of the quarry site	:	10°50'52.97358"N to 10°50'57.64008"N 78°1'37.84890"E to 78°1'41.68579"E
9.	Topo Sheet No.	:	58-J/01
10.	Type of mining	:	Opencast Mechanized Mining
11.	Life of Project	:	5 years
	Lease Period	:	20 years
	Mining Plan Period	:	5 years

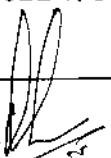

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	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
12.	Geological Resources m ³ (RoM)	:	Multi-Colour Granite	Multi-Colour Granite
		:	2,68,920 m ³ ROM which includes 94,124 m ³ of Multi-Colour Granite (35% recovery) and 1,74,796 m ³ of Multi-Colour Granite waste	2,68,920 m ³ ROM which includes 94,124 m ³ of Multi-Colour Granite (35% recovery) and 1,74,796 m ³ of Multi-Colour Granite waste
	Mirable Resources m ³ (RoM)	:	Multi-Colour Granite	Multi-Colour Granite
		:	89,760 m ³ ROM which includes 31,416 m ³ of Multi-Colour Granite (35% recovery) and 58,344 m ³ of Multi-Colour Granite waste	89,760 m ³ ROM which includes 31,416 m ³ of Multi-Colour Granite (35% recovery) and 58,344 m ³ of Multi-Colour Granite waste
	Annual Peak Production in m ³	:	Multi-Colour Granite	Multi-Colour Granite
	:	1827 m ³ of ROM	1827 m ³ of ROM	
	Ultimate Depth in meters	:	28m	28m
13.	Depth of water table	:	70m-60m bgl	
14.	Man Power requirement per day:	:	18 Nos.	
15.	Water requirement:		3.5 KLD	
	1. Drinking water		0.5 KLD	
	2. Utilized water	:	1.0 KLD	
	3. Dust suppression		1.0 KLD	
	4. Green belt		1.0 KLD	
16.	Power requirement	:	37,632 Liters of HSD	
17.	Precise area communication approved by the Additional	:	Letter No.3354297/MMB.2/2022-1, Dated 25.01.2023	


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	Chief Secretary to Government, Industries (MMB.2) Department			
18.	Mining Plan approved by Commissioner, Department of G&M.	:	Rc.No. 3553/MM2/2022 Dated 26.03.2023	
19.	Department of G&M, Deputy Director 500m Cluster Letter	:	Rc.No.500/Mines/2021, Dated: 03.04.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 04.04.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 44,50,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m ³	Multi-Colour Granite 23,520 m ³ ROM which includes 8232 m ³ of Multi-Colour Granite (35% recovery) and 15,288 m ³ of Multi-Colour Granite waste
		:	Annual Max RoM in m ³	1827 m ³
		:	Max Depth in mtrs	28m bgl
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 35,61,647/- Recurring Cost – Rs. 11,05,078/-	
24.	CER cost (in Rs. Lakh).	:	Rs. 6,50,000/-	

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


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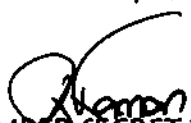
annual peak production of not exceeding 1827 m³ of RoM by maintaining ultimate pit depth of 28 m as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 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) 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 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 install the Environmental Management Cell headed by the statutory (I/II Class) Mines Manager of the concerned mine and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
- 10) The PP shall 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.
- 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 PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 13) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 14) 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.
- 15) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.



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- 16) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 17) 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.
- 18) 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.
- 19) 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.
- 20) 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.
- 21) 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.
- 22) **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.
- 23)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.
- 24)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.
- 25)Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 26)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.
- 27)The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 28)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.
- 29)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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- 30) 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.
- 31) 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.
- 32) 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.
- 33) 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.
- 34) 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.
- 35) 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.
- 36) 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.

37) 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.

38) 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.

39) As accepted by the Project Proponent the CER cost of Rs. 6.5 lakh and the amount shall be spent for the committed activities in Govt Hr Sec School, K. Sithapatti Village, Karur before obtaining CTO from TNPCB.

Agenda No: 384-10


(File No: 8393/2021)

Proposed Rough Stone and Gravel quarry lease area over an extent of 1.82.0 Ha located at S.F. No. 77/2E (P), 77/2F (P) & 79/1A (P), Chikkarampalayam Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu by Tmt. M. Muthammal - For amendment in existing Environmental Clearance issued. (SIA/TN/MIN/298631/2023 dated: 14.03.2023)

The proposal was placed in the 384th meeting of SEAC held on 16.06.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following.

1. The project proponent, Tmt. M. Muthammal has obtained Environmental Clearance for the proposed Rough Stone and Gravel quarry lease area over an extent of 1.82.0 Ha located at S.F. No. 77/2E (P), 77/2F (P) & 79/1A (P), Chikkarampalayam Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu vide Lr. No.SEIAA-TN/F.No.8393/EC.No:5492/2023 dated: 09.01.2023
2. Now, the proponent has submitted an application requesting the following amendment in the EC issued earlier:


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Description	As in EC issued dated. 09.01.2023	Amendment Sought
CER details	As accepted by the Project Proponent the CER cost is Rs.7.5 Lakh and the amount shall be spent on the committed activities for Government School, before obtaining CTO from TNPCB	As accepted by the Project Proponent the CER cost is Rs.1 Lakh and the amount shall be spent for whit washing in Panchayat Union Middle School Chikkarayanpalayam Village, before obtaining CTO from TNPCB

This proposal was taken up for discussion in this 384th SEAC meeting held on 16.06.2023. Based on the presentation & details furnished by the project proponent, the SEAC decided recommend for amend in CER in the existing EC issued is as follows. However, all the other conditions stipulated in the EC Lr. No.SEIAA-TN/F.No.8393/EC.No:5492/2023 dated: 09.01.2023 are remain unaltered.

Description	As in EC issued dated. 09.01.2023	Amendment Sought
CER details	As accepted by the Project Proponent the CER cost is Rs.7.5 Lakh and the amount shall be spent on the committed activities for Government School, before obtaining CTO from TNPCB	As accepted by the Project Proponent the CER cost is Rs.1 Lakh and the amount shall be spent for whit washing in Panchayat Union Middle School Chikkarayanpalayam Village before obtaining CTO from TNPCB

Agenda No: 384-11

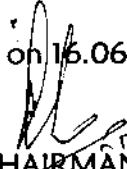
(File No: 6699/2019)

Proposed construction of 720 Tenements at S.F. No. 296/1 & 296/2A, Nethajipuram, Kuniamuthur Village, Perur Taluk, Coimbatore District, Tamil Nadu by M/s. Tamil Nadu Urban Habitat Development Board (formerly known as M/s. Tamil Nadu Slum Clearance Board) – For Amendment in Environmental Clearance (SIA/TN/MIS/276842/2022 dated 11.06.2022)

The proposal was placed in the 384th meeting of SEAC held on 16.06.2023.


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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. M/s. Tamil Nadu Urban Habitat Development Board (formerly known as M/s. Tamil Nadu Slum Clearance Board) has obtained Environmental Clearance vide EC Letter No. SEIAA/TN/F.6699/EC/8(a)/637/2019 dated 07.03.2019 for Proposed construction of 720 Tenements with 13 Blocks each (G+3 floors) with total builtup area of 26,901.40 sq.m.
2. Now the PP has applied for the following amendment vide proposal No. SIA/TN/MIS/276842/2022 dated 11.06.2022 is as follows

SL no	Discerption	As per EC	Amendment Sought
1	Water requirement	Total water requirement – 491 KLD	Total water requirement – 511 KLD
2	Fresh water Requirement	Domestic Requirement- 327 KLD	Domestic Requirement- 327 KLD Toilet Flushing- 164 KLD Green belt – 20 KLD
3	Details of treatment	STP- 200 KLD GWTP- 300 KLD	Untreated sewage disposed into Coimbatore Corporation UGD line
4	Treated sewage & mode of Disposal with quantity	1. Toilet – Flushing- 164 KLD 2. Green belt development- 20 KLD 3. UGD line of Coimbatore corporation- 275 KLD	UGD line of Coimbatore corporation- 459 KLD
5	STP sludge	50 Kg/day- manure for green belt development	Nil


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6	EMP cost	For Operation phase Capital- Cost – Rs 350 Lakhs Recurring cost – Rs 56 Lakhs	For Operation phase Capital- Cost – Rs 95 Lakhs Recurring cost – Rs 28.7Lakhs
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This proposal was taken up for discussion in this 384th SEAC meeting held on 16.06.2023. Based on the presentation & details furnished by the project proponent, the SEAC decided to obtain the following details from the PP.

1. Commitment letter to be obtained from Coimbatore Municipal Corporation for supply of water and also for letting out of untreated sewage through UGD.

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

Agenda No: 384 – 12

(File No: 9917 /2023)

Existing Multi Colour Granite Quarry lease over an extent of 1.44.5Ha S.F.No.138/1 (Part) and 138/2 (Part), Madhiyanallur Village, Illuppur Taluk, Pudukkottai District by Thiru.H.M.Husain Meera – For Environmental Clearance. (SIA/TN/MIN/422209/2023, dt: 15.03.2023)

The proposal was placed in the 384th SEAC meeting held on 16.06.2023.

The details of the proposed project are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. Earlier, the project proponent, Thiru.H.M.Husain Meera has obtained EC vide Letter SEIAA-TN/F.No.4784/EC/1(a)/2815/2015 Dated 08.02.2016 for a approved depth of 8m & Quantity of 4510 m3 of Multi Colour Granite.
2. AD, Mines Existing Pit dimension letter vide Rc.No.337/2020 (G&M), dt: 16.09.2022.
3. IRO (SZ), MoEF&CC issued CCR vide Lr. EP/12.1/2023 -24/SEIAA/23/TN /718 Dt:14.06.2023.
4. Now, the project proponent, Thiru.H.M.Husain Meera has applied for Environmental Clearance for the Existing Multi Colour Granite Quarry lease over an extent of 1.44.5Ha S.F.No.138/1 (Part) and 138/2 (Part), Madhiyanallur Village, Illuppur Taluk, Pudukkottai District, Tamil Nadu.


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5. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
6. The Mining Lease was issued Dt: 12.02.2016 for the period of 20 Years. The approved current scheme mining plan for the period of 5 Years & production should not exceed ROM of 15180m³ & 6072m³ of Granite (Recovery 40%) & 9108m³ of Granite Waste (Reject 60%). The annual peak production is ROM of 3060m³ & 1224m³ of Granite (Recovery 40%) & 1836m³ of Granite Waste (60 Reject %). The depth of mining is 28m BGL.

Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	: Thiru.H.M.Hussain Meera, S/o.H.Mohamed Kassim, No.A-54, Viralimalai Road, Annavasal Village and Post, Illuppur Taluk, Pudukkottai District, Tamil Nadu - 622101.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	: Multi Colour Granite
3.	S.F Nos. of the quarry site with area break-up	: 138/1 (Part) and 138/2 (Part)
4.	Village in which situated	: Madhiyanallur
5.	Taluk in which situated	: Illuppur
6.	District in which situated	: Pudukkottai
7.	Extent of quarry (in ha.)	: 1.44.5Ha
8.	Latitude & Longitude of all corners of the quarry site	: 10°26'06.51"N to 10°26'13.82"N 78°44'05.71"E to 78°44'09.57"E
9.	Topo Sheet No.	: 58- J/11
10.	Type of mining	: Opencast Semi Mechanized of Mining
11.	Life of Project	: 25 Years
	Lease Period	: 20 Years upto 11.02.2036


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	Mining Plan Period	:	5 Years		
	Mining Plan Details	:	As per approved scheme of mining plan		
12.	Geological Resources m ³ (RoM)	:	ROM (m ³)	Multi Colour Granite Recovery 40% (m ³)	Granite Waste Reject 60% (m ³)
			441041m ³	176416m ³	264625m ³
	Mineable Resources m ³ (RoM)	:	ROM (m ³)	Multi Colour Granite Recovery 40% (m ³)	Granite Waste Reject 60% (m ³)
			75615m ³	30246m ³	45369m ³
	Annual Peak Production in m ³	:	ROM (m ³)	Multi Colour Granite Recovery 40% (m ³)	Granite Waste Reject 60% (m ³)
15180m ³			6072m ³	9108m ³	
	Ultimate Depth in meters	:	33m		
13.	Depth of water table	:	54m BGL		
14.	Man Power requirement per day:	:	32Nos.		
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	2.1KLD 0.6KLD 0.8 KLD 0.7 KLD		
16.	Power requirement	:	TNEB		
17.	Approved Mining Lease by Industries Department, with date.	:	G.O(3D) No.22, Industries (MME.2) Department, dated: 12.02.2016		
18.	Approved Mining Plan by Commissioner, Commissionerate Department of Geology and Mining with date	:	Rc.No.3107/MM2/2021, dt: 02.09.2022		


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19.	500m Cluster Letter by Assistant Director, Department of G&M, Pudukkottai District.		Rc.No.337/2020 (G&M), dt: 02.02.2023			
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dt:08.09.2022			
21.	Project Cost (excluding EMP cost)	:	Rs.219.57 Lakh			
22.	EC Recommendation		1st Five Years as per approved mining plan			
		:		ROM (m ³)	Multi Colour Granite Recovery 40% (m ³)	Granite Waste Reject 60% (m ³)
		:	Max Total RoM in m ³	15180m ³	6072 m ³	9108m ³
		:	Annual Max RoM in m ³	3060m ³	1224 m ³	1836m ³
		:	Max Depth in mtrs	28 m		
23.	EMP cost (in Rs. Lakh).	:	Rs. 269 Lakhs / 20 Years including capital & recurring cost with 5% inflation cost anticipated every year.			
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs			

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of ROM of not exceeding 3060m³ by maintaining the ultimate pit depth of 28m BGL subject to the standard conditions as per the


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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) 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 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


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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 install the Environmental Management Cell headed by the statutory (I/II Class) Mines Manager of the concerned mine and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
- 10) The PP shall 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.
- 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 PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 13) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 14) 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.
- 15) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.


