

**State Expert Appraisal Committee (SEAC)**

Minutes of 370<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 25.04.2023(Tuesday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No: 370-01

(File No: 6732/2022)

Existing Limestone Mine lease (G.O.7947) over an extent of 7.92.0 Ha in S.F.No. 2/2, 2/3, 3/2A, 4/1, 4/2A, 14/1A, 15 (Part) in Veerachipalayam Village & 235/6B in Alathur Village, Sankari Taluk, Salem District, Tamil Nadu by M/s. The India Cements Limited - For Environmental Clearance under Violation category. (SIA/TN/MIN/401961/2022 Dt.30.09.2022).

The SEAC noted the following:

1. The project proponent, M/s. The India Cements Limited has applied for Environmental Clearance for the Existing Limestone Mine lease (G.O.7947) over an extent of 7.92.0 Ha in S.F.No. 2/2, 2/3, 3/2A, 4/1, 4/2A, 14/1A, 15 (Part) in Veerachipalayam Village & 235/6B in Alathur Village, Sankari Taluk, Salem District, Tamil Nadu.
2. **Category:** The proposed project falls under Category 'B' [Sl. No 1(a) of Schedule: Mining of Minerals] of the list of project or activities requiring prior Environmental Clearance from MoEF&CC Notification dated 14th September, 2006 in connection with Environment (Protection) Rules 1986.
3. ToR under violation was granted by SEIAA, Tamil Nadu vide Lr No. SEIAA-TN/F.No.6732/ToR-631/2019 Dated:12.07.2019.
4. The Project is not situated within the one kilometre or extended buffer zone (ESZ), as the case may be, of any wildlife sanctuary or national park or elephant corridor (or) tiger reserve as per the DFO letter, dated.18.11.2022.
5. **Chronology of events of the project details:**
  - Mining Lease in G.O.7947 over an extent of 7.92.0 Ha in S.F.No. 2/2, 2/3, 3/2A, 4/1, 4/2A, 14/1A, 15 (Part) in Veerachipalayam Village & 235/6B in Alathur Village, Sankari Taluk, Salem District, Tamil Nadu granted by Department of Geology & Mining, Govt of Tamil Nadu to M/s. The India Cements Limited, Chennai. The mining operation in GO 7947 lease area is carried out from 1991. Originally the lease was granted on 27.05.1991 and was

  
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valid up to 24.7.1999.

- Total lease area is a non-forest land, patta land.
- Keeping in view of expiry of the lease period the lessee applied for 1st Renewal of Mining Lease (RML) over the same lease area of **7.92.0** Ha and it was issued on 25-07-1999 for a period of 20 years and was valid up to 24-07-2019.
- The scheme of mining was prepared for the period 2014-2019 and approved by Indian Bureau of Mines vide letter No – TN/SLM/LST/MS-1064.MDS dt. 24.06.2014.
- The Limestone reserves of the mining lease area estimated based on the detailed exploration carried out as per UNFC guidelines. The optimum exploitation can be done up to 90m from the ground level even though the deposits are extended below the ultimate pit depth. The reserve was re-estimated and re-classified as per UNFC norms based on the exploration data. The reserve as on 01.04.2014 is arrived to 0.43 million tonnes.
- Hence, the balance mineable limestone reserve as on 01.04.2014 is 0.43 million Tonnes. The limestone production for the ensuing scheme period is 0.1 million Tonnes. The remaining reserve will be 0.33 million Tonnes. At the rate of production of 0.030 million Tonnes per year and after the scheme period, the reserves will last for **16 years**. The total **anticipated life of the mine will be 16 years ie. up to 2030**.
- The lessee had submitted Review of Mining Plan (including Progressive Mine Closure Plan) for Veerachipalayam Limestone Mine over an area of 7.92 Ha duly approved by Indian Bureau of Mines vide letter No. TN/SLM/LST/ROPMP-1532 MDS dated 22.11.2018 under Rule 16 of MCDR, 2016.
- After satisfactorily complied the terms and conditions imposed in the approval letter, the officials from Indian Bureau of Mines was inspected the mine and certificate of PMCP for the approved area over **7.92.0** Ha under Rule 16 of MCR, 1960 has been issued by the Regional Controller,


Indian Bureau of Mines, Chennai.

