

STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU

Minutes of 349th meeting of the State Expert Appraisal Committee (SEAC) held on 20.01.2023 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No: 349 –01

(FileNo.6688/2022)

Existing Limestone Quarry over an extent of 7.330 Ha at S.F.No. 382/1 & 3, 387/1 & 3, 512/1 & 3 in Ramayanpatti Village, Manur Taluk, Tirunelveli District, Tamil Nadu by M/s. India Cements Limited - For Environmental Clearance under "Violation Category" (SIA/TN/MIN/411784/2022), Dated: 23.12.2022

The proposal was placed in this 349th meeting of SEAC held on 20.01.2023 and the proponent made presentation on the project. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. India Cements Limited, have applied seeking Environmental Clearance under Violation category for the Existing Limestone Quarry over an extent of 7.330 Ha by M/s. India Cements Limited at S.F.No. 382/1 & 3, 387/1 & 3, 512/1 & 3 in Ramayanpatti Village, Manur Taluk, Tirunelveli District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B" – "Under Violation" of item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. ToR with public hearing for carrying out the EIA study under violation category was issued vide Lr No.SEIAA-TN/F.No.6688/Violation/TOR- 674/2019 Dated: 19.12.2019.

Based on the presentation made by the proponent, SEAC decided that a sub-committee will be formed to carry out on the spot -inspection of the project site to assess the anticipated impacts of mining activity on the surrounding environmental settings and to submit report. The sub-committee may discuss with the DFO concerned on the mitigation measures to be included in EMP as Ganigaikondan Deer sanctuary is located within 10km. On receipt of the same, SEAC would further deliberate on this


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project.

Agenda No: 349-02

(File No.6689/2022)

Existing Limestone Quarry over an extent of 28.430 Ha. S.F.No.380, 381, 383-386, 388/1 & 3, 389-392, 510, 511, 513 & 514 in Ramayanpatti Village, Manur Taluk, Tirunelveli District, Tamil Nadu by M/s. The India Cements Limited – For Environmental Clearance.(SIA/TN/MIN/411329/2022 dated: 20.12.2022)


The proposal was placed in this 349th Meeting of SEAC held on 20.01.2023. 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. The India Cements Limited** has applied for Environmental Clearance for the Existing Limestone Quarry over an extent of 28.430 Ha. S.F.No.380, 381, 383-386, 388/1 & 3, 389-392, 510, 511, 513 & 514 in Ramayanpatti Village, Manur Taluk, Tirunelveli District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category “B” – “Under Violation” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006.
3. ToR under violation **exempting public hearing** was issued vide SEIAA Lr No. SEIAA-TN/F.No.6689/SEAC/TOR- 675/2019 Dated: 19.12.2019.
4. EIA report submitted on 30.12.2022.

Based on the presentation and details furnished by the project proponent, the SEAC decided constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation. The sub-committee may discuss with the DFO concerned on the mitigation measures to be included in EMP as Ganigaikondan Deer sanctuary is located within 10km.

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 Clearance under violation category.


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Agenda No: 349-03

(File No.6690/2022)

Existing Limestone quarry over an extent of 29.895 Ha at S.F.No.110, 172/1 & 174 of Sethurayanpudur Village, Manur Taluk, Tirunelveli District, Tamil Nadu by M/s. The India Cements Limited – For Environmental Clearance.(SIA/TN/MIN/412829/2023 dated: 02.01.2023)


The proposal was placed in this 348th Meeting of SEAC held on 20.01.2023. 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. The India Cements Limited** has applied for Environmental Clearance for the Existing Limestone quarry over an extent of 29.895 Ha at S.F.No.110, 172/1 & 174 of Sethurayanpudur Village, Manur Taluk, Tirunelveli District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category “B” – “Under Violation” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006.
3. ToR under violation **exempting public hearing** was issued vide SEIAA Lr. No.SEIAA-TN/F.No.6690/Violation/ToR-676/2019, dated: 19.12.2019.
4. EIA report submitted on 02.01.2023.

Based on the presentation and details furnished by the project proponent, the SEAC decided constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation. The sub-committee may discuss with the DFO concerned on the mitigation measures to be included in EMP as Ganigaikondan Deer sanctuary is located within 10km.

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 Clearance under violation category.


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Agenda No: 349-04

(File No: 7196/2019)

Proposed Gravel quarry lease over an extent of 4.44.5 Ha in S.F.No 500/1, 500/2 and 316/7, Peruvalapur Village, Lalgudi Taluk, Tiruchirappalli District, Tamil Nadu by Thiru.M.Ramachandran- For Environmental Clearance. (SIA/TN/MIN/44745/2019 Dt.15.10.2019)

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

The SEAC noted the following:


1. The project proponent, Thiru.M.Ramachandran has applied for Environmental Clearance for the proposed Gravel quarry lease over an extent of 4.44.5 Ha in S.F.No 500/1, 500/2 and 316/7, Peruvalapur Village, Lalgudi Taluk, Tiruchirappalli District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 3 years. The mining plan is for the period of 3 years. The total production for 3 years not to exceed 56310 m³ of Gravel with ultimate depth of 3 m BGL.

The proposal has placed in 291st SEAC meeting held on 1.7.2022. Based on the presentation and documents furnished by the project proponent, SEAC noted that there is water body located adjacent to the project site and decided to call for the following details from the PP.

1. The composition/component of the minerals proposed to be quarried shall be tested in any of the laboratories authorized by the Dept of Geology & Mining
2. Since the water body is located adjacent to the project site, the proponent should produce a letter from the Department of Geology and Mining stating that (i) the nearness of water body was taken into account as per the relevant Rules and (ii) the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones.

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



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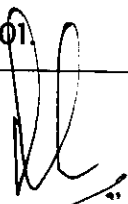

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S. No	Query	Compliance
1	The Composition/Component of the minerals proposed to be quarried shall be tested in any of the laboratory authorised by the Department of Geology and Mining	The soil test report given by Division of Soil Mechanics and Foundation Engineering , Department of Civil Engineering . College of Engineering Guindy Campus, Anna University, Chennai is enclosed
2	Since the water body is located adjacent to the project site, the proponent should produce a letter from Department of Geology and Mining stating (i) the nearness of water body was taken into account as per the relevant rules and (ii) location of the quarry site does not lie adjoining to the rivers, streams, canals, etc., and also does not come under any notified /declared/protected zones.	Letter given by Assistant Director, Department of Geology and Mining, Tiruchirapalli in regarding with this query is enclosed

The proposal was placed in this 349th meeting of SEAC held on 20.01.2023.

Sl. No	Details of the Proposal	: Data Furnished
1	Name of the Owner/Firm	: Thiru. M. Ramachandran, S/o. G. Muthusamy, No. 89/C, KujilianThoppu, Ammamandapam Road, Srirangam, Tiruchirappalli - 621 601


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2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Gravel
3	S.F No. of the quarry site with area break-up	:	500/1, 500/2 and 316/7
4	Village in which situated	:	Peruvalapur
5	Taluk in which situated	:	Lalgudi
6	District in which situated	:	Tiruchirappalli
7	Extent of quarry (in ha.)	:	4.44.50 Ha
8	Period of quarrying proposed	:	3 years
9	Type of mining	:	Opencast Mechanized Mining
10	Production (Quantity in m ³)	:	38,946 m ³ of Gravel
11	Latitude & Longitude of all corners of the quarry site	:	11°01'08"N to 11°01'16"N 78°51'33"E to 78°51'45"E
12	Topo Sheet No.	:	58-1/16
13	Man Power requirement per day:	:	7 Nos
14	Precise area communication approved by District Collector with date	:	Rc. 474/2019/Mines, dated: 09.07.2019
15	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	:	Rc.474/2019/Mines, dated: 23.07.2019
16	Water requirement: 1. Drinking water & domestic purposes (in KLD) 2. Dust Suppression (in KLD) 3. Green Belt (in KLD)	:	3.0 KLD 1.0 KLD 1.5 KLD 0.5 KLD
17	Power requirement a. Domestic Purpose b. Industrial Purpose	:	TNEB 6490 Litres of HSD
18	Depth of quarrying	:	2m bgl
19	Depth of water table	:	26m bgl

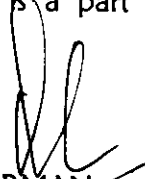
20	Whether any habitation within 300m distance	:	No
21	Project Cost (including EMP cost)	:	Rs. 23,22,000/-
22	EMP cost	:	Capital Cost – Rs.1.5 lakhs Recurring Cost – Rs.4.5 lakhs
23	CER cost	:	Rs. 5,00,000/-
24	Assistant Director, mines 500m cluster letter	:	Rc.No.474/2019/Mines, dated:23.09.2019
25	VAO certificate regarding 300m radius cluster	:	Letter dated 22.07.2019

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the total excavation quantity of 38,946 cu.m of gravel the ultimate depth of mining upto 2m BGL subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The proponent shall mandatorily appoint the statutory competent persons accordingly for the proposed quarry size to satisfy the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
4. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of

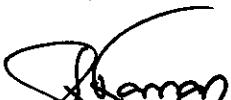

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approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.

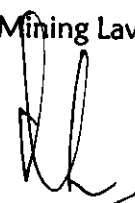
5. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals.
6. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly.
7. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
8. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics.
9. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
10. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
11. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.


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12. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
13. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
15. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
16. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
17. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
18. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
19. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.


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20. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
21. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
22. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under.
23. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
24. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
25. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
26. As accepted by the Project proponent the CER cost is **Rs. 5 lakh** and the amount shall be spent for the committed activities before obtaining CTO from TNPCB.

Agenda No. 349 - 05

(File No.7508/2022)

Proposed Multi Coloured Granite quarry over an extent of 1.28.5 ha in S.F.Nos. 152/1B, 152/3, 152/4B & 534/2 at Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Thiru. P. Loganathan – For, Environmental Clearance (SIA/TN/MIN/142870/2020, dated: 13.02.2020)


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The proposal was placed in the 349th SEAC Meeting held on 20.01.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Thiru. P. Loganathan, has applied for Terms of Reference for the Proposed Multi Coloured Granite quarry over an extent of 1.28.5 ha in S.F.Nos. 152/1B, 152/3, 152/4B & 534/2 at Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu.
2. The project/ activity is covered under Category "B" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.

During the meeting the Committee noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion.

Agenda No. 349-06

(File No.7611/2020)

Proposed Rough Stone & Jelly Quarry lease over an extent of 2.53.5 Ha at S.F.Nos. 304/1, 304/2, 304/3, 304/4, 304/5, 304/6, 304/7, 304/8, 304/9, 304/10, 304/11, 304/12, 304/13, 304/14, 304/15, 304/16, 304/17, 304/25, 304/26, 304/27, 304/28, 304/29, 304/30 of Kothapulli Village, Dindigul West Taluk, Dindigul District, Tamil Nadu by Thiru. R.S. Palanisamy– For Environmental Clearance (SIA/TN/MIN/405535/2022 dated: 10.11.2022).

The proposal was placed in 349th Meeting of SEAC held on 20.01.2023. 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. R.S. Palanisamy, has applied for Environmental Clearance for the Proposed Rough Stone & Jelly Quarry lease over an extent of 2.53.5 Ha at S.F.Nos. 304/1, 304/2, 304/3, 304/4, 304/5, 304/6, 304/7, 304/8, 304/9, 304/10, 304/11, 304/12, 304/13, 304/14, 304/15, 304/16, 304/17, 304/25, 304/26, 304/27, 304/28, 304/29, 304/30 of Kothapulli Village, Dindigul West Taluk, Dindigul District, Tamil Nadu.


