

STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU

Minutes of 351st meeting of the State Expert Appraisal Committee (SEAC) held on 3.02.2023 (Friday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saldapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No. 351 – 01

(File No. 8632/2021)

Proposed Rough Stone Quarry lease over an extent of 2.13.0Ha at S.F.No.75 of S.F.No.187/1A, 187/1B, 188 and 189 of Gopanapalli Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by M/s. A. S. Enterprises - for Environmental Clearance.
(SI/VTN/MIN/407066/2022, dt.18.11.2022)

The proposal was placed in 351st SEAC meeting held on 03.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The 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. 8632/ToR-1014/2021 Dated: 26.08.2021 to M/s. A. S. Enterprises for the proposed Rough Stone Quarry lease over an extent of 2.13.0Ha at S.F.No.75 of S.F.No.187/1A, 187/1B, 188 and 189 of Gopanapalli Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
3. Minutes of public hearing conducted on 29.06.2022.
4. Final EIA report submitted on 23.11.2022
5. Now, the Project Proponent, M/s. A. S. Enterprises has applied for Environmental Clearance with EIA report along with minutes of public hearing for the proposed Rough Stone Quarry lease over an extent of 2.13.0Ha at S.F.No.75 of S.F.No.187/1A, 187/1B, 188 and 189 of Gopanapalli Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
6. The precise area communication/lease is issued for the period of 10 Years. The approved mining plan is for the period of five years & production should not exceed 230340 cu.m of Rough Stone, 617204 of Topsoil and the annual peak production shall not exceed 46,350 m³ of rough stone (4th Year). The ultimate depth is 16m (6m AGL + 10m BGL).


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7. The salient features of the project are as follows:

1	Name of the Owner/Firm	: M/s.A.S.Enterprises, No.753, 11'A Cross, 25 th Main road, HSR Layout, Bengaluru District, Karnataka State - 560102
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone
3	S.F No. Of the quarry site with area break-up	: 187/1A, 187/1B, 188 and 189
4	Village in which situated	: Gopanapalli
5	Taluk in which situated	: Hosur
6	District in which situated	: Krishnagiri
7	Extent of quarry (in ha.)	: 2.13.0Ha
8	Latitude & Longitude of all corners of the quarry site	: 12°38'12.40"N to 12°38'19.91"N 77°48'07.09"E to 77°48'13.96"E
9	Topo Sheet No.	: 57-H/14
10	Type of mining	Opencast Semi Mechanized of Mining
11	Period of quarrying proposed	: 5 years
12	Production (Quantity in m ³)	: 230340 cu.m of Rough Stone
13	Depth of quarrying	: 16m (6m Above Ground Level and 10m below ground level)
14	Depth of water table	: 65m-60m BGL
15	Man Power requirement per day:	30 Nos.
16	Source of Water Requirement	Water Vendors
17	Water requirement: 1. Drinking & domestic purposes (in KLD) 1. Dust suppression , Green Belt &Wet Drilling (in KLD)	: 3.0 KLD 1.0 KLD 1.0 KLD 1.0 KLD

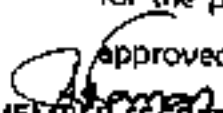
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18	Power requirement a. Domestic Purpose Industrial Purpose		TNEB 3,59,446 Liters of HSD
19	Whether any habitation within 300m distance	:	No
20	Precise area communication approved by the Assistant District (Additional Charge), and Department of Geology and Mining with date	:	Rc.No.1072/2019/Mines, dated: 24.02.2021.
21	Mining Plan approved by Assistant District (Additional Charge), and Department of Geology and Mining with date	:	Rc.No.1072/2019/Mines, dated: 05.03.2021.
22	AD (Additional Charges), mines 500m cluster letter		Rc.No.1072/2019/Mines, dated: 05.03.2021.
23	VAO certificate regarding 300m radius cluster		Dt: 03.06.2021
24	Project Cost (excluding EMP cost)	:	72.58 Lakhs
25	EMP cost	:	EMP Cost – Rs. 10.10 Crores /10Years including capital & recurring cost with 5% inflation cost anticipated every year.
26	CER cost		5 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the ultimate depth of mining upto 16m (6m AGL + 10m BGL) and the quantity of 230340 cu.m of Rough Stone, and the annual peak production shall not exceed 46,350 m³ of rough stone subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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



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maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.

2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
4. The proponent shall 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.
5. 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.
6. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
7. 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) /


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- 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.
8. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the existing benches properly aligned for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
 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 35 m (or) after the completion of 5 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.
 10. 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.
 11. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
 12. The PP shall ensure that the blasting operations are carried out by 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.
 13. 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.


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14. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
15. The PP shall undertake suitable measures for the socio-economic development in the villages situated around the quarry.
16. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
17. 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.
18. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Primary School, Gobanappalli Village as committed, before obtaining CTO from TNPCB.

Agenda No: 351-2

(File No: 8638/2022)

Proposed Rough stone & Gravel project over an extent of 1.01.5 Ha in S.F.No. 199/1A2, Poomalur Village, Palladam Taluk, Tiruppur District, Tamil Nadu by Thiru. R Sivakumar - For Environmental Clearance. (SIA/TN/MIN/401203/2021 dated: 23.09.2022)

Earlier, this proposal was placed for appraisal in this 330th meeting of SEAC held on 17.11.2022. The details of the project furnished by the proponent are given in the website(www.paryesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. R Sivakumar applied for Environmental Clearance for the proposed Rough stone & Gravel project over an extent of 1.01.5 Ha in S.F.No. 199/1A2, Poomalur Village, Palladam Taluk, Tiruppur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

[REDACTED]	
1. Name of the Owner / Firm	Thiru. R. Sivakumar.
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		S/o. Ramasamy Gounder, No. 273, Mullagkattu Thottam, 63, Velampalayam, Palladam Taluk, Tiruppur District - 641 663.
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	199/1A2
4.	Village in which situated	Poomalur Village
5.	Taluk in which situated	Palladam Taluk
6.	District in which situated	Tiruppur District
7.	Extent of Quarry (In ha.)	1.01.5 Ha
8.	Latitude & Longitude of all corners of the quarry site	11°03'40.62"N to 11°03'45.67"N 77°15'05.83"E to 77°15'09.13"E
9.	Topo sheet No.	58 - E/08
10.	Type of Mining	Open Cast Mechanized Mining
11.	Period of Quarrying proposed	Five Years
12.	Production (Quantity in m ³)	44,680m ³ Rough stone
13.	Depth of quarrying	42m BGL
14.	Depth of water table	78m-73m (BGL)
15.	Man power requirement per day:	13 Employees
16.	Source of Water Requirement	Vendors and nearby Existing Bore Wells
17.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression, Green Belt & Drilling (in KLD)	2.0 KLD 0.5 KLD 1.0 KLD 0.5 KLD
18.	Power requirement: a) Domestic purpose b) Industrial Propose	TNEB 35,744 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. 215/Mines/2021, Dated: 15.06.2021
21.	Mining plan approved by Assistant Director, Department of Geology and Mining, with date	RC. No. 215/2021/Mines, Dated: 24.06.2021
22.	Assistant Director, Department of Geology and Mining, with date 500mts letter	RC. No. 215/2021/Mines, Dated: 24.06.2021
23.	VAO Certificate regarding 300m Radius letter dated	28.08.2020

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24.	Project cost (excluding EMP cost)	Rs.27.09 Lakhs
25.	EMP cost	Rs.79,57.701 lakhs/ 5 years
26.	CER cost	5 Lakhs

Based on the presentation made by the proponent, SEAC decided to call for the following additional details from the PP.

1. Certified compliance report obtained from MoEF&CC/TNPCB for the existing EC issued.

Now, the PP has furnished the CCR from MoEF&CC, IRO, Chennai. Based on that this proposal has again been placed in 351st SEAC meeting held on 3.2.2023

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 44,680m³ of Rough stone with an ultimate depth of 42m BGL. The annual peak production 9350m³, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.

4. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
5. 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.
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. 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.
10. In case of carrying out the 'Deep-hole large diameter drilling and blasting' in the proposed quarries, the PP shall obtain prior permission from the Director of Mines Safety, Chennai Region after the commencement of mining operations under the provisions of Reg. 106 (2) (b) of MMR 1961.
11. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures


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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.

12. 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 a 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. 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.
14. 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.
15. 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.
16. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated

- around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
17. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
 18. The PP shall install solar lighting in the streets of neighbouring village before obtaining the CTO from the TNPCB.
 19. 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.
 20. 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.
 21. 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.
 22. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Govt Hr Sec Schoo, Boomalur as committed, before obtaining CTO from TNPCB.

AGENDA No: 351-03

(File No: 8648/2022)

Proposed Rough Stone over an extent of 4.58.80Ha comprising SF.No. 218/1 & 219/1 of Kolumankondan Village, Palani Taluk, Dindigul District, Tamil Nadu by Thiru.A.Thangaraj – For Environmental Clearance. (SIA/TN/MIN/402625/2022, dated 25/10/2022)

The proposal was placed in this 351st meeting of SEAC held on 03.02.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.A.Thangaraj has applied seeking Environmental Clearance for the Proposed Rough Stone over an extent of 4.58.80Ha comprising SF.No. 218/1 & 219/1 of Kolumankondan Village, Palani Taluk, Dindigul District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of


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Minerals Projects" of the schedule to the EIA Notification, 2006, as amended.

3. ToR issued along with Public Hearing vide T.O Lr No.SEIAA-TN/F.No.8648/SEAC/ToR-1074/2021 Dated:01.03.2022
4. Public Hearing minutes dated:24.07.2022
5. EIA report submitted on 12.10.2022

1.	Name of the Owner / Firm	Thiru. A. Thangaraj S/o. Arumuga Gounder, Vayalur, Pushpathur Post. Palani Taluk, Dindigul District
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough stone
3.	S.F No. of the quarry site	218/1 & 219/1
4.	Village	Kolumankondan
5.	Taluk	Palani
6.	District	Dindigul
7.	Extent of Quarry (in ha.)	4.58.80Ha (patta Land)
8.	Period of Quarrying proposed	5years
9.	Type of Mining	Opencast Mechanized of Mining
10.	Production (Quantity in m ³)	As per the approved mining plan. Geological reserves: 21,06,108 m ³ of Rough stone. 45,828 m ³ of topsoil and 22,914 m ³ of weathered Rock to a depth of mining of 50m below ground level. 5-year Production: 5,40,447 m ³ of Rough stone The annual peak production as per mining plan is 1,58,640 m ³ of Rough stone (3 rd year).
11.	Proposed depth of Mining	25m below ground level
	Ultimate depth of mining	50m below ground level

12.	Latitude & Longitude of all corners of the quarry site	10°33'41.15"N to 10°33'49.33"N 77°26'22.43"E to 77°26'32.19"E
13.	Topo sheet No.	58-F/06
14.	Man power requirement	18
15.	Precise Area Communication	Na.Ka.No. 433/2018/Kanimam/, Dated: 10.01.2019
16.	Mining plan approval letter	Roc.No. 433/2018/Mines. Dated: 06.02.2019
17.	500m letter	Rc.No. 433/2018/Mines. Dated: 06.07.2021
18.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression (in KLD) & Green Belt (in KLD)	5.0 KLD 1.25 KLD 2.0 KLD & 1.75kLD
19.	Power requirement: a. Domestic purpose b. Industrial Purpose	TNEB -
20.	Depth of Water table	45m
21.	Whether any habitation within 300m distance	No as per VAO letter
22.	Project cost (Excluding EMP cost)	Rs. 26.70,000/-
23.	EMP cost	581.26 Lakh
24.	CER cost	Rs. 5,00,000/-
25.	VAO letter dated	Letter dated: 06.05.2021

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production quantity of 5,40,447 m³ of Rough stone with an ultimate depth of 50m bgl and the annual peak production shall not exceed 1,58,640 m³ of Rough stone subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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


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maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.

2. The PP shall divert the Odai traversing through the mine lease area in the form of a permanent Garland Drainage installed around the boundary of the lease with a settling/precipitation tank before obtaining the CTO from the TNPCB without fail.
3. 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.
4. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
5. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.
6. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in all the quarries of this cluster site collectively if amalgamation is done and when the depth of the working touches 30 m (or) during the 4th year whichever is earlier, by involving a 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.
7. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Design of Controlled Blasting to reduce the Impacts of the blasting operations carried out in the quarry on the surrounding villages and the prominent structures such as blast-induced ground/air

vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

8. The Project Proponent shall not carry out the secondary rock breakage involving explosives & blasting operations and adopt only the non-explosive techniques such as rock breakers, etc.
9. The Project Proponent shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
10. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia & 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
11. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
12. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure for carrying out the safe blasting method and schedule of blasting in the proposed quarry to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.


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13. The Project Proponent shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
14. The Project Proponent shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.
15. The Project Proponent 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.
16. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
17. 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.
18. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
19. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
20. As per the MoEF & CC Office Memorandum F.No. 22-65/2017-IA,III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
21. As accepted by the Project proponent the CER cost is Rs. 8.0 lakh and the amount shall be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.

Agenda No. 351 – 04,

(File No. 8666/2022)

Proposed Rough Stone & Gravel Quarry lease over an extent of 1.35.5Ha at S.F.No.22/1 & 22/2 Kolumankondan Village, Palani Taluk Dindigul District, Tamil Nadu by Thiru D Rajesh- for Environmental Clearance. (SIA/TN/MIN/403869/2022)

The proposal was placed in 351th SEAC meeting held on 03.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The 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. 8666/SEAC/ToR-1042/2022 Dated: 31.01.2022.
3. Minutes of public hearing conducted on 2.8.2022.
4. Final EIA report submitted on 20.10.2022
5. 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 131201 cu.m of Rough Stone, 6567 cu.m of Gravel and the annual peak production shall not exceed 29680 m³ of rough stone (3rd Year) & 567 cu.m of Gravel (1st Year). The ultimate depth is 35m BGL.
6. PP has furnished the CCR from MoEF&CC, IRO, Chennai
7. The salient features of the project are as follows:

1.	Name of the Owner/Firm	: Thiru. D. Rajesh, S/o. Deivendran, Veerasudamani Patti, Vanjinagaram Post Melur Taluk, Madurai - 625 218.
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone & Gravel


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3.	S.F No. of the quarry site with area break-up	:	22/1 & 22/2
4.	Village in which situated	:	Kachirayanpatti
5.	Taluk in which situated	:	Melur
6.	District in which situated	:	Madurai
7.	Extent of quarry (in ha.)	:	1.35.50 Ha
8.	Period of quarrying proposed	:	5 years
9.	Type of mining		Opencast Mechanized Mining
10.	Production (Quantity in m ³)	:	1,31,201m ³ of Rough Stone and 567m ³ of Gravel
11.	Latitude & Longitude of all corners of the quarry site	:	10°08'31.73"N to 10°08'31.40"N 78°20'26.10"E to 78°20'25.90"E
12.	Top Sheet No.	:	58-J/08
13.	Man Power requirement per day:		23 Nos.
14.	Precise area communication approved by the Joint Director / Assistant Director (i/c), Department of Geology and Mining with date	:	Na.Ka.En. 665/2020 - Kanimam, dt.30.12.2020
15.	Mining Plan approved by the Joint Director / Assistant Director (i/c), Department of Geology and Mining with date	:	Roc. No. 665/2019 - Mines, dt.08.01.2021
16.	Water requirement: 2. Drinking & domestic purposes (in KLD) 3. Dust suppression (in KLD) 4. Green Belt (in KLD)	:	1.050 KLD 0.350 KLD 0.500 KLD 0.200 KLD
17.	Power requirement b. Domestic Purpose c. Industrial Purpose		TNEB 1.04,960 Liters of HSD
18.	Depth of quarrying	:	35m bgt (33.5m Rough Stone + 1.5m Gravel)
19.	Depth of water table	:	50m-55m bgt

20.	Whether any habitation within 300m distance	:	No
21.	Project Cost (including EMP cost)	:	Rs. 25.95,000/-
22.	EMP cost	:	Capital Cost – Rs. 16,69,000/- Recurring Cost – Rs. 14,27,680/- Rs. 99,76,961 / 5 yrs
23.	CER cost	:	Rs.5,00,000/-
24.	Assistant Director, mines 500m duster letter	:	Roc. No. 665/2020 - Mines, dt.08.01.2021
25.	VAO certificate regarding 300m radius duster	:	Letter dated: 07.01.2021

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity not exceed 131201 cu.m of Rough Stone, &567 cu.m of Gravel and the annual peak production shall not exceed 29680 m³ of rough stone (3rd Year) & 567 cu.m of Gravel (1st Year). The ultimate depth is 35m 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 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


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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.
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. As the habitations monuments 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.
10. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
11. Since the archaeological are situated at a distance range of 2.1 km from the mine lease boundary, within one year of the commencement of mining operations, the



- Project Proponent shall carry out the scientific studies on 'Design of Controlled Blasting to reduce the Impacts of the blasting operations carried out in the quarry on the surrounding villages and the prominent structures such as blast-induced ground and air vibrations', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
12. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure for carrying out the safe blasting method and time schedule of blasting in the proposed quarry to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
 13. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
 14. The PP shall ensure that the blasting operations are carried out by 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.
 15. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
 16. The PP shall carry out the comprehensive hydrogeological studies within two years from the commencement of the quarrying operations 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.


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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.

17. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
18. 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.
19. 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.
20. 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.
21. 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.
22. As accepted by the Project proponent the CER cost is Rs. 8 lakhs and the amount shall be spent for the Govt Hr Sec School, Manapatti as committed, before obtaining CTO from TNPCB.

Agenda No. 351 – 05.

(File No. 8667/2022)

Proposed Rough Stone & Gravel Quarry lease over an extent of 2.64.50Ha at S.F.No.728/2, 728/3, 728/4, 728/5, 728/6, 728/7, 728/8, 728/9, 728/10, 728/11, 728/12, 728/13, 728/14, 728/15, 728/16, 728/17 & 728/18 of Magaral-B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu by M/s. Sri Sai Infrastructures - for Environmental Clearance. (SIA/TN/MIN/407145/2022, dt.19.11.2022)

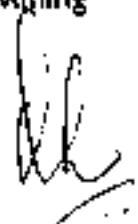
The proposal was placed in 351st SEAC meeting held on 03.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

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


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2. The ToR was issued vide Lr. No. SEIAA-TN/F. No. 8667/ToR-1086/2021 Dated: 17.03.2022 to M/s. Sri Sai Infrastructures for the proposed Rough Stone & Gravel Quarry lease over an extent of 2.64.50Ha at S.F.No.728/2, 728/3, 728/4, 728/5, 728/6, 728/7, 728/8, 728/9, 728/10, 728/11, 728/12, 728/13, 728/14, 728/15, 728/16, 728/17 & 728/18 of Magaral-B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu.
3. Minutes of public hearing conducted on 13.09.2022.
4. Final EIA report submitted on 24.11.2022
5. Now, the Project Proponent, M/s. Sri Sai Infrastructures has applied for Environmental Clearance with EIA report along with minutes of public hearing for the proposed Rough Stone & Gravel Quarry lease over an extent of 2.64.50Ha at S.F.No.728/2, 728/3, 728/4, 728/5, 728/6, 728/7, 728/8, 728/9, 728/10, 728/11, 728/12, 728/13, 728/14, 728/15, 728/16, 728/17 & 728/18 of Magaral-B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu.
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 299140 cu.m of Rough Stone, & 42160 cu.m of Gravel and the annual peak production shall not exceed 62,640 m³ of rough stone (4th Year) & 14960 cu.m of Gravel (1st Year). The ultimate depth is 20m BGL.
7. The salient features of the project are as follows:

Sl. No.	Details
1	Name of the Owner/Firm : M/s.Sri Sai Infrastructures, No.18, G4, Buckmar Flats, 15 th Cross Street, New Colony, Chrompet, Chennai - 600044
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite) : Rough Stone & Gravel
3	S.F No. Of the quarry site with area break-up : 728/2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17 & 18.

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4	Village in which situated	:	Magarai-B
5	Taluk in which situated	:	Walajabad
6	District in which situated	:	Kancheepuram
7	Extent of quarry (in ha.)	:	2.64.50Ha
8	Latitude & Longitude of all corners of the quarry site	:	12°43'37.47"N to 12°43'44.38"N 79°43'36.77"E to 79°43'44.03"E
9	Topo Sheet No.	:	57-P/10
10	Type of mining	:	Opencast Semi-Mechanized of Mining
11	Period of quarrying proposed	:	5 years
12	Production (Quantity in m³)	:	2,99,140 m³ of rough stone & 42,160 m³ of gravel
13	Depth of quarrying	:	20m (2m Gravel + 18m Rough stone) below ground level
14	Depth of water table	:	55m-60m BGL
15	Man Power requirement per day:	:	28 Nos.
16	Source of Water Requirement	:	Water Vendors and bore well
17	Water requirement: 5. Drinking & domestic purposes (in KLD) 6. Dust suppression, Green Belt & Wet Drilling (In KLD)	:	4.3 KLD 0.300 KLD 1.0 KLD 1.5 KLD 1.5 KLD
18	Power requirement d. Domestic Purpose Industrial Purpose	:	TNEB 70266Liters of HSD
19	Whether any habitation within 300m distance	:	No
20	Precise area communication approved by the Assistant Director, G&M with date	:	Na.Ka.No.203/Q3/2020, dated:09.12.2020
21	Mining Plan approved by Assistant Director(i/c), Department of Geology and Mining with date	:	Rc.No.203/Q3 /2020. dated: 14.12.2020.