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- 16) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 17) 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.
- 18) 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.
- 19) 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.
- 20) 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.
- 21) 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.
- 22) **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


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

- 23) The Project Proponent shall carry out the scientific studies to assess the slope stability of the quarry wall of the existing quarry during the fourth year of mining operations for determining the safe slope angle and determining stability measures, by involving any one of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, IIT-Madras, NIRM-Bangaluru, NIT Surathkal – Dept of Mining Engg, Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
- 24) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 25) The PP shall install the Environmental Management Cell headed by the statutory (I/II Class) Mines Manager of the concerned mine 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.
- 26) 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.
- 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.


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- 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.
- 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.


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- 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.
- 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 lakhs and the amount shall be spent for the Government High School, Mathiyallur, Pudukkottai District before obtaining CTO from TNPCB.


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Agenda No: 384 – 13

(File No: 9966/2023)

Existing Grey Granite Quarry lease over an extent of 3.02.0Ha S.F.No.405/1B1A2 (Part) & 405/1B2, Chendarapally Village, Bargur Taluk, Krishnagiri District by Thiru.B.S.Ravi – For Extension of validity of Environmental Clearance (Form -6). (SIA/TN/MIN/299197/2023, dt: 04.04.2023)

The proposal was placed in the 384th SEAC meeting held on 16.06.2023.


The details of the proposed project are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. Earlier, the project proponent, Thiru.B.S.Ravi has obtained EC from DEIAA-TN, vide Lr.No.19/DEIAA-KGI/EC No.15/2018, dated: 27.02.2018 for the Existing Grey Granite Quarry lease over an extent of 3.02.0Ha S.F.No.405/1B1A2 (Part) & 405/1B2, Chendarapally Village, Bargur Taluk, Krishnagiri District, Tamil Nadu and for a approved depth of 17.5 m & Quantity of 11365 m³ of Grey Granite for a period of 5 Years. .
2. The project proponent, Thiru.B.S.Ravi has applied for Extension of validity of Environmental Clearance (Form -6) for the Existing Grey Granite Quarry lease over an extent of 3.02.0Ha S.F.No.405/1B1A2 (Part) & 405/1B2, Chendarapally Village, Bargur Taluk, Krishnagiri District, Tamil Nadu.
3. MoEF&CC OM F.No.1A3-22/28/2022-1A.111 Dt: 13.12.2022.
4. MoEF&CC vide OM F.No.1A3-22/11/2023-1A.111 (E208230) Dt: 28.04.2023.

Based on the presentation and documents furnished by the project proponent. SEAC noted that the PP has obtained EC from DEIAA-TN, vide Lr.No.19/DEIAA-KGI/EC No.15/2018, dated: 27.02.2018 valid upto 26.02.2024 as per MoEF&CC Notification vide S.O. 221(E) & Dt:18.01.2021. Hence, this proposal seeking automatic extension of validity of EC cannot be considered as per MoEF&CC OM F.No.1A3-22/28/2022-1A.111 Dt: 13.12.2022.

Further, EC was obtained from DEIAA-TN, vide Lr.No.19/DEIAA-KGI/EC No.15/2018, dated: 27.02.2018. Hence, as per MoEF&CC vide OM F.No.1A3-22/11/2023-1A.111 (E208230) Dt: 28.04.2023 all valid ECs issued by DEIAA shall be reappraised through SEIAA/SEAC in compliance to the order of the Hon'ble NGT in O.A 142 of 2022.


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In view of the above, SEAC after detailed discussion decided that the project proponent shall apply for Fresh EC with mandatory documents and shall withdraw the application seeking Extension of validity of EC. Further, the proposal is not eligible for automatic extension of validity of EC as per MoEF&CC OM F.No.1A3-22/28/2022-1A.111 Dt: 13.12.2022 and MoEF&CC vide OM F.No.1A3-22/11/2023-1A.111 (E208230) Dt: 28.04.2023.

Agenda No. 384-14

(File No.6596/2023)


Existing Lime Stone Quarry over an extent of 4.86.0 Ha at S.F.Nos. 437/1 of Vickramasingapuram Village, Ambasamudram Taluk, Tirunelveli District, Tamil Nadu by Thiru. B. Sundaram – For Environmental Clearance under violation category (SIA/TN/MIN/423960/2020 dated:29.03.2023).

The proposal was placed in 384th Meeting of SEAC held on 16.06.2023. 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 Proponent, Thiru. B. Sundaram, has applied for Environmental Clearance under Violation for the Existing Lime Stone Quarry over an extent of 4.86.0 Ha at S.F. Nos. 437/1 of Vickramasingapuram Village, Ambasamudram Taluk, Tirunelveli District, Tamil Nadu.
2. The project/activity is covered under Category “B1” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.
3. ToR issued vide Lr.No.SEIAA-TN/F.No.6596/ToR-475/2018, dated: 07.06.2018 under violation Category.
4. ToR Amendment issued vide Lr.No.SEIAA-TN/F.No.6596/SEAC- CXVIII/TOR-475(A)/2018 Dt.30.07.2018. Public Hearing is mandatory.
5. ToR Extension under violation issued vide Lr. No.SEIAA-TN/F.No.6596/ToR-475/Ext/ dated:26.09.2022.
6. EIA Report Submitted on 31.03.2023

Based on the presentation made by the proponent SEAC decided to obtain the following details from the PP,


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1. Since the Kalakad-Mundanthurai Tiger Reserve (KMTR) is located within 10km & its ESZ is yet to be notified, hence the PP shall obtain and submit NBWL Clearance.
2. The PP shall furnish 3rd scheme of mining plan and approval letter obtained from Competent Authority.
3. The PP shall furnish a letter from AD/DD Mines stating that details of quarries located within 500m radius as per the prescribed format.

On receipt of the same, the subject will be taken up for further deliberation and to decide on future course of action.

Agenda No: 384-15

(File No: 9918/2023)

Proposed Multi Colour Granite Quarry over an extent of 1.93.0Ha at S.F.No. 1320/1A, 1320/1B1, 1320/1B2, 1322/1A, 1322/1C, 1322/1B, 1325/3A, 1325/3B, 1325/2B4, 1325/2B5 & 1325/2B6 of Thiruthangal Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by Tvl. Stanco Traders-For Environmental Clearance. (SIA/TN/MIN/424931/2023, 06.04.2023).

The proposal was placed in this 384th Meeting of SEAC held on 16.06.2023. 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. Stanco Traders has applied for Environmental Clearance for the Proposed Multi colour Granite Quarry over an extent of 1.93.0Ha at S.F.No. 1320/1A, 1320/1B1, 1320/1B2, 1322/1A, 1322/1C, 1322/1B, 1325/3A, 1325/3B, 1325/2B4, 1325/2B5 & 1325/2B6 of Thiruthangal Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Mining Lease was executed on 13.03.2006 for a period of 20 years till 12.03.2026.
4. Earlier, EC was accorded to the project proponent vide Lr.No.SEIAA-TN/F.No.4888/EC/1(a)/2902/2016 dated.17.02.2016 for a quantity of 2250m³ of multi-colour granite up to a depth of 45m with a maximum


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validity of 5 years.

5. CCR From MoEF&CC, IRO (SZ) vide E.P/12.1/2023-24/SEIAA/06/TN/563 Dt:09.05.2023.
6. Now, the proponent has submitted an application seeking Environmental Clearance for the 3rd scheme of mining (2021-22 to 2025-26) for the production of 20182m³ of multi-colour granite for an ultimate depth of 103m Below ground level.

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

- i) From the presentation made by the PP, it was informed that the amalgamation permission has been obtained from the Director of Mines Safety, DGMS, Chennai Region for combining the five leases under Reg. 111(1) of the MMR 1961 which means that the mine boundary is changed. The PP is requested to provide the total extent and quantity of combined/amalgamated area of five leases with specifying each G.O wise.
- ii) From the presentation made by the PP, it has been observed that amalgamation permission has been obtained from the Director of Mines Safety, DGMS, Chennai Region for combining the five leases under Reg. 111(1) of the MMR 1961 vide Lr. No. CSZ/CNR/Granite/Perm-111(1)/32/2016/479, dated. 28.03.2017 & Lr. No. CSZ/CNR/Granite/Perm-111(1)/33/2016/484, dated. 28.03.2017. The PP shall indicate whether the permission was obtained from the Directorate of Geology and Mining to carry out the quarrying operations in a single lease as per the permission granted by the DMS, DGMS/Chennai Region from 2017 and the PP shall provide the documentary proof for the amalgamation permission obtained from the Directorate of Geology and Mining and the validity of lease period.
- iii) The PP shall provide the details on the proposal given in the Second Scheme of Mining (i.e., 2013 to 2018) for which the prior EC was granted by the SEIAA and also to specify the achieved quantity against the proposed quantity.


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- iv) Based on the approved scheme of mining submitted by the proponent in Parivesh Portal, it is ascertained that the proponent has achieved a depth of 47m during the earlier EC period (2016-2021) against the approved depth of 45m. Hence, the proponent shall furnish an explanation for exceeding the approved depth and the ambiguity in the existing pit depth. The PP shall provide the details of any permission obtained in the form of Modified Mining Plan approved by the competent authority for carrying out the quarrying operations for a depth of 47 m under the provisions of Granite Conservation & Development Rules, 1999 and the Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016.
- v) As per the scheme of mining approval letter issued vide Rc.No.3687/MM2/2022 Dated: 10.02.2023, it is ascertained that

"...The Lessee has an undertaking vide Sworn affidavit dated 08.02.2023 to the effect that he shall abide by the final orders of the Hon'ble Madurai Bench of Madras High Court in W.P.No. W.P.No.10242/2020 regarding the compensation for E.C. Violation"

Hence, the proponent shall furnish complete details regarding the pending court case at Madurai bench of Madras High Court.

- vi) Further, during the presentation, proponent disclosed that AD/Mines levied penalty for excess quantity mined. Hence, the proponent shall submit the details regarding the quantity for which penalty was levied.
- vii) The PP shall exhibit the technical justifications for proposing the depth of existing quarry to 103 m with maintaining the stability of the quarry wall in a safe manner.
- viii) The PP shall withdraw any duplicate files if already made with the SEIAA.
- ix) The PP shall disclose the details pertaining to the legal cases pending against the proposal if any.

After receipt of the above particulars, further deliberations will be done.


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Agenda No: 384-16

(File No: 9939/2023)

Proposed Multi-Colour Granite mining lease over an extent of 2.34.30 Ha at S.F.Nos. 1123/4A, 1123/4B, 1123/5A, 1123/5B, 1123/6A, 1123/6B, 1125/6 & 1123/8(P) of Irudukottai Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by M/s. K.P.R Granites -For Environmental Clearance. (SIA/TN/MIN/423041/2023, 22.03.2023).

The proposal was placed in this 384th Meeting of SEAC held on 16.06.2023. 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, M/s. K.P.R Granites has applied for Environmental Clearance for the Proposed Multi-Colour Granite mining lease over an extent of 2.34.30 Ha at S.F.Nos. 1123/4A, 1123/4B, 1123/5A, 1123/5B, 1123/6A, 1123/6B, 1125/6 & 1123/8(P) of Irudukottai 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. As per the mining plan the lease period is 20 years. The mining plan is for the period of five years & production should not exceed 63,050m³ of RoM and 22,068m³ of Multi Colour Granite @35% recovery and 40,983m³ of Granite waste @65% with an ultimate depth of mining 30m Below ground level.
4. The salient features of the project as follows

File No	9939	Category	B2
	423041/2023, 22.03.2023		1(a)
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	M/s. K.P.R Granites, No.2/223, Avvai Nagar, Noolahalli-Post, Pennagaram Taluk, Dharmapuri District, Pin-636 813.



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2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Multi Colour Granite Quarry
3.	S.F Nos. of the quarry site with area break-up	:	1123/4A, 1123/4B, 1123/5A, 1123/5B, 1123/6A, 1123/6B, 1125/6 & 1123/8(P)
4.	Village in which situated	:	Irudukottai
5.	Taluk in which situated	:	Denkanikottai
6.	District in which situated	:	Krishnagiri
7.	Extent of quarry (in ha.)	:	2.34.30Ha
8.	Latitude & Longitude of all corners of the quarry site	:	12°25'49.74254"N to 12° 25'57.76416"N 77° 50' 0.93213"E to 77°50' 8.43377"E
9.	Topo Sheet No.	:	57 H /15
10.	Type of mining	:	Open Cast mechanized mining
11.	Life of Project	:	20 years
	Lease Period	:	20 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan Multi-Colour Granite
	Geological Resources m ³ (RoM)	:	RoM-11,34,884m ³ , Recoverable Reserves @ 35% -3,72,553m ³ , Granite waste @65%- 6,91,885m ³
	Mineable Resources m ³ (RoM)	:	RoM-3,63,151m ³ , Recoverable Reserves @ 35% -1,09,004m ³ , Granite waste @ 65%- 2,02,436m ³
	Annual Peak Production in m ³	:	ROM - 29550 m ³
	Ultimate Depth in meters	:	30m BGL
13.	Depth of water table	:	65m Rainy Season-70m Summer Season
14.	Man Power requirement per day:	:	27 Nos.


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15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	3.3 KLD 1.3KLD 1.0 KLD 1.0 KLD	
16.	Power requirement	:	TNEB	
17.	Precise area communication approved by Additional Chief Secretary to Government, Industries, Investment Promotion & Commerce (MME.2) Department.	:	Letter No.2665/MME.2/2022-1, Dated: 18.11.2022	
18.	Mining Plan approved by Commissioner, Department of G&M.	:	Rc.No.72/MM4/2022, Dated: 10.03.2023	
19.	Department of G&M, Deputy Director. 500m Cluster Letter	:	Roc.No.985/2019/Mines dated 21.03.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 17.03.2023	
21.	Project Cost (excluding EMP cost)	:	Rs.1,01,52,500/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits. Multi-Colour Granite
		:	Max Total Excavation RoM in m ³	RoM-63,050m ³ , Recoverable Reserves @ 35% -22,068m ³ , Granite waste @ 65%- 40,983m ³
		:	Annual Peak Capacity RoM in m ³	RoM-13125m ³ , Recoverable Reserves @ 35%-4594 m ³
		:	Max Depth in mtrs	30m BGL


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23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.92,99,776/- Recurring cost/annum – Rs. 12,55,316 /-
24.	CER cost (in Rs. Lakh).	:	Rs. 7,40,000 /- 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 annual peak production capacity of not exceeding 13125m³ of ROM by restricting the ultimate depth of mining up to 30m BGL considering the safety aspects as agreed by the PP & QP, 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 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.
3. 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).
4. The proponent shall mandatorily appoint the statutory Mines Manager & other statutory competent persons and the Geologist in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Granite Conservation & Development Rules, 1999 respectively before obtaining the CTO.
5. 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.