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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. Earlier the lease was granted vide District collector proceedings Roc.No.111/2001 (Mines) dated: 10.01.2005 for a period of 5 years from 1.3.2005 to 28.2.2010 and for the second spell lease has been granted to PP vide District collector proceedings Roc.No: 682/2009 (Mines) dated: 05.02.2010 for a period of 5 years from 15.03.2010 to 14.03.2015. The depth of existing pit – 23m BGL.
4. ToR issued vide Letter No. SEIAA-TN/F.No.7611/SEAC/ToR- 970/2021 Dated: 05.07.2021. Earlier in the ToR issued, the depth of mining was restricted from 46m to 41m considering the environmental impacts due to the mining, safety of the working personnel and following the principle of the sustainable mining and consequently the maximum minable quantities of 343622cu.m of Rough stone & 5574cu.m of Topsoil are permitted for mining over five years.
5. Minutes of Public Hearing Conducted on 03.08.2022.
6. EIA Report Submitted on 24.11.2022.
7. It has been observed that the PP is carrying out fencing work and green belt development around the pit.
8. The salient features of the proposal are as follows,

Sl. No	Details of the Proposal	: Data Furnished
1	Name of the Owner/Firm	: Thiru. R.S.Palanisamy S/o. SubbaNaickar No.1/236, RengappaNaickanpatti ReddiyarChatram, Kothapulli Village, Dindigul District - 624622
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone & Jelly Quarry
3	S.F No. of the quarry site with area break-up	: 304/1, 304/2, 304/3, 304/4, 304/5, 304/6, 304/7, 304/8, 304/9, 304/10, 304/11,

			304/12, 304/13, 304/14, 304/15, 304/16, 304/17, 304/25, 304/26, 304/27, 304/28, 304/29, 304/30.
4	Village in which situated	:	Kothapulli
5	Taluk in which situated	:	Dindigul West
6	District in which situated	:	Dindigul
7	Extent of quarry (in ha.)	:	2.53.5Ha
8	Period of quarrying proposed	:	5 years
9	Type of mining	:	Opencast-Mechanized Mining Method
10	Total Excavation Quantity (in m ³)	As per Approved Mining Plan	3,74,102 cu.m of Rough stone & 5574cu.mofTopsoil
		Revised Quantities accepted by the PP and permitted by the SEAC	3,42,262 cu.m of Rough stone & 5574cu.mofTopsoil
11	Annual peak production (Quantity in m ³)		78417 cu.m of Rough stone (2 nd year) & 4140 cu.mofTopsoil (1 st year)
12	Ultimate pit depth as given in Mining Plan		46 m BGL (Existing depth: 23 BGL)
13	Ultimate Pit depth as permitted by the SEAC		41 m Below Ground Level
14	Latitude & Longitude of all corners of the quarry site	:	10°26'59.23" N to 10°27'04.29"N 77°51'27.97" E to 77°51'36.88"E
15	Top Sheet No.	:	58F/15
16	Man Power requirement per day:		22 Nos.
17	Precise area communication approved by the District Collector, Viluppuram District, Viluppuram with date	:	Rc.No. 225/2018(Mines), dated: 24.06.2019


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18	Mining Plan approved by the Assistant Director, Department of Geology and Mining, Viluppuram with date	:	Rc.No. 225/2018(Mines), dated: 16.08.2019
9	AD mines 500m cluster letter	:	Rc. No.225/2018(Mines), dated: 29.09.2020
16	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression & Green Belt (in KLD)	:	2.5KLD 1.0 KLD 1.0 KLD 0.5 KLD
17	Power requirement c. Domestic Purpose d. Industrial Purpose	:	TNEB 3,00,210 Liters of HSD
19	Depth of water table	:	45m BGL in rainy season - 46m BGL in summer
21	Project Cost	:	44.67 Lakhs
22	EMP cost	:	Capital Cost – Rs. 6,47,350 /- Recurring Cost/annum – Rs. 6,84,448/-
23	CER cost	:	5.0 Lakhs
24	VAO certificate regarding 300m radius cluster	:	Letter dated:21.03.2020
25	Habitation & Sensitive structures located within the proximity of the proposed quarry lease	:	Habitaitons located at 400m to 500 m
26	ToR issued	:	ToR issued vide Letter No. SEIAA-TN/F.No.7611/SEAC/ToR- 970/2019 Dated: 05.07.2021
27	Public Hearing	:	03.08.2022
28	EIA Report Submitted dated	:	24.11.2022


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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the total excavation quantity of 3,42,262 cu.m of Rough stone & 5574cu.m of Topsoil restricting the ultimate depth of mining upto 41m BGL considering the safety aspects with the annual peak production shall not exceed 78417 cu.m of Rough stone (2nd year) & 4140 cu.m of Topsoil (1st year) subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier **vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.**
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
4. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
5. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
6. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.


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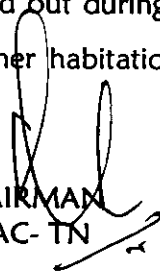

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7. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
8. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
9. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
10. As a part of EC Compliance, the PP shall carry out the tree plantation 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. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia& 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
12. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
13. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the

houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.

14. Since few habitations are situated at a distance range of 1 km from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies in coordination with the other quarry owners located in the cluster domain on 'Design of Suitable blast parameters for reducing the cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarries in the cluster by adopting appropriate controlled blasting techniques', by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
15. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB while considering the adjacent quarries lies in a radial distance of 500 m from their quarry.
16. 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.
17. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
18. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations


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- situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
19. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
 20. The PP shall remove the abandoned shed situated within 300 m from the lease boundary for the safety reasons before obtaining the CTO from the TNPCB.
 21. The PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
 22. 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.
 23. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
 24. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
 25. As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the Government High School, Kothapulli as committed, before obtaining CTO from TNPCB.

CER Activity	Cost allocated for CER Activity (Rs. In Lakhs)
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1. Developing Sanitary facilities Government High School, Kothapulli Village.	5.0
2. Planting one year saplings in and around the school.	
3. Developing modern class by providing projector, Desktop computers.	
Total Cost Allocation	5.0

Agenda No: 349-07


(File No: 7724/2022)

Proposed Rough Stone and Gravel Quarry Project over an extent of 1.03.5 Ha at S.F.No. 648 in Edirkottai Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu by Thiru.S.Jacob Rajamani - for Environmental Clearance (SIA/TN/MIN/ 82045 /2020 Dated 09.08.2022)

The project proposal was placed in this 349th meeting of SEAC held on 20.01.2023 and the proponent made presentation on the project. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The Committee noted that,

1. The Project Proponent, Thiru.S.Jacob Rajamani has applied seeking Environmental Clearance for the Proposed Rough Stone and Gravel Quarry Project over an extent of 1.03.5 Ha at S.F.No. 648 in Edirkottai Village, Vembakottai Taluk, Virudhunagar 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, as amended.
3. ToR Issued vide Lr.No.SEIAA-TN/F.No.7724/SEAC/ToR-834/2021 dated 08.02.2021
4. Public Hearing held on 22.06.2022.

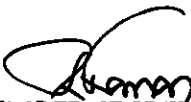

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Sl. No.	Details of the Proposal	
1.	Name of the Owner/Firm	Thiru.S.JacobRajamani No.69/A2, KathiresanKovilTheru Kovilpatti Town and taluk Thoothukudi
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone and Gravel
3.	S.F No. Of the quarry site with area break-up	648
4.	Village in which situated	Edirkottai
5.	Taluk in which situated	Vembakottai
6.	District in which situated	Virudhunagar
7.	Extent of quarry (in ha.)	1.03.5 Ha Government land
8.	Period of quarrying proposed	5 years
9.	Type of mining	Opencast semi Mechanized Mining Method
10.	Production (Quantity in m ³)	Geological Resource: 3,15,950 m ³ of Rough stone and 11,798 m ³ of Gravel to an ultimate depth of 26m 5 year Production is estimated to be 84,368 m ³ of Rough stone & 7,387 m ³ of Gravel to a restricted depth of 24m (as per ToR) The annual peak production shall not exceed 17,290 m ³ of Roughstone (5th year)


11.	Latitude & Longitude of all corners of the quarry site	09°21'56.37"N to 09°22'01.85"N 77°44'26.00"E to 77°44'32.10"E
12.	Top Sheet No.	58 G/11
13.	Man Power requirement per day:	10 Nos.
14.	Precise area communication letter	Na.Ka.No.KV1/516/2019, dated: 17.06.2020.
15.	Mining Plan approval letter	Roc. No.KV1/516/2019, dated: 10.07.2020
16.	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression & Green Belt (in KLD)	2.5 KLD 0.5 KLD 2.0 KLD
17.	Power requirement a. Domestic Purpose b. Industrial Purpose	TNEB -
18.	Depth of quarrying	Restricted depth of 24m (as per ToR)
19.	Depth of water table	60m BGL
20.	Project Cost	Rs. 56,27,040/-
21.	EMP cost	Capital Cost: Rs. 14,44,450 /- Recurring Cost/Annum: Rs. 13,25,815 /-
22.	CER cost	Rs.5 Lakh
23.	500m cluster letter	Roc. No.KV1/516/2019, dated: 10.07.2020
	VAO letter dated	08.07.2020


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Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 84,368 m³ of Rough stone & 7,387 m³ of Gravel to a restricted depth of 24m and the annual peak production as per mining plan is 17,290 m³ of Rough stone (5th year) subject to the standard conditions & normal conditions stipulated by MoEF & CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by the competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification No. S.O. 1807(E) Dt. 12.4.2022.
2. The proponent shall mandatorily appoint the statutory Mines Manager and other competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 respectively.
3. The PP shall communicate the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
4. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
5. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB / mine waste dumps. The drains should be regularly de silted and maintained properly.
6. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
7. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.


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8. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, dump management, dump mining, mineral transportation mode, ultimate depth of mining etc.) shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
9. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
10. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
11. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
12. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
13. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The



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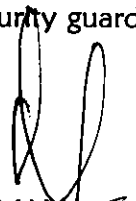
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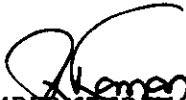
proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.

14. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
15. The proponent shall undertake the phased restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion/abandonment of such operations as assured in the Environmental Management Plan & the approved Mine Closure Plan.
16. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
17. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 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.
18. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
19. The proponent shall ensure that the transportation of the quarried material 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 stones; and transport of stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
20. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.


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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 MMDR Act, 1957, the MCDR 2017 and Tamil Nadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skilful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
23. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
24. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
25. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
26. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
27. The 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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28. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
29. That the grant of this EC is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
30. 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.
31. 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.
32. As accepted by the Project Proponent the CER cost is **Rs. 5 Lakh** and the amount shall be spent for the committed activities before obtaining CTO from TNPCB.

Agenda No: 349-08

(File No: 7735/2022)

Proposed Rough Stone and Gravel Quarry Project over an extent of 1.50.0 Ha at S.F.No. 197(p) Kolumanguzhi Village, Darapuram Taluk, Tiruppur District, Tamil Nadu by Thiru T Jagatheeswaran - for Environmental Clearance (SIA/TN/MIN/ 404495 /2020 Dated 09.08.2022)

The project proposal was placed in this 349th meeting of SEAC held on 20.01.2023 and the proponent made presentation on the project. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The Committee noted that,

1. The Project Proponent, **Thiru. T Jagatheeswaran** has applied seeking Environmental Clearance for the Proposed Rough Stone and Gravel Quarry Project over an extent of 1.50.0 Ha at S.F.No. 197(p) Kolumanguzhi Village, Darapuram Taluk, Tiruppur District, Tamil Nadu.



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2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. ToR Issued vide Lr.No.SEIAA-TN/F.No.7735/SEAC/ToR-832/2021 dated 25.02.2021
4. Public Hearing held on 14.06.2022.

Sl. No.	Details of the Proposal	Data Furnished
1.	Name of the Owner / Firm	T. Jagadeeswaran, S/o. Thangamuthu, No. 4/28, Orampathur, Kolumanguzhi, Dharapuram Taluk, Tiruppur District - 638 703
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough stone and Gravel Quarry
3.	S.F No. of the quarry site with area break-up	197 (P)
4.	Village in which situated	Kolumanguzhi Village
5.	Taluk in which situated	Dharapuram Taluk
6.	District in which situated	Tiruppur District
7.	Extent of Quarry (in ha.)	1.50.0 Ha
8.	Latitude & Longitude of all corners of the quarry site	10°51'59.28"N to 10°52'04.09"N 77°30'03.27"E to 77°30'10.61"E
9.	Topo sheet No.	58 - F/09
10.	Type of Mining	Open cast Mechanized Mining
11.	Period of Quarrying proposed	Five Years
12.	Production (Quantity in m ³)	1,88,045m ³ of Rough stone & 10,584m ³ of Gravel.
13.	Depth of quarrying	36m BGL
14.	Depth of water table	65-60m (BGL)


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15.	Man power requirement per day:	17 Employees
16.	Source of Water Requirement	Vendors and existing bore wells from nearby area
17.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression, Green Belt & Drilling (in KLD)	3.35 KLD 0.65 KLD 1.8 KLD 0.9 KLD
18.	Power requirement: a) Domestic purpose b) Industrial Propose	TNEB 1,55,648 Liters of HSD
19.	Whether any habitation within 300m distance	No
20.	Precise Area Communication approved by the, Assistant Director, Department of Geology and Mining, with date	Rc.No.717/2019/Mines, Dated: 28.02.2020.
21.	Mining plan approved by Assistant Director, Department of Geology and Mining, with date	Rc.No.717/2019/Mines, Dated: 07.05.2020
22.	Assistant Director, Department of Geology and Mining, with date 500mts letter	Rc.No.717/2019/Mines, Dated: 08.05.2020
23.	VAO Certificate regarding 300m Radius letter dated	03.09.2019
24.	Project cost (excluding EMP cost)	Rs.40.16 Lakhs
25.	EMP cost	Rs.3.80 Lakhs
26.	CER cost	5 Lakhs
27.	Validity:	Five years

Based on the presentation and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 188045m³ of Rough Stone and 10584m³ of gravel not exceeding**



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the annual peak production of 40450m³ of Rough Stone (2nd year) and 4059m³ of gravel (3rd year) with maintaining an ultimate pit depth of 36m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
7. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.