- During the pendency of the 1st RML application, the Government of India on 12.01.2015 announced promulgation of the ordinance for amendment in the Mines and Minerals (Development and Regulation) (MMDR) Act, 1957 and introduced new MMDR Amendment Act, 2015. As per the new amendment any lease granted before the commencement MMDR Act, 2015, shall be extended: (i) up to March 31, 2030 for minerals used for captive purpose (specific end-use) and up to March 31, 2020 for the minerals used for other than captive purpose, or (ii) till the completion of renewal period, or (iii) for a period of 50 years from the date of grant of such lease, whichever is later. Accordingly, the lease of limestone Mine governed by G.O.7947 over an extent of 7.92.0 Ha is eligible for extension upto 50 years w.e.f. 27.05.1991 to 01.12.2041 under section 8A(3) of the MMDR Amendment Act, 2015.

#### 6. Details of violation

- This project falls under category "B" since the mining lease area is less than 50 Ha. First lease renewal was valid up to 24-07-2019. Since this is a working mine from year 1991, presuming EC is to be obtained at the stage of lease renewal only, application for obtaining EC was not submitted to SEIAA Tamil Nadu. Hence this is a violation project. Accordingly, the mining operations were suspended w.e.f. 16.06.2016 vide DD (Geology & Mines) letter dated. 31.05.2017.
- Further, in pursuant to order/judgement dated 02.08.2017 in W.P.(C). No.114/2014 (Common Cause Vs Union of India & Others), in page no. 97 states that  
(9) In the event of any overlap that is illegal or unlawful mining without FC or without an EC or without both would attract only 100% compensation and not 200% compensation"

Hence the District Collector, Salem had issued demand notice to the lessee for payment of Rs.69,74,948/- as the India Cements Limited, Sankari has been instructed to pay 100% compensation on price of mineral quantity of

  
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44,385 tonnes treated as excess quantity lifted with exceeding the base year 1993-94 for having operated the mine without prior environmental clearance from the SEIAA, Tamil Nadu vide Proceedings No: Roc.45/2018-LST-1/Mines-A, dated. 11.12.2018.

- Accordingly, the PP had remitted Rs.69,74,948/- on 07.01.2019 to the DMG and hence NOC is granted by the Commissioner of Geology and Mining vide Proceedings No. RC. No. 7790/MM9/2018, dated. 04.02.2023 to obtain Environmental Clearance from SEIAA.
  - The PP has submitted an affidavit, in compliance of the MoEF&CC, Government of India, O.M. No. F: 3-50/2017-IA.III (Pt.), dated 30.05.2018 on the judgment of Hon'ble Supreme Court, dated the 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India along with TOR application.
7. The PP has applied for EC (under Violation Category) to MOEF & CC on 04.07.2017. However, the file was transferred to the SEIAA, Tamil nadu on 02.06.2018.
8. Accordingly, the SEIAA-TN have granted the ToR under Violation on 12.07.2019 and the Public Hearing was conducted 30.07.2022 and ToR extension was granted vide SEIAA-TN/F.No.6732/SEAC/ToR-631/Extn dt. 26.09.2022.

Based on the presentation and documents furnished by the project proponent, the SEAC have decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings besides assessing the ecological damage assessment in accordance with CPCB Guidelines, and the remediation plan, natural resource augmentation and community resource augmentation submitted by the PP.

After the receipt of the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category.

**Agenda No: 370-02**

**(File No: 7194/2023)**

**Proposed Rough Stone, Jelly & Gravel quarry Lease over an extent of 3.99.0 Ha at S.F.No. 35/4A, 35/4B, 35/4C, 35/4D, 35/4E, 35/4F, 35/4G, 35/4H & 35/4I in**

  
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**Maruthamputhur Part-I Village, Alangulam Taluk, Tirunelveli District, Tamil Nadu by Thiru. G. Karuppasamy – For Environmental Clearance. (SIA/TN/MIN/413420/2023 dated.06.01.2023)**