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6. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
7. Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Hosur or Salem.
8. The PP shall extract the dimensional stone blocks through non-explosive techniques such that the surrounding structures are not impacted.
9. 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.
10. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
11. 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.
12. The PP shall ensure that the Diamond Wire Saw Machine Operators/Technicians shall be adequately trained in safe operation/proper maintenance of Machine and the rope.
13. In the interest of safety, the PP of the planned quarry where the Diamond Wire Saw Machines are proposed and OEM of such machines are advised to comply with the safety provisions as given in DGMS (Tech) Circular No. 02 of 2019 so that accidents are mitigated adequately.
14. The PP shall conduct a Slope Stability study after a period of three years from the commencement of quarrying operation through any one of these reputed scientific institutions such as Central Mining & Fuel Research Institute/Dhanbad.


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NIRM/Bengaluru, IIT(ISM)/Dhanbad, IIT/Madras, NITK Surathkal-Dept of Mining Engg, Anna University Chennai – CEG Campus and any other CSIR labs, to study the efficacy of the slope stability of highwall in the proposed quarry for the safe operation.

15. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
16. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
17. 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.
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.
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.
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, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
22. 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.

23. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
24. 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.
25. 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.
26. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted.
27. 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.
28. 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.
29. 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) by the proponent without fail.
30. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will


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

31. 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.
32. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under.
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 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. 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.
35. 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.
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 EMP furnished.
37. As accepted by the Project proponent the CER cost is Rs. 5.4 lakhs and the amount shall be spent for Government High School, Sandanappalli Village as committed, before obtaining CTO from TNPCB.

S.No	Description	CER Cost INR
1.	Painting for Buildings	50,000/-
2.	Incinerator	10,000/-


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3.	Plantation for school Ground	30,000/-
4.	Toilet renovation & maintenance	3,00,000/-
5.	Compound wall	1,00,000/-
	Total	5,40,000/-

38. In addition to the above, the PP shall remit Rs. 2.0 lakhs to DFO of concerned District as Conservation/mitigation measures for the Cauvery North WLS since the site is within 10km radius.

Agenda No: 384 - 17

(File No: 9919/2023)

Existing Multi Colour Granite lease over an extent of 3.29.0 Ha at S.F.No. 1320 /2A, 1323/1B1, 1323/1B2, 1325/4B, 1325/5A1, 1325/5A2, 1325/5A3, 1325/5A4, 1325/5A5, 1325/5A6, 1325/5B1 & 1325/5B2, in Thiruthangal Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by Tvl.Standard Granites, - For Environment Clearance (SIA/TN/MIN/424980/2023 dated 06.04.2023)

The proposal was placed in this 384th meeting of SEAC held on 16.06.2023. The Project Proponent gave a detailed presentation on 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, Tvl.Standard Granites has applied seeking Environment Clearance for the existing Multi Colour Granite lease over an extent of 3.29.0 Ha at S.F.No. 1320 /2A, 1323/1B1, 1323/1B2, 1325/4B, 1325/5A1, 1325/5A2, 1325/5A3, 1325/5A4, 1325/5A5, 1325/5A6, 1325/5B1 & 1325/5B2, in Thiruthangal Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006., as amended.
3. EC Lr. No. SEIAA-TN/F.No.4656/EC/1(a)/2907/2016 dated 17.02.2016

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

- i) From the presentation made by the PP, it was informed that the amalgamation permission has been obtained from the Director of Mines Safety, DGMS, Chennai Region for combining the five leases under Reg. 111(1)



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of the MMR 1961 which means that the mine boundary is changed. The PP is requested to provide the total extent and quantity of combined/amalgamated area of five leases with specifying each G.O wise.

- ii) From the presentation made by the PP, it has been observed that amalgamation permission has been obtained from the Director of Mines Safety, DGMS, Chennai Region for combining the five leases under Reg. 111(1) of the MMR 1961 vide Lr. No. CSZ/CNR/Granite/Perm-111(1)/32/2016/479, dated. 28.03.2017 & Lr. No. CSZ/CNR/Granite/Perm-111(1)/33/2016/484, dated. 28.03.2017. The PP shall indicate whether the permission was obtained from the Directorate of Geology and Mining to carry out the quarrying operations in a single lease as per the permission granted by the DMS, DGMS/Chennai Region from 2017 and the PP shall provide the documentary proof for the amalgamation permission obtained from the Directorate of Geology and Mining and the validity of lease period.
- iii) The PP shall provide the details on the proposal given in the Second Scheme of Mining (i.e., 2013 to 2018) for which the prior EC was granted by the SEIAA and also to specify the achieved quantity against the proposed quantity.
- iv) Based on the approved scheme of mining submitted by the proponent in Parivesh Portal, it is ascertained that the proponent has achieved a depth of 75m during the earlier EC period (2016-2021) against the approved depth of 35m. Hence, the proponent shall furnish an explanation for exceeding the approved depth and the ambiguity in the existing pit depth. The PP shall provide the details of any permission obtained in the form of Modified Mining Plan approved by the competent authority for carrying out the quarrying operations for a depth of 75 m under the provisions of Granite Conservation & Development Rules, 1999 and the Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016.
- v) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project shall be furnished.


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- vi) Further, during the presentation, proponent disclosed that AD/Mines levied penalty for excess quantity mined. Hence, the proponent shall submit the details regarding the quantity for which penalty was levied.
- vii) The PP shall exhibit the technical justifications for proposing the depth of existing quarry to 75 m with maintaining the stability of the quarry wall in a safe manner.
- viii) The PP shall withdraw any duplicate files if already made with the SEIAA.
- ix) The PP shall disclose the details pertaining to the legal cases pending against the proposal if any.

After receipt of the above particulars, further deliberations will be done.

Agenda No: 384 - 18

(File No: 9933/2023)

Proposed Grey Granite Quarry lease over an extent of 2.17.5Ha at S.F.No. 261/3, 261/5, 261/10B, 261/16A, 261/16B, 261/16D & 261/16E1A, in Sulamalai Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Thiru.M.Ajithkumar, - For Environment Clearance (SIA/TN/MIN/422472/ 2023 dated 17.03.2023)

The proposal was placed in this 384th meeting of SEAC held on 16.06.2023. The Project Proponent gave a detailed presentation on 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.M.Ajithkumar has applied seeking Environment Clearance for the proposed Grey Granite Quarry lease over an extent of 2.17.5Ha at S.F.No. 261/3, 261/5, 261/10B, 261/16A, 261/16B, 261/16D & 261/16E1A, in Sulamalai Village, Bargur Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.

File No	9933	Category	B2
Sl. No	Salient Features of the Proposal		


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1.	Name of the Owner/Firm	:	Thiru.M.Ajithkumar, S/o. Michael, No.4635, Moorthi Nagar West, Kalaiyar Kovil, Sivagangai District - 630 551	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Grey Granite	
3.	S.F Nos. of the quarry site with area break-up	:	S.F.NoS.261/3, 261/5, 261/10B, 261/16A, 261/16B, 261/16D & 261/16E1A	
4.	Village in which situated	:	Sulamalai Village.	
5.	Taluk in which situated	:	Bargur Taluk.	
6.	District in which situated	:	Krishnagiri District	
7.	Extent of quarry (in ha.)	:	2.17.5 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12° 30' 23.5763"N to 12° 30' 18.9740"N 78° 17' 14.1837"E to 78° 17' 09.7887"E	
9.	Topo Sheet No.	:	57-L/7	
10.	Type of mining	:	Open cast mechanized mining	
11.	Life of Project	:	20 years	
	Lease Period	:	20 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	562425	-
	Minable Resources m ³ (RoM)	:	165650	-
	Annual Peak Production in m ³	:	5850	-
	Ultimate Depth in meters	:	28m BGL	
13.	Depth of water table	:	54-62m	
14.	Man Power requirement per day:	:	18 Nos.	


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15.	Water requirement: 1. Domestic and Drinking water 2. Dust suppression 3. Green belt	:	2.0 kLD 1.0 kLD 0.50 kLD 0.50 kLD
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 No.3588105/MME.2/2022-1, Dated:27.01.2023
18.	Mining Plan approved by Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining	:	Rc.No.6161/MM4/2022 Dated:24.02.2023
19.	Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining 500m Cluster Letter	:	Rc.No.557/2022/Mines, Dated:01.03.2023
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 01.03.2023
21.	Project Cost (excluding EMP cost)	:	Rs.1,26,34,000/-
22.	EC Recommendation	:	Validity 30 years subject to the following upper limits.
		:	Max Total RoM in m ³ 42250
		:	Annual Max RoM in m ³ 9000
		:	Ultimate Pit Depth in mtrs 28m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 16,05,250/- Recurring cost/Annum – Rs. 11,28,100 /- +5% inflation cost every year
24.	CER cost (in Rs. Lakh).	:	Rs.5,00,000 /- as accepted by the PP


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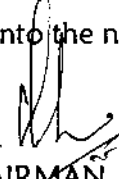
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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 9000 m³ of RoM by maintaining the ultimate pit depth of 28 m 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) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Hosur or Salem.
- 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


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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.
- 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.


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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.
- 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 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 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.
- 22) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 23) 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.

- 24) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 25) 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.
- 26) 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.
- 27) 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.
- 28) 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.
- 29) 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.
- 30) 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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- 31) 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.
- 32) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 33) 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.
- 34) 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.
- 35) 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.
- 36) 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: 384 - 19

(File No: 9947/2023)

Existing Devarmalai Limestone Mine over an area of 166.535Ha in Devarmalai and Melapagudi villages, Kulilthala Taluk, Karur District, Tamil Nadu by M/s. Chettinad Cement Corporation Private Limited- Extension of validity of Environmental Clearance (SIA/TN/MIN/414400/2023 dated 18.03.2023)


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The proposal was placed in this 384th meeting of SEAC held on 16.06.2023. The Committee noted that the Project Proponent vide letter dated 15.06.2023 has reported the following:

We, Chettinad Cement Corporation Private Limited were granted environmental clearance for our Devarmalai Limestone Mine over an area of 166.535Ha for producing 8.0 lakh TPA of limestone in Devarmalai and Melapagudi villages, Kulilthalai Taluk, Karur District, Tamil Nadu J-11015/414/2006-IA.II(M) dated 12.09.2007.

At the time of grant of EC, Reserves in approved mining plan was 12.653 Million Tons based on which, the life of mine is mentioned in preamble of EC as 16 years as per then approved Mining Plan (Based on the exploration level carried out as on 2007 & 0.8 Million Tons per annum production level).

Subsequent to the approved mining plan obtained in 2007, we had carried out Exploration and UNFC reserves increased from 12.653 Million Tons to 47.66 Million Tons. Hence our Mine life based on approved mining plan is around 59.5 years. As per the MOEFCC notification dt 12. Apr 2022 "The prior Environmental Clearance granted for mining projects shall be valid for the project life as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier"

With reference to above notification, our current EC is valid for 30 years i.e., from 12.09.2007 to 11.09.2037 based on the mine life calculated as per reserves proved in the current approved mining plan. As such, we requested for amendment of mine life mentioned in the existing EC and Validity of the EC upto 11.09.2037.

But our Current Approved Mining plan period is valid upto March 2024. We are in the process of obtaining approval for review the Mining plan for a further period of five year i.e., upto March 2029. We are in the application stage. Hence we would like to reapply later after obtaining approval of Review of Mining plan for the period upto March 2029.

In the view of above, we would like to withdraw the application (Proposal No: SIA/TN/MIN/414400/2023, SEIAA File No 9947). Based on the above, we would like to intimate that we are not attending the scheduled SEAC appraisal of the above said proposal planned on 16.06.2023 Sl. No 19.

Kindly consider the above request and consider our withdrawal proposal and return our application.


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The Committee, therefore, decided to defer the proposal to allow SEIAA to consider the withdrawal request of the Project Proponent.

Agenda No: 384 - 20

(File No: 9961/2023)

Proposed Grey Granite Quarry lease over an extent of 1.42.0 Ha at S.F.No45/2E in Allerahalli Village & 754/1A (P), in Kadappasandampatti Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu by Thiru. M.Jayapal, - For Environment Clearance (SIA/TN/MIN/424417/2023 dated 01.04.2023)

The proposal was placed in this 384th meeting of SEAC held on 16.06.2023. The Project Proponent gave a detailed presentation on 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. M.Jayapal has applied for Environment Clearance for the the Proposed Grey Granite Quarry lease over an extent of 1.42.0 Ha at S.F.No45/2E in Kadappasandampatti Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006 as amended.