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8. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
9. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
10. The PP shall 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.
11. Since the wind mill structure is located at 340 m and few habitations are situated at a distance range of 400-500 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies in coordination with the other quarry owners located in the cluster domain on 'Design of Suitable blast parameters for reducing the cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarries in the cluster by adopting appropriate controlled blasting techniques', by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
12. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
13. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.

14. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
15. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IITs, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
16. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
17. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent towards the Panchyat Union Primary School Thammbureddipalayam for the activities as committed, before obtaining CTO from TNPCB.

Agenda No: 349-09

(File No: 7762/2021)

Proposed Rough Stone and Gravel quarry project over an extent of 2.63.0 Ha in S.F.No. 383/2A1(PART) & 382/2B at Morattupalayam Village, Uthukuli Taluk, Tiruppur District, Tamil Nadu by Thiru.P.Thangamuthusamy- For Environmental Clearance. (SIA/TN/MIN/55451/2020 dated: 24.09.2021)

The project proposal was placed in the 303rd SEAC meeting held on 18.08.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.P.Thangamuthusamy has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of 2.63.0 ha at S.F.No.383/2A1(P) & 382/2B of Morattupalayam Village, Uthukuli Taluk, Tiruppur District, Tamil Nadu.


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2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years and the total quantity of recoverable should not exceed 1,86,290m³ of Rough stone & 2,352m³ of gravel with an ultimate depth of mining is 37m BGL (2m Gravel + 35m Rough stone) [As per ToR issued].
4. ToR issued vide Lr.No.SEIAA-TN/F.No.7762/SEAC/TOR-865/2020 Dated 12.03.2021.
5. Public hearing conducted on 23.08.2021.


Based on the presentation & details furnished by the PP, the SEAC decided to call for the following details.

1. The PP shall furnish the certified compliance report from the MoEF&CC /TNPCB on the Existing EC issued.

On receipt of the reply, the Committee decided to deliberate further and to decide on future course of action.

Now the project proposal was placed in 349th SEAC meeting held on 20.01.2023.

1	Name of the Owner/Firm	Thiru.P.Thangamuthusamy No.104, KomaliThottam PichamapalayamPudur Thottipalayam Tiruppur - 641 602
2	Type of quarrying	Rough stone & Gravel quarry
3	S.F No. Of the quarry site with area break-up	383/2A1(PART) & 382/2B
4	Village in which situated	Morattupalayam
5	Taluk in which situated	Uthukuli
6	District in which situated	Tiruppur


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7	Extent of quarry (in ha.)	2.63.0ha
8	Period of quarrying proposed	5 years
9	Type of mining	Opencast Mechanized Mining
10	Production (Quantity in m ³)	As per the mining plan, the lease period is for 5 years and the total quantity of recoverable should not exceed 1,86,290 m ³ of Rough stone & 2,352 m ³ of gravel with an ultimate depth of mining is 37m BGL (2m Gravel + 35m Rough stone) [As per ToR issued].
11	Latitude & Longitude of all corners of the quarry site	11°08'05.49"N to 11°08'12.66"N 77°25'14.04"E to 77°25'20.06"E
12	Topo Sheet No.	58 E/08
13	Man Power requirement per day:	23 Employees
14	Precise area communication approved by the District Collector Tiruppur District with date	Na.Ka.No.170/2020/Kannimam dated: 16.07.2020.
15	Mining Plan approved by the Deputy Director of Geology and Mining with date	Rc. No. 170/2020/Mines dated: 29.07.2020.
16	AD mines 500m cluster letter Deputy Director of Geology and Mining with date	Rc. No. 170/2020/Mines dated: 29.07.2020.



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17	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression 3. Green Belt (in KLD)	2.5 KLD 0.5 KLD 1.0 KLD 1.0 KLD
18	Power requirement: a. Domestic Purpose b. Machinery Works	TNEB 1,84,454 Liters of HSD
19	Depth of Mining	37m (2m Gravel + 35m Rough Stone) As per ToR
20	Depth of water table	62-58m
21	Whether any habitation within 300m distance	No
22	Project Cost	Rs.57.50 Lakhs
23	EMP cost	Rs.125.24 lakhs
24	CER cost	Rs.5 lakhs
25	VAO letter dated	24.07.2020
26	ToR issued	Lr.No.SEIAA-TN/F.No.7762/SEAC/TOR-865/2020 Dated 12.03.2021.
27	Public Hearing Details	Public hearing conducted on Dated:23.08.2021.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 1,86,290m³ of Rough Stone and 2352m³ of gravel not exceeding the annual peak production of 47530m³ of Rough Stone and 2352m³ of gravel with maintaining an ultimate pit depth of 37m bgl subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


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1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall use the area of excavation shown in section along X1-Y1 & C-D in the 'Year wise Production Plan' of the Mining Plan for the construction of ramp accessibility in the proposed quarry following the DGMS Haul Road guidelines provided under MMR 1961 without deviation.
7. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
8. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the realignment of benches with adequate design considering the safety of men working for the proposed quarry lease as the depth is exceeding 30


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m after having approved by the concerned AD (Geology & Mines) to the DEE/TNPCB before obtaining CTO.

9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
10. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
11. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
12. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry.
13. Within one year from the commencement of mining operations, the PP shall carry out the scientific studies in coordination with the other quarry owners located in the cluster domain on 'Design of Suitable blast parameters for reducing the cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarries in the cluster by adopting appropriate controlled blasting techniques', by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance
14. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be

- diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
17. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
18. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
19. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent towards the Govt High School, Morattupalayam, Tiruppur for the activities as committed, before obtaining CTO from TNPCB.

Agenda No. 349 – 10.

(File No. 7834/2020)

Proposed Rough stone & Gravel quarry lease over an extent of 1.54.5Ha in S.F.Nos.425/2, 425/3, 425/4, 425/5, 425/6A and 425/6B of Kothapuli Village, Dindugal West Taluk, Dindigul District, Tamil Nadu by Tmt.A.Safana Parveen, - for Environmental Clearance. (SIA/TN/MIN/406839/2022, Dt: 17.11.2022)

The proposal was placed in 349th SEAC meeting held on 20.01.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
2. The ToR was issued vide Lr. No. SEIAA-TN/F.No.7834/SEAC/ToR-875/2020


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Dated:12.03.2021to Tmt.A.Safana Parveen, for the proposed Rough stone & Gravel quarry lease over an extent of 1.54.5Ha in S.F.Nos.425/2, 425/3, 425/4, 425/5, 425/6A and 425/6B of Kothapuli Village, Dindugal West Taluk, Dindigul District, Tamil Nadu.

3. Minutes of public hearing conducted on 10.08.2022.
4. Final EIA report submitted on 23.11.2022.
5. Now, the Project Proponent, Tmt.A.Safana Parveen, has applied for Environmental Clearance with EIA report along with minutes of public hearing.
6. The precise area communication/lease is issued for the period of 5 years. The approved mining plan is for the period of five years & production should not exceed 1,58,607 m³of Rough Stone & 9182 m³of Topsoil and the annual peak production shall not exceed 40,657 m³ of rough stone (3rd Year). The ultimate depth is 42m BGL.

Sl. No	Details of the Proposal	: Data Furnished
1	Name of the Owner/Firm	: Tmt.A.Safana Parveen, W/o.Asan Mohamed No.1/10, Anjugam Street East Govindapuram Dindigul West Taluk, Dindigul - 624001
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone
3	S.F No. Of the quarry site with area break-up	: 425/2, 3, 4, 5, 6A and 6B
4	Village in which situated	: Kothapulli
5	Taluk in which situated	: Dindugul West
6	District in which situated	: Dindigul
7	Extent of quarry (in ha.)	: 1.54.5Ha


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8	Latitude & Longitude of all corners of the quarry site	:	10°26'40.50"N to 10°26'45.19"N 77°52'13.22"E to 77°52'18.45"E
9	Topo Sheet No.	:	58 F/15
10	Type of mining	:	Opencast Mechanized of Mining
11	Period of quarrying proposed	:	5 years
12	Production (Quantity in m ³)	:	158607cu.m of rough stone & 9182cu.m of Topsoil
13	Depth of quarrying	:	42m
14	Depth of water table	:	62m-58m below ground level
15	Man Power requirement per day:	:	19 Nos.
16	Source of Water Requirement	:	Water Vendors
17	Water requirement: 4. Drinking & domestic purposes (in KLD) 5. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	3.55 KLD 0.69 KLD 2.5 KLD 0.36 KLD
18	Power requirement c. Domestic Purpose Industrial Purpose	:	TNEB 1,30,794Liters of HSD
19	Whether any habitation within 300m distance	:	No
20	Precise area communication approved by the District Collector with date	:	Na.Ka.No.131/2020(Kanimam), dated:24.07.2020
21	Mining Plan approved by the Deputy Director of Geology and Mining with date	:	Roc. No.131/2020(Mines), dated:17.08.2020
22	AD (Additional Charges), mines 500m cluster letter	:	Roc. No.131/2020(Mines), dated: 17.08.2020
23	VAO certificate regarding 300m radius cluster	:	Letter dated 17.08.2020



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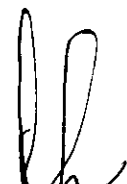
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24	Project Cost (excluding EMP cost)	: 34.29 Lakhs
25	EMP cost	: 3.80 Lakhs
26	CER cost	0.69 Lakhs
27	ToR Issued details	Tor Issued letter No. SEIAA-TN/F. No. 7834/ToR-875/2020 Dated: 12.03.2021
28	Public Hearing Details	Public hearing conducted on: 10.08.2022
29	EIA Report Received	EIA received on: 23.11.2022


Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the ultimate depth of mining upto 42m BGL and the quantity of 1,58,607 m³ of Rough Stone and the annual peak production shall not exceed 40,657 m³ of rough stone (3rd Year) subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF & CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The project proponent shall send the 'Notice of Opening' to the *Regional Inspector / Director of Mines Safety, Chennai* before obtaining CTO from TNPCB and to get prior permission from the DMS.
4. The PP shall send the notice of opening to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.


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5. The PP shall provide Zinc Hoardings & Green mesh of adequate height in the Southern Western direction to prevent habitations from the fly rocks/ fugitive emission during blasting activity.
6. The PP maintain scheduled blasting time and shall displayed at the entrance and nearby habitations.
7. The PP shall carry out the blasting operation twice in a week such that the blasting frequency is reduced to control the environmental impacts due to blasting operation.
8. The PP shall carry out quarrying activity from 7.00 Am to 5.00 PM.
9. The PP shall transport quarried mineral after wetting as wells as the wetting tyres of vehicles so as to mitigate fugitive emissions
10. The proponent shall create a separate bank account and shall deposit the cost allocated for the committed EMP activities every year and the said expenditure details spent on the committed EMP activities shall be maintained & periodically submitted to TNPCB.
11. Since the habitations are located at 300-400m distance from the quarry limit, within one year of the commencement of mining operations, the PP shall carry out the scientific studies on controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
12. The Project Proponent (PP) shall submit an 'Action Plan' for carrying out the realignment of the benches in the existing quarry and shall also furnish a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease as the depth of the proposed quarry is exceeding 40 m to the office of concerned AD (Mines) before obtaining CTO from TNPCB.


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13. 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 40 m (or) after the completion of 3 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IITs, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
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 to be adopted by considering the wind direction.
15. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
16. As accepted by the Project proponent the CER cost is Rs. **5 lakhs** and the amount shall be spent for the Government Panchayat Union Primary School, Kothapulli, Reddiyarchatram Union, Dindigul West Taluk, Dindigul District as committed, before obtaining CTO from TNPCB.


Proposed CER activities.	
1.	Renovation of Existing Toilet.
2.	Providing Smart class equipment.
3.	Overhead projector, White Board etc.,
4.	Carrying out plantation in around school.


Agenda No: 349-11

(File No: 7984/2021)

Proposed Rough Stone quarry lease area over an extent of Extent 2.00.0 Ha at SF.No. 416/35(Part-4), Vinnamangalam Village, Vellore Taluk, Vellore District, Tamil Nadu by Thiru K. Dineshkumar - For Environmental Clearance. (SIA/TN/MIN/180421/2020 Dt. 29.3.2021)

The proposal was placed for appraisal in this 349th meeting of SEAC held on



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20.01.2023. The details of the project furnished by the proponent are given in the website(parivesh.nic.in).