The proposal was placed for appraisal in this 370<sup>th</sup> meeting of SEAC held on 25.04.2023. The details of the project furnished by the proponent are available on the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru. G. Karuppasamy has applied for Environmental Clearance for the Proposed Rough Stone, Jelly & Gravel quarry Lease over an extent of 3.99.0 Ha at S.F.No. 35/4A, 35/4B, 35/4C, 35/4D, 35/4E, 35/4F, 35/4G, 35/4H & 35/4I in Maruthamputhur Part-I Village, Alangulam Taluk, Tirunelveli District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of item I(a) "Mining of Minerals Project" of the Schedule to the EIA Notification,2006.
3. The salient features of the project are as follows:

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru. G. Karuppasamy. S/o. Gurusamy, No.249, Sivanthinagar, Kuthukkal Valasai, Thenkasi Taluk, Thirunelveli District.
2	Type of quarrying	Rough Stone, Jelly and Gravel Quarry
3	S.F No. of the quarry site	S.F.Nos.35/4A, 35/4B, 35/4C, 35/4D, 35/4E, 35/4F, 35/4G, 35/4H, & 35/4I
4	Village in which situated	Maruthamputhur Part- I
5	Taluk in which situated	Alangulam
6	District in which situated	Tirunelveli District
7	Extent of quarry (in ha.)	3.99.0Ha
8	Latitude & Longitude of all corners of the quarry site	08°49'11"N to 08°49'19"N 77°31'22"E to 77°31'31"E

  
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9	Topo Sheet No.	58H/09
10	Type of mining	Opencast Semi mechanized Mining
11	Period of quarrying proposed	5 years
12	Production (Quantity in m <sup>3</sup> )	6,77,950m <sup>3</sup> of Rough Stone, 1,36,500m <sup>3</sup> of Weathered Rock and 55,932m <sup>3</sup> of gravel
13	Ultimate Depth of mining proposed as per the Approved Mining Plan	72 m Below Ground level
	Ultimate Depth of mining as approved by the SEAC	47 m Below Ground level
14	Depth of water table	80m below ground level
15	Man Power requirement	19 Nos.
16	Water requirement:	3.5 KLD
	1. Drinking & Domestic Purposes	1.0 KLD
	2. Dust suppression	2.0 KLD
	3. Green Belt	0.5 KLD
17	Power requirement	No electricity required
18	Precise area communication approved by the District Collector with date	Rc.No.M1/24418/2017 dated:06.09.2018
19	Mining Plan approved by the Deputy Director, Dept. of Geology and Mining with date	Rc.No.M1/24418/2017 dated:09.10.2018
20	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining with date	Rc.No.M1/24418/2017 dated:26.07.2019.
21	VAO certificate regarding habitations in 300m radius	31.08.2019
22	Project Cost (excluding EMP)	Rs. 69,96,000/-
23	EMP cost	Capital Cost: Rs.26.98 Lakhs Recurring Cost: Rs.29.11 Lakhs/ annum
24	ToR details	ToR issued vide Lr.No.SEIAA-TN/F.No.7194/SEAC/ToR-679/2020 dated.03.01.2020.

25	Public hearing conducted on	09.11.2022
26	EIA Report submitted on	06.01.2023

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, keeping the safety aspects in the mind, the SEAC decided to recommend the proposal for the grant of Environmental Clearance for the reduced quantity of 5,98,200m<sup>3</sup> of Rough Stone 1,36,500m<sup>3</sup> of Weathered Rock and 55,932m<sup>3</sup> of gravel with maintaining an ultimate depth of 47m Below ground level and the annual peak production of not exceeding 1,35,800m<sup>3</sup> of rough stone, 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 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 mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed under the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
5. The proponent shall maintain a safety distance of 50m from the seasonal Odai situated nearby.
6. 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

  
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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.

7. 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.
8. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
10. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
11. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
12. Before obtaining the CTO, the PP shall prepare and submit a SoP to the AD (Mines) & the DEE/TNPCB to ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the temple / 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 quarries situated in cluster environment.
13. Since few structures located within 300 m distance, the PP shall carry out the scientific studies on 'Design of Suitable blast parameters for the Controlled Blasting to reduce 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' within six months from the commencement of mining operations, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and 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, and DMS, Chennai as a part of Environmental Compliance without deviation.