22	Assistant Director, mines 500m cluster letter		Rc.No.203/Q3 /2020, dated:16.12.2020.
23	VAO certificate regarding 300m radius cluster		Letter dated: 16.07.2021
24	Project Cost (excluding EMP cost)	:	68.65 Lakh
25	EMP cost	:	EMP Cost – Rs. 7.5628 Crores /10Years including capital & recurring cost with 5% inflation cost anticipated every year.
26	CER cost		5 Lakh

Based on the presentation and documents furnished by the project proponent, SEAC noted that a public complaint (Monday Petition Dt: 30.09.2022) was received in this office Dt: 14.11.2022. SEAC after detailed discussion decided to defer the proposal and requested the PP to carry out a Comprehensive Study furnishing the following additional particulars:

- Details of schools located at the vicinity of the project site.
- Details of timing of the school and mode of transport for the children.
- Details of mode of transport and details on the transportation route through which quarried materials are scheduled to be hauled.
- Standard Operating Procedure indicating the Time schedule of proposed blasting operation.

Agenda No: 351 - 06

(File No: 8691/2022)

Proposed Rough Stone quarry lease over an extent of 3.00.0ha in S.F.No. 603/1 (Part-4) at Panchakshipuram Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru. B. Arunkumar - For Environmental Clearance. (SIA/TN/MIN/409478/2022, dated: 06.12.2022)

The proposal was placed in 351st SEAC meeting held on 02.02.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:


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1. The Project Proponent, Thiru. B. Arunkumar has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 3.00.0ha in S.F.No. 603/1 (Part-4) at Panchakshipuram Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item I(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The Production for the five years states that total quantity should not exceed 4,46,527m³ of rough stone ultimate depth of mining is 62m (30m above ground level + 32m below ground level).
4. Public Hearing conducted on 07.10.2022.
5. EIA Report submitted on 13.12.2022.
- 6.

EC obtained Date	19.08.2016
Lease Deed Registered Date: 03.10.2016	Validity of EC – 18.08.2021
Validity of Extension of EC	S.O. 221 (E) Dated: 18.01.2021 Validity of EC – 18.08.2022

As per the OM Dated 13.12.2022, project that has valid Environmental Clearance as on date of notification 12.04.2022 shall stand automatically extended.

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

"The Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the EIA Notification 2006 as on the date of publication of Notification i.e., 12.04.2022


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shall stand automatically extended to respective increased validity as mentioned at Para no. 1 column (C) above."

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

1	Name of the Owner/Firm	:	Thiru. B. Arunkumar S/.N.C.Balu D.No.6/9A, Salem Main Road Kaveripattinam Post Krishnagiri Taluk Krishnagiri
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Rough stone
3	S.F No. Of the quarry site with area break-up	:	603/1(Part-4)
4	Village in which situated	:	Panchachipuram
5	Taluk in which situated	:	Hosur
6	District in which situated	:	Krishnagiri
7	Extent of quarry (in ha.)	:	3.00.0Ha
8	Period of quarrying proposed	:	5 years
9	Type of mining	:	Opencast mechanized Mining
10	Production (Quantity in m ³)	:	2,49,744m ³ of Rough stone as per TOR
11	Latitude & Longitude of all corners of the quarry site	:	12°36'10.25" N to 12°36'17.79" N 77°47'25.05"E to 77°47'35.02"E
12	Top Sheet No.	:	57 H/14
13	Man Power requirement per day:	:	50 Nos.
14	Precise area communication approved by the District Collector, with date	:	Rc.No.94/2016/Mines. dated: 19.12.2016
15	Mining Plan approved by the Assistant Director(Addl.Charge), Department of Geology and Mining, Krishnagiri with date	:	Rc.No.604/2021/Mines dated: 28.06.2021

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16	Water requirement: 1. Drinking & domestic purposes 2. Dust suppression 3. Green Belt	:	4.0 KLD 0.5 KLD 2.0 KLD 1.5 KLD
17	Power requirement a. Domestic Purpose b. Industrial purpose		TNEB 1.99,792 Liters of HSD
18	Depth of quarrying	:	36m (32m AGL + 4m BGL)
19	Depth of water table	:	60m in rainy & 65m in summer seasons
20	Whether any habitation within 300m distance	:	No
21	Project Cost (excluding EMP cost)	:	Rs. 80,57,000
22	EMP cost	:	Capital Cost - Rs 47,80,490 Recurring Cost - Rs. 19,12,584
23	CER cost	:	Rs. 5,00,000
24	AD mines 500m cluster letter	:	Rc. No.604/2021/Mines dated: 15.07.2021
25	VAO certificate regarding 300m habitation within 300m	:	Letter furnished
26	TOR Issued Details	:	Lr.No.SEIAA-TN/F.No.8691/SEAC/TOR-1046/2022, Dated: 31.01.2022
27	Public Hearing Date	:	07.10.2022
28	EIA Report Submitted date	:	13.12.2022

Here, the EIA Co-Ordinator have made a request to the SEAC to consider the extension of the validity of EC automatically as stipulated in the Office Memorandum on 'Clarification on the amendment to EIA Notification 2006' vide MoEF & CC OM File No. 1A3-22/28/2022-1A.111 [E 1815184], dated. 13.12.2023. The SEAC have noted the following details furnished by the PP:


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1. The Project Proponent was granted for a lease to quarry rough stone for a period of 10 years over an extent of 3.00.0 Ha of Government Land in S.F. 603/1 (Part - 4) of Panchakshipuram Village, Hosur Taluk, Krishnagiri District. The lease deed has been executed on 26.12.2016 and the lease period is valid upto 25.12.2026.
2. The PP had obtained the 'Prior Environmental Clearance' vide Lr. No. SEIAA-TN/E.No.5350/1(a)/E.C.No.3582/2016, dated. 19.08.2016 for quarrying an approved quantity of 3,50,837 cu.m Rough stone at a maximum depth of 32 m based on the Mining Plan approved by the competent authority, dated. 21.04.2016 in the Survey Number of 603/1 (part-4), Panchakshipuram Village, Hosur Taluk, Krishnagiri District with a validity coterminous with the mine lease period or limited to a maximum period of 5 years from the date of issue whichever is earlier.
3. However, the validity of EC granted earlier due to expire on 18.08.2021 had been extended and now expired on 18.08.2022 observing the MoEF & CC OM : S.O. 221(E), dated. 18.01.2021 in view of the outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, implementation of projects or activities in the field which states that
*"....the Central Government, hereby makes the following further amendments in the notification of Government of India, in the erstwhile Ministry of Environment and Forests, number S.O. 1533 (E), dated the 14th September, 2006, published in the Gazette of India, Extraordinary, Part-II, Section 3, Sub-section (ii), namely:-
 "....(ii) for paragraph 9A, the following paragraph shall be substituted namely:-
 "9A. Notwithstanding anything contained in this notification, the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearances granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid.....".*
4. However, the PP have filed an application through online for obtaining the EC for operating the remaining five years of lease in the same S.F. No. 603/1(Part-4) with


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not exceeding the total excavation quantity and annual peak production capacity on 06.12.2022.

5. Based on the presentation and request made by the PP, the committee had observed that the PP had filed the application for grant of EC before 12.04.2022 while both validity of the prior EC granted earlier and the lease period executed are subsisting as on 12.04.2022 for the same survey number of the proposed quarry site.

Further, the SEAC had taken a note on the Office Memorandum on 'Clarification on the amendment to EIA Notification 2006' issued by the MoEF & CC OM File No. 1A3-22/28/2022-1A.111 [E 1815184], dated. 13.12.2023 which states that

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

Provided that the period of validity of Environmental Clearance with respect to the type of Projects and Activities listed at Para 1 may be extended in respect of valid Environmental Clearance, by the regulatory authority concerned, by a maximum period of years as indicated at Para No. 1 Column (D) above, if an application is made in the laid down proforma to the regulatory authority by the applicant as per the provisions of EIA Notifications 2006:

Provided further that the regulatory authority may also consult the concerned Expert Appraisal Committee before grant of such extension....."

Therefore, based on the above MoEF & CC Office Memorandum dated. 13.12.2022 and the presentations subsequently made by the PP, the SEAC decided to confirm the validity of the Environmental Clearance - which had not expired as on 12/04/2022 - stands automatically extended to the validity period of the project life as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, and subject to the terms and conditions stipulated under the provisions of EIA Notification 2006.


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Further, as committed 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, M.Parandhur, Mudhukanapalli Post, Hosur Taluk, Krishnagiri District before obtaining CTO from TNPCB.

Agenda No. 351 – 07.

(File No. 8695/2022)

Proposed Rough stone & Gravel Quarry lease over an extent of 2.10.50Ha in S.F.Nos.718 & 720 of Magaral B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu by Thiru.R.Surya - for Environmental Clearance. (SIA/TN/MIN/407149/2022, dt.21.11.2022)

The proposal was placed in 351st SEAC meeting held on 03.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The 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. 8695/ToR-1047/2022 Dated: 31.01.2022 to Thiru.R.Surya for the proposed Rough stone & Gravel Quarry lease over an extent of 2.10.50Ha in S.F.Nos.718 & 720 of Magaral B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu.
3. Minutes of public hearing conducted on 13.09.2022.
4. Final EIA report submitted on 25.11.2022
5. Now, the Project Proponent, Thiru.R.Surya has applied for Environmental Clearance with EIA report along with minutes of public hearing for the proposed Rough stone & Gravel Quarry lease over an extent of 2.10.50Ha in S.F.Nos.718 & 720 of Magaral B Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu
6. The pre-decision 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 161587 cu.m of Rough Stone, & 46548 cu.m of Gravel and the annual peak production shall not exceed 51,880 m³ of rough stone (4th Year) & 26136 cu.m of Gravel (2nd Year). The ultimate depth is 20m BGL.
7. The salient features of the project are as follows:


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1	Name of the Owner/Firm	: Thiru.R.Surya S/o.Ramasamy RKG Complex, Ramesh Nagar 2nd Cross Street, West Tambaram Chennai District-600045
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone & Gravel
3	S.F No. Of the quarry site with area break-up	: 718 & 720
4	Village in which situated	: Magaral-B
5	Taluk in which situated	: Walajabad
6	District in which situated	: Kancheepuram
7	Extent of quarry (in ha.)	: 2.10.50Ha
8	Latitude & Longitude of all corners of the quarry site	: 12°43'49.24" N to 12°43'53.17" N 79°43'28.75"E to 79°43'37.44"E
9	Topo Sheet No.	: 57 P/10
10	Type of mining	: Opencast Semi-Mechanized of Mining
11	Period of quarrying proposed	: 5 years
12	Production (Quantity in m ³)	: 161587cu.m of Rough stone
13	Depth of quarrying	: 20m BGL
14	Depth of water table	: 65-70m
15	Man Power requirement per day:	: 24 Nos.
16	Source of Water Requirement	: Water Vendors and Existing bore well
17	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	: 5.0 KLD 1.5 KLD 4.0 KLD
18	Power requirement a. Domestic Purpose b. Industrial Purpose	: TNEB 406386 Liters of HSD

19	Whether any habitation within 300m distance	: No
20	Precise area communication approved by the Assistant Director, Department of Geology & Mining, with date	: Na.Ka.No.576/Q3/2019 dated: 20.08.2020
21	Mining Plan approved by the Assistant Director, Department of Geology and Mining, Kancheepuzam with date	: Rc.No.576/Q3/2019 dated: 23.11.2020
22	Assistant Director, mines 500m cluster letter	Rc.No.576/Q3/2019 dated: 23.11.2020
23	VAO certificate regarding 300m radius cluster	Letter dated: 24.07.2021
24	Project Cost (excluding EMP cost)	: Rs. 57.80Lakhs
25	EMP cost	: EMP Cost – Rs. 1.812 Crores /5Years including capital & recurring cost with 5% inflation cost anticipated every year.
26	CER cost	Rs. 5 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC noted that a public complaint (Monday Petition Dt: 30.09.2022) was received in this office Dt: 14.11.2022. SEAC after detailed discussion decided to defer the proposal and requested the PP to carry out a Comprehensive Study furnishing the following additional particulars:

- Details of schools located at the vicinity of the project site.
- Details of timing of the school and mode of transport for the children
- Details of mode of transport and details on the transportation route through which quarried materials are scheduled to be hauled.
- Standard Operating Procedure indicating the Time schedule of proposed blasting operation.

Agenda No. 351 – 08,
(File No. 8709/2022)


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Proposed Rough Stone and Gravel Quarry lease over an extent of 2.47.5Ha at S.F.No.75 of Chikkarampalayam village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu by Thiru.C.N.Mani - for Environmental Clearance.
(SIA/TN/MIN/401858/2022 Dt:30.09.2022)

Earlier, the proposal was placed in 330th SEAC meeting held on 17.11.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The 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.SELAA-TN/F.No.8709/ToR-1084/2021 Dated: 17.03.2022 to Thiru.C.N.Mani for the proposed Rough Stone and Gravel Quarry lease over an extent of 2.47.5Ha at S.F.No.75 of Chikkarampalayam village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu.
3. Minutes of public hearing conducted on 26.07.2022.
4. Final EIA report submitted on 28.09.2022
5. Now, the Project Proponent, Thiru.C.N.Mani has applied for Environmental Clearance with EIA report along with minutes of public hearing for the proposed Rough Stone and Gravel Quarry lease over an extent of 2.47.5Ha at S.F.No.75 of Chikkarampalayam village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu.
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 1,18,616 cu.m of Rough Stone, and the annual peak production shall not exceed 40,932 m³ of rough stone (1st Year). The ultimate depth is 47m BGL.
7. The salient features of the project are as follows:

1	Name of the Owner/Firm	Thiru.C.N.Mani S/o.Nanjundagavudar D.No.1/40, Chinnakaranur Belladhi Post, Karamadai Mettupalayam Taluk
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		Coimbatore District-641104
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone & Gravel
3	S.F No. Of the quarry site with area break-up	: 75
4	Village in which situated	: Chikkarampalayam
5	Taluk in which situated	: Mettupalayam
6	District in which situated	: Coimbatore
7	Extent of quarry (In ha.)	: 2.47.5Ha
8	Latitude & Longitude of all corners of the quarry site	: 11°14'53.04"N to 11°14'57.99"N 76°58'43.03"E to 76°58'51.36"E
9	Topo Sheet No.	: 58-A/16
10	Type of mining	: Opencast Mechanized of Mining
11	Period of quarrying proposed	: 5 years
12	Production (Quantity in m³)	: 1,18,616 m³ of rough stone
13	Depth of quarrying	: 47m (2m Gravel + 45m Rough Stone) below ground level
14	Depth of water table	: 65m-60m BGL
15	Man Power requirement per day:	25 Nos.
16	Source of Water Requirement	Water Vendors and Existing borewell
17	Water requirement: 3. Drinking & domestic purposes (In KLD) 4. Dust suppression, Green Belt & Wet Drilling (in KLD)	: 3.0 KLD 0.5 KLD 2.0 KLD 0.5 KLD
18	Power requirement c. Domestic Purpose Industrial Purpose	TNEB 160480Liters of HSD
19	Whether any habitation within 300m distance	: No
20	Precise area communication approved by the Assistant Director. G&M with date	: Na,Ka.No.453/Kanimam/2019, dated:04.09.2020

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21	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: RC.No.453/Mines/2019, dated.07.04.2021.
22	Assistant Director, mines 500m cluster letter	: RC.No.453/Mines/2019, dated.07.04.2021.
23	VAO certificate regarding 300m radius cluster	: Letter dated: 30.07.2021
24	Project Cost (excluding EMP cost)	: RS. 44.85 Lakhs
25	EMP cost	: EMP Cost – Rs. 1.16 Crores /5Years including capital & recurring cost with 5% inflation cost anticipated every year.
26	CER cost	: Rs. 5 Lakhs

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

- Revised quantity after formation and stability alignment of benches including photographs shows the fencing & Green belt development.
- Certified compliance report.

Subsequently, the proposal was placed in the 575th Authority meeting held on 05.12.2022. The authority after detailed discussion decided to call for the certain additional particulars from the project proponent in addition to the said additional particulars sought by the SEAC as follows

- Details of Impact of proposed mining activity including soil erosion on the abutting Canal @ 50m (Western Direction), Belladhi Lake @ 600m (North Western Direction) & Odai @ 450m & 600m (Western & North Western Direction) as per KML file and mitigation measures for the same.
- Details of elephant corridors nearby the proposed mining area. If any the PP shall furnish details of Impact and mitigation measures for the same.

In this connection, the project proponent has furnished reply vide Lr. dt:17.10.2022 received on 20.10.2022. The proposal was again placed for appraisal in 351st SEAC meeting held on 03.02.2023.

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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the ultimate depth of mining upto 47m BGL and the quantity of 1,18,616 cum of Rough Stone, and the annual peak production shall not exceed 40,932 m³ of rough stone subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC. in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
4. The proponent shall 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.
5. 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


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be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without deviation.

6. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the existing benches properly aligned for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
7. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 35 m (or) after the completion of 3 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
8. 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.
9. 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.
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 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.



12. 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.
13. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
14. The PP shall undertake suitable measures for the socio-economic development in the villages situated around the quarry.
15. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
16. 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 for the Panchayat Union Primary School, Chinnakaranur, Karamadai – 641104 as committed, before obtaining CTO from TNPCB.

AGENDA No: 351-09

(File No: 8725/2021)

proposed Rough Stone & Gravel quarry over an extent of 3.12.73 Ha located at S.F. No. 102/2A, 102/2B, 102/2C, 102/2D, 107/1, 107/2, 108/1A, 108/1B1, 108/1C, 108/1D, 108/1E, 108/2A, 108/2B2, 108/2B3 & 108/3 Velyanallur Village, Cheyyar Taluk Tiruvannamalai District by TvLNRM Sons Blue Metals - For Environmental Clearance. (SIA/TN/MIN/22436B/2021 dated:19.08.2021)

The proposal was placed in this 351st meeting of SEAC held on 03.02.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, TvLNRM Sons Blue Metals has applied seeking Environmental Clearance for the proposed Rough Stone & Gravel quarry over an extent of 3.12.73 Ha located at S.F. No. 102/2A, 102/2B, 102/2C, 102/2D, 107/1, 107/2, 108/1A, 108/1B1, 108/1C, 108/1D, 108/1E, 108/2A, 108/2B2, 108/2B3 & 108/3 Velyanallur Village, Cheyyar Taluk Tiruvannamalai District.


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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.

The Committee noted that the project proponent has not turned up for the meeting. Therefore SEAC decided to defer the subject to a later date directing the project proponent to furnish reason for not attending the meeting.

AGENDA No: 351-10

(File No: 8739/2021)

Proposed Rough Stone quarry lease over an extent of 1.30.0 Ha at S.F. No. 80/1 (Part) Government land of Alappatti Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. P.Srinivasan – For Environmental Clearance. (SIA/TN/MIN/ 222482/2021 dated 30.07.2021)

The proposal was earlier placed in the 292nd and 327th meetings of SEAC held on 07.07.2022 and 31.10.2022 respectively. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. P.Srinivasan has applied seeking Environmental Clearance for the proposed Rough stone quarry lease over an extent of 1.30.0 Ha at S.F. No. 80/1 (Part) of Alappatti Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.

1.	Name of the Owner / Firm	Thiru. P. Srinivasan S/o. Perumal, Door No.2/146 A, Konokottai, Avadhanapatti, Agraharam Post, Krishnagiri Taluk, Krishnagiri District - 635 001
2.	Type of quarrying (Savudu / Rough stone / Sand / Granite)	Rough stone
3.	S.F No. of the quarry site	80/1 (Part)
4.	Village	Alappatti
5.	Taluk	Krishnagiri

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6.	District	Krishnagiri
7.	Extent of Quarry (in ha.)	1.30.0Ha Government land
8.	Period of Quarrying proposed	5 years
9.	Type of Mining	Opencast Mechanized Method
10.	Production (Quantity in m ³)	As per the approved mining plan, Geological reserves: 3,35,485 m ³ of Rough stone to the ultimate depth of 31 m BGL. 5-year Production: 45,035m ³ of Rough stone The Annual peak production as per mining plan is 9,225 m ³ of Rough stone (3 rd year).
11.	Depth of Mining	16 m
12.	Ultimate Depth of Mining	16 m
13.	Latitude & Longitude of all corners of the quarry site	12°29'32.64"N to 12°29'37.42"N 78°06'20.47"E to 78°06'26.90"E
14.	Topo sheet No.	57 - L/03
15.	Man power requirement per day:	23 Employees
16.	Precise Area Communkation	Rc.No. 56/2016/Mines-2 dated 29.02.2016 Previous lease Details: <ul style="list-style-type: none"> • Earlier EC: Lr.SEIAA-TN/F.No.5251/1(a)/EC.No: 3212/2016 dated: 06.07.2016 to Thiru. P. Srinivasan. • Proceedings Letter Rc.No. 56/2016/Mines dated 16.08.2016 for a period of Ten Years • Lease Period 02.09.2016 to 01.09.2026
17.	Mining plan approval letter	<ul style="list-style-type: none"> • Roc. No. 56/2016/Mines-2 dated 15.04.2016 • Scheme of Mining Plan Approved vide Roc. No. 255/2021/Mines Dated 18.02.2021 for the period 2021-22 to 2025-26
18.	500m letter	Roc. No. 265/2021/Mines Dated 19.03.2021

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19.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression (in KLD) 3. Green Belt (in KLD)	2.00 kLD 0.50 kLD 1.50 kLD
20.	Power requirement: c. Domestic purpose d. Industrial Purpose	TNEB
21.	Depth of Water table	65-60m
22.	Whether any habitation within 300m distance	No
23.	Project cost (Excluding EMP cost)	Rs. Rs.38,77,000/-
24.	Total EMP cost	Rs. 82 Lakh
25.	CER cost	Rs. 5,00,000/-
26.	VAO letter dated	Letter Dated: 18.03.2021

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

- Documentary evidence from the concerned District Forest Officer showing the exact distance of location of the nearest R.F from the proposed quarry site.
- The Project Proponent shall furnish certified compliance report for the earlier EC.
- Revised EMP in the format prescribed.