The SEAC noted the following:


1. The project proponent, Thiru K. Dineshkumar has applied for Environmental Clearance for the proposed Rough Stone quarry lease area over an extent of Extent 1.42.0Ha at SF.No. 416/35(Part-4), Vinnamangalam Village, Vellore Taluk, Vellore District, Tamil Nadu. It is a Govt. Promboke land.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 10 years. The production for 5 years not to exceed 3,85,648 m³ of Rough stone. The Annual peak production as per mining plan is 114026m³ of rough stone with proposed depth of 51m(31m AGL + 20m BGL).
4. Earlier, this proposal was placed before 263rd meeting of SEAC held on 9.4.2022. Based on the presentation and document furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the certain conditions.
5. Subsequently, it was placed before 508th SEIAA meeting held on 19.5.2022. After detailed discussion, the Authority decided to refer back the proposal to SEAC, after the receipt of following additional particulars with reference to project life (or) subject to a maximum of thirty years, whichever is earlier.
 - a. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the following
 - a) Soil health & bio-diversity.
 - b) Climate change leading to Droughts, Floods etc.
 - c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature & Livelihood of the local people.
 - d) Possibilities of water contamination and impact on aquatic ecosystem health.
 - e) Agriculture, Forestry & Traditional practices.


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- b. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the project life (or) subject to a maximum of thirty years whichever is earlier.
 - c. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities.
 - d. Detailed Mine Closure Plan covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
 - e. Detailed Environment Management Plan covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
6. Based on the reply of PP for the above-mentioned queries raised in 508th SEIAA meeting held on 19.05.2022, the proposal was placed in 286th SEAC meeting held on 17.06.2022. During the meeting the EIA Coordinator has stated that the proposed project site is located nearer to the Villakaradu RF and will produce the letter from DFO concerned stating the exact distance of RF with respect to the project site.
7. Based on the reply furnished by the proponent, the proposal was placed in the 307th SEAC meeting held on 26.08.2022. Based on the presentation made by the PP, SEAC noted that the vellakkal RF of vaniyambadi range is situated at a distance of 1.30km from the proposed site vide Lr.C.No.2640/2022/D Dated: 12.08.2022. Hence, SEAC decided to **recommend the proposal for the grant of Environmental Clearance.**
8. Subsequently, the proposal was placed in the 552nd Authority meeting held


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on 19.09.2022.

After detailed discussion, the Authority noted that

- i. As per the KML file uploaded by the proponent in online through Parivesh portal, it is ascertained that the proposed mine lease boundary is located at a distance of 895m from the Reserved Forest.
- ii. To authenticate the letter issued by DFO Tirupathur, a letter may be obtained from principal Chief Conservator of Forest indicating the distance between the proposed mine lease boundary and the nearest dense forest.
- iii. The proponent shall submit the details regarding the queries raised in 508th SEIAA meeting held on 19.05.2022.

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

Now, this proposal was placed for appraisal in this 322nd meeting of SEAC held on 19.10.2022. During the meeting the EIA Coordinator requested to postpone and reschedule the meeting. Hence, the proposal was not taken up for appraisal.

Now the proposal was placed for reappraisal in this 349th meeting of SEAC held on 20.01.2023. The PP has furnished a detailed reply covering the points raised by SEIAA. Based on the presentation and documents furnished by the project proponent, SEAC decided to confirm the recommendation already made in 307th meeting of SEAC held on 26.08.2022. All other conditions stipulated in the earlier minutes will remain unaltered.

Agenda No: 349 - 12


(File No: 8082/2022)

Proposed Multicolour Granite quarry lease over an extent of 3.21.5Ha at S.F.No. 1158/8, 1158/9, 1160/3A, 1160/4, 1161/2(P), 1161/3(P), 1161/4A (P), 1161/5(Part), 1166/5(P) at Irudhukottai Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Thiru.V.Jayaprakash – For Environmental Clearance. (SIA/TN/MIN/402051/2022, dated: 01.10.2022)


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The proposal was placed in this 329th meeting of SEAC held on 16.11.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The project proponent gave detailed presentation. SEAC noted the following:

1. The Proponent, Thiru. V.Jayaprakash has applied seeking Environmental Clearance for the proposed Multicolour Granite quarry lease over an extent 3.21.5Ha at S.F.No. 1158/8, 1158/9, 1160/3A, 1160/4, 1161/2(P), 1161/3(P), 1161/4A (P), 1161/5(Part), 1166/5(P) at Irudhukottai Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu.
2. The total areas under the 500m cluster is 13.90.0 ha as per the AD, letter and hence the project/activity is covered under Category "B1" of item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The PP had obtained the EC on 23.10.2015 for the ROM quantity of 5000 cu.m with anticipated production quantity of 1000 cu.m @20% recovery for a depth of 10 m for a production schedule of 2015 to 2020.
4. Further, the PP had applied for the first scheme of mining for the total quantity of 1,30,464 cu.m of ROM which includes 78,278 m³ of multi-colour Granite @ 60%recovery along with 52,186 cu.m of Granite waste & 11,259 cu.m of top soil for a depth of mining of 31m below groundlevel (1 m top soil + 30 m Granite). However, the ultimate pit depth is shown as 41 m as per the approved Mining Plan submitted earlier.
5. The Assistant Director (i/c) (G&M), Krishnagiri has scrutinized the application and reported that the scheme of mining was verified with the field conditions and found to be correct. Therefore, precise communication letter provided by the competent authority shows that no mining operation was carried earlier in the same survey no of lease area. Hence, there is no violation noticed in the subject quarry. Based on the recommendation of Assistant Director (i/c), (G&M), Krishnagiri, the First Scheme of Mining as a part of the Mining Plan was approved by Director, Department of Geology and Mining, Chennai vide Rc.No.3623/MM4/2020 dated 12.09.2020.


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6. The proponent had submitted a letter dated: 20.09.2021 regarding change of consultant for carrying out EIA EMP and no objection letter issued by the previous consultant who prepared ToR for the proponent.
7. ToR issued vide Lr No.SEIAA-TN/F.No.8082/SEAC/ToR-1021/2021 Dated: 26.08.2021.
8. Public Hearing conducted on 01.07.2022.
9. EIA Report submitted on 12.10.2022.
10. Earlier the proposal was placed in 329th SEAC meeting held on 16.11.2022.

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

1. The PP shall submit Certified Compliance Report for the quarrying operation carried out earlier under the EC granted in 2015.

Subsequently, the proposal was placed in 574th SEIAA meeting held on 29.11.2022. The Authority decided that in addition to the above queries, the proponent shall submit the following details.

As per the Scheme of mining submitted by the proponent in online through Parivesh Portal it is ascertained that

Year	Proposed		Achieved		Period
	ROM (m ³)	Production @ 20% (m ³)	Production (m ³)	Despatch (m ³)	
2015 – 2016	1000	200	184.50	Nil	Approved Mining Plan
2016 – 2017	1000	200	226.62	Nil	
2017 – 2018	1000	200	220.23	Nil	
2018 – 2019	1000	200	246.91	873.141	
2019 – 2020	1000	200	118.44	Nil	
Total	5000	1000	996.7	873.141	


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The proponent had carried out mining operation in the year 2015, 2016, 2017 and 2018 without obtaining NBWL clearance till 07.11.2018 and further had operated the mine without obtaining Consent to Operate (CTO) till 20.07.2020 from Tamil Nadu Pollution Control Board (TNPCB).

1. Hence, the proponent is requested to clarify and assess the ecological damage caused by mining during the period 2015 to 07.11.2018 without obtaining NBWL clearance and field restrictions.
2. Further, as per the approved quantity, at the end of 4th year, PP should have mined out and transported only 800 Cbm. But PP had despatched 873Cbm which is 73Cbm excess than the approved quantity as per the approved scheme of mining submitted. Hence, the proponent is requested to clarify regarding the same.
3. As per the Precise Area Communication letter issued vide Lr.No.1564/MME2/2013-1 Dated 2014,
 - iii. A safety distance of 10mts. Should be provided and maintained on either side of the "pathai" poramboke passing North-South direction on the central portion of the applied area situated in SF No. 1158/2 & 1160/2 and present status on ground should be maintained throughout the lease period.

Hence, from the above, it is ascertained that a path traverses inside the area and the path bifurcates the applied lease area into two separate portions. Hence, based on the condition imposed, the proposed mine lease area now becomes non-contiguous. Hence, the proponent is requested to clarify the above.

In view of the above, SEIAA referred back the proposal to SEAC to examine the above-mentioned queries in addition to the queries raised by SEAC.

The proposal is for mining of Multi Coloured Granite, the salient features of the proposal are as follows:


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Sl. No	Details of the Proposal	: Data Furnished
1	Name of the Owner/Firm	: Thiru.V.Jayaprakash No.301, HIG, Phase 10 New Temple Land HUDCO, Rayakottai Road Hosur, Krishnagiri District - 635109
2	Type of quarrying	: Multicolour Granite
3	S.F No. of the quarry site	: 1158/8, 1158/9, 1160/3A, 1160/4, 1161/2(P), 1161/3(P), 1161/4A (P), 1161/5(Part), 1166/5(P)
4	Village in which situated	: Irudhukottai
5	Taluk in which situated	: Denkanikottai
6	District in which situated	: Krishnagiri
7	Extent of quarry (in ha.)	: 3.21.5 Ha
8	Latitude & Longitude of all corners of the quarry site	: 12°25'37.03"N to 12°25'46.60"N 77°50'28.00"E to 77°50'37.42"E
9	Topo Sheet No.	: 57 H/15
10	Type of mining	: Opencast Mechanized Mining
11	Period of quarrying proposed	: 5 years
12	Production (Quantity in m ³)	: ROM – 1,30,464 m³ production quantity of 78,278 m³ of Grey Granite & Waste – 52,186 m³
13	Depth of quarrying	: 31m BGL
14	Depth of water table	: Depth of Summer season = 55m Depth of Rainy season= 50m
15	Man Power requirement per day:	: 25 Nos.
16	Water requirement: 4. Drinking & domestic purposes	: 2.5 KLD 0.8 KLD


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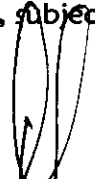
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	5. Dust suppression		1.2 KLD
	6. Green Belt		0.5 KLD
17	Power requirement e. Domestic Purpose		TNEB 1,50,560 Litres HSD
18	Precise area communication approved by the Industries(MME.2) Department, with date	:	G.O.(3D) No.29 Industries (MME.2) Department, dated 29.10.2015
19	Mining Plan approved by Joint Director, Department of Geology and Mining with date	:	Rc.No.3623/MM4/2020, dated 12.09.2020
20	Assistant Director, Department of Geology and Mining 500m cluster letter		Roc.466/2020/Mines dated 22.07.2020
21	VAO certificate regarding 300m radius cluster		Letter dated: 06.10.2020
22	Project Cost (excluding EMP cost)	:	Rs. 2,44,48,000
23	EMP cost	:	Capital Cost: Rs. 25,76,000 Recurring Cost- Rs. 13,88,052
24	CER cost		Rs.5,00,000/-
25	ToR Issued Details	:	Letter. No. SEIAA-TN/F.No.8082/SEAC/ToR-1021/2021 Dated: 26.08.2021
26	Public Hearing Conducted on	:	31.05.2022
27	EIA Report submitted on	:	12.10.2022

Now the proposal was placed for reappraisal in this 349th meeting of SEAC held on 20.01.2023. The PP has furnished a detailed reply covering the points raised by SEIAA along with additional details called for. Based on the presentation and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for ROM – 1,30,464 m³, production quantity of 78,278 m³ of Grey Granite and Waste – 52,186 m³ for an annual peak production of 17,373 m³ of Multi Coloured Granite (1stYear) up to a depth of 31m BGL, subject to the**


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

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by the competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification No. S.O. 1807(E) Dt. 12.4.2022.
2. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall adhere the EMP as committed.
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 shall contribute Rs.5 Lakhs for the initiatives taken for successful implementation of the Sustainable Development Framework (SDF).
4. The proponent is requested to prepare Standard Operating Procedure for using Diamond Wire Saw Cutting method before obtaining CTO.
5. 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.
6. The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
7. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
8. The PP shall 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.


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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.
11. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
12. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
13. 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 MoEF & CC, 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.
14. 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


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- 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.
15. 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.
 16. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
 17. The PP shall also develop the Green belt around the office buildings, along the side of the roads and on backfill areas, if any, apart from along the mine lease boundary. 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.
 18. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing
 19. As per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
 20. **Dust, Noise and Vibration Related:** Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and



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health aspects. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed. Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.

21. The impact on fauna species in the mining area is mostly due to noise vibration and loss of vegetation cover. No working is proposed during night time, i.e., after 6 pm. No lighting is allowed to spread outside quarry lease area.
22. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarry as assured in the Environmental Management Plan & the approved Mine Closure Plan.
23. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
24. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
25. The proponent shall 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.


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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 Granite Conservation and Development Rules 1999, the MCDR 2017 and Tamil Nadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skilful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
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 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.
31. 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.
32. All the conditions imposed by the concerned Assistant/Deputy Director, Geology & Mining, in the mining plan approval letter and the Precise area communication letter issued by the concerned District Collector should be strictly followed.
33. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat / local representatives, if any, from whom any suggestion/representation has been received while processing the proposal.
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


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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.

35. As accepted by the Project Proponent the revised CER cost is Rs. 5 lakhs and the amount shall be spent for Government Middle school, Thoddikuppam before obtaining CTO from TNPCB.