14. Considering the change of geological formation in the proposed site, the PP shall carry out the scientific studies to assess the slope stability of the working benches and quarry wall within one year of operation, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining and 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, and DMS, Chennai as a part of Environmental Compliance without any deviation.
15. The PP shall annually carry out the traffic study of the vehicles plying within the cluster area **jointly** with the other existing operating mines by involving a reputed agency such as Anna University-Chennai, IIT-Madras, NIT-Trichy, etc for evaluating the pollution load and prescribing mitigation measures.
16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
17. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
20. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Government Higher Secondary School, Marudhamputhur Village for the activities as committed, before obtaining CTO from TNPCB.

  
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Agenda No: 370-03

(File No: 8314/2023)

Proposed Rough Stone & Gravel quarry Lease over an extent of 1.00.0 Ha at S.F.No. 689/2(P) & 689/3A(P) in Myvadi Village, Madathukulam Taluk, Tiruppur District, Tamil Nadu by Thiru. N. Agathiappan – For Environmental Clearance. (SIA/TN/MIN/419253/2023 dated.21.02.2023)

The proposal was placed for appraisal in this 370<sup>th</sup> meeting of SEAC held on 25.04.2023. The details of the project furnished by the proponent are available on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, **Thiru. N. Agathiappan** has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry Lease over an extent of 1.00.0 Ha at S.F.No. 689/2(P) & 689/3A(P) in Myvadi Village, Madathukulam Taluk, Tiruppur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of item I(a) "Mining of Minerals Project" of the Schedule to the EIA Notification,2006.
3. The salient features of the project are as follows:

S/No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru. N. Agathiappan, S/o. Natraj Gounder, No.1237, Krishnapuram Post, Madathukulam Taluk, Tiruppur District – 642 111.
2	Type of quarrying	Rough Stone and Gravel Quarry
3	S.F No. of the quarry site	689/2(P) & 689/3A(P)
4	Village in which situated	Myvadi
5	Taluk in which situated	Madathukulam
6	District in which situated	Tiruppur
7	Extent of quarry (in ha.)	1.00.0ha

  
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8	Latitude & Longitude of all corners of the quarry site	10°34'44.47"N to 10°34'47.37"N 77°20'19.24"E to 77°20'25.27"E
9	Topo Sheet No.	58-F/06
10	Type of mining	Opencast Mechanized Mining
11	Period of quarrying proposed	10 years
12	Production (Quantity in m <sup>3</sup> )	72,700m <sup>3</sup> of Rough Stone and 13,708m <sup>3</sup> of gravel
13	Depth of mining	
	Ultimate Depth of mining proposed as per the Approved Mining Plan	27 m Below Ground level
	Ultimate Depth of mining as approved by the SEAC	22 m Below Ground level
15	Man Power requirement	14 Nos.
16	Water requirement: 4. Domestic & Drinking Purpose 5. Dust suppression 6. Green Belt	2.0 KLD 0.5 KLD 1.0 KLD 0.5 KLD
17	Power requirement	300 liters of HSD per day
18	Precise area communication approved by the Deputy Director, Dept. of G&M with date	Rc.No.817/2020/Mines dated:17.12.2020.
19	Mining Plan approved by the Deputy Director, Dept. of Geology and Mining with date	Rc.No.817/2020/Mines dated:31.12.2020.
20	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining with date	Rc.No.817/2020/Mines dated:31.12.2020.
21	VAO certificate regarding habitations in 300m radius	29.12.2020
22	Project Cost (excluding EMP)	Rs. 34,18,000/-
23	EMP cost	Capital Cost: Rs.21,16,000/- Recurring Cost: Rs.11,78,638/-

  
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24	ToR details	ToR issued vide Lr.No.SEIAA-TN/F.No.8314/SEAC/ToR-1144/2022 dated.05.05.2022.
25	Public hearing conducted on	06.01.2023
26	EIA Report submitted on	23.02.2023

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 restricted quantity of 72,700m<sup>3</sup> of Rough Stone and 13,708m<sup>3</sup> of gravel with maintaining an ultimate depth of 22m Below ground level and the annual peak production of not exceeding 7770m<sup>3</sup> of rough stone, 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 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 mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed under the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
5. The proponent shall maintain a safety distance of 50m from the seasonal Odai situated nearby.