Accordingly, the Proponent furnished the details sought by the Committee and hence the proposal was placed for reappraisal in this 351st meeting of SEAC held on 03.02.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production quantity of 45,035 m³ of Rough stone to a ultimate depth of not exceeding 16 m and the annual peak production shall not exceed 9,225 m³ of Rough stone, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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


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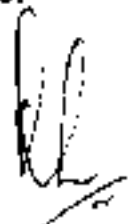

maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.

2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.
4. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in all the quarries of this cluster site collectively if amalgamation is done and when the depth of the working touches 30 m (or) during the 4th year whichever is earlier, by involving a 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.
5. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / 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.


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6. The Project Proponent shall not carry out the secondary rock breakage involving blasting operations and use only the non-explosive techniques such as rock breakers, etc.
7. The Project Proponent shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
8. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia & 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
9. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
10. The Project Proponent shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
11. The Project Proponent shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.
12. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.



13. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
14. 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.
15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
17. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
18. 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: 351-11


(File No: 8755/2022)

Proposed Rough Stone & Gravel quarry Lease over an extent of 7.00.0 Ha at S.F.No. 635/1A, 635/2A, 740, 800/2(P) & 801(P) In Marudur Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu by M/s. Venkateswara Blue Metals – For Environmental Clearance (SIA/TN/MIN/402955/2022 dated 12.10.2022)

The proposal was placed in 351st meeting of SEAC held on 03.02.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, M/s. Venkateswara Blue Metals has applied for Environmental Clearance for the proposed rough stone & gravel quarry lease over an extent of 4.85.0 Ha at S.F.No. 7.00.0 Ha at S.F.No. 635/1A, 635/2A, 740,


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800/2 (P) & 801 (P) in Marudur Village, Mettupalayam Taluk, Coimbatore 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 proposal are as follows:

1	Name of the Owner/Firm	Venkateshwara Blue Metals No. 486/3B, Mangalakkaraipudur, Karamadai, Mettupalayam, Coimbatore District - 641 104.
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	635/1A, 635/2A, 740, 800/2(P) & 801(P)
4	Village in which situated	Marudur
5	Taluk in which situated	Mettupalayam
6	District in which situated	Coimbatore
7	Extent of quarry (in ha.)	7.00.0ha
8	Latitude & Longitude of all corners of the quarry site	11°14'39.67"N to 11°14'53.15"N 76°55'48.14"E to 76°55'58.07"E
9	Topo Sheet No.	58 A/16
10	Type of mining	Opencast Mechanized Mining
11	Period of quarrying proposed	5 years
12	Total Excavation (Quantity in m ³)	21,35,225m ³ of Rough stone & 1,10,220m ³ of gravel
13	Depth of mining	57m (26m AGL & 31m BGL)
14	Depth of water table	70m - 65m
15	Man Power requirement per day:	56 Nos.
16	Water requirement: 1. Drinking & domestic purposes 2. Dust suppression 3. Green Belt	5.0 KLD 1.5 KLD 2.5 KLD 1.0 KLD
17	Power requirement	19,64,306 Liters of HSD for the entire project life

18	Precise area communication approved by the Assistant Director, Dept. of G&M with date	Rc.No.301/Mines/2021/, Dated: 11.08.2021
20	Mining Plan approved by the Assistant Director of Geology and Mining with date	Rc.No.301/Mines/2021, Dated: 23.08.2021
21	500m cluster letter issued by the Assistant Director of Geology and Mining with date	Rc.No.301/Mines/2021 Dated: 23.08.2021
22	VAO certificate regarding habitations in 300m radius	Enclosed
23	Project Cost (excluding EMP)	Rs.3.18,17,000 /-
24	EMP cost	Capital Cost: Rs.1,93,90,249/- Recurring Cost: Rs.77,90,279/- Total for 5 years: Rs. 6,25,23,309/-
25	ToR Issued details	ToR Issued vide Letter No. SEIAA-TN/F. No. 8755/SEAC/ToR-8755/2022 Dated: 31.01.2022.
26	Public Hearing Details	Public hearing conducted on: 26.07.2022
27	EIA Report Received	EIA received on: 28.09.2022

Earlier, the proposal was placed in 330th meeting of SEAC held on 17.11.2022. Based on the presentation and details furnished by the project proponent, the Committee decided to obtain the following details from the project proponent to consider the proposal for appraisal:

1. The details of total land area owned/leased by the proponent for quarrying.
2. Drone videography showing the fencing work carried out in the currently proposed area and in the area for which EC has been obtained earlier.
3. Details of safety barrier of 7.5 m maintained with tree plantations in the existing quarry and proposed lease areas.
4. Drone videography images showing (a) the existence of trees planted & green belt development activities carried out in compliance with the conditions as


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indicated in the previous EC issued on 25.07.2016; (b) existence of garland drainage already constructed for the existing & proposed quarry.

5. 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 belongs to the owner (or) not belongs to the owner; with number of occupants, places of worships, if any, industries, factories, sheds, etc.

Subsequently, the proposal was placed in 575th Authority meeting held on 06.12.2022.

Authority, after detailed discussions, decided to obtain the following details from the project proponent in addition to those called by SEAC:

- i) Impact of mining on the agricultural fields, humus, water body, surface/underground drainage, biodiversity in the vicinity of the proposed site shall be studied from a reputed Institute other than the NABET consultant.
- ii) A thorough study/assessment on the inventory of vegetation situated around a radius of 500m from the proposed project site.
- iii) Details on the nearest elephant corridor to the project site. Does the proposed project impact elephant activity?

Based on the details submitted by the proponent, the proposal is again placed for appraisal in this 351st SEAC meeting.

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the total excavation quantity of 21,35,225m³ of Rough stone & 1,10,220m³ of gravel with an ultimate depth of 57m (26m above ground level + 31m below ground level) with annual peak production of 5,19,870m³ of rough stone and 40,200m³ of gravel, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved

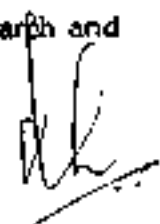
and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.

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. The PP shall obtain necessary relaxation from the Director of Mines Safety, Chennai Region before adopting the deep hole & large diameter blasting operations in the proposed quarry under the provisions of the MMR 1961.
8. The Project Proponent shall not carry out the secondary rock breakage involving blasting operations and use only the non-explosive techniques such as rock breakers, etc.
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.


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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. Within one year from the commencement of mining operations, the PP shall carry out the scientific studies 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 carry out the amalgamation of the existing leases with the necessary relaxation obtained from the Director of Mines Safety, Chennai Region for ensuring scientific and systematic mining operations under the provisions of MMR 1961.
13. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
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. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving a reputed Research and



Academic institution such as CSIR-Central Institute of Mining 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.

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

18. As accepted by the Project proponent the CER cost is Rs. 15 lakhs and the amount shall be spent towards tree plantation, library books and renovation & maintenance of toilets in the following ten schools, before obtaining CTO from TNPCB.

- i) Government Middle School, Karamadai
- ii) Government Middle School, Mangalakaraipudhur
- iii) Government Middle School, Kuttaiyur
- iv) Government Elementary School, T.G. Pudhur
- v) Government Elementary School, Arasappanur
- vi) Government Elementary School, Kulathupalayam
- vii) Government Elementary School, Tholampalayam
- viii) Government Elementary School, Thayanur
- ix) Government Elementary School, Marudhur
- x) Government Middle School, Thimampalayam

AGENDA No: 351-12

(File No: 8760/2022)

Proposed Rough stone & gravel quarry lease over an extent of 4.24.0 Ha at S.F.Nos.224/1, 224/3, 224/4, 224/5, 224/7, 227/2E1, 227/2E2, 227/2E3A, 227/2E3B, 227/2E6, 228/3 & 229/2 of Chithathoor village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu by Thiru. K.Boobalan - For Environmental Clearance. (SIA/TN/MIN/67032/2022, dated 24/08/2022)

The proposal was placed in the 351st meeting of SEAC held on 03.02.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:



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1. The project proponent, Thiru. K.Boobalan has applied seeking Environmental Clearance for the Proposed Rough stone & gravel quarry lease over an extent of 4.24.0 Ha at S.F.Nos.224/1, 224/3, 224/4, 224/5, 224/7, 227/2E1, 227/2E2, 227/2E3A, 227/2E3B, 227/2E6, 228/3 & 229/2 of Chithathoor village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006, as amended.
3. ToR issued along with Public Hearing vide T.O Lr No.SEIAA-TN/F.No.8760/SEAC/ToR-1088/2021 Dated:17.03.2022
4. Public Hearing minutes dated:24.06.2022
5. EIA report submitted on 26.08.2022

1.	Name of the Owner / Firm	Thiru.K.Boobalan S/o,Kannan No.782, mariamman kovil Street Jambodai Alividaithangi Post Vembakkam, Thiruvannamalai-604402
2.	Type of quarrying (Rough stone / Sand / Granite)	Rough stone and Gravel
3.	S.F No. of the quarry site	224/1, 224/3, 224/4, 224/5, 224/7, 227/2E1, 227/2E2, 227/2E3A, 227/2E3B, 227/2E6, 228/3 & 229/2
4.	Village	Chithathoor
5.	Taluk	Vembakkam
6.	District	Tiruvannamalai
7.	Extent of Quarry (in ha.)	4.24.0 Ha (patta Land)
8.	Period of Quarrying proposed	5years
9.	Type of Mining	Opencast Mechanized of Mining
10.	Production (Quantity in m ³)	As per the approved mining plan, Geological reserves:


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		17,43,441m ³ of Rough stone and 41,115 m ³ of Gravel 5-year Production: 2,62,924 m ³ of Rough stone & 28,276 m ³ of Gravel The annual peak production as per mining plan is 54,785 m ³ of Rough stone (4 th year).
11.	Proposed Depth of Mining	43m(3mAGL + 40mBGL) (2m Gravel + 42m Rough stone)
12.	Latitude & Longitude of all corners of the quarry site	12°43'33.12"N to 12°43'44.30"N 79°36'35.35"E to 79°36'48.21"E
13.	Topo sheet No.	57-P/10
14.	Man power requirement	28
15.	Precise Area Communication	Na.Ka. No. 144/kanimam/2018, dated: 26.07.2021
16.	Mining plan approval letter	Rc.No. 144/ Kanimam /2018, Dated: 17.08.2021
17.	500m letter	Rc.No. 144/ Kanimam /2018, Dated: 23.08.2021
18.	Water requirement: 4. Drinking & domestic purposed (In KLD) 5. Dust Suppression (In KLD) & Green Belt (In KLD)	5.0 KLD 1.25 KLD 2.0 kLD & 1.75kLD
19.	Power requirement: e. Domestic purpose f. Industrial Purpose	TNEB -
20.	Depth of Water table	68 – 73m BGL
21.	Whether any habitation within 300m distance	No as per VAO letter
22.	Project cost (Excluding EMP cost)	Rs.78.93,000/-
23.	EMP cost	Capital cost - Rs. 6691286/- Recurring cost - Rs. 2639353 /-
24.	CER cost	Rs. 5,00,000/-
25.	VAO letter dated	Letter dated: 30.07.2021



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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 production quantity of 2,62,924 m³ of Rough stone & 28,276 m³ of Gravel to a depth of 43m (3m AGL+ 40m BGL) in a period of 5 years and the annual peak production as per mining plan is 54,785 m³ of Rough stone subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The 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 furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.
4. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in all the quarries of this cluster site collectively if amalgamation is done and when the depth of the working touches 30 m (or) during the 3rd year whichever is earlier, by involving a 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

5. As the habitations are located at a distance of 330 m, within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the cluster mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining 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.
6. The Project Proponent shall not carry out the secondary rock breakage involving blasting operations and use only the non-explosive techniques such as rock breakers, etc.
7. The Project Proponent shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
8. The Project Proponent shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
9. 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.
10. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures


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located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.

11. The Project Proponent shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.
12. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
13. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
14. 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.
15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
17. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
18. 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: 351-13


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(File No: 8816/2022)

Proposed Rough stone & Gravel quarry lease over an extent of 3.00.0 Ha at S.F.Nos. 161A/2 & 162A/1(Part) of Arasampalayam Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Thiru. C.Vijay - For Environmental Clearance. (SIA/TN/MIN/406077/2022, dated 11.11.2022)

The proposal was placed in the 351st meeting of SEAC held on 03.02.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. C.Vijay has applied seeking Environmental Clearance for the Proposed Rough stone & Gravel quarry lease over an extent of 3.00.0 Ha at S.F.Nos. 161A/2 & 162A/1(Part) of Arasampalayam Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006, as amended.
3. ToR issued along with Public Hearing vide T.O Lr No.SEIAA-TN/F.No.8816/SEAC/ToR-1095/2021 Dated:17.03.2022
4. Public Hearing conducted on 15.09.2022
5. EIA report submitted on 14.11.2022

S.No.	Project Details	
1.	Name of the Owner / Firm	Thiru.C.Vijay S/o.K.Chinnasamy No.2/74, Kangayampalayam Sulur Taluk Coimbatore District-641401
2.	Type of quarrying (Rough stone / Sand / Granite)	Rough stone & Gravel
3.	S.F No. of the quarry site	161A/2 & 162A/1(Part)
4.	Village	Arasampalayam
5.	Taluk	Kinathukadavu
6.	District	Kinathukadavu


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7.	Extent of Quarry (in ha.)	3.00.0 Ha (Patta land)
8.	Period of Quarrying proposed	5years
9.	Type of Mining	Opencast Mechanized of Mining
10.	Production (Quantity in m ³)	<p>As per the approved mining plan, Geological reserves: 8,02,675m³ of Rough stone, 23,292 m³ of Gravel to an ultimate depth of 27 m BGL</p> <p>5-year Production: 2,93,876 m³ of Rough stone & 32,162 m³ of Gravel (17,812 m³ of Gravel + 14,350m³ of existing Gravel dump).</p> <p>The Annual peak production as per mining plan is 65550 m³ of Rough stone (2nd year).</p>
11.	Ultimate Depth of Mining	42m (2m Gravel + 40m Rough Stone) BGL
12.	Latitude & Longitude of all corners of the quarry site	10°52'17.34"N to 10°52'25.23"N 77°02'06.56"E to 77°02'12.35"E
13.	Topo sheet No.	58 - F/01
14.	Man power requirement	28
15.	Precise Area Communication	Na.Ka. No. 501/Kanimam/2021 dated: 10.08.2021
16.	Mining plan approval letter	Rc.No. 501/Mines/2020 Dated: 15.09.2021
17.	500m letter	Rc.No. 501/Mines/2020 Dated: 15.09.2021
18.	Water requirement: 6. Drinking & domestic purposed (in KLD) 7. Dust Suppression (in KLD) & Green Belt (in KLD)	<p>4.0 KLD</p> <p>1.0 KLD</p> <p>3.0 KLD</p>
19.	Power requirement: g. Domestic purpose h. Industrial Purpose	<p>TNEB</p> <p>2,55,072 Liters of HSD for the entire period of life</p>
20.	Depth of Water table	65m - 60m

21.	Whether any habitation within 300m distance	No as per VAO letter
22.	Project cost (Excluding EMP cost)	Rs. 86,14,000/-
23.	EMP cost	Capital cost - Rs. 19,68,444/- Recurring cost - Rs. 19,20,570/-
24.	CER cost	Rs. 6,00,000/-
25.	VAO letter dated	Letter dated: 17.09.2021
26.	VAO letter dated	Letter dated: 06.05.2021

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production quantity of 293876 m³ of Rough stone & 32,162 m³ of Gravel (17,812 m³ of Gravel + 14,350 m³ of existing Gravel dump) to an ultimate depth of not exceeding 42m BGL and the annual peak production shall not exceed 65550 m³ of Rough stone subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.


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4. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) considering the existing highwall bench working conditions by maintaining appropriate safe width for the same and incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m. before obtaining CTO from TNPCB.
5. 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) within the commencement of one year of quarrying 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.
6. The proponent shall scrupulously follow the conditions as stipulated below:
 - a. No excavation shall be made in the places where the permission is not granted in the lease towards the railway line by the competent authority.
 - b. The waste generated during the quarrying shall not be dumped (or) stacked in the proximity of the railway line area.
 - c. No damage shall be done on the protective measures of the existing railway lines, during the quarrying operations.
 - d. Necessary protective measures shall be carried out during the blasting operations such that the blast-induced ground vibrations are controlled within the statutory limits imposed vide the DGMS Cir. No. 7 of 1997 thereby no damages occur to the existing structural features of the railway track lines.
7. Within one year of the commencement of mining operations, the Project Proponent involving other mines in this cluster, shall carry out the scientific studies

on "Design of Controlled Blasting for reducing the Cumulative Impacts of the blasting operations carried out in the cluster mines such as blast-induced ground/air vibrations and fly rock on the surrounding villages and the prominent structures of railways tract lines and other permanent structures within 500 m from the blasting site", by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

8. The Project Proponent shall not carry out the secondary rock breakage involving blasting operations and use only the non-explosive techniques such as rock breakers, etc.
9. The Project Proponent shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the railway authorities/other habitations situated around the proposed quarry after having posted the sentries/guards adequately near railway lines to confirm the non-exposure of public within the danger zone.
10. Since the railway tracks situated nearby, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation and the blasting time schedule 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.
11. As the railway tracks are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia& 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
12. The 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


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ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.

13. The Project Proponent shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
14. The Project Proponent shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.
15. The Project Proponent 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.
16. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
17. 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.
18. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
19. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
20. As per the MoEF & CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.

21. As accepted by the Project proponent the CER cost is Rs. 6.0 lakh and the amount shall be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.
22. Further, the PP shall install an educational trust to annually spend atleast five wards/children of the employees working in the quarry for their complete school/higher education purposes and copies of the relevant documents shall be submitted as a proof to the concerned DEE/TNPCB without deviation.

Agenda No. 351 -14.

(File No. 8842/2022)

Proposed Rough Stone and Gravel Quarry lease over an extent of 1.96.0Ha at S.F.No.100/6B, 100/7, 100/8, 100/9, 100/10 & 100/11 of Konganakkurichi Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu by Tmt.T.Muthulakshmi - for Environmental Clearance. (SIA/TN/MIN/430184/2022, dt.12.12.2022)

The proposal was placed in 351st SEAC meeting held on 03.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The proposed quarry/activity is covered under Category "B1" of Item I(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
2. The ToR was issued vide Lr. No. SEIAA-TN/F.No.8842/ToR-1109/2021 Dated: 21.03.2022 to Tmt.T.Muthulakshmi for the proposed Rough Stone and Gravel Quarry lease over an extent of 1.96.0Ha at S.F.No.100/6B, 100/7, 100/8, 100/9, 100/10 & 100/11 of Konganakkurichi Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu.
3. Minutes of public hearing conducted on 17.11.2022.
4. Final EIA report submitted on 13.12.2022
5. Now, the Project Proponent, Tmt.T.Muthulakshmi has applied for Environmental Clearance with EIA report along with minutes of public hearing for the proposed Rough Stone and Gravel Quarry lease over an extent of 1.96.0Ha at S.F.No.100/6B, 100/7, 100/8, 100/9, 100/10 & 100/11 of Konganakkurichi Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu.
6. The precise area communication/lease is issued for the period of 10 years. The


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approved mining plan is for the period of five years & production should not exceed 1,22,500 cu.m of Rough Stone, 15,275cu.m of Earth & 61100cum of Gravel and the annual peak production shall not exceed 40,450 m³ of rough stone (5th Year) & 18800 cu.m of Gravel (1st Year). The ultimate depth is 20m BGL.

7. The salient features of the project are as follows:


1	Name of the Owner/Firm	: Tmt.T.Muthulakshmi No.68/12/338. Kamaraj Nagar, 2nd Street Paramakudi Post Ramanathapuram District-626102
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	: 100/6B, 100/7, 100/8, 100/9, 100/10 & 100/11
4	Village in which situated	: Konganakkurichi
5	Taluk in which situated	: Aruppukottai
6	District in which situated	: Virudhunagar
7	Extent of quarry (in ha.)	: 1.96.0Ha
8	Latitude & Longitude of all corners of the quarry site	: 9°28'35.7"N to 9°28'40.4"N & 78°10'42.6"E to 78°10'47.2"E
9	Topo Sheet No.	: 58 K/3
10	Type of mining	: Opencast Mechanized of Mining
11	Period of quarrying proposed	: 5 years
12	Production (Quantity in m ³)	: 1,22,500 m ³ of rough stone and 61,100 m ³ of gravel
13	Depth of quarrying	: 20m below ground level
14	Depth of water table	: 40m - 45m
15	Man Power requirement per day:	: 24 Nos.
16	Source of Water Requirement	: Water vendors
17	Water requirement:	: 3.200 KLD 1.000 KLD

	5. Drinking & domestic purposes (in KLD) 6. Dust suppression , Green Belt & Wet Drilling (in KLD)	1.300 KLD 0.600 KLD 0.300 KLD
18	Power requirement d. Domestic Purpose e. Industrial purpose	TNEB 53975liters of HSD
19	Whether any habitation within 300m distance	: No
20	Precise area communication approved by the District Collector, with date	: Rc.No.KV1/75/2021-Kanlmam, dt: 04.08.2021
21	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	: Rc.No.KV1/75/2021, dt: 18.08.2021
22	Assistant Director, mines 500m cluster letter	Rc.No.KV1/75/2021, dt: 18.08.2021
23	VAO certificate regarding 300m radius cluster	Letter dated:06.08.2021
24	Project Cost (excluding EMP cost)	: 192.00 Lakhs/10 Years
25	EMP cost	: EMP Cost – Rs. 2.045 Crores /10 Years including capital & recurring cost with 5% inflation cost anticipated every year.
26	CER cost	Rs. 5 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the ultimate depth of mining upto 20m BGL and the quantity of 1,22,500 cu.m of Rough Stone, & 61100cu.m of Gravel and the annual peak production shall not exceed 40,450 m³ of rough stone & 18800 cu.m of Gravel, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF & CC, in addition to the following specific conditions:


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1. The project proponent shall store/dump the total quantity of earth generated within the earmarked area of the project site and the utilize the same for green belt development /mine closure as per the approved mining plan.
2. 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.
3. 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.
4. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
5. 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.
6. 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-DCM and DMS, Chennai as a part of Environmental Compliance without deviation.
7. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the existing benches properly aligned

for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.


8. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving 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 SELAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
9. 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.
10. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
11. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia& 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
12. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.


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13. 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.
14. 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.
15. 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.
16. 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.
17. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP for protecting the existing Kanmai and other water bodies located within 1 km radius distance from the lease boundary.
18. The PP shall undertake suitable measures for the socio-economic development in the villages situated around the quarry.
19. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
20. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
21. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Primary School, Ramaswampattai as committed, before obtaining CTO from TNPCB.

Agenda No: 351-16
(File No: 8867/2022)

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Proposed Rough Stone & Gravel quarry Lease over an extent of 3.16.4 Ha at S.F.No. 886/2, 886/7 & 886/9 in Nathikudi Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu by Mr. S. Radhakrishnan - For Environmental Clearance (SIA/TN/MIN/409883/2022 dated 09.12.2022)

The proposal was placed in 351st meeting of SEAC held on 03.02.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Mr. S. Radhakrishnan has applied for Environmental Clearance for the proposed rough stone & gravel quarry lease over an extent of 3.16.4 Ha at S.F.No. 886/2, 886/7 & 886/9 in Nathikudi Village, Vembakottai Taluk, Virudhunagar 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 proposal are as follows:

1	Name of the Owner/Firm	Thiru. S. Radha Krishnan, S/o. Sangama Naicker, D.No. 1/128, Mallipudhur Village, Srivilliputtur Taluk, Virudhunagar District - 627719.
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	886/2, 886/7 & 886/9
4	Village in which situated	Nathikudi
5	Taluk in which situated	Vembakottai
6	District in which situated	Virudhunagar
7	Extent of quarry (in ha.)	3.16.4 Ha
8	Latitude & Longitude of all corners of the quarry site	09°26'21.8"N to 09°26'26.0"N 77°41'32.0"E to 77°41'44.5"E
9	Topo Sheet No.	58 - G/11
10	Type of mining	Opencast Semi-Mechanized Mining

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11	Period of quarrying proposed	5 years
12	Production (Quantity in m ³)	2,64,480m ³ of rough stone. 64,780m ³ of gravel & 12.956m ³ of earth
13	Depth of mining	Existing depth - 19m Ultimate depth - 36m
14	Depth of water table	45-50m
15	Man Power requirement per day:	18 Nos.
16	Water requirement: 2. Drinking & domestic purposes 3. Dust suppression 4. Green Belt	10.0 KLD 1.0 KLD 8.0 KLD 1.0 KLD
17	Power requirement	No electricity required
18	Precise area communication approved by the District Collector with date	Rc.No.KV1/879/2018/Kanimam Dated: 24.02.2021
20	Mining Plan approved by the Deputy Director, Dept. of Geology and Mining with date	Rc. No. KV1/879/2018 Dated: 09.07.2021
21	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	Roc.No.KV1/879/2018/ Dated: 30.09.2021
22	VAO certificate regarding habitations in 300m radius	Letter dated: 13.02.2021
23	Project Cost (excluding EMP)	Rs.2,95,05,700 /-
24	EMP cost	Capital cost - Rs. 23.97 Lakhs Recurring Cost - 20.88 Lakhs Total cost for 5 years: 139.35 Lakhs
25	ToR Issued details	ToR Issued vide Letter No. SEIAA-TN/E. No. 8867/SEAC/ToR-1124/2021 Dated: 23.03.2022
26	Public Hearing Details	Public hearing conducted on: 11.11.2022
27	EIA Report Received	EIA received on: 13.12.2022

4. Earlier, EC was issued to the proponent vide Lr.No.SEIAA-TN/F.No.1799/1(a)/EC.No.922/2013 dated 25.11.2013 for a period of 5 years.
5. SEAC noted that as per OM Dated 13.12.2022, Clarification on the amendment to EIA Notification 2006 issued vide S.O. No. 1807(E) dated 12.04.2022 with regard to validity of Environment Clearance, para 2 (ii) states that...

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

As per the above mentioned O.M, SEAC noted that the proponent is also eligible for automatic extension. However, the proponent has applied afresh and submitted a detailed EIA Report along with Public hearing after obtaining Terms of Reference.

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 2,64,480m³ of rough stone, 64,780m³ of gravel & 12,956m³ of earth with an ultimate depth of 36m below ground level and annual peak production of 69,216m³ of rough stone (5th year) & 16,400m³ of gravel (1st 2nd and 3rd 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:


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.


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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 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.
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. 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


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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.II 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 Government High School, Mamsapuram Village Vembakottai Taluk, Virudhunagar District for the following activities as committed.


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before obtaining CTO from TNPCB. In addition to this, the proponent shall spend Rs.1 Lakh/ year towards the education of mine worker's children.

1	Plantations – 100 Nos.	Rs. 5,00,000/-
2	Setting up new toilet room with water facilities	
3	Setting up cycle stand shed	
4	Library books with rack facility	

Agenda No: 351- 16

(File No: 8073/2022)

Proposed Rough stone and gravel quarry lease area over an extent of 2.00.0 Ha at S.F. No. 1/4 (Part-37) Anandalal Village, Walajah Taluk, Vellore District, Tamil Nadu by Thiru. M. Perumal -For Environmental Clearance amendment (SIA/TN/MIN/57165/2020 Dt.16.2.2022)

The proposal was placed for appraisal in this 351st SEAC meeting held on 03.02.2023. The details of the project furnished by the proponent are given in the website(parivesh.nic.in).

The SEAC noted the following:

1. The project/activity is covered under Category "B1" of Item I (a) "Mining of Minerals Projects" of the Schedule to the EIA Notification.2006.
2. The PP was issued with ToR vide Lr No. SEIAA-TN/F.No.8073/SEAC/ToR-907/2020 Dt.16.03.2021 depth of mining was restricted to 51m AGL (1m Topsoil +50m Rough stone) and the restricted quantity that shall be mined as per the approved mining plan is Rough stone: 6,94,225m³, Topsoil: 20,000m³.
3. Public hearing conducted on 21.10.2021.
4. EIA report submitted on 17.02.2022.
5. The salient features of the proposed project as follows,

1	Name of the Owner/Firm	Thiru.M.Perumal S/o.Muthu No.1/397/1, SathyaSai Nagar
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		Kattikanapalli Krishnagiri District - 635002
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough stone quarry
3	S.F No. Of the quarry site with area break-up	: 1/4 (Part-37)
4	Village in which situated	: Anandalai
5	Taluk in which situated	: Walajah
6	District in which situated	: Vellore
7	Extent of quarry (in ha.)	: 2.00.0 Ha
7	Lease Period	: 10 years
8	Period of quarrying proposed as per mining plan	: 5 years
9	Type of mining	: Opencast semi mechanized mining
10	Restricted Production as per ToR issued (Quantity in m ³)	: 6,94,225 m ³ of Rough stone and 20,000 m ³ of Top soil
11	Annual peak Production (Quantity in m ³)	: 152625 m ³ of Rough stone (1 st year) & 20000 m ³ of Top Soil (1 st year)
12	Restricted Depth of quarrying	: 51m AGL (1m Topsoil +50m Rough stone)
13	Depth of water table	: 69 m Summer Season-64m Rainy Season
14	Latitude & Longitude of all corners of the quarry site	: 12°55'46.69"N to 12°55'53.37"N 79°23'41.40"E to 79°23'48.61"E
15	Top Sheet No.	: 57P/05
16	Man Power requirement per day:	: 38 Employees
17	Precise area communication approved by the District Collector with date	: Na.Ka.No.333/2019/Kanimam dated 26.11.2019
18	Mining Plan approved by the Deputy Director of Geology and Mining with date	: Rc.No.333/2019/Mines dated 14.07.2020
19	AD mines 500m cluster letter Approved by Assistant Director (I/c)& G&M	: Rc. No. 333/2019/Mines dated: 14.07.2020.
20	VAO certificate regarding 300m radius cluster	: Letter dated 14.07.2020
21	Water requirement: 7. Drinking & domestic purposes (in KLD) 8. Dust suppression(in KLD) 9. Greenbelt (in KLD)	: 3.0 KLD 1.0 KLD 1.0 KLD 1.0 KLD

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22	Power requirement f. Domestic Purpose	TNEB 5,94,706 Liters of HSD
23	Project Cost	: Rs.3.10.69.000/-
24	EMP cost	: Capital Cost : Rs. 7103427/- Recurring Cost/annum : Rs.3105985/-
25	CER cost	: Rs.5 Lakhs as accepted by the PP
26	Tor Issued date	: ToR vide Lr No. SEIAATN/F.No.8073/SEAC/ToR-907/2020 Dt.16.3.2021
27	Public hearing	: 21.10.2021
28	EIA report submitted	: 17.02.2022

6. Earlier, this proposal was placed for appraisal in the 269th meeting of SEAC held on 5.5.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to call for the following details from the project proponent

- ♦ The project proponent shall furnish a letter from DFO indicating the exact distance of the Bagavelli RF located from the project site.

7. Subsequently, this proposal was placed in the 514th meeting of SEIAA held on 31.05.2022. The Authority after detailed discussion, decided to obtain following additional particulars in addition to the above.

- i. Detailed study shall be carried out in regard to Impact of mining around the proposed mine lease area from reputed research institutions on the following
 - a) Soil health & bio-diversity.
 - b) Climate change leading to Droughts, Floods etc.
 - c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
 - d) Possibilities of water contamination and impact on aquatic ecosystem health.
 - e) Agriculture, Forestry & Traditional practices. Hydrothermal/Geothermal effect due to destruction in the Environment.

- f) Bio-geochemical processes and its foot prints including environmental stress.
 - g) Sediment geochemistry in the surface streams.
- ii. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby water bodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
 - iii. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/unfavorable accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities.
 - iv. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.
 - v. Detailed Mine Closure Plan covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
 - vi. Detailed Environment Management Plan including adaptivity, mitigation & remedial strategies covering the project life (or) subject to a maximum of thirty years, whichever is earlier.
8. Again, this proposal was placed in the 317th SEAC meeting held on 06.10.2022. During the meeting the Committee noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.


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Now, the proposal was placed for reappraisal in this 351st SEAC meeting held on 03.02.2023. Based on the presentation and documents furnished by the project proponent, after detailed deliberations, SEAC considering the safety aspects decided to recommend the proposal for the grant of Environmental Clearance for the restricted quantity of 6,94,225m³ of Rough stone & 20,000 m³ of Topsoil for an ultimate depth of not exceeding 51m above ground level, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:


1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The project proponent shall store/dump the total quantity of top soil generated within the earmarked area of the project site and the utilize the same for green belt development /mine closure as per the approved mining plan.
3. 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.
4. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
5. 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.
6. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the

commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.

7. 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.
8. 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.
9. 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).
10. As the depth of proposed excavation exceeding 30 m, 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.
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. In case of carrying out the 'Deep-hole large diameter drilling and blasting' 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.


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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 a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
15. Since the quarry 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 and the blasting time schedule 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 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 Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
22. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
23. As per the MoEF & CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
24. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Middle School, Thenkadapathagal as committed, before obtaining CTO from TNPCB.

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(File No: 8159/2020)

Proposal to utilize the existing buildings & the additional buildings are proposed for the purpose of Hospital Building Complex in the name of "PSP Medical College Hospital and Research Institute" at S.F.No. 524/1, 526, 527/1, 527/2A, 527/2B, 527/3, 530/1, 530/1A1, 530/2, 531/1B, 531/1B1, 531/2, 531/2A, 532/1A, 532/1B, 532/2, 533/1, 533/2, 533/3, 537/1A, 537/1B, 537/2, 537/3A, 537/3, 537/3B, 538/1, 538/2, 538/4, 539, 540/6, 540/7 of Panruti B Village, Sriperumbudur Taluk, Kancheepuram District by M/s. Periyasamy Pillai Educational Trust - For Environmental clearance.
(SIA/TN/MUN/188098/2020 dated 15.12.2020)

The proposal was placed in this 351st SEAC Meeting held on 03.02.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. Periyasamy Pillai Educational Trust has applied seeking Environmental Clearance to utilize the existing buildings & the additional buildings


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are proposed for the purpose of Hospital Building Complex in the name of "PSP Medical College Hospital and Research Institute" at S.F.No. 524/1, 526, 527/1, 527/2A, 527/2B, 527/3, 530/1, 530/1A1, 530/2, 531/1B, 531/1B1, 531/2, 531/2A, 532/1A, 532/1B, 532/2, 533/1, 533/2, 533/3, 537/1A, 537/1B, 537/2, 537/3A, 537/3, 537/3B, 538/1, 538/2, 538/4, 539, 540/6, 540/7 of Panruti B Village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.

2. The project/activity is covered under Category "B2" of Item 8(a) "Building and Construction Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, this proposal was placed before 194th SEAC held on 18.01.2021 and the SEAC decided to seek the following from the Proponent:
 - a. Whether this place is suitable for Hospital? Copy of approval for shifting the Polytechnic from this location and converting the Polytechnic to Hospital shall be furnished.
 - b. It is not clear how many blocks are to be demolished, how many are going to be reconstructed, quantum of demolition waste and the mode of disposal as per Construction and Demolition Waste Rules 2016, etc shall be furnished.
 - c. Certificate of Demolition of existing buildings obtained from Competent Authority shall be furnished.
 - d. As the existing buildings have been proposed to be used as Hospital, the Proponent shall obtain Stability Certificate from a reputed Government Institution like IIT, Anna University etc
 - e. The proponent shall furnish the design details of Sewage Treatment Plant, Effluent Treatment and Grey water Treatment Plant.
 - f. Grey water Treatment Plant and dual pipeline system shall be provided in the new buildings, and the detailed reuse plan of the treated wastewater may be provided.
 - g. A detailed storm water plan to drain out the water entering the site during heavy rain shall be prepared in accordance with the contour levels of the proposed project considering the surrounding development.
 - h. The Proponent shall furnish the average value of Ambient Noise Level

Monitoring survey conducted for 24 hrs and mention the distance from the site where the survey has been carried out.

- i. The Proponent shall obtain and furnish building plan for all the buildings proposed.
 - j. The Proponent shall obtain and furnish Fire and Safety NOC for the project.
 - k. Detailed report on Biomedical waste storage, handling and management shall be provided.
 - l. Solar energy utilization should be at least 10% of total energy consumption. Solar energy usage mainly for the illumination of common areas, street lighting etc.,
4. Subsequently, the proponent vide Lr Dt. 10.3.2021 has furnished the reply along with clarification on above said quires raised by SEAC.
5. Under the above circumstance the proposal was again placed in 255th SEAC Meeting held on 18.3.2022. Based on the presentation, document furnished and clarification given by the proponent, SEAC noted that the project proponent has obtained structural stability certificate from Dept. of Civil Engineering, Anna University, Chennai with the following conditions a). Rehabilitation shall be carried out as per the methodologies specified by M/s Hitech Concrete Solutions to satisfy the requirements of latest Indian Standards and b). No additional loads shall be added to the structure until rehabilitations are carried out.
6. Since the proposed hospital building project to be carried out in the existing structure, the Committee instructed the project proponent to comply with the above measures to strengthen the existing structure and get a certificate from Annan University that the modifications have been carried out as stipulated and the stability of the structural is ensured. The proponent shall also produce an affidavit stating that no additional load will be added to the old structure during its lifetime.
7. Further, during the appraisal proponent requested to exclude the following S.F.No. as these covered educational institutions for which EC is not required.


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The survey numbers as mentioned in the original application seeking Environmental Clearance for the hospital building complex and the survey numbers corresponding to the educational institution campus are as follows:

S.F.Nos. 524/1, 526, 527/1, 527/2A, 527/2B, 527/3, 530/1, 530/1A1, 530/2, 531/1B, 531/1B1, 531/2, 531/2A, 532/1A, 532/1B, 532/2, 533/1, 533/2, 533/3, 535, 536/1, 536/2, 537/1A, 537/1B, 537/2, 537/3A, 537/3, 537/3B, 538/1, 538/2, 538/3, 538/4, 539, 540/6, 540/7	S.F.Nos. 524/1, 526, 527/1, 527/2A, 527/2B, 527/3, 530/1, 530/1A1, 530/2, 531/1B, 531/1B1, 531/2, 531/2A, 532/1A, 532/1B, 532/2, 533/1, 533/2, 533/3, 537/1A, 537/1B, 537/2, 537/3A, 537/3, 537/3B, 538/1, 538/2, 538/4, 539, 540/6, 540/7	S.F. Nos. 535, 536/1, 536/2, 538/3
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1.	Name of the Project	Proposal to utilize the existing buildings & the additional buildings are proposed for the purpose of Hospital Building Complex in the name of "PSP Medical College Hospital and Research Institute"
2.	Location	S.No. 524/1, 526, 527/1, 527/2A, 527/2B, 527/3, 530/1, 530/1A1, 530/2, 531/1B, 531/1B1, 531/2, 531/2A, 532/1A, 532/1B, 532/2, 533/1, 533/2, 533/3, 535, 536/1, 536/2, 537/1A, 537/1B, 537/2, 537/3A, 537/3, 537/3B, 538/1, 538/2, 538/3, 538/4, 539, 540/6, 540/7 of Panruti B Village, Sriperumbudur Taluk, Kancheepuram District
3.	Type of Project	Building and Construction Projects Schedule 8 (a)

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4.	Latitude & Longitude	12°50'22.24"N to 79°54'49.70"E				
5.	Total Area (in sq. m)	a) Total land area - 52,205 Sq.m b) Total Ground Coverage Area of Buildings - 15,140 Sq.m c) Roads and Pavements Area - 19,301 Sq.m d) OWC Area, Security Room and Other Utilities Area (Transformer Yard, HSD Yard) - 1,000 Sq.m e) Greenbelt Area - 7,935 Sq.m f) Surface Parking - 3,609 Sq.m g) OSR Area - 5,220 Sq.m				
6.	Built up area	52,503 Sq.m				
7.	Cost of Project	Rs. 96.0 Crores				
8.	Brief description of the project	Block Name	Number of Floors	Existing Sq.m	Proposed Sq.m	Built up area Sq.m
		Block A (Main Hospital)	G+3	2049	15,595	17,644
		Block B(IPD)	G+2	9891		9,891
		Block C(OPD)	G+2	5066		5066
		Block D(IPD2)	G+4		12,436	12,436
		Block E (Hospital Service Block)	G+3		6,202	6,202
		Block F (manifold)	G+2		264	264
		Other Utilities (Security Room, STP,ETP,Pump Room, Power House, Laundry, OWC Area, Bio Medical Waste Handling)			1000	1000

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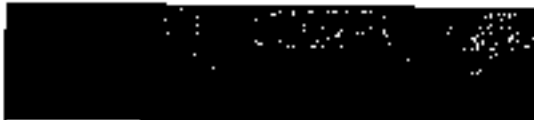
		Room, DG Room)				
		Total Built Up area (Sq.m)		17,006	35,497	52,503
9.	a) Water requirement KLD	Total water requirement – 435 KLD i. Domestic water requirement – 193 KLD ii. Recycled water – 187 KLD a. Flushing – 159 KLD b. Greenbelt – 28 KLD iii. Lab & Operation – 40 KLD iv. Laundry – 15 KLD				
	b) Source	Bore wells within the campus				
10.	Quantity of Sewage KLD	During Operation Phase Total Sewage Generation – 342 KLD • Domestic Sewage – 183 KLD • Flushing – 159 KLD Total Effluent Generation – 55 KLD • Lab & Operation – 40 KLD				

		<ul style="list-style-type: none"> • Laundry – 15 KLD
11.	Details of Sewage Treatment Plant/ Effluent Treatment Plant/ Grey Water Treatment Plant	<p>Sewage Treatment Plant – 165 KLD capacity</p> <ul style="list-style-type: none"> • Bar Screen Chamber • Equalization tank • Aeration tank • SBR Tank • Decant Tank • Pressure Sand Filter • Activated Carbon Filter • UF system • UV Disinfection system <p>Effluent Treatment Plant – 60 KLD capacity</p> <ul style="list-style-type: none"> • Bar Screen Chamber • Equalization tank • Aeration Tank (MBBR) • Settling Tank • Clarified Water Tank • Sludge Holding Tank • Filter Press • Pressure Sand Filter • Activated Carbon Filter • UF system • Treated Water Tank • UV Disinfection system <p>Grey Water Treatment Plant – 195 KLD capacity</p> <ul style="list-style-type: none"> • Bar Screen Chamber • Collection Tank • Aeration Tank • Settling Tank • Dual Media Filters • Treated Water Tank
12.	Mode of Disposal of treated sewage with quantity	<p>Grey Water Treated– 165 KLD</p> <ol style="list-style-type: none"> Avenue Plantation – 137 KLD Greenbelt– 28 KLD