Agenda No. 349 - 13

(File No.8110/2022)

Proposed Rough Stone & Gravel quarry over an extent of 2.51.0 ha in S.F.Nos. 881/1, 882 (P) & 893/4 at PavithramVillage, PugalurTaluk, Karur District, Tamil Nadu by Tvl.Sri Ganesh Murugan Blue Metals – For Environmental Clearance (SIA/TN/MIN/ 407871/2022, dated: 24.11.2022)

The proposal was placed in the 349thSEAC Meeting held on 20.01.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Tvl. Sri Ganesh Murugan Blue Metals, has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry over an extent of 2.51.0 ha in S.F.Nos. 881/1, 882 (P) & 893/4 at Pavithram Village, Pugalur Taluk, Karur District, Tamil Nadu.
2. The project/ activity is covered under Category “B1” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification,2006.
3. As per the mining plan, the lease period is for 5 years. The mining plan is for the period of 5 years. The total production for 5 years not to exceed 1,52,342m³ of Rough Stone and 36,448 m³of Gravel with ultimate depth of 35m BGL (2m – Gravel&33m – Rough Stone).
4. TOR was issued vide Lr No.SEIAA-TN/F.No.8110/SEAC/ToR- 931/2020 Dated: 16.04.2021.
5. Restricting the maximum depth of mining from 40m to 35m considering the environmental impacts due to the mining, safety of the working personnel and following the principle of the sustainable mining and consequently the maximum


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minable quantities of Rough stone & 36448cu.m of Gravel are permitted for mining over five years.

6. Public Hearing was conducted on: 31.05.2022.

7. EIA Report was submitted on: 29.11.2022.

SEAC noted that there is a shed within 200m, and directed the EIA consultant shall examine the impact of the proposed activity and include appropriate mitigation measures in EMP. On receipt of the details, further deliberations will be done.

Agenda No. 349 - 15


(File No.8117/2022)

Proposed Rough Stone & Gravel quarry over an extent of 1.01.0 ha in S.F.Nos. 79/2A (P) at Myleripalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu by Thiru. K. Shanmugam – For Environmental Clearance (SIA/TN/MIN/ 408536 /2022, dated: 29.11.2022)

The proposal was placed in the 349th SEAC Meeting held on 20.01.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Thiru.K.Shanmugam, has applied for Terms of Reference for the Proposed Rough Stone & Gravel quarry over an extent of 1.01.0 ha in S.F.Nos. 79/2A(P) at Myleripalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu.
2. The project/ activity is covered under Category “B” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. The mining plan is for the period of 5 years. The total production for 5 years not to exceed 61,573 m³ of Rough Stone and 2520 m³ of Gravel with ultimate depth of 38m BGL.
4. TOR was issued vide Lr No. SEIAA-TN/F.No.8117/SEAC/ToR- 945/2020 Dated: 27.04.2021.
5. Public Hearing was conducted on: 30.05.2022.


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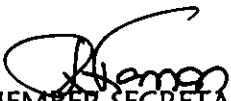
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6. EIA Report was submitted on: 02.12.2022.

During the presentation, SEAC noted that from the KML, it is construed that southern portion of the applied lease area has been quarried after 2018 without valid Environmental Clearance. Further, the precise area communication letter and mine plan approval letter have not mentioned about the quarrying activity carried out after the expiry of the mine lease period, i.e., 2018. Hence, AD/Mines shall inspect the quarry site and give his comments on the existing site condition along with last Bulk transport permit issued by Department of Geology and Mining to the lessee.

At 2018




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After 2018



AGENDA No: 349-14

(File No: 8116/2020)

Proposed Earth Quarry lease over an extent of 1.11.5 Ha in S.F.Nos. 136/1C of Elamanam Village, Manapparai Taluk, Tiruchirappalli District, Tamil Nadu by Tmt. V.Kohila – For Environmental Clearance. (SIA/TN/MIN/185898 /2020, dated 09.12.2020)

The proposal was placed in the 349th meeting of SEAC held on 20.01.2023 and the project proponent made a presentation of the project. 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. V.Kohila has applied seeking Environmental Clearance for the pproposed Earth Quarry lease over an extent of 1.11.5 Ha in S.F.Nos. 136/1C of Elamanam Village, Manapparai Taluk, Tiruchirappalli 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 EIANotification,2006, as amended.


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Sl. No.	Details of the Proposal	
1.	Name of the Owner/Firm	Tmt.V.Kohila No.12/151, KalathuVeedu, SadayampattyKumaravadi Village Elamanam Post, Elangakurichi Via Manapparai Taluk, Tiruchirapalli District - 621302
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Earth
3.	S.F No. Of the quarry site with area break-up	136/1C
4.	Village in which situated	Elamanam
5.	Taluk in which situated	Manapparai
6.	District in which situated	Tiruchirappalli
7.	Extent of quarry (in ha.)	1.11.5 Ha Patta land
8.	Period of quarrying proposed	2 years
9.	Type of mining	Opencast semi mechanized mining with no drilling/blasting
10.	Production (Quantity in m3)	Geological Reserves: 22,300m ³ of Earth to an ultimate depth of 2m BGL. 2 -year production is estimated to be 15,132m ³ of Earth to an ultimate depth of 2m BGL The annual peak production shall not exceed 7,566 m ³ .


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11.	Latitude & Longitude of all corners of the quarry site	10°29'21.21"N to 10°29'24.83"N 78°16'36.86"E to 78°16'41.92"E
12.	Top Sheet No.	58- J/07
13.	Man Power requirement per day:	7 Nos.
14.	Precise area communication letter	Rc. No. 695/2019/Mines, dated 14.08.2020
15.	Mining Plan approval letter	Rc.No. 695/2019/Mines, dated 19.11.2020
	Water requirement:	1.0 KLD
	1. Drinking & domestic purposes (in KLD)	0.3 KLD
	2. Dust suppression & Green Belt (in KLD)	0.7 KLD
16.	Power requirement d. Domestic Purpose e. Industrial Purpose	TNEB
17.	Depth of quarrying	2m BGL
18.	Depth of water table	30m from ground level
	Project Cost	Rs.8,25,000/-
19.	EMP cost	Capital Cost: Rs. 3,80,350/- Recurring Cost/Annum: Rs. 1,66,350/-
20.	CER cost	Rs.2 Lakh
21.	500m cluster letter	Rc.No. 695/2019/Mines, dated 19.11.2020
22.	VAO letter dated	Letter dated 30.10.2020

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the period of 2 Years for the production quantity of 15,132 m³ of Earth to the ultimate


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depth of 2m BGL and the and the annual peak production as per mining plan is 7566m³ of Earth subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The proponent shall request the concerned AD (Geology & Mining) to make suitable amendments in the name of minor mineral as Ordinary Earth instead of Earth as per G.O. MS.No.244 Dt:14.12.2022 during execution of mining lease.
2. The proponent shall mandatorily appoint the statutory competent persons accordingly for the proposed quarry size to satisfy the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
3. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
4. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
5. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
6. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals.
7. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly.
8. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working


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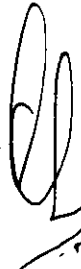

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methodology to be adopted by considering the wind direction.

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



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


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

AGENDA No: 349-16


(File No: 8130/2022)

Proposed Rough Stone & Gravel Quarry lease over an extent of 0.89.5Ha in S.F.Nos.17/1A1B of Velampalayam Village, Palladam Taluk, Tiruppur District, Tamil Nadu by Tmt.B.Radhika – For Environmental Clearance. (SIA/TN/MIN/58946/2022, dated 19.09.2022)

The proposal was earlier placed in the 330th meeting of SEAC held on 17.11.2022 and a power point presentation was made on the proposed project. 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.B.Radhika has applied seeking Environmental Clearance for the Proposed of Rough Stone & Gravel Quarry lease over an extent of 0.89.5Ha in S.F.Nos.17/1A1B of Velampalayam Village, Palladam Taluk, Tiruppur District, Tamil Nadu.


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2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006, as amended.
3. ToR issued vide Lr No. SEIAA-TN/F.No.8130/SEAC/ToR-925/2020 Dated: 16.04.2021 Restricting the maximum depth of mining from 26m to 21m considering the environmental impacts due to the mining, safety of the working personnel and following the principle of the sustainable mining and consequently the maximum minable quantities of 76,420cu.m of Rough stone & 6,096cu.m of Gravel are permitted for mining over a period of 5 years.
4. Public Hearing conducted on 19.04.2022
5. EIA report submitted on 19.09.2022

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

- The existence of the structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses whether it belonging to the owner (or) not belonging to the owner; with number of occupants, places of worships, if any, factories, sheds, etc.

Hence, after detailed discussions and deliberations, the committee decided to consider the proposal after the submission of aforesaid details by the Proponent/consultant.

The details called for were furnished by the proponent on 26.12.2022. Hence the proposal was taken up for discussion in this 349th meeting of SEAC held on 20.01.2023.

Sl. No.	Details of the Proposal	
1.	Name of the Owner/Firm	Tmt.B.Radhika, W/o. Balasubramanian (Late) No.286, KuttaiThottam, Semmedu, Velampalayam Village, Palladam Taluk, Tiruppur – 641 663


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2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone and Gravel
3.	S.F No. Of the quarry site with area break-up	17/1A1B
4.	Village in which situated	Velampalayam
5.	Taluk in which situated	Palladam
6.	District in which situated	Tiruppur
7.	Extent of quarry (in ha.)	0.89.5Ha patta land
8.	Period of quarrying proposed	5 years
9.	Type of mining	Opencast Mechanized Mining Method
10.	Production (Quantity in m3)	Geological Reserves: 2,23,650 m ³ of Rough stone and 8,946 m ³ of Gravel to an ultimate depth of 26m. 5 -year production is estimated to be 76,420 m ³ of Rough stone & 6,096 m ³ of Gravel to a restricted depth of 21m BGL (as per ToR) The annual peak production shall not exceed 18,060 m ³ (2 nd year)
11.	Latitude & Longitude of all corners of the quarry site	11°03'50.48"N to 11°03'52.93"N 77°16'29.78"E to 77°16'34.89"E
12.	Topo Sheet No.	58- E/08
13.	Man Power requirement per day:	14Nos.


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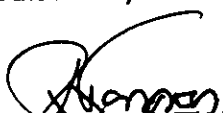
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14.	Precise area communication letter	Na. Ka. No. 931/2018/Kanimam, dated: 19.06.2020
15.	Mining Plan approval letter	Roc. No. 931/2018/Mines, dated: 07.07.2020
	Water requirement: 3. Drinking & domestic purposes (in KLD) 4. Dust suppression & Green Belt (in KLD)	2.0 KLD 0.5 KLD & 1.0 KLD 0.5 KLD
16.	Power requirement f. Domestic Purpose g. Industrial Purpose	TNEB 64,940 Liters of HSD
17.	Depth of quarrying	Restricted depth of 21 m BGL (20 m Rough Stone + 1m Gravel) as per ToR
18.	Depth of water table	62m-58m
	Project Cost	Rs. 51,07,000/-
19.	EMP cost	Capital Cost: Rs. 14,88,650 /- Recurring Cost/ Annum: Rs. 12,68,832 /-
20.	CER cost	Rs.5 Lakh
21.	500m cluster letter	Roc. No. 931/2018/Mines, dated: 07.07.2020
22.	VAO letter dated	Letter dated 18.08.2020

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total production quantity of 76,420 m³ of Rough stone & 6,096 m³ of Gravel to a restricted depth of 21m BGL by maintaining the bench height of 5m and not exceeding the annual peak production capacity of 18,060m³ of Rough Stone (2nd year) subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:


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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 No. S.O. 1807(E) Dt12.4.2022.
2. The Project Proponent (PP) shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region before obtaining the CTO and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operations as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
4. The Project Proponent (PP) shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
5. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit as recommended in the DGMS Circular, 11/1959 before obtaining the CTO from TNPCB.
6. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
7. Due to cluster situation, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia & 1.5 m length) only and NONEL shock tube initiation system with **muffling techniques** to ensure that no flyrock / throw travels beyond 10 m from the blasting.
8. The PP shall carry out the 'Line drilling' operations in every blast such that the shock wave produced from the blast site does not travel beyond 100 m towards the direction of the habitations.


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9. No 'Deep-hole large diameter drilling and blasting' is carried out in the proposed quarry.
10. The PP shall carry out the blasting operation twice in a week such that the blasting frequency is limited to the extent for ensuring the control of blast-induced environmental impacts.
11. The PP shall carry out the scientific studies within a period of **six months** from the commencement of mining operations, for reducing the 'Cumulative impact of blast-induced ground/air vibrations, fly rock and dust by adopting suitable Controlled Blasting Operations', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without deviation.
12. The PP shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the existing benches properly aligned for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
13. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, 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.
14. Further, the PP shall furnish necessary application to the Regional Inspector of Mines, DGMS, Chennai Region (DMS, Chennai) for obtaining the relaxation as per the provisions given in the Reg. 106 & Reg. 111 of MMR 1961 while working in the cluster situation within a period of six months from the commencement of mining operation.