  
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6. 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.
7. 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.
8. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
10. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
11. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
12. Before obtaining the CTO, the PP shall prepare and submit a SoP to the AD (Mines) & the DEE/TNPCB to ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the temple / 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 quarries situated in cluster environment.
13. Since few structures located within 550 m distance, the PP shall carry out the scientific studies on 'Design of Suitable blast parameters for the Controlled Blasting to reduce 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' within one year from the commencement of

  
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mining operations, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and 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, and DMS, Chennai as a part of Environmental Compliance without deviation.

14. During the 4<sup>th</sup> year of operation, the PP shall carry out the scientific studies to assess the slope stability of the working benches and quarry wall, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining and 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, and DMS, Chennai as a part of Environmental Compliance without any deviation.
15. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
16. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
17. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
18. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
2. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Government School, Myvadi Village, Maduthukulam Taluk, Tiruppur District for the activities as committed, before obtaining CTO from TNPCB.

**Agenda No: 370-04**

**(File No: 8412/2023)**

**Proposed Rough Stone & Gravel quarry Lease over an extent of 4.27.4 Ha at S.F.No. 469/1B, 469/2B, 469/3B, 469/4B, 469/5B, 469/6B, 476/1, 476/2, 476/3 & 476/4 in**

  
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**A.P.Nadanoor Village, Alangulam Taluk, Tenkasi District, Tamil Nadu by Thiru. K. Rajkumar – For Environmental Clearance.**  
**(SIA/TN/MIN/417188/2023 dated.06.02.2023)**

The proposal was placed for appraisal in this 370<sup>th</sup> meeting of SEAC held on 25.04.2023. The details of the project furnished by the proponent are available on the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, **Thiru. K. Rajkumar** has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry Lease over an extent of 4.27.4 Ha at S.F.No. 469/1B, 469/2B, 469/3B, 469/4B, 469/5B, 469/6B, 476/1, 476/2, 476/3 & 476/4 in A.P.Nadanoor Village, Alangulam Taluk, Tenkasi District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of item I(a) "Mining of Minerals Project" of the Schedule to the EIA Notification, 2006.
3. ToR was issued to the proponent vide Lr.No.SEIAA-TN/F.No.8412/SEAC/ToR-964/2021 dated.30.04.2021.
4. Public hearing was conducted on 05.01.2023.

Based on the presentation and details furnished by the project proponent, the Committee, after detailed discussions, decided to consider the proposal after the receipt of the following details from the project proponent:

- i) The proponent shall furnish the Action Plan for the issues as raised in the public hearing.
- ii) Considering that there is a school at a distance of 1.31 km from the site, the PP shall carry out the traffic study of the vehicles plying within the cluster area by involving a reputed agency such as Anna University-Chennai, IIT-Madras, NIT-Trichy, etc for evaluating the road safety, pollution load and prescribing mitigation measures.

**Agenda No: 370 - 05**

**(File No: 8091/2021)**

**Proposed Multi-Colour Granite Quarry over an extent of 4.34.0 Ha in SF.No.456 (Nadanthai) & 25/1 (Irukku), Nadanthai & Irukku Village, Paramathivelur Taluk, Namakkal District by Thiru.P.Velmani- For Environmental Clearance. (SIA/TN/MIN/416117/2023 Dt. 28.01.2023).**

  
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The proposal was placed in the 370<sup>th</sup> SEAC Meeting held on 25.04.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru.P.Velmani has applied for Environmental Clearance for the Proposed Multi-Colour Granite Quarry over an extent of 4.34.0 Ha in SF.No. 456 (Nadanthai) & 25/1 (Irukku), Nadanthai & Irukku Village, Paramathivelur Taluk, Namakkal District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 50,069m<sup>3</sup> of ROM , 30,042m<sup>3</sup> of Multi-Colour Granite @ Recovery 60% & 20,027m<sup>3</sup> of Granite waste @ 40% with an ultimate depth of mining is 39m BGL. The annual peak production is 10128 m<sup>3</sup> of ROM (2<sup>nd</sup> Year), 6077 m<sup>3</sup> of Multi-Colour Granite @ Recovery 60% (2<sup>nd</sup> Year) & 4051 m<sup>3</sup> of Granite waste @ 40% (2<sup>nd</sup> Year).
4. ToR was issued vide - Lr.No: SEIAA-TN/F.No.8091/SEAC/ToR-1140/2022,Dated: 08.04.2022.
5. Public hearing was conducted on Dated: 18.11.2022.