File No	9961	Category	B2
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. M.Jayapal, S/o.Mologugoundar, No.2/52, Echankadu Village, Mathur Post. Pochampalli Taluk, Krishnagiri District. Tamil Nadu-635203
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Grey Granite
3.	S.F Nos. of the quarry site with area break-up	:	45/2E & 754/1A (P)


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4.	Village in which situated	:	Allerahalli & Kadappasandampatti Villages	
5.	Taluk in which situated	:	Pochampalli Taluk.	
6.	District in which situated	:	Krishnagiri District	
7.	Extent of quarry (in ha.)	:	1.42.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°22'56.0101"N to 12°22'51.9892"N 78°23'9.5701"E to 78°23'4.3926"E	
9.	Topo Sheet No.	:	57 L/7	
10.	Type of mining	:	Open cast semi-mechanized mining	
11.	Life of mine	:	37 years	
	Lease Period	:	20 years	
	Mining Plan Period	:	2 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m ³ (RoM)	:	460255 m ³	-
	Minable Resources m ³ (RoM)	:	260639 m ³	-
	Annual Peak Production in m ³	:	2280 m ³	-
	Ultimate Depth in meters	:	26m BGL	
13.	Depth of water table	:	50-55m	
14.	Man Power requirement per day:	:	21 Nos.	
15.	Water requirement:	:	2.9 kLD	
	1. Domestic and Drinking water	:	0.9 KLD	
	2. Utilized water	:	1.0 KLD	
	3. Dust suppression & Green belt	:	1.0 KLD	
16.	Power requirement	:	TNEB litres of HSD will be utilized	
17.	Precise area communication approved by the Assistant Geologist, Assistant	:	Letter G.O.3(D). No.88 Industries (MME-2) Department. Dated:12.02.2007	


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	Director(i/c), Dept. of Geology & Mining		
18.	Mining Plan approved by Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining	:	Rc.No.2136/MM4/2023 Dated:30.03.2023
19.	Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining 500m Cluster Letter		Rc.No.1820/2022/Mines, Dated:16.12.2022
20.	VAO Certificate Regarding Structures within 300m Radius		Letter Dated: Nil
21.	Project Cost (excluding EMP cost)	:	Rs.1,40,90,000/-
22.	EC Recommendation	:	Validity 30 years subject to the following upper limits.
		:	Max Total RoM in m ³ 14820
		:	Annual Max RoM in m ³ 2280
		:	Ultimate Depth in m 26 m
23.	Total EMP cost (in Rs. Lakh).	:	Rs.49,71,307/-
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 the annual peak production of not exceeding 2280 m³ of RoM by maintaining the ultimate pit depth of 26 m 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


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

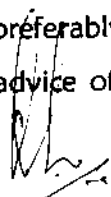
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, 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 a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Hosur or Salem.
- 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 TNPCCB 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 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 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.
- 22) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 23) 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.
- 24) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 25) 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


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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.

- 26) 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.
- 27) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitats.
- 28) 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.
- 29) 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.
- 30) 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.
- 31) 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.
- 32) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and


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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.

33)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.

34)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.

35)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.

36)As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the committed activities in Village Government School before obtaining CTO from TNPCB.

Agenda No: 384 - 21

(File No: 9989/2023)

Existing Black Granite (Dolerite) Quarry lease over an extent of 2.44.0Ha at S.F.No. 31/7B, 32/1, 32/3, 32/4, 32/5A1, 32/8A, 32/10 and 34/6 in Eeriyur Village, Chinnasalem(formerly Kallakurichi) Taluk, Kallakurichi District, Tamil Nadu by Thiru.M. Ramasamy, - For Environment Clearance (SIA/TN/MIN/424417/2023 dated 15.04.2023)

The proposal was placed in this 384th meeting of SEAC held on 16.06.2023. The Project Proponent gave a detailed presentation on 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.M. Ramasamy has applied for Environment Clearance for the existing Black Granite (Dolerite) Quarry lease over an extent of


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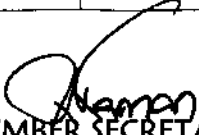

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2.44.0Ha at S.F.No. 31/7B, 32/1, 32/3, 32/4, 32/5A1, 32/8A, 32/10 and 34/6 in Eeriyur Village, Chinnasalem(formerly Kallakurichi) Taluk, Kallakurichi District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.

3. EC Lr. No. SEIAA-TN/F.No.4013/EC/1(a)/2726/2015 dated 11.01.2016

File No	9989	Category	B2
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. M. Ramasamy, S/o. Thiru. Muthugounder, No.912, Muthugounder Colony, Harur, Dharmapuri District, Tamil Nadu-636903
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Black Granite (Dolerite)
3.	S.F Nos. of the quarry site with area break-up	:	S.F.No. 31/7B, 32/1, 32/3, 32/4, 32/5A1, 32/8A, 32/10 and 34/6
4.	Village in which situated	:	Eeriyur Village,
5.	Taluk in which situated	:	Chinnasalem(formerly Kallakurichi) Taluk,
6.	District in which situated	:	Kallakurichi District
7.	Extent of quarry (in ha.)	:	2.44.0Ha
8.	Latitude & Longitude of all corners of the quarry site	:	11°36'49.93"N to 12°36'57.03"N 78°58'45.50"E to 78°58'52.15"E
9.	Topo Sheet No.	:	58-I/14
10.	Type of mining	:	Open cast mechanized mining
11.	Life of Project	:	17 years


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	Lease Period	:	20 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m ³ (RoM)	:	8,05,076 m ³
	Minable Resources m ³ (RoM)	:	3,56,079 m ³
	Annual Peak Production in m ³	:	24,366 m ³
	Ultimate Depth in meters	:	44m BGL
13.	Depth of water table	:	57-62m
14.	Man Power requirement per day:	:	32 Nos.
15.	Water requirement:	:	1.6 KLD
	1. Domestic and Drinking water	:	0.4 KLD
	2. Dust suppression	:	0.7 KLD
	3. Green belt	:	0.5 KLD
16.	Power requirement	:	TNEB liters of HSD will be utilized
17.	Precise area communication approved by the Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining	:	Letter G.O.(3D). No.15. Industries (MME-1) Department, Dated:19.03.2008
18.	Mining Plan approved by Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining	:	3 rd Scheme of Mining: Rc.No.1510/MM4/2023 Dated:10.03.2023


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19.	Assistant Geologist , Assistant Director(i/c), Dept. of Geology & Mining 500m Cluster Letter		Rc.No.B/G&M/628/2013/Mines, Dated:13.03.2023	
20.	VAO Certificate Regarding Structures within 300m Radius		Letter Dated: 13.04.2023	
21.	Project Cost (excluding EMP cost)	:	Rs.1,40,90,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:	Max Total RoM in m ³	1,04,507
		:	Annual Max RoM in m ³	24,366
		:	Ultimate Depth in mtrs	44 m
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.32,68,800/- Recurring cost/Annum-Rs. 11,78,380 /-	
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 the annual peak production capacity of not exceeding 24,366m³ of RoM by maintaining the ultimate pit depth of 44m 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.


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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) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Hosur or Salem.
- 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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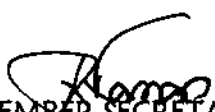
- 11) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12) The Project Proponent shall send a copy of the EC to the 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 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 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.
- 21) As the ultimate depth in this case exceeded 40m, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 22) 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.
- 23) 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.


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- 24) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 25) 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.
- 26) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 27) 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.
- 28) 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.
- 29) 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.
- 30) 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.
- 31) 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


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Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.

- 32) 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.
- 33) 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.
- 34) 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.
- 35) 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.
- 36) 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.
- 37) 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.


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38)As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the committed activities in the Village Government School before obtaining CTO from TNPCB.

Agenda No: 384-22

(File No: 10091/2023)

Existing Rough Stone and Gravel quarry lease area over an extent of 2.63.0 Ha at S.F.No. 202/1 (P) & 202/2 (P) of Ekkattampalayam Village, Perundurai Taluk, Erode District, Tamil Nadu by Thiru. P. Mahendran - For Environmental Clearance.

(SIA/TN/MIN/430225/2023, Dated: 22.05.2023)

The proposal was placed for appraisal in this 384th meeting of SEAC held on 16.06.2023. 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. Mahendran has applied for Environmental Clearance for the existing Rough Stone and Gravel quarry lease area over an extent of 2.63.0 Ha at S.F.No. 202/1 (P) & 202/2 (P) of Ekkattampalayam Village, Perundurai Taluk, Erode District, Tamil Nadu.
2. Earlier, the Proponent, Thiru. P. Mahendran, has applied for Extension of validity of Environmental Clearance for the above said Rough Stone and Gravel Quarry, since earlier EC was issued DEIAA vide Lr. No. DEIAA-ERD/F.No.17505/2016/EC No. (1/17) Dated 27.06.2017.
3. The same was apprised in 369th SEAC Meeting held on 20.04.2023 and 378th SEAC meeting held on 11.05.2023. During the presentation, PP requested to defer the proposal. Hence, SEAC decided to defer the proposal.
4. As per the OM issued by MOEF&CC Dt. 28.4.2023, the PP has applied for EC for fresh appraisal.
5. 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.


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- a. From the KML it is seen that there are a numbers of existing pits located within 500m, but the same was not mentioned in AD 500m cluster letter. Hence, the PP shall furnish a fresh letter indicating the existence of expired/abandoned/existing/proposed quarries from the AD mines & Geology.
- b. PP shall furnish the details of fencing, green belt & garland drain with photo evidence.

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

Agenda No: 384-23

(File No: 10106/2023)

Existing Rough Stone and Gravel quarry lease area over an extent of 3.66.5 Ha at S.F.No. 35/1, 36/1A, 36/1B, 36/1C, 36/1D, 36/2, 38/2 and 38/3B of Poonthandalam Village, Kundrathur Taluk, Kancheepuram District, Tamil Nadu by M/s. Sai Jothi Quarry - For Environmental Clearance. (SIA/TN/MIN/430589/2023, Dated: 24.05.2023)

The proposal was placed for appraisal in this 384th meeting of SEAC held on 16.06.2023. 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, M/s. Sai Jothi Quarry has applied for Environmental Clearance for the existing Rough Stone and Gravel quarry lease area over an extent of 3.66.5 Ha at S.F.No. 35/1, 36/1A, 36/1B, 36/1C, 36/1D, 36/2, 38/2 and 38/3B of Poonthandalam Village, Kundrathur Taluk, Kancheepuram 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.

File No	10106 / 2023	Category	B2
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	M/s. Sai Jothi Quarry, Sai Prakash Leomuthu (Managing Partner), No.41, Madley Road, Thyagaraya Nagar, Chennai - 600 017.


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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	:	35/1, 36/1A, 36/1B, 36/1C, 36/1D, 36/2, 38/2 and 38/3B			
4.	Village in which situated	:	Poonthandalam			
5.	Taluk in which situated	:	Kundrathur			
6.	District in which situated	:	Kancheepuram			
7.	Extent of quarry (in ha.)	:	3.66.5			
8.	Latitude & Longitude of all corners of the quarry site	:	12°57'55.18"N to 12°58'05.99"N 80°04'05.49"E to 80°04'14.26"E			
9.	Topo Sheet No.	:	66-D/01			
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		As modified by SEAC	
	Geological Resources m ³ (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
			7,67,055 m ³	762 m ³	7,67,055 m ³	762 m ³
	Minable Resources m ³ (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
			1,49,054 m ³	-	1,49,054 m ³	-
	Annual Peak Production in m ³	:	Rough Stone	Gravel	Rough Stone	Gravel
34,125 m ³			-	34,125 m ³	-	
Ultimate Depth in meters	:	54m bgl		54m bgl		
13.	Depth of water table	:	60m-65m bgl			
14.	Man Power requirement per day:	:	20 Nos.			
15.	Water requirement:	:	2.5 KLD			
	1. Drinking water	:	1.0 KLD			
	2. Utilized water	:	-			
	3. Dust suppression	:	1.0 KLD			
	4. Green belt	:	0.5 KLD			

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16.	Power requirement	:	1,19,248 Liters of HSD			
17.	Precise area communication approved by Assistant Director (i/c), Department of G&M.	:	Na.Ka.No.264/Q2/2022, Dated: 27.01.2023			
18.	Mining Plan approved by Assistant Director (i/c), Department of G&M.	:	Rc.264/Q2/2022, Dated: 13.03.2023			
19.	Department of G&M, Assistant Director (i/c) 500m Cluster Letter	:	Rc.No.264/Q2/2022, Dated: 16.05.2023			
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter furnished			
21.	Project Cost (excluding EMP cost)	:	Rs. 8,75,42,000/-			
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.		
		:		Rough Stone	Gravel	
		:	Max Total RoM in m ³	1,49,054 m ³	-	
		:	Annual Max RoM in m ³	34,125 m ³	-	
:	Ultimate Depth in mtrs	54m bgl				
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 39,23,550/- Recurring Cost – Rs. 16,23,920/-			
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-			


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 total RoM quantity of 1,49,054 m³ to an ultimate depth of 54m BGL and the annual peak production shall not exceed 34,125 m³ of RoM 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) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry shall undergo initial/periodical training in the DGMS approved GVTC situated in Hosur or Trichy.
- 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.


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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.
- 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.


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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 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) Within a period one year from the commencement of quarrying operations, the PP shall carry out the scientific studies to optimize the controlled blast design parameters for controlling the blast-induced ground vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. 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.
- 22) 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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- 23) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 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) Within a period one year from the commencement of quarrying operations, the PP shall carry out the scientific studies to assess the slope stability of the benches and existing quarry wall, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. 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


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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 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



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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 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.


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Agenda No:- 384- TA-01

(File No: 6538/2018)

Existing Black Granite Quarry lease over an extent of 1.01.0 Ha at S.F.No.431/3, 431/4D5, 431/4D6, 431/4D8, 431/4D9, 431/4D10 & 431/4F, Agaram Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. P. Arunraja – for Environmental Clearance under violation category. (SIA/TN/MIN/413332/2023, Dt.07/01/2023)


Earlier, this proposal was placed in this 369th SEAC meeting held on 20.04.2023. The details of the project furnished by the proponent are available on the web portal (parivesh.nic.in). The project proponent gave a detailed presentation.

The SEAC noted the following:


1. The Project Proponent, Thiru. P. Arunraja has applied for Environmental Clearance under violation category for the Existing Black Granite Quarry lease over an extent of 1.01.0 Ha at S.F.No.431/3, 431/4D5, 431/4D6, 431/4D8, 431/4D9, 431/4D10 & 431/4F, Agaram Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category “B1” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006.
3. ToR issued under violation category vide Lr No.SEIAA-TN/F.No.6538/TOR-501/2018, Dated : 21.06.2018.
4. As per the Hon`ble High Court of Madras order dated 13.10.2017 in W.P.No.11189 of 2017, amendment in the ToR was issued vide Letter No. SEIAA-TN/F – 6538/SEAC- CXVIII/TOR- 501(A)/2018 Dt. 30.07.2018.
5. The PP has furnished the EIA Report under violation

Based on the presentation made and documents furnished by the project proponent, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment whether it is being carried out in accordance with CPCB Guidelines, remediation plan, natural resource augmentation and community resource augmentation.

After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental


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Clearance under violation category. SEAC also decided to direct SEIAA-TN to initiate action to be taken for violation cases in accordance with law.