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15. The PP shall install high rise fencing with wire mesh to eliminate the possibility of propagation of the dust cloud towards the habitations area.
16. Since the quarry site lies in the cluster situation, the PP shall furnish a 'Standard Operating Procedure' for carrying out the safe method of carrying out the controlled blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
17. 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.
18. The PP shall ensure that the blasting operations are carried out by only the statutory persons like Blaster/Mine Mate/Mine Foreman directly employed by him as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
19. The PP shall ensure that adequate measures are taken to control the propagation of dust at the source level along the haulroads leading to the highways & village panchayat roads where the trucks are plying with loaded material.
20. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
21. The PP shall undertake suitable measures for the socio-economic development in the villages situated around the quarry.
22. 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.
23. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
24. The proponent shall create a separate bank account and shall deposit the amount demarcated for the committed EMP activities every year in advance and the said expenditure details spent on the committed EMP activities shall be maintained & submitted to TNPCB once in 6 months.


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25.As a part of EC Compliance, 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

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

27.As accepted by the Project proponent the CER cost is **Rs. 5.0 lakh** and the amount shall be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.

Agenda No: 349-17

(File No: 8253/2021)


Proposed Earth Quarry Project over an extent of 3.33.0 Ha at S.F.No. 243/1(p) PWD Tank at Vidayur Village, Tiruvallur Taluk Tiruvallur District, Tamil Nadu by Tmt. Shakila, - for Environmental Clearance (SIA/TN/MIN/ 191062 /2021 Dated 20.1.2021)

The project proposal was placed in this 349th meeting of SEAC held on 20.01.2023 and the proponent made presentation on the project. The details of the project furnished by the proponent are available on the PARIVESH web portal(parivesh.nic.in).

The Committee noted that,

1. The Project Proponent, **Tmt. Shakila** has applied seeking Environmental Clearance for the Proposed Earth Quarry Project over an extent of 3.33.0 Ha at S.F.No.243/1(p) PWD Tank at Vidayur Village, Tiruvallur Taluk Tiruvallur 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, as amended.
3. It is a PWD Tank desilting project for the period of 60 days.

Sl. No	Details of the Proposal	:	Data furnished
1	Name of the Owner/Firm	:	Tmt. S. Shakila, W/o. Sidhartha.


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		No.22/7G2, Apoorva Flats, KarumariyammanKovil Street, Alagiri Nagar, Vadapalani, Chennai - 26.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Ordinary Earth
3	S.F No. of the quarry site with area break-up	: 243/1 (Part)
4	Village in which situated	: No.110 Vidaiyur
5	Taluk in which situated	: Tiruvallur
6	District in which situated	: Tiruvallur
7	Extent of quarry (in ha.)	: 3.33.0 Ha
8	Period of quarrying proposed	: 60 days
9	Type of mining	: Opencast Semi Mechanized Mining
10	Production (Quantity in m ³)	: 29,970 m ³ / 4,995 Lorry Loads of Ordinary Earth
11	Latitude & Longitude of all corners of the quarry site	: 13°06'36.36"N to 13°06'29.03"N 79°50'15.63"E to 79°50'10.54"E
12	Topo Sheet No.	: 57-O/16
13	Man Power requirement per day:	: 6 Nos
14	Precise area communication approved by District Collector with date	: Na.Ka.No.60/2019/Kanimam.2, dated:19.11.2020
15	Mining Plan approved by Assistant Director (i/c), Department of Geology and Mining with date	: Rc.No.60/2019/G&M-2, dated:17.12.2020
16	Water requirement: 7. Drinking water (in KLD)	: 1.0 KLD 1.0 KLD
17	Power requirement h. Domestic Purpose	: TNEB


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18	Depth of quarrying	:	0.90m
19	Depth of water table	:	38m bgl
20	Whether any habitation within 300m distance	:	No
21	Project Cost (including EMP cost)	:	Rs. 6,29,000/-
22	EMP cost	:	Capital Cost – Rs.1.00 lakhs Recurring Cost – Rs.0.50 lakhs/annum
23	CER cost	:	Rs. 50,000/-
24	Assistant Director, mines 500m cluster letter	:	Rc.No.60/2019/G&M-2, dated:17.12.2020
25	VAO certificate regarding 300m radius cluster	:	Letter dated 22.12.2020


Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the period of 60days for the production quantity of 29,970 m³ m³ of Earth to the ultimate depth of 0.9m BGL subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The proponent shall request the concerned AD (Geology & Mining) to make suitable amendments in the name of minor mineral as Ordinary Earth instead of Earth as per G.O. MS.No.244 Dt:14.12.2022 during execution of mining lease..
2. The proponent shall mandatorily appoint the statutory competent persons accordingly for the proposed quarry size to satisfy the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
3. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
4. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.


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5. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
6. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals.
7. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly.
8. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
9. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics.
10. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
11. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.


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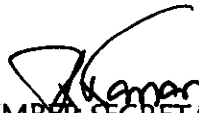
12. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
13. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
14. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
15. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
16. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such licence or lease is granted, as per
17. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
18. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
19. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same


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shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.

20. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
21. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
22. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
23. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under.
24. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
25. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
26. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
27. As accepted by the Project proponent the CER cost is **Rs. 2 lakh** and the amount shall be spent for the committed activities before obtaining CTO from TNPCB.


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Agenda No: 349-18

(File No: 8272/2022)

Proposed Rough Stone & Gravel quarry Lease over an extent of 14.85.5 Ha at S.F.No.718 (Part), 719/1A (Part), 722/1, 722/2 & 730/3 in Padmanabamangalam Village, Srivaikundam Taluk, Thoothukudi District, Tamil Nadu by M/s. Shri Venkateshwara Construction Materials & Industries – For Environmental Clearance (SIA/TN/MIN/405367/2022 dated 05.11.2022)

The proposal was placed in 349th meeting of SEAC held on 20.01.2023. The details of the project are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, **M/s. Shri Venkateshwara Construction Materials & Industries** has applied for Environmental Clearance for the **Proposed Rough Stone & Gravel quarry Lease over an extent of 14.85.5 Ha at S.F.No.718 (Part), 719/1A (Part), 722/1, 722/2 & 730/3 in Padmanabamangalam Village, Srivaikundam Taluk, Thoothukudi 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.

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

- i) A revised approved mining plan after leaving a minimum distance of 2.1 km from the Vallanadu Black Buck Sanctuary located in the vicinity of the project site.
- ii) The mitigation measures for the Vallanadu Black Buck Sanctuary as suggested by District Forest Officer.
- iii) Revised CER cost and activity towards 4 Government & Panchayat Union schools in the locality.


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

Agenda No: 349-19

(File No: 8273/2021)

Proposed Rough Stone, Jelly and Soil quarry lease area over an extent of 2.89.0 Ha at SF.No. 183 of Ramapuram Village, Agastheeswaram Taluk, Kanniyakumari District, Tamil Nadu by Tmt.S.Jeganakumari - For Environmental Clearance.


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(SIA/TN/MIN/191556/2021, dated: 25.01.2021).

The proposal was placed in 313th Meeting of SEAC held on 22.09.2022. The details of the project furnished by the proponent are available in the website (www.parivesh.nic.in).

The SEAC noted the following:

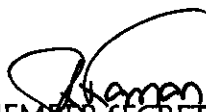
1. The project proponent, Tmt.S.Jeganakumari has applied for Environmental Clearance for the Proposed Rough Stone, Jelly and Soil quarry lease area over an extent of 2.89.0 Ha at SF.No. 183 of Ramapuram Village, Agastheeswaram Taluk, Kanniyakumari District, Tamil Nadu
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.

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

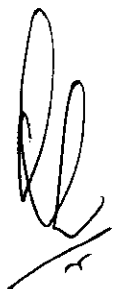
1. The project proponent shall furnish documentary evidence from the concerned District Forest Officer showing the distance between the nearest R.F and the proposed quarry site.
2. The project proponent shall conduct a survey at a radial distance of 100m, 200m, 300 m and 500 m from the proposed quarry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

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

On receipt of the reply, the Committee decided to deliberate further and to decide on future course of action.


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Agenda No: 349-20

(FileNo: 8285/2021)

Proposed Rough Stone Quarry lease over an extent of 0.82.0Ha in S.F.Nos.80/20, 80/21, 80/22 of Melur Village, Kulathur Taluk, Pudukottai District, Tamil Nadu by R.Muthusamy -Environmental Clearance- Regarding. (SIA/TN/MIN/77262/2021,dated:25.05.2022)

The proposal was placed for appraisal in this 349th meeting of SEAC held on 20.01.2023. 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 Project Proponent, Thiru.R.Muthusamy has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 0.82.0 Ha at S.F.Nos. 80/20, 80/21 & 80/22 at Melur Village, Kulathur Taluk, Pudukottai District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. The mining plan is for the period of 5 years. The total production for 5 years not to exceed 64,576m³ of Rough Stone for an annual peak production of 17,988 m³(3rd Year) with ultimate depth of 27m BGL (2m – Top Soil & 25m – Rough Stone).
4. TOR was issued vide Lr No.SEIAA-TN/F.No.8285/SEAC/ToR- 940/2021 Dated: 27.04.2021.
5. Public Hearing was conducted on: 07.04.2022.
6. EIA Report was submitted on: 27.05.2022.
7. Earlier the proposal was placed in 303rd SEAC meeting held on 18.08.2022. Based on the presentation made by the proponent, SEAC noted and decided to call for details as follows
 1. SVS International College of Architecture is at a distance of 375m from the proposed lease area. Hence, the PP is requested to furnish 'Not Functioning' letter from the Tahsildar, as PP claims that the college is not functioning in recent years.


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2. The PP shall furnish the Revised Mining Plan approved by the competent authority.
3. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the following
 - Soil health & bio-diversity.
 - Climate change leading to Droughts, Floods etc.
 - Pollution leading to release of Greenhouse gases (GHG), rise in Temperature & Livelihood of the local people.
 - Possibilities of water contamination and impact on aquatic ecosystem health.
 - Agriculture, Forestry & Traditional practices.
 - Hydrothermal/Geothermal effect due to destruction of the Environment.
 - Bio-geochemical processes and its foot prints including environmental stress.
 - Sediment geochemistry in the surface streams.
 - a. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the project life (or) subject to a maximum of thirty years whichever is earlier.
 - b. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities.
 - c. To furnish risk assessment and management plan including


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anticipated vulnerabilities during operational and post operational phases of Mining.

- d. Detailed Mine Closure Plan covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
- e. Detailed Environment Management Plan includes adaptation, mitigation & remedial strategies covering the project life (or) subject to a maximum of thirty years, whichever is earlier.

On receipt of the above details, SEAC would further deliberate on this project and decide the further course of action. Subsequently, the proposal was placed in 548th Authority meeting held on 01.09.2022. Further, the Authority after detailed deliberation decided to call for additional details.

1. The impact of mining on the agricultural fields nearby.
2. The impact on the vegetation due to mining.
3. The impact on Ground Water quality and Table within 1km radius from the proposed mine lease area shall be furnished.
4. Is the proponent part of cluster management committee.

The proposal is for mining of Rough Stone Quarry the salient features of the proposal are as follows:

Sl. No	Details of the proposal	:	Data furnished
1	Name of the Owner/Firm	:	R.Muthusamy S/o.Rengasamy, No.663,Vellanur Post Kulathur Taluk Pudukottai District-622501
2	Type of quarrying	:	Rough Stone Quarry
3	S.F No. Of the quarry site	:	80/20,80/21,80/22
4	Village in which situated	:	Melur
5	Taluk in which situated	:	Kulathur
6	District in which situated	:	Pudukottai


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7	Extent of quarry (in ha.)	: 0.82.0Ha
8	Period of quarrying proposed	: 5 years
9	Type of mining	OpencastMechanized Method of Mining
10	Production (Quantity in m ³)	: Rough stone: 64,578 m ³
11	Latitude & Longitude of all corners of the quarry site	: 10°26'55.93"N to 10°26'59.62"N 78°46'26.18"E to 78°46'26.28"E
12	Top Sheet No.	: 58-J/15
13	Man Power requirement per day:	15Nos.
14	Precise area communication approved by the District Collector with date	: Rc.No.207/2020(G&M), dt.30.11.2020
15	Mining Plan approved by the Deputy Director of Geology and Mining with date	: Roc.No.207/2020(G&M), dt.28.12.2020
16	Water requirement: 8. Drinking & domestic purposes (in KLD) 9. Dust suppression & Green Belt (in KLD)	: 1.5 KLD 0.5 KLD 0.5 KLD 0.5 KLD
17	Power requirement: a. Domestic Purpose b. Industrial Purpose	TNEB 107948 Liters of HSD
18	Depth of quarrying	: 27m (2m Topsoil+25m of Rough stone)
19	Depth of water table	: 55m-47m
20	Project Cost (excluding EMP cost)	: 45.5Lakhs
21	EMP cost	: 3.20 Lakhs
22	CER cost	5 Lakhs
23	AD mines 500m cluster letter	: Roc.No.207/2020(G&M), dt.29.12.2020


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24	VAO certificate regarding 300m radius cluster	V.A.O Letter Furnished
25	ToR Issued Details	: Letter. No. SEIAA-TN/F.No.8285/SEAC/ToR-940/2020 Dated: 27.04.2021
26	Public Hearing Conducted on	: 07.04.2022
27	EIA Report submitted on	: 27.05.2022


Now the proposal was placed for reappraisal in this 349th meeting of SEAC held on 20.01.2023, since the PP has submitted the details. Based on the presentation and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for quantity of 64,578 m³ of Rough Stone for an annual peak 45,131 m³ Rough stone (3rd year) with ultimate depth of 27 m (2m – Top Soil & 25m – Rough Stone) BGL, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:**

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC notification No. S.O. 1807(E) Dt12.4.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operations as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall communicate the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
4. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.