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

- (i) The PP shall furnish drone video covering the cluster area as per ToR condition.
- (ii) The PP shall complete tree plantation, fencing and garland drain as suggested in the CCR granted by the IRO, MoEF & CC.

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

**Agenda No: 370 - 06**

**(File No: 8147/2021)**

**Proposed Gravel Quarry over an extent of 3.22.5 Ha in SF.No. 791/1B, 797/1A & 797/1B at Nelali Village, Kangeyam Taluk, Tiruppur District, Tamil nadu by Thiru.M.R.Varatharajan - For Environmental Clearance. (SIA/TN/MIN/ 188026/2020 Dt. 15.12.2020)**

  
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The proposal was placed in the 370<sup>th</sup> SEAC Meeting held on 25.04.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru.M.R.Varatharajan has applied for Environmental Clearance for the Proposed Gravel Quarry over an extent of 3.22.5 Ha in SF.No. 791/1B, 797/1A & 797/1B of Nelali Village, Kangeyam Taluk, Tiruppur District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.

The SEAC noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence. Further the Committee also noted in online Parivesh portal, the PP requested to withdraw the proposal, which may be considered by SEIAA.

**Agenda No: 370 - 07**

**(File No: 6601/2018)**

**Existing Fireclay quarry lease over an extent of 1.73.0 Ha at S.F. No. 183/1A2, 183/1B, Thalampattu Village, Panruti Taluk, Cuddalore District, Tamil Nadu by Thiru. K. Ramalingam – for Environmental Clearance under violation category. (SIA/TN/MIN/419923/2023, Dt. 25/02/2023)**

The proposal was placed in this 370<sup>th</sup> SEAC meeting held on 25.04.2023. The details of the project furnished by the proponent are available on the web portal (parivesh.nic.in). The project proponent gave a detailed presentation.

**The SEAC noted the following:**

1. The Project Proponent, Thiru. K. Ramalingam has applied for Environmental Clearance under violation category for the Existing Fireclay quarry lease over an extent of 1.73.0 Ha at S.F. No. 183/1A2, 183/1B, Thalampattu Village, Panruti Taluk, Cuddalore District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. ToR issued under violation category vide Lr No.SEIAA-TN/F.No.6601/SEAC/

  
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TOR-919/2018 Dated:16.03.2021.

4. The PP has furnished the EIA Report under violation on 28.02.2023.

Based on the presentation made and documents furnished by the project proponent, the SEAC decided to (i) carry out site inspection by the sub-committee constituted to assess the present status of the project and environmental settings as the proposal falls under violation category. (ii) Further the subcommittee will assess the ecological damage in accordance with the CPCB Guidelines and to check the Remedial Plan & Community Augmentation Plan submitted by the PP during the inspection. (iii) the PP shall complete the Slope stability assessment before the site inspection of SEAC team by involving CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc., On the receipt of the Sub-Committee report, further deliberation will be carried out.

**Agenda No: 370 - 08**

**(File No: 6734/2019)**

**Existing Karumapurathanur Limestone Mine (G.O.101) with an extent of 38.73 Ha, production capacity of 0.20 MTPA at S.F.No. 112/2A(P), 138(P), 205(P), 208/2, 209/1, 209/2, 210/2, 210/3, 210/4, 211/1, 211/2, 211/3, 211/4, 213/1, 213/2, 213/3, 214/1, 214/2, 214/3, 225/2, 227/2, 234(P), 236, 241/1, 241/2, 241/3 & 242/3, Chinnagoundanur Village, Sankari Taluk, Salem District, Tamil Nadu by M/s. The India Cements Limited – for Environmental Clearance under violation category. (SIA/TN/MIN/401944/2022, Dt. 30/09/2022)**

The proposal was placed in this 370<sup>th</sup> SEAC meeting held on 25.04.2023. The details of the project furnished by the proponent are available on the web portal (parivesh.nic.in). The project proponent gave a detailed presentation.