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		Sewage Treated Water – 159 KLD i. Flushing – 159 KLD Effluent Treated Water – 55 KLD i. Lab & Operation – 40 KLD ii. Laundry – 15 KLD																			
13.	Quantity of Solid Waste generated per day. Mode of treatment and Disposal of Solid Waste	S.No	Description	Quantity (Kg/day)	Methods of Treatment / Disposal																
		1	Biodegradable Waste (60%)	589	Treated in Organic Waste Converter (OWC) and manure used for Green belt Development																
		2	Non-Biodegradable Waste (40%)	392	Handed over to Recyclers																
		3	STP Sludge	35	Used as manure for Green Belt Development																
		4	Bio Medical waste	204	To authorized CBMWTF																
14.	Power requirement	5,000 kVA. Source of power – TANGEDCO																			
15.	Details of D.G. set with Capacity	2 Numbers of 2000 kVA • Height of Stack - 24 meter above the ground level																			
16.	Details of Green Belt Area	7.935 Sq.m																			
17.	Details of Parking Area	<table><tr><th rowspan="3">Parking Location</th><th colspan="2">Total Parking Proposed</th><th colspan="2">Total Parking Required (as per DTCP Norms)</th></tr><tr><th rowspan="2">Nos.</th><th>Area</th><th rowspan="2">Nos.</th><th>Area</th></tr><tr><th>(Sq.m)</th><th>(Sq.m)</th></tr><tr><td>Car Parking</td><td>248</td><td>3100</td><td>246</td><td>3705</td></tr></table>				Parking Location	Total Parking Proposed		Total Parking Required (as per DTCP Norms)		Nos.	Area	Nos.	Area	(Sq.m)	(Sq.m)	Car Parking	248	3100	246	3705
Parking Location	Total Parking Proposed		Total Parking Required (as per DTCP Norms)																		
	Nos.	Area	Nos.	Area																	
		(Sq.m)		(Sq.m)																	
Car Parking	248	3100	246	3705																	

		Two Wheeler Parking	248	446	246	443
		Ambulance	3	63	-	-
		Total	499	3.609	492	3.518
18.	Provision for rain water harvesting	Total runoff – 1,056 m ³				
		Based on the annual rainfall days, average daily rainfall				33mm
		Rainwater collection Tank provided for storing 100% of the roof area. Per day Roof area Rain fall collection is 363 Cum. (100 m ³ Underground Rainwater storage tank Proposed)				363 cum
		Remaining rainwater will be recharge into recharge well. Recharge pit: 50 Nos with Dia 0.3 m, depth 10 m				693 cum
		100 % of rainwater managed inside by storage and recharge within the site				
19.	EMP Cost (Rs.)	During Construction Phase Capital Cost – Rs. 19.4 Lakhs Operational Expenses (per annum) – Rs. 6.9 Lakhs During Operation Phase Capital Cost – Rs. 166 Lakhs Recurring Cost – Rs. 46.6 Lakhs				
20.	CER activities with the specific allocation of funds	 Fund towards bund development, de-silting & Beautification of Water Bodies (Venpakkam Tank) under the guidance of WRD. Government of Tamil Nadu and local body.				
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	Improvement of infrastructure facilities in Public Health Centre (PHC) in Kancheepuram District:	
	<ul style="list-style-type: none"> • Connecting road, patient waiting hall with toilets, compound wall, laproscopy with monitor at Manamathy PHC. • Compound wall, connecting road, toilet at Parandur PHC. • Laproscopy with monitor at Molachur PHC • Antenatal care (ANC) clinic waiting hall with toilets at Kundrathur PHC 	40
	Grand Total	192

1	<p>Since the proposed hospital building project to be carried out in the existing structure, the committee instructed the project proponent to comply with the measures to strengthen the existing structure and get a certificate from Anna University that the modifications have been carried out as stipulated and the stability of the structure is ensured.</p>	<p>We wish to inform you that we have obtained the Structural Stability Certificate from Anna University for utilizing our existing buildings wherein Anna University has prescribed certain retro-fitting measures to be carried out. In this regard, we have engaged M/s. Hitech Civil Engineering Services (M) Pvt. Ltd. to carry out the retrofitting activities under the guidance and supervision of the Department of Structural Engineering, Anna University. The copy of engagement (work order) with M/s. Hitech Civil Engineering Services (M) Pvt. Ltd. and the</p>
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		<p>acceptance letter from Anna University towards the supervision of the said retrofitting works.</p> <p>We wish to inform you that the rehabilitation work is in under progress and will be completed before obtaining Consent to Operate from TNPCB.</p> <p>We will complete all the works related to the stability of the buildings as prescribed by Department of Structural Engineering, Anna University before obtaining CTO from TNPCB.</p>
2	<p>The proponent shall also produce an affidavit stating that no additional load will be added to the old structure during its lifetime.</p>	<p>We wish to inform you that we will not increase the load on the existing buildings by the way of the constructing any additional floors on our existing buildings.</p>

Based on the above queries and replies received, the proposal was again placed in 351st SEAC meeting held on 03.02.2023. Based on the presentation and documents furnished by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance subject to the following specific conditions in addition to normal conditions stipulated by MOEF&CC.

1. The proposed building shall conform to minimum of IGBC Gold green building norms for the proposed additional buildings and shall obtain IGBC certificate in this regard before obtaining CTO from TNPCB.
2. The Project Proponent shall adopt IGBC Net Zero Water System.
3. The Project Proponent shall provide STP of capacity 165 KLD and ETP of capacity 60


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KLD and the treated water shall be utilized for flushing and green belt/avenue plantation as committed.

4. The Project Proponent shall provide ETP of capacity 60 KLD and the treated water shall be utilized for Lab & Operation Theatre and Laundry as committed.
5. No treated water shall be discharged into proposed OSR pond.
6. The Project Proponent shall analyse the treated wastewater samples periodically through TNPCB.
7. The Project Proponent shall provide Organic Waste Converter and the generated manure shall be used for Green belt development as committed.
8. The height of the stacks of DG sets shall be provided as per the CPCB norms.
9. The project proponent shall submit structural stability certificate from reputed Institutions like IIT, Anna University etc. To TNPCB before obtaining CTO.
10. The proponent shall make proper arrangements for the utilization of the treated water from the proposed site for Toilet flushing, Dust suppression and Green belt development and no treated water be let out of the premise.
11. The sludge generated from the Sewage Treatment Plant shall be collected and dewatered using filter press and the same shall be utilized as manure for green belt development after composting.
12. The proponent shall provide the separate wall between the STP and OSR area as per the layout furnished and committed.
13. The proponent shall provide adequate Car/two-wheeler parking as committed.
14. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix, in consultation with the DFO, State Agriculture. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
15. Taller/one year old saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent

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

16. The Proponent shall provide rain water harvesting sump of adequate capacity for collecting the runoff from rooftops, paved and unpaved roads as committed.
17. The generated Bio medical waste shall be handled as per Bio Medical waste management Rules 2016.
18. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Bio-Medical Waste Management Rules, 2016, as amended for the generation of Bio-medical waste within the premises.
19. The project proponent shall allot necessary area for the collection of E waste and strictly follow the E-Waste Management Rules 2016, as amended for disposal of the E waste generation within the premise.
20. The project proponent shall obtain the necessary authorization from TNPCB and strictly follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016, as amended for the generation of Hazardous waste within the premises.
21. No waste of any type to be disposed of in any other way other than the approved one.
22. All the mitigation measures committed by the proponent for the flood management, to avoid pollution in Air, Noise, Solid waste disposal, Sewage treatment & disposal etc., shall be followed strictly.
23. The project proponent shall furnish commitment for post-COVID health management for construction workers as per ICMR and MHA or the State Government guidelines as committed for during SEAC meeting.
24. The project proponent shall provide a medical facility, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during



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COVID and Post - COVID period.

25. Half of the roof area shall be covered with Solar panels and utilization of the solar energy should not be less than 10% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc.
26. 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.
27. 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 include demolishing plan & its mitigation measures in the EMP and adhere the same as committed.
28. The project proponent shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
29. As accepted by the Project Proponent, an amount of Rs. 192 Lakhs shall be spent towards CER for the activities committed by the Proponent as follows:

	
Fund towards bund development, de-silting & Beautification of Water Bodies (Venpakkam Tank) under the guidance of WRD, Government of Tamil Nadu and local body.	152

<p>Improvement of Infrastructure facilities in Public Health Centre (PHC) in Kandheepuram District:</p> <ul style="list-style-type: none"> • Connecting road, patient waiting hall with toilets, compound wall, laproscopy with monitor at Manamathy PHC. • Compound wall, connecting road, toilet at Parandur PHC. • Laproscopy with monitor at Molachur PHC • Antenatal care (ANC) clinic waiting hall with toilets at Kundrathur PHC 	40
Grand Total	192

Agenda No: 351-18

(File No: 9738/2023)

Proposed Expansion of TATA Electronics Private Limited (Manufacturing & Assembly of metal case for mobile phones - 3 Lakh No's/Day) with total built-up area of 5,57,470 Sq. m located at SF. No. 312/1E, 312/2A, 324/1A, 324/2D, 324/2B, 324/2C, 312/2D2, 323/3, 326/1A, 327/1C, 326/1C, 311/1B, 311/1C, 312/1C, 312/2D1, 313/3F, 312/1A, 312/1B, 312/1d, 313/4A, 322/2B, 313/1E, 313/3C, 313/3D, 313/1C, 313/3B, 313/1C, 322/3A, 322/3C, 313/1A, 313/3A, 313/1B, 313/3E, 313/1F, 322/1A, 322/1B, 322/2A, 313/3G, 313/4B, 322/1D, 320/1, 320/3C, 321/1C, 320/3A, 321/1A, 322/2E, 324/2C, 320/3B, 321/1B, 320/1A, 321/3, 323/1, 322/2C, 322/2D, 322/3B, 322/3E, 322/3F, 324/2A, 322/3G, 324/2B, 323/2, 324/3, 325/1A, 325/1B, 325/2, 313/1D, 326/1B, 327/1F, 326/1D, 326/1E, 327/1E, 309/2D, 316/1D, 314/3A3, 314/1B, 314/1A, 314/3A1, 315/5, 308/1A, 308/1C, 319/1B, 308/1B, 308/2, 309/1A, 309/1B, 309/2B, 309/2A, 311/1E, 314/3A2, 309/2C, 311/1D, 309/2E, 310/1A, 310/1B, 310/1C, 310/2, 311/1A, 311/1F, 311/3B, 311/3A, 311/3C, 314/3B, 317/1D, 317/1E, 315/3, 315/1A, 315/1D, 315/4A, 315/4B, 316/1E, 316/2B, 316/2C, 316/2D, 316/31, 316/3B, 316/3C, 316/3F, 317/1C, 317/2A1, 317/2A3, 317/2B, 319/1A, 315/1B, 315/1C, 316/1A, 316/1B, 316/2A, 316/3G, 318/1A, 318/1B, 318/1C, 318/2, 318/3A, 318/3B, 315/1E, 315/4C, 316/1F, 316/3D, 317/1B, 315/4D, 316/1C, 317/1A, 317/2A2, 317/2A4, 317/2A5, 314/1B1, 13/4A1(P), 13/5A1, 13/5A2(P), 14/1A, 14/1B, 14/1C(P), 14/2A, 14/2B, 14/2C, 14/2D, 14/3A, 14/3B, 14/3C(P), 14/3D(P), 15/1A(P), 16/7A(P), 16/7B(P), 16/8(P), 17/2, 17/3A(P), 17/3B, 18/1, 19/2B, 20, 324/1B, 326/2, 327/1A, 327/1B, 327/1D, 328/2, 332/4, 21/1A, 21/1B, 21/1C, 21/1D, 21/1E, 21/1F, 21/1G1, 21/2A, 327/3, 332/2, 328/3, 328/1, 328/4, 15/6B, 13/1B, 15/3, 15/6A1, 311/2, 313/2, 314/2, 315/2, 319/2, 320/2, 321/2, 326/3, 327/2, 328/5, 332/1, 332/5

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of Thimjepalli Village. 143/2A, 143/1A, 143/1B, 143/1C, 148/4A, 148/4B, 141/6, 141/4C, 141/5C, 143/2B, 143/3, 144/1, 147/1B, 147/1A, 148/3, 134/1A, 134/1B, 134/2, 135/1, 135/2, 136/1C, 136/3B, 136/3C, 136/3D, 136/4A, 136/4B, 136/4C, 141/1B, 141/1C, 141/1D, 141/4A, 141/4B, 141/5A, 141/5B, 142/1A, 142/1B, 142/1C, 142/2, 142/3, 142/4, 141/7, 148/1, 148/3A, 161/1A, 161/1B, 161/1C, 161/3, 161/4A, 161/4B, 161/5A(P), 161/5B, 161/6A, 161/6B, 161/7, 161/8, 162/1, 162/2, 170/1A, 170/1B, 171/2A1, 171/2A2, 171/2A3, 171/2A4, 171/2A5, 172/1A, 172/1B, 171/1A, 172/1C, 172/1E, 172/3, 172/5A, 173/1, 173/3, 174/1A(P), 174/1B, 174/1C, 174/1D, 174/1E, 174/1F, 174/1G, 174/2(P), 174/3, 175/1, 180/2A, 180/2B, 180/3, 181/2A, 181/2B, 183/1, 183/2, 183/3, 183/4, 100/1B, 100/1C, 100/2A1B, 100/2A2A, 98/3, 98/4, 99/2, 112/2A, 112/2B, 112/3A, 112/3B, 113/1, 113/2, 113/3, 113/4, 114/2, 114/3A, 114/3B, 137/2A, 137/2B, 137/3, 137/4A, 137/4B, 138/1, 138/2, 138/4A, 138/4B, 138/5, 138/6, 139/2, 139/3, 139/5, 139/6, 139/9, 140/2, 140/4, 144/3, 144/4, 146/2A, 146/2B, 146/3, 146/4, 150/6A, 150/6B, 151/1, 152/1, 152/2, 152/4, 155/1, 155/2, 155/3, 156/1, 156/2, 157/1, 157/2, 157/3A, 157/3B, 157/3C, 157/3D, 157/3E, 158/2B2, 138/1, 137/7, 140/3, 180/4, 137/5, 139/10, 137/6, 140/7, 139/7, 172/1D, 172/2(P), 172/4A2(P), 172/4A1, 172/5B, 172/4A3, 172/6, 172/2(P), 172/4A2(P), 172/4B, 136/2, 141/2, 146/1, 144/2, 147/2, 148/2, 150/2, 137/1, 138/3, 140/1, 149/1, 151/2, 151/3, 152/3, 172/7, 174/4, 174/5, 175/2, 180/5, 181/1, 139/1 of Udedurgam Village. 1241/1B, 1241/1C, 1241/2B1, 1241/2B2, 1242/2B(P), 1242/3A2(P), 1238/1B2, 1238/1D, 1238/3A, 1238/3B, 1238/3C, 242/3A2(P), 124/3B2, 1246/6B, 1248/2 of Ayyaranpalli Village. Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by M/s. TATA Electronics Private Limited- For Terms of Reference. (SIA/TN/INFRA2/413746/2023 Dated: 10.01.2023)

The proposal was placed in this 351st SEAC Meeting held on 03.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, M/s. TATA Electronics Private Limited has applied for Terms of Reference for the Proposed Expansion of TATA Electronics Private Limited (Manufacturing & Assembly of metal case for mobile phones-3 Lakh No's/Day) with total built-up area of 5,57,470 Sq. m located at SF. No. 312/1E, 312/2A, 324/1A, 324/2D, 324/2B, 324/2C, 312/2D2, 323/3, 326/1A, 327/1C, 326/1C, 311/1B, 311/1C, 312/1C, 312/2D1, 313/3F, 312/1A, 312/1B, 312/1D, 313/4A, 322/2B, 313/1E, 313/3C, 313/3D, 313/1C, 313/3B, 313/1C, 322/3A, 322/3C, 313/1A, 313/3A, 313/1B, 313/3E, 313/1F, 322/1A, 322/1B, 322/2A, 313/3G, 313/4B, 322/1D, 320/1, 320/3C, 321/1C, 320/3A, 321/1A, 322/2E, 324/2C, 320/3B, 321/1B, 320/1A, 321/3, 323/1, 322/2C.

322/2D, 322/3B, 322/3E, 322/3F, 324/2A, 322/3G, 324/2B, 323/2, 324/3, 325/1A, 325/1B, 325/2, 313/1D, 326/1B, 327/1F, 326/1D, 326/1E, 327/1E, 309/2D, 316/1D, 314/3A3, 314/1B, 314/1A, 314/3A1, 315/5, 308/1A, 308/1C, 319/1B, 308/1B, 308/2, 309/1A, 309/1B, 309/2B, 309/2A, 311/1E, 314/3A2, 309/2C, 311/1D, 309/2E, 310/1A, 310/1B, 310/1C, 310/2, 311/1A, 311/1F, 311/3B, 311/3A, 311/3C, 314/3B, 317/1D, 317/1E, 315/3, 315/1A, 315/1D, 315/4A, 315/4B, 316/1E, 316/2B, 316/2C, 316/2D, 316/3I, 316/3B, 316/3C, 316/3F, 317/1C, 317/2A1, 317/2A3, 317/2B, 319/1A, 315/1B, 315/1C, 316/1A, 316/1B, 316/2A, 316/3G, 318/1A, 318/1B, 318/1C, 318/2, 318/3A, 318/3B, 315/1E, 315/4C, 316/1F, 316/3D, 317/1B, 315/4D, 316/1C, 317/1A, 317/2A2, 317/2A4, 317/2A5, 314/1B1, 13/4A1(P), 13/5A1, 13/5A2(P), 14/1A, 14/1B, 141/1C(P), 14/2A, 14/2B, 14/2C, 14/2D, 14/3A, 14/3B, 14/3C(P), 14/3D(P), 15/1A(P), 16/7A(P), 16/7B(P), 16/8(P), 17/2, 17/3A(P), 17/3B, 18/1, 18/2B, 20, 324/1B, 326/2, 327/1A, 327/1B, 327/1D, 328/2, 332/4, 21/1A, 21/1B, 21/1C, 21/1D, 21/1E, 21/1F, 21/1G1, 21/2A, 327/3, 332/2, 328/3, 328/1, 328/4, 15/6B, 13/1B, 15/5, 15/6A1, 311/2, 313/2, 314/2, 315/2, 319/2, 320/2, 321/2, 326/3, 327/2, 328/5, 332/1, 332/5 of Thimjepalli Village, 143/2A, 143/1A, 143/1B, 143/1C, 148/4A, 148/4B, 141/6, 141/4C, 141/5C, 143/2B, 143/3, 144/1, 147/1B, 147/1A, 148/3, 134/1A, 134/1B, 134/2, 135/1, 135/2, 136/1C, 136/3B, 136/3C, 136/3D, 136/4A, 136/4B, 136/4C, 141/1B, 141/1C, 141/1D, 141/4A, 141/4B, 141/5A, 141/5B, 142/1A, 142/1B, 142/1C, 142/2, 142/3, 142/4, 141/7, 148/1, 148/3A, 161/1A, 161/1B, 161/1C, 161/3, 161/4A, 161/4B, 161/5A(P), 161/5B, 161/6A, 161/6B, 161/7, 161/8, 162/1, 162/2, 170/1A, 170/1B, 171/2A1, 171/2A2, 171/2A3, 171/2A4, 171/2A5, 172/1A, 172/1B, 171/1A, 172/1C, 172/1E, 172/3, 172/5A, 173/1, 173/3, 174/1A(P), 174/1B, 174/1C, 174/1D, 174/1E, 174/1F, 174/1G, 174/2(P), 174/3, 175/1, 180/2A, 180/2B, 180/3, 181/2A, 181/2B, 183/1, 183/2, 183/3, 183/4, 100/1B, 100/1C, 100/2A1B, 100/2A2A, 98/3, 98/4, 99/2, 112/2A, 112/2B, 112/3A, 112/3B, 113/1, 113/2, 113/3, 113/4, 114/2, 114/3A, 114/3B, 137/2A, 137/2B, 137/3, 137/4A, 137/4B, 138/1, 138/2, 138/4A, 138/4B, 138/5, 138/6, 139/2, 139/3, 139/5, 139/6, 139/9, 140/2, 140/4, 144/3, 144/4, 146/2A, 146/2B, 146/3, 146/4, 150/6A, 150/6B, 151/1, 152/1, 152/2, 152/4, 155/1, 155/2, 155/3, 156/1, 156/2, 157/1, 157/2, 157/3A, 157/3B, 157/3C, 157/3D, 157/3E, 158/2B2, 138/1,


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137/7, 140/3, 180/4, 137/5, 139/10, 137/6, 140/7, 139/7, 172/1D, 172/2(P), 172/4A2(P), 172/4A1, 172/5B, 172/4A3, 172/6, 172/2(P), 172/4A2(P), 172/4B, 136/2, 141/2, 146/1, 144/2, 147/2, 148/2, 150/2, 137/1, 138/3, 140/1, 149/1, 151/2, 151/3, 152/3, 172/7, 174/4, 174/5, 175/2, 180/5, 181/1, 139/1 of Udedurgam Village, 1241/1B, 1241/1C, 1241/2B1, 1241/2B2, 1242/2B(P), 1242/3A2(P), 1238/1B2, 1238/1D, 1238/3A, 1238/3B, 1238/3C, 242/3A2(P), 124/3B2, 1246/6B, 1248/2 of Ayyaranpalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu.

2. The project/activity is covered under Category "B1" of Item 8(b) "Township & Area Development Projects" of the Schedule to the EIA Notification, 2006.