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5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
7. The PP shall carry out the shallow depth Jack hammer drilling (of 32-34 mm dia & 1.5 m depth) & NONEL initiation based 'controlled' blasting operation involving muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 20 m from the blast site.
8. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.
9. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
10. The PP shall carry out the scientific studies on design of controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock in the proposed quarry, by involving a reputed Research and Academic Institution such as NIRM, IIT (ISM)/Dhanbad, Anna University Chennai-Dept of Mining Engg, NIT Surathkal-Dept of Mining Engg, and any CSIR Laboratories etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.


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11. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease as the depth of the proposed quarry is exceeding 40 m after having approved by the concerned AD (Geology & Mines) to the DEE/TNPCB before obtaining CTO.
12. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving 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.
13. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
14. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
15. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
16. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
17. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent to the committed activities for Panchayat Union Primary School, Nakkeerar Vayal Village before obtaining CTO from TNPCB.


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Agenda No. 349 – 21.

(File No. 9564/2022)

Proposed Rough Stone and Gravel Quarry over an extent of 1.98.5Ha at SF.No.148/1, 148/3A1B & 148/4A of Kottaiyur Village, Kallakurichi Taluk, Kallakurichi District, Tamilnadu by M/s.Oriental Structural Engineers Pvt Ltd - for Environmental Clearance. (SIA/TN/MIN/406271/2022, Dt: 12.11.2022)

The proposal was placed in 349th SEAC meeting held on 20.01.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The proposed quarry/activity is covered under Category “B2” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006.
2. Now, the Project Proponent, TVI. Oriental Structural Engineers Pvt Ltd has applied for Environmental Clearance for the proposed Rough Stone and Gravel Quarry over an extent of 1.98.5Ha at SF.No.148/1, 148/3A1B & 148/4A of Kottaiyur Village, Kallakurichi Taluk, Kallakurichi District, Tamilnadu.
3. The precise area communication/lease is issued for the period of 5 years. The approved mining plan is for the period of five years & production should not exceed 2,10,296 m³ of Rough Stone & 28774 m³ of Gravel and the annual peak production shall not exceed 71,270 m³ of Rough stone (3rd Year). The ultimate depth is 40m BGL.

Sl. No	Details of the Proposal	: Data Furnished
1	Name of the Owner/Firm	: TVI.Oriental Structural Engineers Pvt Ltd., Periyakomattai Village, Mutlur post, Bhuvanagiri Taluk, Cuddalore District – 608501, Tami Nadu State.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone and Gravel
3	S.F No. Of the quarry site with area break-up	: 148/1, 148/3A1B & 148/4A



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4	Village in which situated	:	Kottaiyur
5	Taluk in which situated	:	Kallakurichi
6	District in which situated	:	Kallakurichi
7	Extent of quarry (in ha.)	:	1.98.5Ha
8	Latitude & Longitude of all corners of the quarry site	:	11°38'36.49"N to 11°38'42.58"N 79°10'19.68"E to 79°10'26.40"E
9	Topo Sheet No.	:	58 – M/02
10	Type of mining		Opencast Semi - Mechanized of Mining
11	Period of quarrying proposed	:	5 years
12	Proposed Production (Quantity in m ³)	:	210296m ³ of Rough Stone & 28744m ³ of Gravel
13	Revised Production (Quantity in m ³)		1,79,584 m ³ of Rough Stone &21326 m ³ of Gravel excluding XIY1- CD section (30712 m ³ of Rough Stone &7448 m ³ of Gravel) considering safety, sustainable mining & conservation of minerals.
14	Depth of quarrying	:	40m
15	Depth of water table	:	55m – 50m BGL
16	Man Power requirement per day:		16 Nos.
17	Source of Water Requirement		water vendors
18	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt &Wet Drilling (in KLD)	:	3.7 KLD 1.0 KLD 1.5 KLD 1.0 KLD
19	Power requirement a. Domestic Purpose		TNEB


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	b. Industrial purpose		17030Liters of HSD
20	Whether any habitation within 300m distance	:	No
21	Precise area communication approved by the, District Collector, Department of Geology and Mining with date	:	Rc.No.B/G&M/75/2022, dt: 30.11.2022
22	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	:	Roc.No.B/G&M/75/2022, dt: 10.11.2022
23	Assistant Director(i/c), Department of Geology and Mining 500m cluster letter	:	Roc.No.B/G&M/75/2022, dt: 10.11.2022
24	VAO certificate regarding 300m radius cluster		Letter dt: 10.11.2022.
25	Project Cost (excluding EMP cost)	:	Rs.147.14 Lakh
26	EMP cost	:	Capital cost Rs.47.64 Lakhs Recurring Cost Rs. 67.95 Lakhs
27	CER cost		Rs.8.0 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance except XIYI- CD section (30712 m³of Rough Stone &7448 m³of Gravel) considering safety, sustainable mining & conservation of minerals for the ultimate depth of mining upto 40m BGL and the quantity of 1,79,584 m³of Rough Stone &21326 m³of Gravel and the annual peak production shall not exceed 71,270 m³ of Rough stone (3rd Year) subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.


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2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The project proponent shall obtain prior permission from Regional Inspector of *Directorate General of Mines Safety, Chennai* before obtaining CTO from TNPCB.
4. The PP shall send the notice of opening to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
5. The PP shall provide Zinc Hoardings & Green mesh of adequate height in the required direction to prevent structures from the fly rocks/ fugitive emission during blasting activity.
6. The PP shall carry out quarrying activity from 6.00 Am to 6.00 PM.
7. The PP shall transport quarried mineral after wetting as wells as the wetting tyres of vehicles so as to mitigate fugitive emissions.
8. The proponent shall create a separate bank account and shall deposit the cost allocated for the committed EMP activities every year and the said expenditure details spent on the committed EMP activities shall be maintained & periodically submitted to TNPCB.
9. Within one year of the commencement of mining operations, the PP shall carry out the scientific studies on controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock, by involving a reputed Research and Academic Institution such as NIRM, IITs, Anna University Chennai-Dept of Mining Engg, NIT Surathkal, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
10. The Project Proponent (PP) shall submit an 'Action Plan' for carrying out the realignment of the benches in the existing quarry and shall also furnish a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease as the depth of the proposed quarry is


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exceeding 40 m to the office of concerned AD (Mines) before obtaining CTO from TNPCB.

11. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 40 m (or) after the completion of 3 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IITs, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
12. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
13. 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.
14. As accepted by the Project proponent the CER cost is Rs. 8 Lakhs and the amount shall be spent for the following Government Schools as committed, before obtaining CTO from TNPCB.

I. Government Higher Secondary School, Asanur.

CER Activity	CER Cost
Government Higher Secondary School, Asanur	
RO- Water facility	Rs.50,000/-
Toilet facility	Rs.1,50,000/-
Laboratory chemicals, Instruments	Rs.1,00,000/-
Painting for Buildings	Rs.1,00,000/-
Plantation in school Ground & Village Road	Rs.50,000/-
Environmental related book for Library	Rs.50,000/-
Total Cost Allocation	Rs.5,00,000/-


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II. Government Boys Higher Secondary School, Tittagudi.

CER Activity	CER Cost
Government Boys Higher Secondary School, Tittagudi Village	
RO-Water facility	Rs.50,000/-
Toilet facility	Rs.80,000/-
Plantation in school Ground & Village Road	Rs.10,000/-
Environmental related book for Library	Rs.10,000/-
Total Cost Allocation	Rs.1,50,000/-

III. Government Girls Higher Secondary School, Tittagudi.

CER Activity	CER Cost (Rs in Lakh)
Government Girls Higher Secondary School, Tittagudi Village	
RO- Water facility	Rs.50,000/-
Toilet facility with incineration	Rs.80,000/-
Plantation in school Ground & Village Road	Rs.10,000/-
Environmental related book for Library	Rs.10,000/-
Total Cost Allocation	Rs.1,50,000/-

Agenda No.349 – 22.

(File No. 9017/2022)

Proposed Rough stone and Gravel quarry project over an extent of 4.52.0 Ha in S.F.Nos. 3/1, 3/2 & 4/1 of Viralipatti Village, Nilakkottai Taluk, Dindigul District, Tamil Nadu by Thiru Adyar Granites - For Environmental Clearance (SIA/TN/MIN/254415/2022 dated: 17.02.2022)

Earlier, this proposal was placed in this 281st Meeting of SEAC held on 03.06.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

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


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Sl. No	Details of the Proposal	
1	Name of the Owner/Firm	: Tvl.Adyar Granites Reg Office. No.15/113-2 KBC Complex Laikkadu, Perunai Post Changanacherry, Kattyam Kerala State-626102
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone & Gravel
3	S.F No. Of the quarry site with area break-up	: 3/1, 3/2 & 4/1
4	Village in which situated	: Viralipatti
5	Taluk in which situated	: Nilakottai
6	District in which situated	: Dindigul
7	Extent of quarry (in ha.)	: 4.52.0Ha
8	Latitude & Longitude of all corners of the quarry site	: 10°07'02.42"N to 10°07'13.50"N 77°45'00.91"E to 77°45'08.34"E
9	Topo Sheet No.	: 58 – F/16
10	Type of mining	: Opencast Mechanized Method of Mining
11	Period of quarrying proposed	: 10 years
12	Production (Quantity in m ³)	: As per mining plan, the lease period is 10 years. The mining plan is for the period of 10 years & the production should not exceed 758190 Cu.m. of Rough Stone, 50763 Cu.m of Gravel and 31995 cu.m. of Weathered Rock. The annual peak production 86610 Cu.m. of Rough Stone


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		(4 th year), 17851.5 Cu.m of Gravel (2 nd year) and 11415 Cu.m. of Weathered Rock (2 nd year). The ultimate depth – 47.5 m BGL.
13	Depth of quarrying	: 47.5m below ground level
14	Depth of water table	: 66m-61m BGL
15	Man Power requirement per day:	38 Nos.
16	Source of Water Requirement	water vendors & Borewell
17	Water requirement: 5. Drinking & domestic purposes (in KLD) 6. Dust suppression, Green Belt & Wet Drilling (in KLD)	: 3.3KLD 0.8 KLD 1.5 KLD 1.0 KLD
18	Power requirement a. Domestic Purpose b. Industrial Purpose	TNEB 314478Liters of HSD
19	Whether any habitation within 300m distance	: No
20	Precise area communication approved by the, District Collector, Geology and Mining with date	: Rc.No.169/2021(Kanimam), dt:11.11.2021
21	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Rc.No.169/2021(Mines), dt: 07.12.2021


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22	Assistant Director, Department of Geology and Mining 500m cluster letter	Rc.No.169/2021(Mines), dt: 07.12.2021
23	VAO certificate regarding 300m radius cluster	Letter dt: 11.07.2022.
24	Project Cost (excluding EMP cost)	: Rs.125.13 Lakhs
25	EMP cost	: Capital - Rs.11.40Lakhs Rcurring Cost – Rs. 22.38 Lakhs
26	CER cost	Rs.5 Lakhs

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

1. The project proponent shall upload Mining Plan in parivesh portal website (parivesh.nic.in).
2. The project proponent shall furnish details of all the structures 300 m radial distance from the proposed quarry site.

The proponent has furnished reply vide lr. Dt: 14.07.2022. In this connection, the proposal was again placed in this 307th SEAC Meeting held on 26.08.2022.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance considering the safety aspect the ultimate depth of mining upto 47.5 m BGL and the quantity of 758190 Cu.m. of Rough Stone, 50763 Cu.m of Gravel and 31995 cu.m. of Weathered Rock 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.