Based on that the following sub committee members Dr. M.R. Ramasubramaniyan & Dr. K.S. Kavi Kumar were inspected the site 20.05.2023 and the sub committee report is as follows.

1.0 Context and Chronology

- The lease for operating a black granite quarry located in S.F. No. 431/3, 431/4D5, 431/4D6, 431/4D8, 431/4D9, 431/4D10 & 431/4F in Agaram village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu was first given to Thiru R. Ranjith. The extent of quarry was 1.01.0 Ha Patta land.
- The lease was obtained under G.O. (3D). No. 3 Industries (MME.2) Department, dated 25.01.2008, and was for a period 20 years (28.02.2008 to 27.02.2028).
- The lease was subsequently transferred to Thiru P. Arunraja, vide G.O. (MS) No. 110, Industries (MME.2) Department, dated 19.05.2015
- After the scheme of mining expired on 27.02.2013, fresh mining scheme was prepared under the Rule 18 (3) of CCCR, 1999 for a period of 2013-2014 to 2017-2018.
- The first scheme of mining was prepared and submitted for the period 2013-14 to 2017-18; and the second scheme of mining has been prepared for the period 2018-19 to 2022-23.
- In view of statutory obligation, the project needs Environment Clearance from the District Level EIA Authority in view of extent less than 5Ha as per EIA (Environmental Impact Assessment) Notification, 2006 and its amendment notification S.O 141 (E) dated 15.01.2016 and it is classified under Category "B2".
- However, the quarry falls under violation category as the work continued after 15.01.2016 without Environmental Clearance as per the notification S.O. 804(E), dated 14-03-2017.
- Subsequently, the proponent applied for grant of Terms of Reference to SEIAA-TN vide online proposal number: SIA/TN/MIN/23318/2018.
- The proposal was placed before the State Expert Appraisal Committee in its 107th meeting held on 14.04.2018, and subsequently before the State Environment Impact Assessment Authority in its 319th meeting held on 21.06.2018.
- The proponent was issued ToR under violation category vide Letter No. SEIAA-TN/F.No.6538/TOR-501/2018, dated 21.06.2018. Further, amended ToR was issued vide Letter No. SEIAA-TN/F-6538/SEAC-CXVIII/TOR-501(A)/2018, dated 30.07.2018.


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- The proponent has furnished the EIA Report along with ecological damage assessment, remediation plan, natural resource augmentation plan, and community resource augmentation plan to SEIAA/SEAC.
- The proposal was appraised by SEAC in its 369th meeting held on 20.04.2023.
- The SEAC constituted a sub-committee comprising, Dr. M. R. Ramasubramanian and Dr. K.S. Kavi Kumar, to make site inspection and present the status of the project (and the environmental settings). The sub-committee was also requested to assess the ecological damage along with the remedial plan and augmentation plan submitted by the proponent.
- The sub-committee inspected the project site on 20.05.2023, interacted with the proponent and the EIA coordinator.

2.0 Main Issue(s)

- The proponent operated the quarry between 15.01.2016 and 10.01.2017 without Environmental Clearance.
- During this period, the proponent has excavated 416.038 cu.m. of granite. The following table shows this along with the permit date details:

Permit Date	Excavated Quantity (in cu.m.)
15.04.2016	20.751
27.05.2016	59.442
14.06.2016	13.43
04.07.2016	78.616
18.08.2016	95.34
15.09.2016	24.963
19.11.2016	63.428
02.01.2017	60.068
Total	416.038

- The proponent has obtained eight permits from the Department of Geology and Mining, Krishnagiri during the violation period.
- The proponent further claimed that with around 5 days of operation for each permit, the total number of days quarry operated during the violation period would work out as 40 days. However, there is no documented proof to substantiate this claim as the proponent has not maintained a pit-head register.


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- In the absence of reliable information on the actual number of operation of the mine during the violation period, the total number of violation days during the recorded violation period (viz., 15.01.2016 to 10.01.2017) would work out as 300 days.

3.0 On-site Inspection – Observations

- The environmental and socio-economic settings of the quarry include:
 - Nearest habitation – 310 m (NE); Moramadugu
 - Nearest reserve forest – 16.2 km (W); Udedurgam RF
 - Nearest wildlife sanctuary – 16 km (W); Cauvery Wildlife Sanctuary
 - Nearest water bodies – 4.9 km (E) KRP Dam; 5.5 km (NE) Ponnaiyar river
 - Ground water table is at 40-42 m depth from the surface
 - No streams crossing the mining area
- The mine appeared to be not in working condition presently (site photographs included in the report substantiate this).
- The mining operation in the past didn't seem have had proper bench formation.
- The fencing around the mining area and the garland drainage were also not in proper shape – possibly due to the non-working condition of the quarry for substantial period (2017 to 2023).
- While trees could be seen in the area in and around the mining site, there seemed to be no planned plantation.
- The approach road to the mine is currently occupied by other users (again due to prolonged absence of operations at the project site), and the proponent will have to develop the transport road again. In fact, the approach to the mine presently has a fully grown (and blooming) mango orchard.
- The depth of the existing pit is around 26 m, and the proposed ultimate depth of the pit is 32 m. With the ground water table from the nearby locations assessed as 40-42 m, the mining operations may not intersect the ground water table.
- The water in the existing pit can be diverted to nearby areas as it may not contain any impurities.
- There is no significant waste at the mining area.
- The proponent had employed adequate and qualified people during the violation period (as per the records).

4.0 Damage Assessment:

- Thiru P. Arunraja operated the existing black granite quarry (extent 1.01.0 Ha) between 15.01.2016 and 10.01.2017 and excavated 416.038 cu.m. of granite.


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The PP obtained eight permits from the Department of Geology and Mining, Krishnagiri during the violation period. The last permit was taken on 02.01.2017 and there was no production from the mine since then for want of EC.

- For damage cost assessment two methodologies are followed as outlined below – (i) SEAC-TN Methodology, and (ii) CPCB Methodology. It may be noted that, while the SEAC-TN methodology uses the extent of mine area as the basis for the damage assessment, the CPCB methodology relies on violation period for estimating the damages. Thus, the two methodologies complement each other.
- The highest among all the estimated damages can be considered as the applicable damage.

As per the CPCB Guidelines, the Environmental Compensation value is estimated as Rs. 12,00,000. However, the CPCB guidelines indicates that the minimum environmental compensation shall be Rs. 5000 per day. Accordingly, the EC for 300 days of violation works out as Rs. 15,00,000.

Summary


Taken together, the above estimates suggest that the environmental compensation in case of Thiru P. Arunraja would be Rs. 15,00,000 (the highest among the above three estimates) with the break-up as follows:

Sl. No.	Activity Head	Total Cost (in Rs.)
1	Cost of Ecological Remediation	7,50,000
2	Cost of Natural Resource Augmentation	3,00,000
3	Cost of Community Resource Augmentation	4,50,000
	Total	15,00,000

Further, based on the project cost estimate of Rs. 28,00,000 and an applicable 2% towards community welfare, the CER for the violation period would work out as Rs. 56,000.

5.0 Statutory Procedures:

1. The PP should give bank guarantee for Rs. 15,00,000 for successful implementation of the Activities within one year. The Bank Guarantee will be released after successful implementation of the Activities.
2. CER fund of Rs. 56,000 has to be spent by the PP directly and the receipt shall be submitted to SEIAA-TN.


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3. Credible action under Section 19 of the E(P) Act shall also be stipulated before the award of the Environmental Clearance.

6.0 Recommendation:

Hence the sub-committee opines that Environmental Clearance may be granted to Thiru P. Arunraja subject to the following conditions:

- The proponent shall remit the amount of Rs. 15.00 lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN.
- The proponent shall carry out the works outlined under ecological remediation (Rs. 7.50 lakhs), natural resource augmentation (Rs. 3.00 lakhs), and community resource augmentation (Rs. 4.50 lakhs) within a period of one year. In case of non-fulfilment of these activities, the bank guarantee will be forfeited to TNPCB without further notice.
- The proponent shall remit the amount suggested under CER (Rs. 56,000) to the beneficiary in the form of DD. A copy of the receipt from the beneficiary shall be submitted to SEIAA-TN.
- The proponent shall submit the proof for 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).
- The proponent shall actively develop greenbelt (with over 500 trees planted) around the mine, reconstruct the fencing and develop the garland drainage around the mine area. The proponent shall also re-develop the transport route from the mine.


Based on the subcommittee report and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a production quantity of RoM- 11994 m³ to an ultimate depth of 32m BGL for the period 2021-2022 to 2022-2023 and the annual peak production shall not exceed 5568 m³ of RoM 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 proponent shall remit the amount of Rs. 15.00 lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN.
- 2) The proponent shall carry out the works outlined under ecological remediation (Rs. 7.50 lakhs), natural resource augmentation (Rs. 3.00 lakhs), and community resource augmentation (Rs. 4.50 lakhs) within a period of one year. In case of non-fulfilment of these activities, the bank guarantee will be forfeited to TNPCB without further notice.
- 3) The proponent shall remit the amount suggested under CER (Rs. 56,000) to the beneficiary in the form of DD. A copy of the receipt from the beneficiary shall be submitted to SEIAA-TN.
- 4) The proponent shall submit the proof for 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).
- 5) The proponent shall actively develop greenbelt (with over 500 trees planted) around the mine, reconstruct the fencing and develop the garland drainage around the mine area. The proponent shall also re-develop the transport route from the mine.
- 6) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 7) 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.
- 8) 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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- 9) 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.
- 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.
- 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.


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- 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. (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 ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around


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



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- 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.
- 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-


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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. 0.56 lakh and the amount shall be spent for the committed activities in Government School in Agaram Village, before obtaining CTO from TNPCB.

Agenda No: 384-TA:02

(File No: 6236/2017)

Proposed Multicolour Granite Quarry lease over an extent of 1.53.0 Ha in S.F.Nos. 404/1(P), 2(P), 5(P), 6(P), & 405/1(P) of Vadachinneripalayam Village, Kangeyan Taluk, Tirupur District, Tamil Nadu by Tvl.Twilight Stone Private Ltd-for Environmental Clearance Violation. (SIA/TN/MIN/43892/2018, Dated:30.09.2019)

Earlier, the proposal was placed in 341st Meeting of SEAC held on 29.12.2022. 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, Tvl.Twilight Stone Private Ltd has applied for **Environmental Clearance Violation** for the proposed Multi colour Granite quarry lease over an extent of 1.53.0 Ha at S.F.No 404/1(P), 2(P), 5(P), 6(P), & 405/1(P) of Vadachinneripalayam Village, Kangeyan Taluk, Tirupur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Tor Issued vide Lr.No.SEIAA-TN/F.No.6236/TOR-344/2018 dated 14.05.2018.


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4. The PP has furnished the EIA Report under violation indicating the 'High - level damage' for the ecological assessment & EMP measures due to the mining operations carried out for the violation period in the mines in accordance with the MoEF & CC Notification No. S.O.804 (E), dated. 14.03.2017.

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

Besides, the SEIAA shall immediately initiate take action u/s 19 of E(P) Act 1986 against the PP for the committed violation.

As per the above letter the sub-committee visited the site on 28.01.2023.

The Sub Committee report has placed in 384th SEAC meeting held on 16.06.2023.

The observations made in the field and recommendation derived on the basis of the field visit are as below:

Mining plan details:


Sl. No.	Mining Plan/Scheme	Plan Period	Approval by CGM Reference
1	Mining Plan	2006-2011	Mining plan approved 12965/MM5/2005 dated 23.02.2006. Prepared for the year of 2006 – 2011
2	1 st Scheme of Mining	2011-2016	Submitted, Deemed approval under Rule 18(2) of GCDR 1999
3.	2 nd Scheme of Mining	2016-2021	Submitted
4.	3 rd Scheme of Mining	2021-2026	Not yet approved

Observations of the SEAC sub-committee - Site inspection

1. The granite quarry of M/S TWILIGHT STONES (P) LTD over an extent of 1.53.0 Ha is located in Vadachinneripalayam Villages, Kangeyam Taluk, Tirupur District.


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2. As submitted and verified, the mining Lease was under G.O (3D) No.47 Industries (MMB-1) Department dated 28.02.2006 for a period of 20 years. The lease deed was executed on 27.03.2006 and will expire on 26.03.2026.
3. A copy of the present SOM 2021-22 to 2025-26 were submitted for approval. Any Mining Plan/Scheme if not approved within 90 days, the lessee shall continue the quarry operation and considered as deemed approval as per Rule 18 (5) of Granite Conservation and Development Rules, 1999.
4. No consent from TNPCB was obtained for the Mine.
5. The Lease is accessible from SH 83 A – Erode – Dharapuram Road – 2.9km. The village road is located at the distance of 750m in South direction.
6. Habitation is located at Kungarupalayam– 718m -S
7. There is another one quarry located within 500 m radius of the M/S TWILIGHT STONES (P) LTD
8. The Lease is fenced with barbed wire in all sides and boundary pillars marked are noticed with geo Coordinates.
9. Mine is not in operation and Pit is filled with rain water.
10. As reported, the mine is not in operation since Jan 2017.
11. The mine offices, Rest Shelter, First Aid facility, are available adjacent to mining lease area.
12. Garland drains will be developed around the Pit.
13. Developed Green belt is noticed in around mine offices, Rest Shelter, First Aid facility. However, PP has now planted new saplings along the peripheries of the Lease.
14. As informed, environment friendly Mining activity, mechanized method using excavator was carried out in the Lease during the Violation Period upto a depth of 22 m BGL and no ground water- table intersection was encountered.
15. Mineral transportation route exists to reach SH-42 for the transportation of minerals.

14. Status of Mining Operation

The Mining activities were stopped from 10.01.2017 and there was no production from this Mine since then. The mining plan was approved by Department of Geology


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and Mining, Guindy, Chennai vide Letter no:12965/MM5/2005 dated 23.02.2006..The first scheme of mining was prepared for the year 2011 – 2016. To comply with the Rule 18(2) of GCDR 1999, the present scheme of mining was submitted for the period 2021-22 to 2025-2026. Any Mining Plan/Scheme if not approved within 90 days, the lessee shall continue the quarry operation and considered as deemed approval as per Rule 18 (5) of Granite Conservation and Development Rules, 1999. However, since this proposal comes under violation case, the PP shall obtain a letter of approval of 3rd Scheme of Mining from the Directorate of Geology and Mining (DGM) for the proposed quarry operations by ensuring that no violation is made while extracting the mineral. Consents to Operate from Tamil Nadu Pollution Control Board (TNPCB) are to be obtained after getting EC from SEAC.