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

1. PP shall include the compliance of Hon'ble Supreme Court direction on 2.6.2022 in OM 1.A.No 65571 of 2021 in the matter of writ (Petition civil) No. 202 of 1995 in EIA report.
2. The PP shall obtain the proximity details of CNWLS to their project site from DFO, Hosur.
3. The PP shall explore the possibility of increasing green belt. In this regard the PP shall incorporate the increased green belt layout in EIA Report.
4. The PP shall explore the possibility of minimizing fresh water requirements and the details shall be incorporated in the EIA report.
5. The PP shall discuss about the APC measures provided for emissions from Anodizing process.
6. The PP shall avoid chrome anodizing process and handling of toxic heavy metals shall be avoided.
7. The PP shall discuss about the effluent generation from the process and its treatment method in EIA report.
8. The PP shall study the disposal of - 35.3 Chemical sludge from wastewater treatment - 9790T/A and ATFD salt - 6525 T/A in EIA report.
9. The PP shall explore the possibility of using/hiring e-vehicle in EIA report.

10. The PP shall achieve IGBC Gold rating for the construction project.
11. The PP shall cover the entire roof with solar panel.
12. The PP shall explore the possibility of using alternate fuel source instead of diesel.
13. The proponent shall submit the details regarding the capacity of existing treatment plant and the actual generation of Waste water, Solid Waste along with EIA Report.
14. The proponent shall create a creche and playground for the children in the area demarcated and submit the details along with EIA Report.
15. Copy of the village map, FMB sketch and "A" register shall be furnished.
16. Detailed Evacuation plan during emergency/natural disaster/unto ward accidents shall be submitted.
17. The treated/untreated sewage water shall not be let-out from the unit premises accordingly revised water balance shall be incorporated.
18. As per G.O. Ms. No. 142 approval from Central Ground Water Authority shall be obtained for withdrawal of water and furnish the copy of the same, if applicable.
19. Commitment letter from competent authority for supply of water shall be furnished.
20. The space allotment for solid waste disposal and sewage treatment plant shall be furnished.
21. Details of the Solid waste management plan shall be prepared as per solid waste management Rules, 2016 and shall be furnished.
22. Details of the E-waste management plan shall be prepared as per E-waste Management Rules, 2016, and shall be furnished.
23. Details of the Rain water harvesting system with cost estimation should be furnished.
24. A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains and sub-drains in accordance with the contour levels of the proposed project considering the flood occurred in the year 2015 and also considering the water bodies around the proposed project site & the surrounding development. The


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storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.

25. The proposed OSR area should not be included in the activity area. The OSR area should not be taken in to account for the green belt area.
26. The layout plan shall be furnished for the greenbelt area earmarked with GPS coordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should not be less than 15% of the total land area of the project.
27. Cumulative impacts of the Project considering with other infrastructure developments and industrial parks in the surrounding environment within 5 km & 10 km radius shall be furnished.
28. A detailed post-COVID health management plan for construction workers as per ICMR and MHA or the State Govt. guideline may be followed and report shall be furnished.
29. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modelling for the ground water, emission, noise and traffic.
30. As per the MoEF&CC Office Memorandum F.No.22-65/2017-IA.II dated: 30.09.2020 and 20.10.2020, the proponent shall furnish the detailed EMP mentioning all the activities as directed by SEAC.

Agenda No. 351 -29.

(File No. 8842/2022)

Amendment on existing Environmental Clearance issued for Modernization of Chennai Airport Phase II Chennai District Tamil Nadu by M/s Airports Authority of India (SIA/TN/MIS/295224/2022, dt.13.12.2022)

The Project proponent M/s Airports Authority of India has obtained Environmental Clearance from MoEF&CC vide F.No. 10-61/2016-IA-III Dt. 26.6.2018 for the following.

The proposal for grant of environmental clearance to the project 'Modernization


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of Chennai Airport (Phase-II), Chennai, Tamil Nadu by M/s Airports Authority of India Chennai was considered by the Expert Appraisal Committee (Infra-2) in its 31st meeting held on 29-30 May, 2018. The details of the project, as per the documents submitted by the project proponent, and also as informed during the above meeting are under

1. Airports Authority of India (AAI) took up modernization of Chennai airport during the year 2008 and completed the phase-I modernization during the year 2012
2. Chennai airport is located at Meenambakkam village, Sriperumbudur, Alandur Pallavaram tehsil, Kanchipuram district, Tamil Nadu. The airport reference point is located at latitude 12°59'41.7"N and longitude 80°10'31.8"E at an average field elevation of 20 m above sea level.
3. The environmental clearance for the existing airport has been issued by MoEF&CC vide letter no. 10-140/2007-IA (III) dated 25th August, 2008.
4. Terms of Reference (ToR) for the proposal was granted by MoEF&CC vide F No 10-61/2016-IA-III, dated 26th October, 2016.
5. Public hearing for the proposed project was conducted by Tamil Nadu Pollution Control Board, on 25th April, 2018 under the supervision of District Collector, who presided over the PH meeting, as per the Environment Impact Assessment Notification dated 14th September 2006. Based on the proceedings of the public hearing, the EIA report has been upgraded and submitted for the Environmental Clearance to the Ministry of Environment, Forests and Climate Change, New Delhi.
6. The land in possession by AAI is around 1301.28 acres. Phase-II modernization of Chennai airport project shall include:
 - Demolition and reconstruction of old domestic terminal (T2)
 - Demolition and reconstruction of old International terminal (T3):
 - Re-construction of airside corridor for seem-less integration.
 - Interfacing provision in the new terminal for future connection of tunnel from satellite terminal
 - Augmentation of contact bays:
 - Development of multi-level car park:
 - Development of integrated common user cargo complex, after demolishing the old unused terminal at Meenambakkam; and


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- ♦ Development of contact bays for category E cargo freighters etc.

Subsequently, the PP has obtained Amendment on the said Environmental Clearance from MOEF&CC vide F.No. 10-61/2016-1A-III Dt. 21.12.2018 & 25.10.2019 respectively.

Now, the PP has applied for the following amendment to SEIAA-TN.

01.	Demolition and reconstruction of old domestic terminal (T2) (Total construction area not specified)	Proposed area and to be included 60,300 sqm in Phase – II Modernization	Available in EIA final report (May 2018) at (Table 1.1 at Page No. C1-3) & (Table 2.8 at Page No. C2-26)
02.	Demolition and reconstruction of old domestic terminal (T3) (Total construction area not specified)	Proposed area and to be included 1,08,500 sqm in Phase – II Modernization	Available in EIA final report (May 2018) at (Table 1.1 at Page No. C1-3) & (Table 2.8 at Page No. C2-26)
03.	Data to be included	Proposed Standby DG Sets 2000 KVA – 11 Nos.	The total no of existing standby DG set details was mentioned as follows in (Table 2.11 at Page No. C2-35) 1500 KVA – 8 Nos. 1500 KVA – 4 Nos.

		Total - 12 Nos.
		To be changed as 2000 KVA - 11 Nos Instead of 1500 KVA - 12 Nos.

The proposal was placed for appraisal in this 351st SEAC meeting held on 03.02.2023. During the deliberation the PP has informed that they had already obtained amendment in the Environment Clearance vide F.No. 10-61/2016-IA-III Dt. 26.6.2018 from MOEF&CC for the inclusion of certain details in the EC which was furnished in the detailed EIA report. The PP also furnished the copy of rejection letter received from MOEF&CC for the proposal submitted vide IA/TN/MIS/294487/2022.

Further SEAC noted that, the MOEF&CC has issued the OM vide F.No. 22-47/2018-IA.III [E 114368] dt 12.10.2022 has stated the following

The project or activities related to "Airports" are covered in the Schedule-I to EIA Notification, 1994 and also in the item 7(a) of the Schedule to EIA Notification, 2006 and hence, the development of new airport and expansion or modernization of existing airports require prior environmental clearance under both the notifications.

As part of ongoing systemic reforms in the Environment Clearance (EC) process, Ministry of Environment, Forest and Climate Change (MoEF&CC) vide Notification S.O. 1886(E) dated 20/04/2022 has delegated the powers to State Level Environmental Impact Assessment Authorities (SEIAAs) to appraise projects related to expansion of Airports, including airstrips for commercial use.


Subsequently, vide Notification S.O. 3194(E) dated 14/ 07/ 2022, it was notified that in case there is expansion of only terminal buildings and allied buildings within the existing Airport premises, it will require Environmental Clearance only if expansion is >20,000 sq.mtrs of built-up area, and such expansion up to 1,50,000

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sq.mtrs of built-up area shall be appraised as per provisions of item 8(a) of Schedule to the ETA Notification, 2006 provided there is no increase in the existing area of the Airport.

The Ministry is in receipt of requests for further clarification on the issues related to applicability of EIA Notification 2006 for maintenance of Airports. In this context, it is clarified that re-carpeting/maintenance of runway and apron, maintenance works of terminal buildings and allied building such as Air Traffic Control (ATC) etc. do not require Environmental Clearance (EC) as per the provision of EIA Notification 1994 and EIA Notification, 2006, unless it involves expansion/modernization. However, the project proponent shall ensure compliance to the Construction and Demolition Waste Management Rules, 2016, while undertaking the aforementioned repair and maintenance work.

The SEAC being satisfied with the information provided and submission made by the PP, recommended the following amendment in the EC issued vide F.No. 10-61/2016-IA-III Dt. 26.6.2018.

01.	Demolition and reconstruction of old domestic terminal (T2) (Total construction area not specified)	Proposed area and to be included 60,300 sqm in Phase - II Modernization	Proposed area and to be included 60,300 sqm in Phase - II Modernization
02.	Demolition and reconstruction of old domestic terminal (T3) (Total construction area not specified)	Proposed area and to be included 1,08,500 sqm in Phase - II Modernization	Proposed area and to be included 1,08,500 sqm in Phase - II Modernization

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03.	Data to be included	Proposed Standby DG Sets 2000 KVA – 11 Nos.	Standby DG Sets 2000 KVA – 11 Nos
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1. All other conditions stipulated in the EC granted vide vide F.No. 10-61/2016-IA-III Dt. 26.6.2018 and subsequent amendment vide Letter Dt. 21.12.2018 & 25.10.2019 shall remain unchanged.

Agenda No: 351- TA 01

(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)

Earlier, 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


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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.

INSPECTION PROCEEDINGS:

A subcommittee comprising the following members was constituted by SEAC to inspect and study the field condition of the proposal seeking Environmental Clearance in Sethurayanpudur Village, Manur Taluk, Tirunelveli District, Tamil Nadu.


Dr.G.Anne Josephine Selvam, Member/SEAC - TN

Dr.P.Balamadeswaran, Member/SEAC - TN

The sub-committee visited the site on 29.01.2023 and it has been observed from the report submitted by the committee that

- G.O.Ms.No.762 over an extent of 29.895 Hectares is one of the 2 Leases being operated in combined manner. Fencing and security guard was available.
- As per Amended MMDR Act 2015, validity of the Lease is dedared up to 31.03.2030.
- There is no habitation within 500 meter radius area from the mining lease boundary.
- There was no mining activities in the Pit.
- Rain water accumulated in part of bottom bench of West Block.
- During Violation Period, mechanised systematic mining activities, with drilling and controlled blasting were carried out in the Lease.
- The waste rocks generated during mining was dumped partially within and outside mining lease area. The proponent informed that, the waste dumps outside mining lease was dumped prior to 2013 as per the proposals in the approved mining plans/ schemes. The abandoned part of waste dumps outside mining lease area was found with natural vegetation.
- No Ground Water-table intersection in the existing benches.


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- Dedicated road from Mine Pit to Cement Plant has been formed for transport of mineral and no transportation through village road (even during the Violation Period).
- Green Belt was developed on combined basis along the periphery of Mine Pits including in Safety Barriers.
- Garland Drains are provided along the periphery of the limestone mine.
- Mineral exploration was done by the proponent and existence of Limestone is proved up to 100 meters BGL.
- The PP has conducted a need analysis in 9 Government schools located with 5KM from the mining area and the detailed report with cost estimate of requirements identified was presented to the subcommittee during inspection and the same is included in CER budget.
- Various CSR activities done by ICL in previous years as per CSR Policy of the Company, was reported.
- An Occupational Health Centre in ICL colony for Employee's as well as for their dependent's medical emergency.
- PP informed that, as suggested by the committee under NRAP solar energy utilization in the mines building and roads is included.
- PP also informed that, so far 51 numbers of wind mills totalling 18.65 megawatts is already installed in various parts of Tamil Nadu for the development of non-renewable energy system.
- The PP has also agreed for usage/ replacement of electric vehicles as against diesel light vehicles and its implementation in phased manner within the plant premises for reducing the plant power consumption. Further, the local hired vehicles used for the transportation of ROM to the plant by providing employment opportunities to the local villagers.
- The PP have informed that the pit / mine water is basically an accumulation of seasonal rain water and it is being used exclusively for the mine related activities such as dust control, etc and no mine water is being supplied currently outside the


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lease area for surrounding agricultural activities as they are being carried out successfully with the help of the wells.

- The PP have shown the surrounding agricultural activities being carried out in the surrounding villages through well-water irrigation which justifies that the ground water table is not being affected by the mining activities.
- The PP have also committed to find out the possible scenario of converting the existing pit into an 'Eco-Park' depends upon the existence of economic worthiness of the limestone deposit below the present ultimate depth and subject to the legal permission from the competent authorities.
- The mining activities were stopped from February 2015 and there was no production from this Mine since then.
- The PP has paid Rs.16,83,87,371/- as penalty for the excess production quantity of 15,29,461 tonnes for the period from 2000-01 to 2014-15 and obtained NOC from the Commissioner of Geology and Mining, Chennai vide Letter RC.No.7122/MM5/2018 dated 16.12.2022.

It was reported that the Sub-Committee have carefully examined all the replies furnished by the PP during the discussions and satisfied with the responses furnished by the PP.

DAMAGE COST EVALUATION

SEAC Sub-committee inspected the project site and the documents of project cost details were verified which are as follows:

The level of damages are assessed by the following criteria:

1. Low level Ecological damage: Only procedural violation – work/operation at site without obtaining EC.
2. Medium level Ecological damage:
 - a. Procedural violation started the construction at site or operation without obtaining EC.
 - b. Infrastructural violation such as deviation from awarded EC, CTO & Mining Plan approvals..

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

Thus, the Proposal falls in **Low Level Ecological Damage**.

As the Proposal falls in **Low Level Ecological Damage** and EMP measures were in place during the Violation Period, the Sub-Committee is of the opinion that the higher Environmental Compensation value has been arrived **based on the EIA Model** (as proposed by the Proponent) is **Rs.43,38,000/-** which is higher than the other estimation - Environmental Compensation values of **Rs. 35,87,400/- arrived on SEAC-TN model**. Therefore, the value of **Rs. 35,38,000/-** must be compensated for Remediation, Natural Resource Augmentation and Community Resource Augmentation plans in accordance with the MoEF & CC Guidelines accordingly.

1	Cost of Ecological Damage Remediation Plan	9,43,000
2	Natural Resource Augmentation Plan	11,20,000
3	Community Resource Augmentation Plan	14,75,000
Grand Total		35,38,000

The Project cost is **Rs. 258.42 Lakhs**. CER budget at 2% of the Project cost is arrived as **Rs 5.16 Lakhs**. However, the revised CER budget of **Rs.8.0 Lakhs** provided under damage assessment based on need-based study.

However, the PP had already committed to provide the following budget towards the Corporate Environmental Responsibility (CER) during the SEAC appraisal meeting.


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1	Repair work in Boys & Girls Urinals with provision of GI roofing sheet and provision of Soak Pit in Panchayathu Union Middle School, Thalaiyuthu.	45 students (Boys-25 & Girls-20)	1.50
2	Construction of separate toilet for Girls in Panchayathu Union Primary School, Vadakku Thalaiyuthu.	51 Girls	1.20
3	Construction of additional toilet in Dr. Ambedkar Government Adi Dravida Welfare Higher Secondary School (boys), Nallammalpuram.	250 Boys	3.50
4	Donation of RO water treatment plant for Dr. Ambedkar Government Adi Dravida Welfare Higher Secondary Schools (boys) & (girls), Nallammalpuram.	250 Boys 207 Girls	1.80
Total			8.00

STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs. 35,38,000/- has to be given to TNPCB for successful implementation of the Schemes in 1 year period. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. CER fund of Rs.8,00,000/- has to be spent by M/s. India Cements Limited directly and receipt has to be produced to SEAC/SEIAA-TN for awarding the EC.
3. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

RECOMMENDATIONS

1. The SEAC Sub-Committee observed that the Mining of Limestone in an extent of 29.895 Ha SF No. 110, 172/1 & 174, etc for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the subcommittee opines the **grant of Environmental Clearance** for Mining of Limestone in an extent of 29.895 Ha SF No. 110, 172/1 & 174, etc of M/s. India Cements Limited **may be recommended** subject to the following conditions in addition to the normal conditions:


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2. The amount prescribed for Ecological remediation (Rs. 9.43 Lakhs), natural resource augmentation (Rs. 11.20 lakhs) & community resource augmentation (Rs. 14.75 Lakhs), totaling Rs. 35.38 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 35.38 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
3. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
4. The amount committed by the Project proponent for CER (Rs. 8.00 lakhs) shall be remitted in the form of DD to the beneficiary for the activities as committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.
5. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
6. The company shall produce the 'No Dues Certificate' obtained from the State Government i.e. Department of Geology & Mining to the SEIAA before grant of EC.
7. The proposed action plan for green belt development shall be maintained in 33 % of the overall project area including the safety berms of the ultimate benches after completing the quarrying operation.
8. As discussed with the Sub-Committee during the inspection, Bio remediation using microorganisms shall be carried out at the end of the mining to restore the soil environment to enable carbon sequestration.
9. Within two years from the commencement of mining operation, as committed during the inspection, the PP shall start a Diploma Course in the Mining Engineering discipline in their company owned & Govt-aided Polytechnic college, namely,


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Sankar Institute of Polytechnic, Tirunelveli for producing the qualified diploma mining engineers to meet the requirements of mining & mineral industries located in the state of Tamil Nadu.

10. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
11. The PP shall carry out the scientific studies to ~~assess the slope stability~~ of the quarry wall benches and waste dumps within one year of the commencement of the mining operations, 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.
12. Within one year from the commencement of mining operations, the PP shall carry out the scientific studies comprising all the operating leases located in a cluster situation, on '**Design of Controlled Blast Techniques** for reducing the cumulative impact of blast-induced ground & air vibrations caused due to quarry blasting operation involving NONEL /Electronic initiation systems', 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.
13. The PP shall carry out the **comprehensive hydrogeological studies** within a period of two years from the commencement of the mining operations 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. 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 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 EMP furnished.
17. 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.
18. Besides, as committed by the PP, an additional CER amount of Rs.5.0 Lakhs is earmarked towards carrying out the desired Mitigation activities in line with Conservation Plan demarcated for the Gangaikondan Spotted Deer Sanctuary and will be spent within one year from the commencement of mining operations in consultation with DFO, District Forest Department, Tirunelveli.

The above Sub-committee report was placed in this 351st Meeting of SEAC held on 03.02.2023. After detailed deliberation, the SEAC accepted the recommendation of the Sub-committee and decided to recommend the proposal for grant of Environment Clearance for the total ROM production of 24,99,720 tonnes which includes 19,99,776 tonnes of Usable Limestone and 4,99,944 tonnes of Interstitial waste with an ultimate


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depth of mining 58 m below ground level and the annual peak production of 3,99,981 tonnes of Limestone subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The amount prescribed for Ecological remediation (Rs. 9.43 Lakhs), natural resource augmentation (Rs. 11.20 lakhs) & community resource augmentation (Rs. 14.75 Lakhs), totaling Rs. 35.38 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 35.38 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
- 3) The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
- 4) The amount committed by the Project proponent for CER (Rs. 8.00 lakhs) shall be remitted in the form of DD to the beneficiary for the activities as committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.
- 5) The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.


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- 6) The company shall produce the 'No Dues Certificate' obtained from the State Government i.e. Department of Geology & Mining to the SEIAA before grant of EC.
- 7) The proposed action plan for green belt development shall be maintained in 33 % of the overall project area including the safety berms of the ultimate benches after completing the quarrying operation.
- 8) As discussed with the Sub-Committee during the inspection, Bio remediation using microorganisms shall be carried out at the end of the mining to restore the soil environment to enable carbon sequestration.
- 9) Within two years from the commencement of mining operation, as committed during the inspection, the PP shall start a Diploma Course in the Mining Engineering discipline in their company owned & Govt-aided Polytechnic college located in Tirunelveli, for producing the qualified diploma mining engineers to meet the requirements of mining & mineral industries located in the state of Tamil Nadu.
- 10) The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides reviewing the compliance reports with the regulatory authorities.
- 11) The PP shall carry out the scientific studies to assess the slope stability of the quarry wall benches and waste dumps within one year of the commencement of the mining operations, 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.
- 12) Within one year from the commencement of mining operations, the PP shall carry out the scientific studies comprising all the operating leases located in a


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cluster situation, on 'Design of Controlled Blast Techniques for reducing the cumulative impact of blast-induced ground & air vibrations caused due to quarry blasting operation involving NONEL /Electronic Initiation systems', 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.

- 13) The PP shall carry out the comprehensive hydrogeological studies within a period of two years from the commencement of the mining operations 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. 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 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 EMP furnished.
- 17) 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.

- 18) Besides, as committed by the PP, an additional CER amount of Rs.5.0 Lakhs is earmarked towards carrying out the desired Mitigation activities in line with Conservation Plan demarcated for the Gangaikondan Spotted Deer Sanctuary and will be spent within one year from the commencement of mining operations in consultation with DFO, District Forest Department, Tirunelveli.