The SEAC noted the following:

1. The Project Proponent, M/s. The India Cements Limited has applied for Environmental Clearance under violation category for the Existing Karumapurathanur Limestone Mine (G.O.101) with an extent of 38.73 Ha, production capacity of 0.20 MTPA at S.F.No. 112/2A(P), 138(P), 205(P), 208/2, 209/1, 209/2, 210/2, 210/3, 210/4, 211/1, 211/2, 211/3, 211/4, 213/1, 213/2, 213/3, 214/1, 214/2, 214/3, 225/2, 227/2, 234(P), 236, 241/1, 241/2, 241/3 &

  
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- 242/3, Chinnagoundanur Village, Sankari Taluk, Salem District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
  3. **Category:** The proposed project falls under Category 'B' [Sl. No 1(a) of Schedule: Mining of Minerals] of the list of project or activities requiring prior Environmental Clearance from MoEF&CC Notification dated 14th September, 2006 in connection with Environment (Protection) Rules 1986.
  3. ToR issued under violation category by SEIAA, Tamil Nadu vide Lr No.SEIAA-TN/F.No.6734/SEAC/ TOR- 633/2019 Dated: 12.07.2019.
  4. The Project is not situated within the one kilometre or extended buffer zone (ESZ), as the case may be, of any wildlife sanctuary or national park or elephant corridor (or) tiger reserve as per the DFO letter, dated.18.11.2022.
  5. **Chronology of events of the project details:**
    - Mining Lease indicating **G.O.593** over an extent of **38.73.0** Ha in S.F.No. 112/2A,2B, 138 (PT), 205 (PT), 208/2, 209/1,2, 210/2,3,4, 211/1,2,3,4, 213/1,2,3, 214/1,2,3, 225/2, 227/2, 234/1 (PT), 236, 241/1,2,3, 242/3 located in Chinnagoundanur village, Sankari Taluk of Salem District, Tamil Nadu, situated at a distance of 40 km South West from Salem granted by Department of Geology & Mining, Govt of Tamil Nadu to M/s. The India Cements Limited, Chennai on 06.12.1996. The mining operation in GO 101 lease area is carried out from 1996. Originally the lease was granted on 27.05.1976 in the name of G.O. No.593.
    - Total lease area is a non-forest land, patta land.
    - Keeping in view of expiry of the lease period the lessee was applied for 1st Renewal of Mining Lease (RML) over the same lease area of **38.73.0** Ha with G.O. No. 101 and it was issued on 05.12.1996 for a period of 20 years and was valid up to 04.12.2016.
    - The Modified Mining plan for the period from 2017-18 to 2020-21 is submitted and approved by Indian Bureau of Mines vide letter No – TN/SLM/LST/MS-1620.MDS dt. 17.12.2020.

  
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- The Limestone reserves of the mining lease area estimated based on the detailed exploration carried out as per UNFC guidelines. The deposit has been proved up to 144 RL. The reserves and resources of the area was estimated based on geological cross section method and classified based on the UNFC guidelines considering the various factors covered under Geological, Feasibility and Economic axes. The reserve was re-estimated and re-classified as per UNFC norms based on the exploration data. The reserve was re-estimated and re-classified as per UNFC norms based on the exploration data collected in the year 1983-84, 1996-97 and 2015-16. The proved limestone reserves (111 category) in the 4 blocks as on 01.04.2017 is arrived at 1.85 Million Tonnes.
- About 5.97 million tonnes of waste comprising 2.77 million tonnes of interstitial waste and 3.20 million tonnes of developmental / SB waste is to be generated for extracting balance 1.85 million tonnes of limestone from this lease area. At the rate of production of 0.030 million Tonnes per year and after the scheme period, the reserves will last for 10 years. **The total anticipated life of the mine will be 10 years ie. up to 2030.**
- Mining plan prepared for lease period upto year 2030. The Scheme of Mining is 2021-22 to 2025-26 approved by Regional Controller of Mines, IBM on 17.12.2020 under Rule 16 of MCDR, 2016.
- After satisfactorily complied the terms and conditions imposed in the approval letter, the officials from Indian Bureau of Mines was inspected the mine and certificate of PMCP for the approved area over **38.73.0** Ha under Rule 16 of MCR, 1960 has been issued by the Regional Controller, Indian Bureau of Mines, Chennai.
- During the pendency of the 1st RML application, the Government of India on 12.01.2015 announced promulgation of the ordinance for amendment in the Mines and Minerals (Development and Regulation) (MMDR) Act, 1957 and introduced new MMDR Amendment Act, 2015. As per the new amendment any lease granted before the

commencement MMDR Act, 2015, shall be extended: (i) up to March 31, 2030 for minerals used for captive purpose (specific end-use) and up to March 31, 2020 for the minerals used for other than captive purpose, or (ii) till the completion of renewal period, or (iii) for a period of 50 years from the date of grant of such lease, whichever is later. Accordingly, the lease of limestone Mine governed by G.O.101 over an extent of 38.73.0 Ha is eligible for extension upto 50 years w.e.f. 05.12.1996 to 31.03.2030 under section 8A(3) of the MMDR Amendment Act, 2015.