15. Present Condition of the Mine Pit and Dump

The physical nature of the limestone deposit:

Strike length (m)	170 m
Width (m)	66 m
Strike Direction	E – W
Dip Angle	Vertical
Depth Proved (m)	30 m

Existing Pit Dimension

Pit	L (m)	W (m)	D (m)
I	139m	89m	17m (RL 292m- RL275m)

Waste Dump details: No waste dump at present

16. Violation Category

M/s Twilight Stones (P) Ltd continued to operate the mines without obtaining Environment Clearance (EC) after 15.01.2016 under EIA Notification, 2006 and declared as violation case as per MoEF CC Notification S.O 804(E) dated 14.03.2017.

19. Enumerate the aspects of Violation

Quantification of the effects on human health of particulate matter emissions, for which inhalation is the only relevant exposure route. In this case, it is necessary to


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quantify the pollutant emission, describe its dispersion and the extent to which the population is exposed, apply a concentration-response function and finally evaluate the economic impact. A pathway for estimating impacts & Impact Pathway Approach is shown below.

20. Quantification of Damage Cost

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

20.1 Air Environment

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

Emission calculation References:

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

20.2 Water Environment

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

20.3 Solid Waste

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

22.4 Removal of Trees

The quarry Lease area is fully rocky terrain. The quarry is in operation since, 1984. As per proponent information there is no removal of trees.

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


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21. ECOLOGICAL DAMAGE ASSESSMENT

M/s Twilight Stones (P) Ltd has operated Multicolour granite quarry in Vadachinneripalayam Village during 2016-2017(Violation period) to achieve small quantity of granite. Operating the quarry after 15.01.2016 without EC is the Violation. Lease is not in operation from 10.01.2017. During the violation period the impacts on the Environmental Components viz. Air, Water, Land, Biological and Socio-economic Environment are assessed as below


22. Damage Cost Evaluation

SEAC Sub-committee inspected the project site and the documents of project cost details were verified. The level of damage is assessed by the following criteria:

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

THE PROPOSAL FALLS IN LOW LEVEL ECOLOGICAL DAMAGE CATEGORY.

Sl.No	Environmental Component	Mine Activity	Impact on the Environment	Damage	Damage Cost
1.	Land Use	Production of	Mining was carried	No damage	Nil


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		few quantities of granite Over an Extent of 1.53.0Ha by Semi mechanized Method of Mining	out in already excavated pit. No loss of vegetation.		
2	Air Quality & Ecology	Drilling, mild blasting for pre splitting of rock, wire saw cutting of rocks and transportation of granite were the mine activities taken placing during violation period.	The sprinkling of water along the haul road was not adopted during violation period. The fugitive dust generated during transportation was deposited on the plants in the surroundings	The growth of the plants around the quarry area was affected.	Rs.60,000
3	Noise & Vibration	Drilling, mild blasting for pre splitting of rock, wire saw cutting of rocks and transportation of granite were the mine activities taken placing during violation period.	Mild blasting only carried out for this granite quarry. So it did not produce high noise level and ground vibration.	All the workers were provided with PPE such as ear muffs and earplugs. The greenbelt has to be developed around the lease area to suppress the noise within lease area.	Rs.60,000
4	Dewatering for	No surface or	The rain water	No Damage	Nil

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	consumption	ground water draws for mine water demand. No ground water table intersection observed	collected in the pit had enhanced the ground water level.		
5	Wastewaters	No effluent and no mine pit discharge	Domestic sewage generation was 0.75 KLD and was biologically treated in the septic tank followed by a dispersion trench.	No damage due to the activity	No damage cost
6	Solid wastes	The granite rejects were generated during violation period.	The rejects were properly dumped as per scheme of mining during violation period.	No major damages. Garland drainage & Parapet has to be developed around dump.	Rs.75,000
7	Socio economics	Direct and indirect employment was given more than 20 people	The living standard of the people (workers) in nearby village has been improved	The project gave boost to economic development in the region. No damage.	Nil
8	Occupational Health and Risk	Mining and allied activities.	Occupational health and safety standards were adopted	No workers were suffered due to mining activity	Rs.25,000


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9	Public Health	Mining and allied activities.	As mild blasting and wire saw cutting were adopted for mining operation, there was no impact to nearby villages	No village people were suffered due to mining activity	Rs.25,000
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Environment Remediation Plan, Cost and Time Schedule (As proposed)

S.No	Environmental component	Remediation Plan/ Activity Description	Budgetary Provision			Total Rs. Lakhs
			Rs. Lakhs			
			I	II	III	
1	Air Quality and Ecology	Additional Green Belt by Planting 300 Trees in Mine lease boundary @ Rs.200 per tree including its maintenance	0.2	0.2	0.2	0.6
2	Noise & Vibration	All the workers were provided with PPE such as ear muffs and earplugs. The greenbelt has to be developed around the lease area to suppress the noise within lease area.	0.2	0.2	0.2	0.6
3	Solid wastes	Development of garland drainages & Parapet around the dumps	0.25	0.25	0.25	0.75


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S.No	Environmental component	Remediation Plan/ Activity Description	Budgetary Provision Rs. Lakhs			Total Rs. Lakhs
			I	II	III	
4	Occupational Health and Risk & Public Health	Conducting Medical Camp for the workers and people in nearest habitation	0.2	0.15	0.15	0.5
Total			0.85	0.8	0.8	2.45

Natural and Community Resource Augmentation Plan (Proposed)

Natural Resource Augmentation Plan

Sl. No.	Activity Proposed	Budgetary Provision, Rs. Lakhs			Total, Rs. Lakhs
		I	II	III	
1	Plantation in common areas of villages like bus stops, Govt hospitals, VAO offices (50 Trees)	0.07	0.07	0.06	0.2
2	Installing 3 numbers of solar street light with post in nearby villages	0.15	0.15	0.15	0.45
Total		0.22	0.22	0.21	0.65

Community Resource Augmentation Plan

Sl. No.	Activity Proposed	Budgetary Provision, Rs. Lakhs			Total, Rs. Lakhs
		I	II	III	
1	Developing Library facility in the nearest Government school	0.1	0.1	0.1	0.3
2	Installation of RO Plant for safe drinking	0.25	0.25	0.25	0.75


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	water supply to three Government schools in Nearest Village. (Capacity = 50LPH - 32 Nos)				
Total		0.35	0.35	0.35	1.05

22. CER Budget-Proposed

Project Cost is Rs.79.0 Lakhs. About Rs.5.00 Lakhs has to be allotted as Corporate Environmental Responsibility (CER) Budget in compliance with MoEF & CC OM dated 01.05.2018 for execution within 2 years period. PP will spend the CER cost for developing library and sanitary facilities in the Government school in the nearest villages.

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

Sl. No.	Activity Proposed	Budgetary Provision, Rs. Lakhs			Total, Rs. Lakhs
		I	II	III	
1	Cost of Damage Remediation Plan	0.85	0.8	0.8	2.45
2	Natural Resource Augmentation Plan	0.22	0.22	0.21	0.65
3	Community Resource Augmentation Plan	0.35	0.35	0.35	1.05
Total		1.42	1.37	1.36	4.15

However, as per the CPCB Guidelines, the Environmental Compensation value is estimated as Rs. 12,00,000. However, the CPCB guidelines indicates that the minimum environmental compensation shall be Rs. 5000 per day. Accordingly, the EC for 300 days of violation works out as Rs. 15,00,000.

Taken together, the above estimates suggest that the environmental compensation in case of M/s Twilight Stones (P) Ltd would be Rs. 15,00,000 (the highest among the above two estimates) with the break-up as follows:

Sl. No.	Activity Head	Total Cost (in Rs.)
1	Cost of Ecological Remediation	7,50,000


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2	Cost of Natural Resource Augmentation	3,00,000
3	Cost of Community Resource Augmentation	4,50,000
	Total	15,00,000

5.0 Statutory Procedures:


1. The PP should give bank guarantee for Rs. 15,00,000 for successful implementation of the Activities within one year. The Bank Guarantee will be released after successful implementation of the Activities.
2. CER fund of Rs. 5,00,000 has to be spent by the PP directly and the receipt shall be submitted to SEIAA-TN.
3. Credible action under Section 19 of the E(P) Act shall also be stipulated before the award of the Environmental Clearance.

Penalty for Violation

Affidavit has been submitted in proper format to pay Penalty as per SOP of MOEFCC or court order as applicable and 100% penalty is claimed by the DGM has to be paid by the Proponent.

RECOMMENDATIONS

- The proponent has violated by carrying out the mining during the year 2015-16 & 2016-17 without valid EC.
- Low level ecological damages has been forced on the activity of the Proponent and penalty has been calculated as Rs. 2.45 Lakhs.
- The proponent also agreed to pay the Budget allocation proposed for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan based on EIA Model which is Rs. 4.15 Lakhs.
- The proponent committed to spend Rs. 5.00 Lakhs towards the CER activity for Government higher secondary school at Vadachninneripalayam Village.
- The green belt development for the nearby village including Plantation in common areas of villages like bus stops, Government Hospitals, VAO offices (50 Trees).
- A concrete house for mines office exist near the quarry area. Since not blasting will be conducted for this mine, the house present nearby will not have any impact due to mining.


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- In concluding views, the subcommittee member suggests the Honourable Committee to issue Environmental Clearance requested by the proponent.

Now the proposal was placed in 384th meeting of SEAC held on 16.06.2023. Based on the inspection report and documents furnished, SEAC decided that (i) the PP shall submit the third scheme of mining (2021 – 2026) approved by the Directorate of Geology and Mining, (ii) the PP shall submit the 'No Dues Certificate' from the Directorate of Geology and Mining, (iii) the PP shall submit the updated the cluster certificate showing the existence of any expired/abandoned/existing/proposed quarries in the same location, obtained from the concerned AD (Mines).

Based on the receipt of the above documents, the SEAC will deliberate further deliberations.

Agenda No: 384-TA:03

(File No: 6551/2018)

Existing Black Granite Quarry over an extent of 1.38.0 Ha. at S.F. Nos. 109/17, 109/25A1, 109/25B, 109/26B & 109/28 of Ulagiyanallur Village, Kallakurichi Taluk, Villupuram District, by Tmt. R. Bhuvaneshwari – For Environmental Clearance. (SIA/TN/MIN/27887/2018 Dated:25.06.2018)

Earlier, this proposal was placed in 115th Meeting of SEAC held on 28.06.2018. The details of the minutes are available in the website (www.parivesh.nic.in).

The SEAC noted the following:

1. The Mining lease was granted Vide letter G.O.(3D) No.27 dated 07.09.2009 of Govt. Of Tamil Nadu for 20 Years for the period from 12.10.2009 to 11.10.2029.
2. The mining plan was approved by the Department of Geology & mining, Guindy, Chennai vide letter No.1141/MM5/2009, dated 20.08.2009 which was valid up to 11.09.2014.
3. The PP has applied for ToR and the application was treated under violation, since the mining operation was carried out without obtaining environmental clearance.
4. ToR was issued vide letter no. SEIAA-TN/F.No.6551/ToR-413/2018 dated 05.06.2018.


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5. ToR amendment was issued vide letter no. SEIAA-TN/F.No.6551/SEAC – CXVIII/TOR – 413(A)/2018 dated 30.07.2018.
6. Public Hearing - As per MoEF & CC Office Memorandum – F.No.22-28/2020.IA.III Dated: 12.11.2020 (Point No.5).

The project proponent made a presentation on the EIA study conducted. The members of SEAC interacted with the proponent regarding the environmental aspects of the project. The observations and recommendations of the SEAC regarding the project proposal are as follows:


1. In the presentation it was informed that there is no blasting activity involved. However in the EIA report (page no.17-21) it has been mentioned that the development of the quarry , removal of overburden will be done by blasting with explosives in drill holes by the jackhammer, further the quantities of the explosive to be used is also given. While informing about the employment potential provisions for drillers and blasters has also been indicated. Thus there is a contradiction regarding adoption of drilling and blasting activities for removing the overburden/side burden in the quarry. The proponent should clarify the above contradiction.
2. The proposed dumping area has been indicated in the plan. Since the quantity of waste generated will be of the order 85% the quantities which can be accommodated in the dumping area has not been worked out.
3. Specific mitigation augmentation for the dust pollution in the nearby nala (Mayura nadi) needs to be spelt.
4. The quarry working is proposed to a depth of 17m. As per CGWB the depth of water table is indicated at 20m. Necessary geo hydrological studies needs to be carried out and reported by undertaking geo physical testing and also drilling in the area if needed for ascertaining the depth of water table and also the quantity of yield in the mine. The study is recommended in view of the fact that the ground water table as stated by CGWB and the maximum depth of mining proposed are very close. Therefore there is a necessity to confirm the actual ground water table condition at the specific site.


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After ascertaining the correct ground water table condition during the monsoon and summer, the proponent should plan the mining activity in such a manner that at no point of time the mining would intersect the ground water table.

5. The production and dispatch of Black Granite as indicated by the proponent needs to be authenticated by the department of Mines and Geology. For the years 2012 and 2013 it has been found that the production is more than the proposed quantity as per the mine plan.
6. In chapter 4 of the EIA report, it is stated that the following environmental parameters are relevant for the proposed project: Air quality, Noise levels, Ground vibration, Water resources and Quality, Land use pattern, Soil quality, Flora and Fauna, Socio economic conditions and Occupational health. The deficiency in the description of the impact of the project on the above environmental parameters is as follows:
 - a. Air quality : The impact on air quality has been predicted for particulate matter, SO₂ and NO_X using computer modelling. The results of the computer modelling should be verified and validated using field measurements of similar projects or from relevant studies reported in literature.
 - b. Noise levels : The sources of noise have been indicated but the impact on the background noise has not been predicted scientifically based on the different source of noise.
 - c. Ground vibration : Ground vibration effect has been completely ruled out in the report. But drilling will induce vibration which might have impact on the habitations nearby. This is to be ascertained scientifically and proper mitigation recommended.
 - d. Land Degradation : Even though land degradation is stated to be an adverse impact, there is no description of how the land degraded due to the mining activity.
 - e. Soil quality : The impact on the soil quality has not been described.
 - f. Flora and Fauna : The impact on flora and fauna due to the mining operation especially the land use, dust, noise and vibrations has been described but the


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description is very generic in nature. The proponent should describe only the impacts that are applicable to the project activity.