Agenda No: 351 –TA-02

(File No.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 earlier in the 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, has 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.


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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. On receipt of the same, SEAC would further deliberate on this project. The sub-committee visited the project site on 28.01.2023 and it has been observed from the report furnished are as follows:

Name of Project	Nanjankulam (Regrouped) Limestone Mine (G.O.Ms.No 526)
Project Proponent	M/s. The India Cements Limited
Location of mine	Ramayanpatti Village SF Nos. 381/1, 382/3, 387/1, 387/3, 512/1 & 512/3
Category of Project	B1
Proposed Capacity per Annum	0.36 LTPA of usable Limestone
Mine Lease Area	7.330 Ha
Life of Mine	19 years (up to 30.08.2042)
Total Working Day/Year	300 days
Total Number of workers employed	20
Total Water Requirement & Source	27.5 KLD & Source – Rain water collected in Mine pit
Latitude & Longitude	Latitude : 8°47'54.79"N to 8°47'39.47"N Longitude: 77°40'51.18"E to 77°40'41.92"E
Topo Sheet number	58 H/9
Eco Sensitivity	Gangaikondan Spotted Deer Sanctuary is located 8.5 km in NE direction and Talalyuthu Reserved Forest is located 3.5km in NE direction. There are no other Eco Sensitive Areas like National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Sites, Tiger/Elephant Reserves, Reserved Forests, etc. (existing as well as proposed) within 10 km from the Lease.
Type of Land	Patta Land of ICL

Method of Mining	Opencast Mechanized Conventional Method with Drilling & Blasting is adopted
Bench parameters	Height 10 meters & Width more than 10 meters
Depth of Mining	53.5 m BGL (maximum depth)
Dimension of the Pit -Ultimate	223 (L) x 164 (W) x 73 m (Depth) for east block and 19 (L) x 21 (W) x 3 m (Depth) for west block
Nearest railway station	Talaiyuthu RS – 7.8Km
Nearest Highway	Tirunelveli to Sankarankovil SH41 – 1.6Km Kanyakumari to Bangalore NH-44 – 5.6Km
Nearest air port	Thoothukudi Airport at 49 km by road
Seismic zone	Zone-III
Cost of the project	Rs.97.93 Lakhs

Mining Lease Details

1	G.O.Ms.No. 526 Industries (MMD.2) Department	31.12.1991	7.330	5	31.08.1992 to 17.10.1997	Grant of Lease
2	Application for First Renewal	17.05.1996	7.330	20	18.10.1997 to 17.10.2017	Under Deemed Extension
3	MMDR (Amendment) Act, 2015	.	28.430	-	30.08.2042	-

Mining Plan Details

Sl. No.	Mining Plan/Scheme	Year	Approval vide IBM Letter Reference
1	Mining Plan	1989	TN/TNL/MP/LST-06-MDS dated 19.01.1989
2	Mining Plan	1997	TN/TNL/MP/LST-928.MDS dated 06.02.1997
3	Scheme of Mining	2003	TN/TNL/Lst/MS /155/SZ dated 30.04.2003
4	Scheme of Mining	2009	TN/TNL/LST/MS-506-SZ dated 24.07.2009
5	Scheme of Mining	2013	TN/TNL/LST/MS-872-SZ/1890 dated 06.11.2013
6	Review of Mining Plan	2017	TN/TNL/LST/ROMP-1419.MDS dated 29.05.2017

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7	Review of Mining Plan	2021	TN/TNL/LST/ROMP-1669.MDS dated 06.12.2021
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Details of Mining

1	Method of mining	Opencast mechanized mining with drilling blasting, hydraulic shovel, Tipper etc.
2	Geological reserve	2.99 Million Tonnes
3	Mineable reserve available- As on 01.09.2020	1.22 Million Tonnes
4	Proposed production per Annum	36,000 TPA
5	Elevation range of the mine site	88m MSL in the north to 68m MSL on the south.
6	Bench height	10 m
7	Bench width	More than bench height
8	Bench slope	10 - 15° to vertical
9	Proposed Depth of mining	73 m BGL (ultimate depth)
10	Life of mine	19 years (up to 30.08.2042)

Proposed Production Details

As per the Review of Mining Plan approved by Indian Bureau of Mines vide letter no. TN/TNL/LST/ROMP-1669.MDS dated 06.12.2021, the proposed production is as follows.

1	2022-23	70680	15780	54900	218862	18973	1:0.97
2	2023-24	218862	162757	56105	20268	20268	1:5.11
3	2024-25	57335	3360	53975	18139	18139	1:0.6
4	2025-26	124141	69920	54221	18332	18332	1:2.46

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5	2026-27	59330	2300	57030	35948	21087	1:0.65
Total		530348	254117	276231	175432	96799	1:1.95

Violation Category

The mine was working since the year 1992 which is prior to EIA Notification 1994. M/s. The India Cements Limited initiated action for obtaining Environmental Clearance from MoEF&CC on 09.12.2013. The mining operations temporarily stopped from 2014. Initially Form - 1. TOR and feasibility report was submitted to MOEF&CC, New Delhi. While appraising the project to the Expert Appraisal Committee for Terms of Reference, it was observed by the Expert Appraisal Committee that, this is a case of violation of Environment (Protection) Act, 1986 since mining was done without prior EC.

1	Valid EC	X	Mine was working since the year 1992 which is prior to EIA Notification 1994.	Prior EC not obtained
2	Valid CTO	✓	Common CTO were obtained vide Order No. 9848 (Water Act) and 7045 (Air Act) dated 29.10.1992.	There is No Violation in this regard.
3	Valid Mining Plans/Schemes	✓	IBM has accorded the periodic Approvals for Mining Plans/Schemes of the Mine. Latest Review of Mining Plan was approved by IBM vide letter no. TN/TNI/LST/ROMP-1669.MDS dated 06.12.2021. Present ROMP is valid till 31.03.2027.	There is No Violation in this regard.
4	Forest Clearance	-	No Forest Land involved.	Not Applicable
5	Transport Permits	✓	ICL has obtained the required Transport Permits.	There is No Violation in this regard.
6	Any other Violation	-	Nil	Nil

The recurring cost of the EMP measures will be continued till the life of the mine.


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Ecological Damage Assessment

Ecological damage assessment during the violation period was done by PP considering the following factors:

- Systematic mining with proper benching is in place.
- DGMS permission under rule 106 (2)(b) for using heavy earth moving machinery and bench pattern was obtained.
- Adequate statutory manpower like qualified Mines managers, blasters, mine mate were engaged.
- Mitigative measures like effective water sprinkling, wet drilling, proper drainage arrangements, plantation, OHS measures were in place & no adverse impact on environment was caused during violation period.
- Controlled blasting with proven bench parameters using millisecond delay detonators was carried out.
- No waste dumping outside lease area after IBM circular dated 10.01.2013 was made.
- Material transportation was through dedicated transport road of ICL only. There were no habitation then along the road since beginning of mine. However habitations developed near to road in few areas in recent past.
- Presence of ground water in the adjacent observation well of ICL and bore well throughout the year indicate no hydraulic connectivity in between and it can be concluded no intersection of ground water table.
- Only Rain water collected in the mine sump was used for dust suppression and plantation.
- Mining activity in these leases were stopped much before enactment of Year 2017 violation procedure of MoEF& CC.
- The lime stone requirement of the ICL Sankarnagar cement plant was met from different captive mines of ICL. Though there is variation in production from a lease in different year, the overall annual production achievement was to meet the same

need and as such no adverse increase in pollution load during violation period in the region envisaged.

- LULC Study using satellite Imagery to understand the variations in land use categories by comparing the land use prior to the violation period and presently reveal no major adverse impact on the land use due to mining operations during the violation period.
- NDVI Analysis to identify any changes in vegetation cover prior to the violation period and presently, to see if the mining activities impacted the ecology of the area show that that in the Mine lease area, there is no major change with respect to vegetation cover. However, in the 2 km buffer zone, there seems to be an improvement with regards to vegetation as the values show an increase of the NDVI Index.

Apart from the above, scientific studies carried out in the mining area during the violation period and the same is given below

Scientific Studies Carried out & Observation

1	Systematic mineral exploration carried out in the mine during 1982, 1991 & 2013 for proving the Limestone occurrence, geometry & grade.	Entire mining lease area has been explored and proved as per the guidelines of Ministry of Mines, Govt. Of India and Geological resources and mineable reserves has been estimated. The exploration details incorporated in the mining plan/ Review of Mining Plan approved by IBM and followed the same during mining.
2	Design of slope angles at Nanjankulam Limestone Mines by National Institute of Rocks Mechanics, Kolar during 1992.	It was recommended to maintain 45 to 50 degrees overall slope angle in the mine and the same is being maintained.
3	Blast induced ground vibration study by	The study observed that, the peak particle velocity is within the limits and there is no


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	Department of Mining Engineering, Anna University, Chennai during 2003.	adverse effect due to blasting within 1KM region.
4	Hydrogeology study done by University of Madras, Chennai during 2020.	The study observed that, the existing hydro geological condition in the mines area indicates that there is no adverse environmental impact on the groundwater/ surface water regime.

During the discussion with the sub-committee, the PP also informed the following details:

- The proponent also mentioned that, the mine was awarded with various prizes in systematic mining, mineral conservation and safety measures taken in Mines Environment and Mineral Conservation Week celebrations conducted under the guidance of IBM and Mines Safety Week Celebrations conducted under the guidance of DGMS.
- Geologically the area in and around the lease area contains metamorphosed crystalline limestone, associated with calc gneiss and quartzite of Archaean. As such there no major vegetation or agricultural activities are observed.
- Due to poor soil condition and non-availability of perineal water source, no major agricultural activity is carried out in and around the lease area. Only patches of plantation are observed in few places in the monsoon season based on water availability.
- It will be ensured that mining will be carried out adhering to all the statutory rules and regulations, appointing statutory personnel's like qualified mines manager, blaster, informing DGMS before commencement of mining operations and maintaining the environmental quality within the prescribed standards by effective implementation of various mitigative measures.
- As such release of Greenhouse gases (GHG), rise in temperature, affecting livelihood of the local people , loss of Agriculture, Forestry and Traditional Practices is not envisaged. Such a limited scope will not induce any climatic change leading to droughts, floods etc.

- No adverse impact on the surrounding environment is envisaged from this project since the number of equipment's to be used to achieve this production is less and the magnitude of operation is of low level.
- Certified vehicles with low carbon emissions will only be used. These equipment's will be properly and regularly maintained. Besides, regular vehicular emission tests will be done for the transport vehicles to ensure minimal impact due to carbon emissions. To further mediate the carbon emissions, a good greenbelt and plantation plan has been already in place & will be extended in and around the lease area during the operating period.
- Mine closure plan is prepared for the lease period and already included in the approved mine plan report. However, the mineral conservation point of view, the PP have initiated the measures by seeking the necessary statutory & other legal permissions to carry out the 'Dump Mining' through scientific & systematic manner from the waste dumps situated around the pit. In later stage, it may also allow the Government to extract the valuable limestone existing below the present ultimate pit depth as defined in the approved mining plan. Hence, the PP will submit the final Mine Closure Plan (FMCP) to the concerned authorities, i.e., L.B.M., accordingly one year before the stipulated closure period.
- Due to absence of perennial water bodies nearby where in any marine ecosystem is observed, no effect on this front is also expected.
- Hydrological investigation shows that the all-time ground water table in this area is much below the mining level. Hence, ground water intersection is not envisaged for the entire life of the mine and ground water will not be affected due to the quarrying operation. As such there will not be any adverse impact on the ground water regime.
- G.O.Ms.No.526 over an extent of 7.330 Hectares is one of the 2 Leases being operated in combined manner. Fencing and security guard was available
- There is no habitation within 500 meter radius area from the mining lease boundary.
- ~~There was no mining activities in the Pit.~~


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- Rain water accumulated in the Pit and atleast 2 bottom most benches are covered in water.
- During Violation Period, mechanised systematic mining activities, with drilling and controlled blasting were carried out in the Lease.
- The waste rocks generated during mining was dumped partially within and outside mining lease area. The proponent informed that, the waste dumps outside mining lease was dumped prior to 2013 as per the proposals in the approved mining plans/ schemes. The abandoned part of waste dumps outside mining lease area was found with natural vegetation.
- No Ground Water-table intersection or seepage was noticed in the existing benches.
- Dedicated road from Mine Pit to Cement Plant exists for transport of mineral and no transportation through village road (even during the Violation Period).
- Green Belt was developed on combined basis along the periphery of Mine Pits including in Safety Barriers.
- Garland Drains are provided along the periphery but its maintenance has to be improved.
- Mineral exploration was done by the proponent and existence of Limestone is proved up to 83 meters BGL.
- As per the direction given in EC consideration meeting held on 20.01.2023, ICL has conducted a need analysis in 9 Government schools located with 5KM from the mining area and the detailed report with cost estimate of requirements identified was presented to the subcommittee during inspection and the same is included in CER budget.
- Various CSR activities done by ICL in previous years as per CSR Policy of the Company, was reported.
- An Occupational Health Centre in ICL colony for Employee's as well as for their dependent's medical emergency.
- PP informed that, as suggested by the committee under NRAP solar energy utilization in the mines building and roads is included and action is taken towards its implementation is initiated (schematic diagram is enclosed).
- PP also informed that, so far 57 numbers of wind mills totalling 18.65 megawatts is already installed in various parts of Tamil Nadu.
- As suggested by the Committee, the PP has also committed for usage/ replacement of electric vehicles as against diesel light vehicles and its implementation is phased

manner within the plant premises for reducing the plant power consumption. Further, the local hired vehicles used for the transportation of ROM to the plant by providing employment opportunities to the local villagers.

- The PP have informed that the pit / mine water is basically an accumulation of seasonal rain water and it is being used exclusively for the mine related activities such as dust control, etc and no mine water is being supplied currently outside the lease area for surrounding agricultural activities as they are being carried out successfully with the help of the wells.
- The PP have shown the surrounding agricultural activities being carried out in the surrounding villages through well-water irrigation which justifies that the ground water table is not being affected by the mining activities.
- The PP have also committed to find out the possible scenario of converting the existing pit into an 'Eco-Park' depends upon the existence of economic worthiness of the limestone deposit below the present ultimate depth and subject to the legal permission from the competent authorities.
- The mining activities were stopped from April 2014 and there was no production from this Mine since then.

The Sub-Committee have carefully examined all the replies furnished by the PP during the discussions and satisfied with the responses furnished by the PP.


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DAMAGE COST EVALUATION

SEAC Sub-committee inspected the project site and the documents of project cost details were verified which are as follows:

The level of damages are assessed by the following criteria:

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

Thus, the Proposal falls in **Low Level Ecological Damage**.

As the Proposal falls in Low Level Ecological Damage and EMP measures were in place during the Violation Period, the Sub-Committee is of the opinion that the higher Environmental Compensation value has been arrived based on the EIA Model (as proposed by the Proponent) is Rs.9,50,000/- which is higher than the other estimation - Environmental Compensation values of Rs. 8,79,600 arrived on SEAC-TN model. Therefore, the value of Rs. 7,50,000/- must be compensated for Remediation, Natural Resource Augmentation and Community Resource Augmentation plans in accordance with the MoEF & CC Guidelines accordingly.

1	Cost of Ecological Damage Remediation Plan	2,00,000
2	Natural Resource Augmentation Plan	2,50,000
3	Community Resource Augmentation Plan	3,00,000
Grand Total		7,50,000

The Project cost is Rs.97.93 Lakhs. CER budget at 2% of the Project cost is arrived as Rs 1.96 Lakhs. However, the revised budget of Rs.2.0 Lakhs provided under damage assessment based on need-based study.


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However, the PP had already committed to provide the following budget towards the Corporate Environmental Responsibility (CER) during the SEAC appraisal meeting.

1	Boys urinals construction, girls urinals repair and construction of damaged part of compound wall in Panchayath Union Primary School, Pandarakulam	39 students	1.90
2	Sanitary Incinerator for Panchayath Union Middle School, Thalaiyuthu.	45 students	0.10
Total			2.00

STATUTORY PROCEDURES TO BE FOLLOWED:

1. The Bank Guarantee for Rs.7,50,000/- has to be given to TNPCB for successful implementation of the Schemes in 1 year period. The Bank Guarantee will be released after successful Implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. CER fund of Rs.2,00,000/- has to be spent by M/s. India Cements Limited directly and receipt has to be produced to SEAC/SEIAA-TN for awarding the EC.
3. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

RECOMMENDATIONS

1. The SEAC Sub-Committee observed that the Mining of Limestone in an extent of 7.330 Ha SF No. 382/1,382/3, 387/1, etc for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the subcommittee opines the grant of Environmental Clearance for Mining of Limestone in an extent of 7.330 Ha SF No. 382/1,382/3, 387/1, etc of M/s. India Cements Limited may be recommended subject to the following conditions in addition to the normal conditions:
2. The amount prescribed for Ecological remediation (Rs. 2.00 Lakhs), natural resource augmentation (Rs. 2.50 Lakhs) & community resource augmentation

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(Rs. 3.00 Lakhs), totaling Rs. 7.50 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 7.50 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.

3. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
4. The amount committed by the Project proponent for CER (Rs. 2.00 lakhs) shall be remitted in the form of DD to the beneficiary for the activities as committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.
5. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac. 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
6. The company shall produce the 'No Dues Certificate' obtained from the State Government i.e. Department of Geology & Mining to the SEIAA before grant of EC.
7. The proposed action plan for green belt development shall be maintained in 33 % of the overall project area.
8. As discussed with the Sub-Committee during the inspection, Bio remediation using microorganisms shall be carried out at the end of the mining to restore the soil environment to enable carbon sequestration.
9. Within two years from the commencement of mining operation, as committed during the inspection, the PP shall start a Diploma Course in the Mining Engineering discipline in their company owned - Govt-aided Polytechnic college situated in Tirunelveli for producing the qualified diploma mining engineers to

meet the requirements of quarrying & mineral industries located in the state of Tamil Nadu.

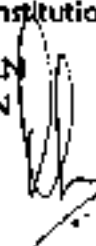
10. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
11. The PP shall carry out the scientific studies to assess the slope stability of the quarry wall benches and waste dumps within one year of the commencement of the mining operations, 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.
12. Within one year from the commencement of mining operations, the PP shall carry out the scientific studies comprising all the operating leases located in a cluster situation, on 'Design of Controlled Blast Techniques for reducing the cumulative impact of blast-induced ground & air vibrations caused due to quarry blasting operation Involving NONEL /Electronic initiation systems', 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.
13. The PP shall carry out the comprehensive hydrogeological studies within a period of two years from the commencement of the mining operations 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

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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, CEC Campus, and University of Madras -Dept of Applied Geology, Chennai etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.

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 EMP furnished.
17. 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.
18. Besides, as committed by the PP, an additional CER amount of Rs.5.0 Lakhs is earmarked towards carrying out the desired Mitigation activities in line with Conservation Plan demarcated for the Gangaikondan Spotted Deer Sanctuary and will be spent within one year from the commencement of mining operations in consultation with DFO, District Forest Department, Tirunelveli.

The site inspection report was placed in the 351st meeting of SEAC held on 03.02.2023. The SEAC, after detailed discussions decided to recommend for the grant of Environmental Clearance under violation category for the proposed production quantity of RoM- 2,67,231 Tonne, Usable Limestone- 1,79,432 Tonne and Interstitial Waste-

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96,799 Tonne and the annual peak production shall not exceed 35943 Tonne with an ultimate depth of not exceeding 73 m BGL subject to the conditions as recommended above, standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific condition:

- 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.

Agenda No: 351- TA 03

(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 351st Meeting of SEAC held on 03.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

5. 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.
6. The proposed quarry/activity is covered under Category "B" – "Under Violation" of Item I(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
7. ToR under violation exempted from public hearing was issued vide SEIAA Lr. No. SEIAA-TN/F.No.6689/SEAC/ TOR- 675/2019 Dated: 19.12.2019.
8. EIA report submitted on 02.01.2023.
9. Earlier the proposal was placed in 347th SEAC meeting held on 13.01.2023.

During the meeting, the Proponent informed that he has already submitted the


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final EIA Report at the office of SEIAA in the month of January. Hence, the Committee after detailed discussion decided to consider the proposal in the ensuing meeting.

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.

Based on the above, The State Expert Appraisal Committee (SEAC) Tamil Nadu constituted a sub-committee vide its Lr No. SEAC-TN/MIN/6688, 6689 & 6690/2022, dated. 27.01.2023, to inspect and study the field condition for the proposal seeking EC for Mining of Limestone in an extent of 28.430 Ha in SF No. Lr No. SEAC-TN/MIN/6688, 6689 & 6690/2022, dated. 27.01.2023 at Ramayanpatti Village, Manur Taluk, Tirunelveli District. The Committee comprises of Dr. G. ANNE JOSEPHINE SELVAM, Member SEAC – TN & Dr. P. BALAMADESWARAN, Member SEAC – TN.