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2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
3. Within two years of the commencement of mining operations, the PP shall carry out the scientific studies on controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock, by involving a reputed Research and Academic Institution such as NIRM, IIT (ISM)/Dhanbad, Anna University Chennai-Dept of Mining Engg, NIT Surathkal-Dept of Mining Engg, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance within two years of commencement of quarrying operations.
4. The Project Proponent (PP) shall submit an 'Action Plan' for carrying out the realignment of the benches in the existing quarry and shall also furnish a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease as the depth of the proposed quarry is exceeding 40 m after having approved by the concerned AD (Geology & Mines) to the DEE/TNPCB before obtaining CTO.
5. 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 40 m (or) after the completion of 3 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IITs, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
6. The PP shall carry out the controlled blasting using jack hammer drilled holes (32-34 mm dia& 1.5 m length) and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation. The PP shall also ensure that the controlled blasting operation shall


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be carried in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the 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. Further, the PP shall obtain prior permission to carry out aforesaid controlled blasting operation from the Director of Mines Safety (DMS), Chennai Region before obtaining the CTO.

7. The blasting activities shall be carried out safely under direct supervision of statutory competent person such as Blaster (or) Mine Mate who are directly employed by the PP.
8. 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.
9. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Adhidhiravidar Primary School, Viralipatti Village, Nilakottai Taluk, Dindigul as committed, before obtaining CTO from TNPCB.

Subsequently, the proposal was placed in the 552nd Authority meeting held on 20.09.2022. The Authority after detailed discussion decided to refer back to SEAC after the receipt of certain additional particulars from the project proponent as stated therein.

In this connection, the project proponent has furnished reply vide Lr. dt:08.10.2022 received on 23.11.2022. This proposal was again placed in 349th SEAC meeting held on 20.01.2023. The Committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to reiterate its recommendation already made in 307th Meeting of SEAC held on 26.08.2022. All other conditions stipulated in the earlier minutes will remain unaltered.

Agenda No: 349-23


(File No: 7992/2022)

Proposed Rough Stone quarry Lease over an extent of 2.00.0 Ha at S.F.No. 306 (Part-II) in Pannapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru.P.Madhu Premanathan- for Environmental Clearance. (SIA/TN/MIN/406436/2022 Dated 14.11.2022)


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Earlier, the proposal was placed in 334th meeting of SEAC held on 02.12.2022. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **Thiru.P.Madhu Premanathan** has applied for Environmental Clearance for the proposed Rough Stone quarry Lease over an extent of 2.00.0 Ha at S.F.No. 306 (Part-II) in Pannapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the project are as follows:

Sl. No	Details of the Proposal	
1	Name of the Owner/Firm	Thiru.P.MadhuPremanathan, S/o.Premanathan D.No.489, Ungatti, Doripalli, Shoolagiri Taluk, Krishnagiri District-635109.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone
3	S.F No. Of the quarry site	306 (Part -II)
4	Village in which situated	Pannapalli
5	Taluk in which situated	Shoolagiri
6	District in which situated	Krishnagiri
7	Extent of quarry (in ha.)	2.00.0Ha
8	Period of quarrying proposed	5 years
9	Type of mining	Opencast Semi Mechanized Mining
10	Production (Quantity in m ³)	As per mining plan, the lease period is 5 years. The mining plan is for the period of five years & the production quantity as per the ToR issued dated.16.03.2021


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		is 6,39,206m ³ of Rough Stone and 21,660 m ³ of Topsoil with an ultimate depth of mining 59m (22m AGL + 37m BGL).
11	Latitude & Longitude of all corners of the quarry site	12°45'28.00"N to 12°45'22.72"N 77°59'48.90"E to 77°59'47.30"E
12	Top Sheet No.	57 – L/2
13	Man Power requirement per day:	18 Nos.
14	Precise area communication issued by the District Collector with date	Na.Ka.En.224/2019/Kanimam/ dated:13.06.2019
15	Mining Plan approved by the Deputy Director, Dept. of Geology and Mining with date	Rc.No.224/2019/mines, Dated:24.06.2019
16	Water requirement: 7. Drinking & domestic purposes 8. Dust suppression 9. Green Belt	5.53 KLD 0.67 KLD 4.5 KLD 0.36 KLD
17	Power requirement	5,22,586 Liters of HSD for entire project life
18	Depth of quarrying	59m (22m AGL + 37m BGL)
19	Depth of water table	65m
20	Project Cost (excluding EMP cost)	Rs. 1,84,00,000/-
21	EMP cost	Capital cost : 2085000/- Recurring cost : 2798436/-
22	500m cluster letter issued by Joint Director/ Assistant Director (Addl Charge), Dept of Geology and Mining with date	Rc.No.224/2019/mines, Dated:15.10.2019


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23	VAO certificate regarding habitations in 300m radius	Letter dated 14.10.2019
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Based on the presentation and details furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the revised total production quantity of **5,45,425m³ of rough stone and 21,660m³ of topsoil with annual production capacity of not exceeding 131880 m³ of rough stone for ultimate depth of 52 m** subject to the conditions stated therein.

Subsequently, the proposal was placed in the 581st Authority meeting held on 22.12.2022. The authority, after detailed discussions, decided to refer back the proposal to SEAC for seeking clarification/ details on the following points from the proponent:

- (i) The EMP furnished for 10 years is very sketchy with 5% cost inflation. Near actual for every year to be worked out indicating the items of works to be taken up for every year clearly.
- (ii) Details of work/ strategies to be executed for the mitigation of Environmental damages to be indicated every year for 10 years.
- (iii) The proponent shall clarify whether the 5% inflation assumed be sufficient to handle the expenses as the years advance.
- (iv) The impact of mining on vegetation and Bio-diversity and the plan/ strategy to mitigate them shall be provided for 10 years with cost breakup.
- (v) The impact on agriculture, soil erosion and water table shall be studied and the plan/ strategy to mitigate them shall be provided for 10 years with cost breakup.
- (vi) Water and energy conservation measures and the cost required for their implementation shall be provided for 10 years.
- (vii) The EMP should cover the detailed budget for every year for air, water, noise and waste management including green belt.

In view of the above, the proposal is again placed in this 349th SEAC meeting held on 20.01.2023 for re-appraisal.


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The project proponent gave a re-presentation incorporating the details requested by SEIAA. The committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to **reiterate its recommendation** already made in 334th Meeting of SEAC held on 02.12.2022. All other conditions stipulated in the earlier minutes will remain unaltered.


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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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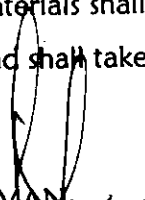
7. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
8. The Project Proponent shall 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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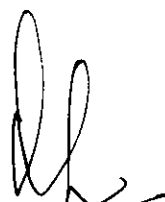
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Project Proponent liable for legal action in accordance with Environment and Mining Laws.

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	வில்லம்
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சளடி, ஆனைக்குன்றிமணி
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>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமர
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புனை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொண்டை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொண்டை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கோங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நடுவூலி
18	<i>Creteva adansonii</i>	Mavalingum	மாவினங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sebum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகை
23	<i>Ficus amplissima</i>	Kallitchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பூக்க
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம், ஆயிலி
27	<i>Lannea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	வில்லா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பின்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
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	ஈச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Munnai	முண்டை
41	<i>Premna serratifolia</i>	Narumunnai	நடு முண்டை
42	<i>Premna tomentosa</i>	Malipoovarasu	மலை யுரை
43	<i>Prosopis cinerea</i>	Vanni maram	வாணி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேனிங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கரிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புகள் சோபுகையி
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yeti	யெடி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாங் கேட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்டி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேனி மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தா வெம்பு
58	<i>Thespesia populnea</i>	Puvarasu	புரை
59	<i>Walsuratrifoliata</i>	valsura	வாலசூரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கெடுக்காப்பளி


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**Appendix -II
Display Board**

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


-----**கரங்கம்**-----

கரங்கம் களில் குவாரி செயல்பாடுகளுக்கான சுற்றுச்சூழல் அனுமதி கீழ்க்கண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEIAA/____, தேதி____, பட்டி____, சுற்றுச்சூழல் அனுமதி _____ தேதி வரை செல்லத்தக்கதாக உள்ளது.

<p>பகலம் பகுதி வளர்ச்சி செயல்பாடுக்கான அடிக்கட்டுகள்</p> <p>பட்டி____ பராமதிக்கப்பட்ட வேண்டிய அடிக்கட்டுகள்</p>	<p>குவாரியின் எல்லைகளில் சுற்றி வேலி அமைக்க வேண்டும்.</p> <p>அடிக்கட்டுகளின் ஆரம் தராமட்டத்தில் குத்து பிட்டிக்கு மிசைஸ் இடக்க வேண்டும்.</p> <p>காந்தில் மர ஏற்படாதவாறு அடிக்கட்டுகளை வெட்டுவதற்கான வேண்டும்.</p> <p>வாகனங்கள் செல்லும் பாதையில் மர ஏற்படாத அளவிற்கு தனித்தனியாக குவாரியின் எல்லைகளில் குவாரியின் முன்பாக அமைப்பதற்கான வேண்டும்.</p> <p>இடைக்கால அமைப்புகள் ஓரிடம் மரங்களைப் குவாரியின் எல்லைகளில் சுற்றி அடத்தியான பகலம் பகுதியை ஏற்படுத்த வேண்டும்.</p>
<p>அடிக்கட்டுகளில் வெடி வைக்கப்படாமல் நிறுத்திவைக்க ஏற்படாதவாறு மற்றும் அதன் பறக்காதவாறு பராமதிக்கப்பட்ட வேண்டும்.</p>	<p>அடிக்கட்டுகளில் இடத்து ஏற்படும் இடைக்கால அமைப்பு 35 செ.மீ.யில் (35A) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த வட்டுப்பாடுகளை வெட்டு வேண்டும்.</p>
<p>அடிக்கட்டுகளில் வெடி வைக்கப்படாமல் நிறுத்திவைக்க ஏற்படாதவாறு மற்றும் அதன் பறக்காதவாறு பராமதிக்கப்பட்ட வேண்டும்.</p>	<p>அடிக்கட்டுகளில் வெடி வைக்கப்படாமல் நிறுத்திவைக்க ஏற்படாதவாறு மற்றும் அதன் பறக்காதவாறு பராமதிக்கப்பட்ட வேண்டும்.</p> <p>கிராமம் அல்லது பகுதியில் வெடி வைக்கப்படாமல் நிறுத்திவைக்க ஏற்படாதவாறு மற்றும் அதன் பறக்காதவாறு பராமதிக்கப்பட்ட வேண்டும்.</p>
<p>அடிக்கட்டுகளில் வெடி வைக்கப்படாமல் நிறுத்திவைக்க ஏற்படாதவாறு மற்றும் அதன் பறக்காதவாறு பராமதிக்கப்பட்ட வேண்டும்.</p>	<p>அடிக்கட்டுகளில் வெடி வைக்கப்படாமல் நிறுத்திவைக்க ஏற்படாதவாறு மற்றும் அதன் பறக்காதவாறு பராமதிக்கப்பட்ட வேண்டும்.</p>
<p>அடிக்கட்டுகளில் வெடி வைக்கப்படாமல் நிறுத்திவைக்க ஏற்படாதவாறு மற்றும் அதன் பறக்காதவாறு பராமதிக்கப்பட்ட வேண்டும்.</p>	<p>அடிக்கட்டுகளில் வெடி வைக்கப்படாமல் நிறுத்திவைக்க ஏற்படாதவாறு மற்றும் அதன் பறக்காதவாறு பராமதிக்கப்பட்ட வேண்டும்.</p>
<p>அடிக்கட்டுகளில் வெடி வைக்கப்படாமல் நிறுத்திவைக்க ஏற்படாதவாறு மற்றும் அதன் பறக்காதவாறு பராமதிக்கப்பட்ட வேண்டும்.</p>	<p>அடிக்கட்டுகளில் வெடி வைக்கப்படாமல் நிறுத்திவைக்க ஏற்படாதவாறு மற்றும் அதன் பறக்காதவாறு பராமதிக்கப்பட்ட வேண்டும்.</p>
<p>அடிக்கட்டுகளில் வெடி வைக்கப்படாமல் நிறுத்திவைக்க ஏற்படாதவாறு மற்றும் அதன் பறக்காதவாறு பராமதிக்கப்பட்ட வேண்டும்.</p>	<p>அடிக்கட்டுகளில் வெடி வைக்கப்படாமல் நிறுத்திவைக்க ஏற்படாதவாறு மற்றும் அதன் பறக்காதவாறு பராமதிக்கப்பட்ட வேண்டும்.</p>
<p>அடிக்கட்டுகளில் வெடி வைக்கப்படாமல் நிறுத்திவைக்க ஏற்படாதவாறு மற்றும் அதன் பறக்காதவாறு பராமதிக்கப்பட்ட வேண்டும்.</p>	<p>அடிக்கட்டுகளில் வெடி வைக்கப்படாமல் நிறுத்திவைக்க ஏற்படாதவாறு மற்றும் அதன் பறக்காதவாறு பராமதிக்கப்பட்ட வேண்டும்.</p>


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