- g. Occupational health : As part of the occupational safety and health, a periodical comprehensive health check up must be part of the environmental management plan for taking care of the adverse impacts of noise and dust. This has not been covered in the report.

The SEAC critically analyzed the EIA report with reference to the technical points that should be covered as per the ToR issued to the proponent. The observations of the SEAC with reference to the ToR compliance is as follows:

- a. ToR conditions specified in section (F) at page no.7 of ToR have not been complied with.
- b. For a few cases the proponent has merely stated that "Proper mitigation measures will be planned ". But they have not been specified in the report.

In view of the observations presented above, the SEAC decided to defer the project proposal of the proponent Smt. R. Bhuvaneshwari submitted for Environmental Clearance to SEIAA –TN on 26.06.2018 for mining of Black Granite over an extent of 1.38.0 Ha. at S.F. Nos. 109/17, 109/25A1, 109/25B, 109/26B & 109/28 of Ulagiyanallur Village, Kallakurichi Taluk, Villupuram District and direct the proponent to revise the EIA/EMP report in line with the SEAC observations and submit the same to SEIAA-TN for further necessary action.

Now the proposal was placed in 368th SEAC meeting held on 19.04.2023.

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

Sl.No	SEAC Query	Reply by PP
1.	In the presentation it was informed that there is no blasting activity involved. However in the EIA report (page No.17- 21) is has been mentioned that the development of the quarry. removal of overburden will be done by blasting with explosives in drill holes by the jackhammer.	The Quarry was in operation from year 2009 to 10th January 2017. Initially for the development of the quarry and the removal of overburden / side burden we have used old practice of mining methods ie. drilling, controlled blasting in drill holes by


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	<p>further the quantities of the explosive to be used is also given. While informing about the employment potential provisions for drillers and blasters has also been indicated. Thus there is a contradiction regarding adoption of drilling and blasting activates for removing the overburden/side burden in the quarry. The proponent should clarify the above contradiction.</p>	<p>the jackhammers. Hence our RQP declared the same in our initial mining plan</p> <p>Now that in the new scheme of mining plan for plan period 2019-20 to 2023-24, which was approved by Commissioner, Department of Geology and Mining, Vide Rc. No: 704/MM4/2023 dated: 17.02.2023 and stated that Blasting is done only if required .The RQP had cited our state of Blasting machineries from abroad to support blasting free quarrying. But the Proponent Tmt. R. Bhuvaneshwari is willing to give self declaration to add a clause condition while issuing EC that no blasting will be done and in violation of that clause the SEIAA Tamil nadu have a liberty to issue closure notice and we are bound to accept it unconditionally.</p>
2.	<p>The proposed dumping area has been indicated in the plan. Since the quantity of waste generated will be of the order 85% the quantities which can be accommodated in the dumping area has not been worked out</p>	<p>Agreed and Accepted. As per the 2"d Scheme of Mining (2019-2024), a dumping area of 0.175 (Ha) is allocated (mentioned in Pg. no. 28).</p>
3.	<p>Specific mitigation augmentation for the dust pollution in the nearby nala (Mayura nadi) needs to be spelt</p>	<p>Mayura Nadi (seasonal stream) is about -95 meters towards North.</p> <p>We have provided 7.5 m safety distance within the project boundary and the project site.</p> <p>In addition to that 5m will be providing as safety distance towards North direction of the</p>


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		lease area. Dense Greenbelt will be developed with native species. Use of Italian Atlas Copco Rock Buggy machine with inbuilt 11/ h dust collecting system Use of Italian Atlas Copco Rock Buggy machine with inbuilt dust collecting system.
4.	The quarry working is proposed to a depth of 17m. As per CGWB the depth of water table is indicated at 20m. Necessary geo hydro geological studies need to be carried out and reported by undertaking geo physical testing and also drilling in the area if needed for ascertaining the depth of water table and also quantity of yield in the mine. The study is recommended in view of the fact that the ground water table condition at the specific site. After ascertaining the correct ground water table condition during the monsoon and summer, the proponent should plan the mining activity in such a manner that at no point the mining would intersect the ground water table	As per Report on Hydro geological investigation certified by the Department of Applied Geology, University of Madras, Guindy Campus, the ground water table is at 32m. Hence the proposed mining activity of 17m depth will not impact the ground water table.
5.	The production and dispatch of black granite as indicated by the proponent needs to be authenticated by the department of mines and Geology. For the years 2012 and 2013 it has been found that the production is more than the proposed quantity as per the mine plan	Firstly I wish to state that EC was not required for mining of minor minerals in areas less than 5 hectares prior to year 2016. Only after amendment in EIA notification no. S.O. 141(E) dated 15th January 2016 by the MOER we are coming under the purview of EC and that EC is mandatory after 15.1.2016 only for minor minerals. As per Section 3(e) of MMDR Act, Granite is a minor mineral. The observation mentioned is for year 2012 and 2013, I wish


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		<p>to submit that the quantity which we have lifted is authenticated by obtaining necessary permit from Mines and Geology Department after inspection and paying applicable seigniorage fees only. However, we are coming under purview of EC after 2016. The proponent never sold or transported blocks without any authentication by the mines department.</p>
6.	<p>In chapter 4 of the EIA report, it is stated that the following environmental parameters are relevant for the proposed project: Air quality, Noise levels, Ground Vibration, Water resources and quality, Land use pattern. Soil quality, Flora and fauna. Socio economic conditions and Occupational health. The deficiency in the description of the impact of the project on the above environmental parameters is as follows:</p> <p>a) Air quality: The impact on air quality has been predicted for particulate matter, SO₂ and NO_x using computer modelling. The results of the computer modelling should be verified and validated using field measurements of similar projects or from relevant studies reported in literature.</p> <p>b) Noise levels: The sources of noise have been indicated but the impact on the background noise has not been predicated scientifically based on the different source of noise.</p>	<p>As per the minutes of 115th SEAC meeting, Air quality, Noise levels, Ground Vibration, Water resources and quality, Land use pattern. Soil quality, Flora and fauna. Socio economic conditions and Occupational health are modified in Chapter 4 of EIA report</p>


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	<p>c) Ground Vibration: Ground Vibration effect has been completely ruled out in the report. But drilling will induce vibration which might have impact on the habitations nearby. This is to be ascertained scientifically and proper mitigation recommended.</p> <p>d) Land degradation: Even though land Degradation is stated to be an adverse impact, there is no description of how the land degraded due to the mining activity.</p> <p>e) Soil quality: The impact on the soil quality has not been described.</p> <p>f) Flora and Fauna: The impact on flora and fauna due to the mining operation especially the land use, dust, noise and vibrations has been described but the description is very generic in nature. The proponent should describe only the impacts that are applicable to the project activity.</p> <p>g) Occupational health: As part of the occupational safety and health, a periodical comprehensive health checkup must be part of the environmental management plan for taking care of the adverse impacts of noise and dust.</p>	
7.	<p>The SEAC critically analyzed the EIA report with reference to the technical point that should be covered as per the ToR issued to the proponent. The observations of the SEAC with reference to the ToR compliance is as follows:</p>	<p>According to ToR conditions in section (F) NoC obtained from Department of Geology and Mining and complied with the conditions specified in section (F) of ToR.</p>


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| <p>a) ToR conditions specified in section (F) at page no.7 ToR have not been complied with.</p> <p>b) For a few cases the proponent has merely stated that, "Proper mitigation measures will be planned". But they have not been specified in the report.</p> | |
|---|--|


During presentation, the PP made a representation to SEAC that public hearing may be waived for this proposal, in terms of latest Oms on the subject. SEAC after detailed discussions, decided to accept the PP's request for waiving of public hearing. Further, as the project comes under violation category, the Committee decided to make site inspection by a Sub-Committee to be constituted by SEAC. On receipt of the Inspection Report, the Committee will deliberate further and decide future course of action. As per the above letter the sub-committee visited the site on 25.02.2023.

The Sub Committee report has placed in 384th SEAC meeting held on 16.06.2023.

The observations made in the field and recommendation derived on the basis of the field visit are as below:

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

1. Sub Committee has visited Ulagiyanallur Granite Quarry during the Inspection to have over all mining scenario in the Region.
2. The Lease over an extent of 1.38.0 Ha is being operated in the Ulagiyanallur village. It is wire fenced in all sides.
3. The settlements/habitations are observed in 490 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.
6. During Violation Period, Environmental 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.


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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 partially developed along the periphery of quarry pit including in Safety Barriers but not maintained due to the violation issues.
11. The Water tanker trucks possessing the water sprinklers were deployed along the Haul Road during the violation period and is not 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.
14. M/s. Tmt. R. Bhuvaneshwari is carrying out various CSR activities in the Region, as reported in the EIA Report.
15. The PP have also carried out an extensive hydrogeological study through the Department of Applied Geology, University of Madras stating that the project area is considered to have poor groundwater potential and the mining of Granite for a depth of 32 m from ground level will not have any impact in the area over ground water conditions.

STATUS OF MINING OPERATION

The mining activities were stopped on 10.01.2017 and there was no production from this Mine since then.

MINING PLAN APPROVALS

The present scheme of mining submitted for the years 2020-21 to 2023-24 (Plan Period for 4 years) under Rule 19 (b) of TNMCR 1959 & Rule 18 (2) (b) of GDCR, 1999 was approved in accordance with the law by the CGM vide letter No. Rc. No.704/MM4/2023, dated. 17.02.2023.


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

- The physical nature of the Black Granite deposit:
- Strike length (m) : 69 m
 - Width (m) : 43m
 - 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)	No of Benches
Present pit	63.18	35.44	15.11	3

- 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.

PENALTY FOR VIOLATION

The PP has operated the quarry during the violation period from 15.01.2016 to 10.01.2017 and obtained necessary transport permit to a quantity of 291.018 cbm. The PP was directed to pay the amount of Rs.61,20,982/- to the Department of Geology and Mining towards 100% cost value of the mined mineral against the permitted EC quantity.

However, the PP has obtained interim order for the collection of the said cost of mineral. However, the PP has submitted an affidavit that he will abide to any directions issued by the Hon'ble High Court regarding payment of cost of mineral in future since the Writ Appeal No. 688 of 2022 is pending in Hon'ble High Court of Madras.

Accordingly, the Director of Geology and Mining has issued 'No Objection Certificate' to the PP for getting EC vide Letter Rc. No.704/MM4/2023, dt. 16.03.2023.

DAMAGE COST CALCULATION

1. SEAC METHODOLOGY:


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Based on the inspection of the project site and other documents furnished by project proponent, M/s. Tmt. R. Bhuvaneshwari, 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 Ulagianallur Black Granite Mine, Kallakurichi Taluk & District, following the SEAC Guidelines after discussing the following related legal provisions made from time to time by various agencies/courts.

Step 2: (i) Application of SEAC Methodology


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

The level of damages are assessed by the following criteria:

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

Thus, the Proposal falls in **High Level Ecological Damage** as the operations were carried out without obtaining prior EC but however the quantity excavated as per the approved Mining Plan and total environmental compensation amounts to Rs. 5,17,500/= which includes the CER amount of Rs. 1,03,500.

2. APPLICATION OF CPCB GUIDELINES


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It was curtained that the quarry was operated during the violation period from 15.01.2016 to 10.01.2017 and the number of working days estimated as 300 days excluding Sundays. Hence, with applicable values of PI-80 (Red Category Industry), N-300 days (quarry working days of violation period), R-Rs.100 (based on nature of violation as the granite quarrying has been considered to be least polluting mining industry; Max. Rs.250-), S-0.5 (cumulatively Small-Scale Unit), LF-1.00 (1 for city/town having population less than one million), the Environmental Compensation computed is as follows:

$$EC : 80 \times 300 \times 100 \times 0.5 \times 1.00 = \text{Rs.12,00,000/- (Maximum)}$$

However, applying the point (g) where the Environmental Compensation shall be ₹5000/day, the minimum Environmental Compensation computed for the above violation case is as Rs. 15,00,000/=.

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	7,50,000
2	Natural Resource Augmentation Plan	3,00,000
3	Community Resource Augmentation Plan	4,50,000
Grand Total		15,00,000

The Project Cost is Rs.2.25 crores. CER Budget is arrived as 2% of the Project Cost i.e. 4,50,000/- and hence the CER of Rs. 5,00,000/-.

CONCLUSIONS:

As the Proposal falls in High 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 CPCB Guidelines is Rs. 15,00,000/- which is higher than the other estimation - Environmental Compensation values of Rs. 5,17,500/- based on SEAC-TN model and Rs. 1,76,249/- based on the EIA estimates prepared by the EIA coordinator. Therefore, the aforesaid value of Rs. 15,00,000/- must be compensated for Remediation, Natural Resource Augmentation and Community Resource Augmentation plan as follows:


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Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	7,50,000
2	Natural Resource Augmentation Plan	3,00,000
3	Community Resource Augmentation Plan	4,50,000
Grand Total		15,00,000

Based on the CPCB Guidelines for the violation cases, the CER value is estimated as Rs. 5,00,000/-. However, the PP had committed to provide the following budget towards the Corporate Environmental Responsibility (CER) during the SEAC Sub-Committee Inspection.