It has been observed from the report submitted by the sub-committee that

1. Salient Features of the Project

Name of Project	Nanjankulam (Regrouped) Limestone Mine (G.O.Ms.No 813)
Project Proponent	M/s. The India Cements Limited
Location of mine	Ramayanpatti Village SF Nos. 380, 381, 383, 384, 385, 386, 388/1, 388/3, 389, 390, 391, 392 510, 511, 513 & 514.
Category of Project	B1
Proposed Capacity per Annum	2.52 LTPA of usable Limestone
Mine Lease Area	28.430 Ha
Life of Mine	8 years (up to 31.03.2030)
Total Working Day/Year	300 days
Total Number of workers employed	20

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Total Water Requirement & Source	27.5 KLD & Source – Rain water collected in Mine pit
Latitude & Longitude	Latitude : 8°47' 38.58" to 8°47' 55.46"N Longitude: 77°40' 32.58" to 77°41' 1.84"E
Topo Sheet number	58 H/9
Eco Sensitivity	Gangakondan Spotted Deer Sanctuary is located 8.2 km in NE direction and Talaiyuthu Reserved Forest is located 3.3Km in NE direction. There are no other Eco Sensitive Areas like National Parks, Wildlife Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar Sites, Tiger/Elephant Reserves, Reserved Forests, etc. (existing as well as proposed) within 10 km from the Lease.
Type of Land	Parta Land of ICL
Method of Mining	Opencast Mechanized Conventional Method with Drilling & Blasting is adopted
Bench parameters	Height 10 meters & Width more than 10 meters
Depth of Mining	56 m BGL (maximum depth)
Dimension of the Pit -Ultimate	258 (L) x 285 (W) x 56 m (Depth) for east block and 70 (L) x 297 (W) x 15 m (Depth) for west block
Nearest railway station	Talaiyuthu RS – 7.8Km
Nearest Highway	Tirunelveli to Sankarankovil SH41 – 1.4Km Kanyakumari to Bangalore NH-44 – 5.4Km
Nearest air port	Thoothukudi Airport at 49 km by road
Seismic zone	Zone-III
Cost of the project	Rs.379.81 Lakhs

2. Mining Lease Details

S.No	Sl. No.	Order No.	Date	Area (Hectares)	Period	Remarks
1	G.O.Ms.No.2400 ILC	28.04.1962	28.430	20	19.10.1962 to 18.10.1982	Grant of Lease
2	G.O.Ms.No.526	02.05.1987	28.430	5	19.10.1982 to 18.10.1987	1 st Renewal
3	G.O.Ms.No.813	03.12.1987	28.430	10	19.10.1987 to 18.10.1997	2 nd Renewal
4	Proceedings Rc.No.5143/MM4/98	18.03.2005	28.430	20	19.10.1997 to 18.10.2017	3 rd Renewal
5	MMDR (Amendment) Act, 2015		28.430	-	31.03.2030	-

3. Mining Plan Details

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1	Mining Plan	1989	TN/TNL/MP/LST-06-MDS dated 19.01.1989
2	Scheme of Mining	1997	TN/TNL/MP/LST-928.MDS dated 06.02.1997
3	Scheme of Mining	2003	TN/TNL/Lst/MS /155/SZ dated 30.04.2003
4	Scheme of Mining	2009	TN/TNL/LST/MS-507-SZ dated 22.04.2009
5	Scheme of Mining	2013	TN/TNL/LST/MS-871-SZ/1898 dated 06.11.2013
6	Review of Mining Plan	2017	TN/TNL/LST/ROMP-1418.MDS dated 29.05.2017
7	Review of Mining Plan	2021	TN/TNL/LST/ROMP-1673.MDS dated 05.11.2021

4. Details of Mining

1	Method of mining	Open cast mechanized mining with drilling blasting, hydraulic shovel, Tipper etc.
2	Geological reserve	17.36 Million Tonnes
3	Mineable reserve available-As on 01.09.2020	6.77 Million Tonnes
4	Proposed production per Annum	2.52,000 TPA
5	Elevation range of the mine site	88m MSL in the north to 68m MSL on the south.
6	Bench height	10 m
7	Bench width	More than or equal bench height; as per the permissions granted from Directorate of Mines Safety
8	Bench slope	10 - 15° to vertical
9	Proposed Depth of mining	68 m BGL (ultimate depth)
10	Life of mine	8 years (up to 31.03.2030)

5. Violation Category

The mine was working since the year 1962 which is prior to EIA Notification 1994. M/s. The India Cements Limited initiated action for obtaining Environmental Clearance from MoEF&CC on 09.12.2013. The mining operations temporarily stopped from 2014. Initially Form - 1, TOR and feasibility report was submitted to MOEF&CC, New Delhi. While appraising the project to the Expert Appraisal Committee for Terms of Reference, it was observed by the Expert Appraisal Committee that, this is a case of violation of Environment (Protection) Act, 1986 since mining was done without prior EC.


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1	Valid EC	X	Mine was working since the year 1962 which is prior to EIA Notification 1994.	Prior EC not obtained
2	Valid CTO	✓	Common CTO were obtained vide Order No. 9848 (Water Act) and 7045 (Air Act) dated 29.10.1992.	There is No Violation in this regard.
3	Valid Mining Plans/Schemes	✓	IBM has accorded the periodic Approvals for Mining Plans/Schemes of the Mine. Latest Review of Mining Plan was approved by IBM vide letter no. TN/TNL/LST/ROMP-1673.MDS dated 05.11.2021. Present ROMP is valid till 31.03.2027.	There is No Violation in this regard.
4	Forest Clearance	-	No Forest Land involved.	Not Applicable
5	Transport Permits	✓	ICL has obtained the required Transport Permits.	There is No Violation in this regard.
6	Any other Violation	-	Nil	Nil

6. OTHER OBSERVATIONS AND DISCUSSIONS

- Geologically the area in and around the lease area contains metamorphosed crystalline limestone, associated with calc gneiss and quartzite of Archaean. As such there no major vegetation or agricultural activities are observed.
- Due to poor soil condition and non-availability of perennial water source, no major agricultural activity is carried out in and around the lease area. Only patches of plantation are observed in few places in the monsoon season based on water availability.
- It will be ensured that mining will be carried out adhering to all the statutory rules and regulations, appointing statutory personnel's like qualified mines manager, blaster, informing DGMS before commencement of mining operations and maintaining the environmental quality within the prescribed standards by effective implementation of various mitigative measures.
- As such release of Greenhouse gases (GHG), rise in temperature, affecting livelihood of the local people, loss of Agriculture, Forestry and Traditional

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Practices is not envisaged. Such a limited scope will not induce any climatic change leading to droughts, floods etc.

- ♦ No adverse impact on the surrounding environment is envisaged from this project since the number of equipment's to be used to achieve this production is less and the magnitude of operation is of low level.
- ♦ Certified vehicles with low carbon emissions will only be used. These equipment's will be properly and regularly maintained. Besides, regular vehicular emission tests will be done for the transport vehicles to ensure minimal impact due to carbon emissions. To further mediate the carbon emissions, a good greenbelt and plantation plan has been planned & will be carried out in and around the lease area.
- ♦ Mine closure plan is prepared for the lease period and already included in the approved mine plan report. However, the mineral conservation point of view, the PP have initiated the measures by seeking the necessary statutory & other legal permissions to carry out the 'Dump Mining' through scientific & systematic manner from the waste dumps situated around the pit. In later stage, it may also allow the Government to extract the valuable limestone existing below the present ultimate pit depth as defined in the approved mining plan. Hence, the PP will submit the final Mine Closure Plan (FMCP) to the concerned authorities, i.e., I.B.M., accordingly one year before the stipulated closure period.
- ♦ Due to absence of perennial water bodies nearby where in any marine ecosystem is observed, no effect on this front is also expected.
- ♦ Hydrological investigation shows that the all time ground water table in this area is much below the mining level. Hence, ground water intersection is not envisaged for the entire life of the mine and ground water will not be affected due to the quarrying operation. As such there will not be any adverse impact on the ground water regime.
- ♦ G.O.Ms.No.813 over an extent of 28.430 Hectares is one of the 2 Leases being operated in combined manner. Fencing and security guard was available There was no mining activities in the Pit.
- ♦ As per Amended MMDR Act 2015, validity of the Lease is up to 31.03.2030.
- ♦ There is no habitation within 500 meter radius area from the mining lease boundary.




- During Violation Period, mechanised systematic mining activities, with drilling and controlled blasting were carried out in the Lease.
- The waste rocks generated during mining was dumped partially within and outside mining lease area. The proponent informed that, the waste dumps outside mining lease was dumped prior to 2013 as per the proposals in the approved mining plans/ schemes. The abandoned part of waste dumps outside mining lease area was found with natural vegetation.
- No Ground Water-table Intersection or seepage was noticed in the existing benches.
- Dedicated road from Mine Pit to Cement Plant exists for transport of mineral and no transportation through village road (even during the Violation Period).
- Green Belt was developed on combined basis along the periphery of Mine Pits including in Safety Barriers including the safety berms formed in the ultimate benches after the completion of the mining operations.
- Garland Drains are provided along the periphery but its maintenance has to be improved.
- Mineral exploration was done by the proponent and existence of Limestone is proved up to 83 meters BGL.
- As per the direction given in EC consideration meeting held on 20.01.2023, ICL has conducted a need analysis in 9 Government schools located with 5KM from the mining area and the detailed report with cost estimate of requirements identified was presented to the subcommittee during inspection and the same is included in CER budget.
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- An Occupational Health Centre in ICL colony for Employee's as well as for their dependent's medical emergency.
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- PP also informed that, so far 51 numbers of wind mills totalling 18.65 megawatts is already installed in various parts of Tamil Nadu.
- As suggested by the Committee, the PP has also committed for usage/ replacement of electric vehicles as against diesel light vehicles and its implementation in phased manner within the plant premises for reducing the plant power consumption. Further, the local hired vehicles used for the


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transportation of ROM to the plant by providing employment opportunities to the local villagers.

- The PP have informed that the pit / mine water is basically an accumulation of seasonal rain water and it is being used exclusively for the mine related activities such dust control, etc and no mine water is being supplied currently outside the lease area for surrounding agricultural activities as they are being carried out successfully with the help of the wells.
- The PP have shown the surrounding agricultural activities being carried out in the surrounding villages through well-water irrigation which justifies that the ground water table is not being affected by the mining activities.
- The PP have also committed to find out the possible scenario of converting the existing pit into an 'Eco-Park' depends upon the existence of economic worthiness of the limestone deposit below the present ultimate depth and subject to the legal permission from the competent authorities.

The Sub-Committee have carefully examined all the replies furnished by the PP during the discussions and satisfied with the responses furnished by the PP..

MINING PLAN APPROVALS

The Regional Controller of Mines, Indian Bureau of Mines (IBM), Chennai has accorded its Approval periodically for Mining Plans/Schemes. For present Review of Mining Plan (ROMP) for the Period 2022-23 to 2026-27 has been given approval vide Letter No. TN/TNL/LST/ROMP-1673.MDS dated 05.11.2021.

DAMAGE COST EVALUATION BY THE SUB-COMMITTEE

SEAC Sub-committee inspected the project site and the documents of project cost details were verified which are as follows:

The level of damages are assessed by the following criteria:

7. Low level Ecological damage: Only procedural violation – work/operation at site without obtaining EC.
8. Medium level Ecological damage:
 - g. Procedural violation started the construction at site or operation without obtaining EC.
 - h. Infrastructural violation such as deviation from awarded EC, CTO & Mining Plan approvals..
 - i. Non operation of the project.
9. High level Ecological damage: a. Procedural violation (started the construction or operation at site without obtaining EC).


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b. Infrastructural violation such as deviation from awarded EC, CTO & Mining Plan approvals..

c. Under Operation (occupied) without Statutory Approvals.

Thus, the Proposal falls in **Low Level Ecological Damage**.

As the Proposal falls in **Low Level Ecological Damage** and EMP measures were in place during the Violation Period, the Sub-Committee is of the opinion that the higher Environmental Compensation value has been arrived based on the EIA Model (as proposed by the Proponent) is **Rs.37,22,000/-** which is higher than the other estimation - Environmental Compensation values of **Rs. 34,11,600/-** arrived on SEAC-TN model. Therefore, the value of **Rs. 29,22,000/-** must be compensated for Remediation, Natural Resource Augmentation and Community Resource Augmentation plans in accordance with the MoEF & CC Guidelines accordingly.

1	Cost of Ecological Damage Remediation Plan	7,69,000
2	Natural Resource Augmentation Plan	9,23,000
3	Community Resource Augmentation Plan	12,30,000
Grand Total		29,22,000

The Project cost is **Rs. 379.81 Lakhs**. CER budget at 2% of the Project cost is arrived as **Rs 7.60 Lakhs**. However, the revised CER budget of **Rs.8.0 Lakhs** provided under damage assessment based on need-based study.

However, the PP had already committed to provide the following budget towards the Corporate Environmental Responsibility (CER) during the SEAC appraisal meeting.

1	Toilet renovation with painting in Government Adi Dravida Welfare Higher Secondary School (Girls) Nallammalpuram.	207 Girls	2.00
2	Separate urinals for boys & girls in Panchayath Union Primary School, Madhavakkurichi	32 students	1.50
3	Construction of additional toilet in Government Adi Dravida Welfare Higher Secondary School Thulukkarpatti.	236 students	3.50
4	Sintex tank 300 Ltrs for toilet, round tables & plastic chairs for Panchayath Union Primary School, Sethurayanpudur.	17 students	1.00


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	Total	8.00
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STATUTORY PROCEDURES TO BE FOLLOWED:-

4. The Bank Guarantee for Rs. 29,22,000/- has to be given to TNPCB for successful Implementation of the Schemes in 1 year period. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
5. CER fund of Rs.8,00,000/- has to be spent by M/s. India Cements Limited directly and receipt has to be produced to SEAC/SEIAA-TN for awarding the EC.
6. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

RECOMMENDATIONS

1. The SEAC Sub-Committee observed that the Mining of Limestone in an extent of 29.895 Ha SF No. 380,381, 383, etc for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the subcommittee opines the grant of Environmental Clearance for Mining of Limestone in an extent of 29.895 Ha SF No. 380,381, 383, etc of M/s. India Cements Limited may be recommended subject to the following conditions in addition to the normal conditions:
2. The amount prescribed for Ecological remediation (Rs. 7.69 Lakhs), natural resource augmentation (Rs. 9.23 lakhs) & community resource augmentation (Rs. 12.30 Lakhs), totalling Rs. 29.22 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 29.22 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
3. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of one year. If not, the bank guarantee will be forfeited to TNPCB without further notice.
4. The amount committed by the Project proponent for CER (Rs. 8.00 lakhs) shall be remitted in the form of DD to the beneficiary for the activities as committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN.
5. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
6. The company shall produce the 'No Dues Certificate' obtained from the State Government i.e. Department of Geology & Mining to the SEIAA before grant of EC.

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7. The proposed action plan for green belt development shall be maintained in 33 % of the overall project area.
8. As discussed with the Sub-Committee during the inspection, Bio remediation using microorganisms shall be carried out at the end of the mining to restore the soil environment to enable carbon sequestration.
9. Within two years from the commencement of mining operation, as committed during the inspection, the PP shall start a Diploma Course in the Mining Engineering discipline in their company owned & Govt-aided Polytechnic college, namely, Sankar Institute of Polytechnic, Tirunelveli for producing the qualified diploma mining engineers to meet the requirements of mining & mineral industries located in the state of Tamil Nadu.
10. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
11. The PP shall carry out the scientific studies to assess the slope stability of the quarry wall benches and waste dumps within one year of the commencement of the mining operations, 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.
12. Within one year from the commencement of mining operations, the PP shall carry out the scientific studies comprising all the operating leases located in a cluster situation, on 'Design of Controlled Blast Techniques for reducing the cumulative impact of blast-induced ground & air vibrations caused due to quarry blasting operation involving NONEL/Electronic initiation systems', 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.
13. The PP shall carry out the comprehensive hydrogeological studies within a period of two years from the commencement of the mining operations 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


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of Geology, CEG Campus, and University of Madras -Dept of Applied Geology, Chennai etc. A copy of such scientific study report shall be submitted to the SELAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.

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 EMP furnished.
17. 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.
18. Besides, as committed by the PP, an additional CER amount of Rs.5.0 Lakhs is **earmarked** towards carrying out the desired Mitigation activities in line with Conservation Plan demarcated for the Gangalkondan Spotted Deer Sanctuary and will be spent within one year from the commencement of mining operations in consultation with DFO, District Forest Department, Tirunelveli.

The above Sub-committee report was placed in this 351st Meeting of SEAC held on 03.02.2023. After detailed deliberation, the SEAC accepted the recommendation of the Sub-committee and decided to recommend the proposal for grant of Environment Clearance for the total ROM production of 19,39,945 tonnes which includes 12,59,363 tonnes of Usable Limestone and 6,80,582 tonner of Interstitial waste with an ultimate depth of not exceeding 68 m below ground level and the annual peak production of 2,51,995 tonnes of Limestone subject to the conditions recommended as above by the sub-committee and other standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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

MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.



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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.
13. **Noise and Vibration Related:** (i) The Proponent shall carry out only the Controlled Blasting operation using NONEL shock tube initiation system during daytime.

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

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

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- rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
18. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
 19. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.
 20. The Project proponent shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flora, fauna etc.
 21. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
 22. The project proponent shall ensure that the provisions of the MMRD, 1956, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
 23. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
 24. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
 25. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the

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

26. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Pre-cise 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	விளம்
2	<i>Adenanthera pavonina</i>	Manjoti	மஞ்சள் மஞ்சள்தாண்டி
3	<i>Albizia lebbach</i>	Vengai	வெங்கை
4	<i>Albizia amara</i>	Uai	உ.அ
5	<i>Bauhinia purpurea</i>	Manthari	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	அ.அ
7	<i>Bauhinia acuminata</i>	Iruvathi	இருவாதி
8	<i>Berchemia axillaris</i>	Kattuma	க.அ.மா
9	<i>Borassus flabellifer</i>	Palai	ப.அ
10	<i>Butea monosperma</i>	Marukkamaram	மருக்கமரம்
11	<i>Buxus calba</i>	Naru, Servilavu	நாரு
12	<i>Calophyllum inophyllum</i>	Pannai	ப.அ
13	<i>Cassia fistula</i>	Sarakandam	சரகாண்டம்
14	<i>Cassia roxburghii</i>	Sagundrai	சாகுண்டரம்
15	<i>Chloroxylon swietenia</i>	Parasaramam	ப.அ. அ.அ
16	<i>Cordia allamanda religiosa</i>	Kongu, Manjallavu	காங்கு, மஞ்சள் தாண்டி
17	<i>Cardia dichotoma</i>	Narvadi	ந.அ.அ
18	<i>Croton alatus</i>	Mavalangam	மாவலாங்கம்
19	<i>Dillenia indica</i>	Uva, Usha	உ.அ
20	<i>Dillenia pentagyna</i>	SaruUva, Sitrucha	ச.அ. உ.அ
21	<i>Diopyros arborea</i>	Karungudi	க.அ.அ.அ
22	<i>Diopyros chloroxylon</i>	Vagvadi	வ.அ.அ.அ
23	<i>Ficus religiosa</i>	Kallachi	க.அ. தி.அ
24	<i>Hibiscus tiliaceus</i>	Anrupoonarasu	அ.அ.அ.அ.அ.அ
25	<i>Hardenbergia binnia</i>	Ancha	அ.அ.அ
26	<i>Heliotropis integrifolia</i>	Aayili	அ.அ.அ. அ.அ. அ.அ.அ
27	<i>Lantana coronata</i>	Othiam	அ.அ.அ
28	<i>Lagerstramia speciosa</i>	Poo Marudhu	ப.அ. அ.அ.அ
29	<i>Laportea tetraphylla</i>	Nallottalamaram	ந.அ.அ.அ.அ.அ.அ. அ.அ
30	<i>Lavonia acidissima</i>	Vila maram	வ.அ.அ. அ.அ
31	<i>Libos glutinoso</i>	Painpattai	ப.அ.அ.அ. அ.அ.அ.அ.
32	<i>Madhaca longifolia</i>	Bluppai	ப.அ.அ.அ
33	<i>Marsilea lucida</i>	UkkaiPattai	உ.அ.அ.அ. அ.அ.அ
34	<i>Mimosa elengi</i>	Magichamaram	ம.அ.அ.அ
35	<i>Mitragyna parvifolia</i>	Kadamba	க.அ.அ
36	<i>Morinda pubescens</i>	Naru	நாரு
37	<i>Morinda citrifolia</i>	Vellu Naru	வ.அ.அ.அ. நாரு
38	<i>Phoenix sylvestris</i>	Euchi	உ.அ.அ.அ
39	<i>Pongamia pinnat</i>	Pongam	ப.அ.அ

40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narumangudi	நாரும்ங்குடி
42	<i>Premna tomentosa</i>	Mahiporavaram	மாஹிபொரவரம்
43	<i>Procopis cinerea</i>	Vanni maran	வாணி மாறன்
44	<i>Pterocarpus marsipium</i>	Vengai	வேங்கை
45	<i>Pteropermann cinereus</i>	Vennangu, Tada	வேண்டங்கு, தாடா
46	<i>Pteropermann zylacarpum</i>	Polaru	பொலர்
47	<i>Putterlickia roxburghii</i>	Kanipala	கனிபலா
48	<i>Salvadora persica</i>	Uppu Maran	உப்பு மாறன்
49	<i>Sapindus emarginatus</i>	Manpungan, Soopukai	மாண்புங்குடி, சூப்புகை
50	<i>Sarcococa</i>	Auca	ஆசுகா
51	<i>Strobilax asper</i>	Piriy maran	பிரிய மாறன்
52	<i>Strachnos nazarenic</i>	Yetti	யெட்டி
53	<i>Strachnos polakron</i>	Therthang Kottai	தேர்த்தங்குடி கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandi	தாண்டி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேண்டி மாருது
57	<i>Tecoma ciliata</i>	Sandham vembu	சாண்டாம் வேம்பு
58	<i>Theophrastia papilion</i>	Pavacou	பவாகு
59	<i>Walteria triflora</i>	valara	வாலரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecollobium dulce</i>	Kodukkapudi	கோடக்கப்படி

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

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