Name of the Village	Particulars	CER Amount
Panchayat Union Primary School - Esanthai. Pethanur P.O., Chinnasalem Union, Kallakurichi District.	Repairs and Maintenance of Water Tank, Upliftment of Toilet facilities for the Students & Teachers, Tree Plantation and Environmental related Books for the Library etc.	Rs. 5,00,000
Total		Rs. 5,00,000

STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 15,00,000/- must be given to TNPCB for successful implementation of the Schemes within the period of two years. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. CER fund of Rs. 5,00,000 must be spent by the PP as committed during the appraisal and receipt has to be produced before executing the lease.
3. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

RECOMMENDATIONS

The SEAC Sub-Committee observed that the Mining of Black Granite in an extent of 1.38.0 Ha SF No. 109/17, 109/25A1, 109/25B, 109/26B & 109/28 for Environmental Clearance under violation comes under the "High level Ecological damage category"



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as per the SEAC Violation norms. Hence, the subcommittee opines the grant of Environmental Clearance for Mining of Black Granite in an extent of 1.38.0 Ha SF No. 109/17, 109/25A1, 109/25B, 109/26B & 109/28 of M/s Tmt. R. Bhuvaneshwari may be considered for not exceeding the annual peak production capacity of 3334 m³ of ROM with an ultimate pit depth of not exceeding 17 m below ground level subject to the following conditions in addition to the normal conditions:

1. The amount prescribed for Ecological remediation (Rs. 7,50,000), natural resource augmentation (Rs. 3,00,000) & community resource augmentation (Rs. 4,50,000), totaling Rs. 15,00,000 shall be spent towards the activities committed by the PP in the EIA Report. Hence, the SEAC decided to direct the project proponent to remit the amount of Rs. 15,00,000 in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
2. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
3. The amount committed by the Project proponent for CER (Rs. 5,00,000) shall be spent for the benefit of the beneficiary to the activities committed by the proponent. A copy of receipt from the beneficiary shall be submitted before executing the lease. However, the PP shall supervise the work and submit the status of the work complied pertaining to the CER within a period of one year to the DEE/TNPCB and the SEIAA after the execution of the lease.
4. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.


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5. The company shall submit the 'No Dues Certificate' obtained from State Government i.e. Department of Geology & Mining to the SIEAA before grant of EC, if not produced earlier.
6. The PP shall ensure that the plantation shall be carried out in a phase manner as a part of mine closure activities spelt out in the progressive mine closure plan.
7. The PP shall install the Environmental Management Cell headed by the statutory (I/II Class) Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
8. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
9. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained properly.
10. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
11. The proponent shall obtain a 'Star Rating' system awarded by Anna University, Chennai annually to the mining lease being operated for their efforts and initiatives taken for successful implementation of the Sustainable Development Framework (SDF).
12. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.


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File No	6551/2018		Category	B1
	SIA/TN/MIN/27887/2018 Dated: 25.06.2018			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Tmt. R. Bhuvaneshwari W/o. A.C.R. Rajganesan Shakthi complex, No. 572, Kamarajanar Road Attur Town, Salem-636 102	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Black Granite	
3.	S.F Nos. of the quarry site with area break-up	:	109/17,109/25A1, 109/25B, 109/26B & 109/28	
4.	Village in which situated	:	Ulagiyanallur Village	
5.	Taluk in which situated	:	Kallakurichi Taluk	
6.	District in which situated	:	Villupuram District	
7.	Extent of quarry (in ha.)	:	01.38.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	11°37'39.87"N to °58'55.08"E.	
9.	Topo Sheet No.	:	58M/02 & 58I/14	
10.	Type of mining	:	open cast semi mechanized	
11.	Life of Project	:	20 Years	
	Lease Period	:	20 Years	
	Mining Plan Period	:	4 Years	
12.	Mining Plan Details	:	As per approved Mining Plan Black Granite	As modified by SEAC
	Geological Resources m ³ (RoM)	:	21203m ³	


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	Minable Resources m ³ (RoM)	:	13336m ³
	Annual Peak Production in m ³	:	3334m ³
	Maximum Depth in meters	:	17m
13.	Depth of water table	:	32m
14.	Man Power requirement per day	:	21 Employees
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	3.0 KLD 1.0 KLD 0.7 KLD 0.6 KLD 0.7 KLD
16.	Power requirement	:	TNEB
17.	Precise area communication approved by the Industries (MME-1) Department	:	Letter No.3249/MME.1/2009-2 dated 07.07.2009
18.	Mining Plan approved by Department of G&M.	:	Rc. No. 704/MM4/2023,dated:17.02.2023
19.	Department of G&M, Deputy Director 500m Cluster Letter	:	Rc.No. B/G&M/03/2023 Dated: 10.3.2023
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 06.03.2023
21.	Project Cost (excluding EMP cost)	:	Rs.20,50,000
22.	EC Recommendation	:	Validity 30 years subject to the following upper limits. Black Granite
		:	Max Total RoM in m ³ 13336m ³


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		: Annual Max RoM in m ³	3334m ³
		: Max Depth in mtrs	17m
23.	EMP cost (in Rs. Lakh).	: Rs. 8,92,000	
24.	CER cost (in Rs. Lakh).	: Rs. 5,00,000	
25.	EIA report submitted on	: 25.06.2018	
26.	ToR details	: ToR issued under violation category vide SEIAA- TN/F.No.6551/2018/ToR-413/2018 Dated: 05.06.2018	
27.	Public hearing details	: NA	

Now the proposal was placed in 384th meeting of SEAC held on 16.06.2023. Based on the inspection report and documents furnished, SEAC decided to accept the recommendation made by the subcommittee and decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity shall not exceed 3334 m³ of ROM with an ultimate pit depth of not exceeding 17m below ground level subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


1. The amount prescribed for Ecological remediation (Rs. 7,50,000), natural resource augmentation (Rs. 3,00,000) & community resource augmentation (Rs. 4,50,000), totaling Rs. 15,00,000 shall be spent towards the activities committed by the PP in the EIA Report. Hence, the SEAC decided to direct the project proponent to remit the amount of Rs. 15,00,000 in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
2. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of 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. 5,00,000) shall be spent for the benefit of the beneficiary to the activities committed by the proponent. A copy of receipt from the beneficiary shall be submitted before executing the lease. However, the PP shall supervise the work and submit the status of the work complied pertaining to the CER within a period of one year to the DEE/TNPCB and the SEIAA after the execution of the lease.
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 submit the 'No Dues Certificate' obtained from State Government i.e. Department of Geology & Mining to the SEIAA before grant of EC, if not produced earlier.
6. The PP shall ensure that the plantation shall be carried out in a phase manner as a part of mine closure activities spelt out in the progressive mine closure plan.
7. The PP shall install the Environmental Management Cell headed by the statutory (I/II Class) Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
8. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
9. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained properly.
10. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to


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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.
13. As per the MoEF&CC Office Memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall adhere the EMP of Rs.1.55,000 Lakhs as committed.
14. The proponent shall mandatorily appoint the statutory Mines Manager and the Mining Engineer in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Granite Conservation & Development Rules, 1999 respectively.
15. 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.
16. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
17. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of Granite, waste, over burden, side burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope 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


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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.

18. The Proponent shall ensure that the overburden, waste rock and non-saleable granite generated during prospecting or mining operations of the granite quarry shall be stored separately in properly formed dumps on grounds earmarked. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps. Such dumps shall be properly secured to prevent the escape of material in harmful quantities which may cause degradation of the surrounding land or silting of water courses.
19. 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.
20. 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.
21. 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.
22. 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.


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23. Taller/one year old Saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper espacement 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.
24. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarry as assured in the Environmental Management Plan & the approved Mine Closure Plan.
25. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
26. 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.
27. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
28. 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.
29. 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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30. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
31. 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.
32. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the Granite Conservation and Development Rules 1999, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are 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.
33. 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.
34. 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.
35. 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.
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. The recommendation for the issue of environmental clearance is subject to the outcome of the Hon'ble NGT, Principal Bench, New Delhi in O.A.No.186 of 2016


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(M.A.No.350/2016) and O.A.No.200/2016 and O.A.No.580/2016
(M.A.No.1182/2016) and O.A.No.102/2017 and O.A.No.404/2016
(M.A.No.758/2016, M.A.No.920/2016, M.A.No.1122/2016, M.A.No.12/2017 &
M.A.No.843/2017) and O.A.No.405/2016 and O.A.No.520 of
2016(M.A.No.981/2016, M.A.No.982/2016 & M.A.No.384/2017).

38. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. The Project Proponent shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines (IBM) from time to time.
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. All the commitments made by the proponent during the Public Hearing, as per the minutes of Public Hearing should be implemented in total.


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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>Aegle marmelos</i>	Vilvam	விவம்
2	<i>Adenaanthera pavonina</i>	Marjadi	மஞ்சள், ஆனந்தகுன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aafhi	ஆத்தி
7	<i>Bauhinia tomentos</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டு
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Punnai	புனை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரசாமரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Marjallavu	கோங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvuli	நடுவூதி
18	<i>Creteoa adansoni</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sebenum</i>	Karungali	கருங்காலை
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகை
23	<i>Ficus amplissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பூக்க
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயில் மரம், ஆயிலி
27	<i>Lanea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepianthus tetraphylla</i>	Neikottaimaram	நெய் நெட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	வில்லா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பின்பட்டை, பிளிண்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழாமரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனா
38	<i>Phoenix sylvestre</i>	Eachai	எச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Munnai	முள்ளை
41	<i>Premna serratifolia</i>	Narumunnai	நடு முள்ளை
42	<i>Premna tomentosa</i>	Malaiipoovarasu	மலை பூங்க
43	<i>Prosopis cinerea</i>	Vanni maram	வாணி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேணாங்க
46	<i>Pterospermum xylocarpum</i>	Polavu	பூங்க
47	<i>Puthranjiva roxburghii</i>	Karipala	கரிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மாண்புமண சோபுகை
50	<i>Saraca asoca</i>	Asoca	அசோக
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேர்தாங்க கேட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்டிரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேண மருது
57	<i>Toona ciliate</i>	Sandhana vembu	சாந்தா வெம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூங்க
59	<i>Walsuratrifoliata</i>	valsura	வால்சூரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkappuli	கெடுக்கப்பூளி


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

-----கரங்கம்

கரங்கத்தில் குவாரி செயல்பாடுகளுக்கான கற்றுத்தழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEIAA/-----, தேதி 15.12.19, கற்றுத்தழல் அனுமதி _____ தேதி வரை செல்லத்தக்கதாக உள்ளது.

பலகை பழுதி வகைச்சரி	குவாரியின் எல்லைவைச் சுற்றி வேலி அமைக்க வேண்டும்
கொம்பாட்டுக்கான ஏங்கத்த திட்டம்	ஏங்கப்பாதையின் ஆழம் தளமடித்தலிருந்து _____ மீட்டர்க்கு மிகாமல் இருக்க வேண்டும். காற்றில் மாக ஏற்படாதவாறு ஏங்க பணிகளை மேற்கொள்ள வேண்டும்.
நட்பட்டி	வாகனங்கள் செல்லும் பாதையில் மாக ஏற்படாத அளவிற்கு தண்ணீரை முறைப்பாக தள்ளி வாரிகளின் முகமாக அவ்வப்போது தெளிக்க வேண்டும்.
பராமரிக்கக்கூடிய மரங்கள் எண்ணிக்கை:	இனடிச்சல் அமைப்பை தூசி மாகப்பாட்டையும் குறைப்பதற்காக குவாரியின் எல்லைவை சுற்றி அடத்தியான பலகை பழுதியை ஏற்படுத்த வேண்டும்.
ஏங்கத்தில் மெடி வைக்கும்பொழுது	நிலவழிவுகள் ஏற்படாதவாறும் மற்றும் அதை பறக்காதவாறும் பாதுகாப்பு நடவடிக்கைகளை உண்டிப்பாக செயல்படுத்தப்பட வேண்டும்.
ஏங்கத்தில் இருந்து ஏற்படும் இனடிச்சல் அமை 85 மெ.மீ.ஸ் (85A) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற் கொள்ள வேண்டும்.	
ஏங்க சட்ட விதிகள் 1988 கீழ் ஏங்கத்தில் உண்ட பணிகளுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்குவதோடு கைதளமுள்ள வழிப்பாதை வசதிகளை செய்ய தர வேண்டும்.	
கிராமம் அல்லது பஞ்சாயத்து வழியாக வாகனங்கள் செல்லும் சாலைவை தெரித்து தங்கு பராமரிக்க வேண்டும்.	
ஏங்கப்பணிகளால் அருகில் உள்ள விவசாய பணிகள் மற்றும் தீர்ந்தலைகள் பாதிக்கப்படக் கூடாது.	
தீர்ந்தலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்தல் வகையில் துவத்தல் தீர்ந்தலை தெரித்து உண்டிப்பிக்க வேண்டும்.	
ஏங்கத்திலிருந்து கவிச கொழுக்களை எடுத்துச் செல்லுது கிராம மக்களுக்கு எந்தத் கிரமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்பெடும் மற்றும் கற்றுத்தழல் பாதிக்கவாத வண்ணம் வாகனங்களை இயக்க வேண்டும்.	
ஏங்கப்பணிகள் முடிக்கப்பட்டவுடன் ஏங்க மூடல் திட்டத்தில் உள்ளவாறு ஏங்கத்தினை மூட வேண்டும்.	
ஏங்க நடவடிக்கைகளை முடித்தபின்னர் ஏங்கப் பழுதி மற்றும் ஏங்க நடவடிக்கைகளை இடைபுது ஏற்படக்கூடிய வேறு ஏற்றுப் பழுதியையும் மறுகட்டுமானம் செய்து தரவணக்க விவங்குகள் ஆவியவற்றின் வகைச்சரிக்கு ஏற்ற வகையில் பலகைப்பழுதியை உருவாக்க வேண்டும்.	
முழுமையான நிபந்தனைகளை அறிய பாதிவேல் (http://parivah.in) க்கீழ் இணையதளத்தைப் பார்க்கப்படும் மேலும் எந்தவித கற்றுத்தழல் சந்திப் பணங்களுக்கு சென்சைவில் உள்ள கற்றுத்தழல் மற்றும் வள அமைச்சத்தின் ஒருக்கிணைந்த வட்டார அனுமைகள் 044 – 2822225 (அல்லது) துமித்தாடு மாக கட்டுப்பாடு வாரியத்தின் மாகட்ட கற்றுத்தழல் பெறியணை அனுமையும்.	


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