#### 6. Details of violation

- o This project falls under category „B" since the mining lease area is less than 50 Ha. First lease renewal was valid up to 04.12.2016. Since this is a working mine since year 1968, presuming EC is to be obtained at the stage of lease renewal only, application for obtaining EC was initially submitted to SEIAA Tamil Nadu in 03.12.2014 but got returned on 15.05.2017 since this is a violation project. Now, as per MoEF & CC notification dated 14.03.2017, all violation cases will be considered at MoEF & CC , New Delhi and Form – I, TOR (standard & specific) and feasibility report has to be submitted to MoEF & CC, Delhi for prescribing TOR and according EC after submission of final EIA/EMP report to them.
- o Further, in pursuant to order/judgement dated 02.08.2017 in W.P.(C). No.114/2014 (Common Cause Vs Union of India & Others), in page no. 97 states that
  - In the event of any overlap that is illegal or unlawful mining without FC or without an EC or without both would attract only 100% compensation and not 200% compensation”
  - Hence the District Collector, Salem had issued demand notice to the lessee for payment of Rs.16,53,786/- as the India Cements Limited Sankari has been instructed to pay 100% compensation on price of mineral quantity of 44,385 tonnes treated as excess quantity lifted with exceeding the base year 1993-94 for having operated the mine without prior environmental

  
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clearance from the SEIAA, Tamil Nadu vide Proceedings No: Roc.45/2018-LST-1/Mines-A, dated. 10.12.2018.

- Accordingly, the PP have remitted Rs.69,74,948/- on 07.01.2019 to the DMG and hence NOC is granted by the Commissioner of Geology and Mining vide Proceedings No. RC. No. 7791/MM9/2018, dated. 17.02.2023 to obtain Environmental Clearance from SEIAA.
  - The PP has submitted an affidavit, in compliance of the MoEF&CC, Government of India, O.M. No. F: 3-50/2017-IA.III (Pt.), dated 30.05.2018 on the judgment of Hon'ble Supreme Court, dated the 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of Common Cause versus Union of India along with TOR application.
7. The PP have applied for EC (under Violation Category) to MOEF & CC on 04.07.2017. However, the file was transferred to the SEIAA, Tamil nadu on 02.06.2018.
8. Accordingly, the SEIAA-TN have granted the ToR under Violation on 12.07.2019 and the Public Hearing was conducted 30.07.2022 and the ToR extension was granted vide SEIAA-TN/F.No.6734/SEAC/ToR-633/Extn dt. 26.09.2022.

Based on the presentation and documents furnished by the project proponent, the SEAC have decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings besides assessing the ecological damage assessment in accordance with CPCB Guidelines, and the remediation plan, natural resource augmentation and community resource augmentation submitted by the PP.

After the receipt of the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category.

**Agenda No: 370 - 09**

**(File No: 7693/2020)**

**Proposed Savudu quarry project over an extent of 3.15.0 Ha in S.F.No. 93(Part), PWD Tank, Irulancheri Village, Tiruvallur Taluk, Tiruvallur District, Tamil Nadu by**

  
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**Thiru.A.S.Chandrasekaran - For Environmental Clearance. (SIA/TN/MIN/165238/2020 dated: 28/07/2020)**

The proposal was placed in this 370<sup>th</sup> SEAC meeting held on 25.04.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Thiru.A.S.Chandrasekaran has applied for Environmental Clearance for the proposed Savudu quarry lease over an extent of 3.15.0 Ha at S.F.No. 93(Part), PWD Tank, Irulancheri Village, Tiruvallur Taluk, Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

The Committee examined the proposal submitted by the proponent in the light of the Judgment issued by the Hon'ble Madurai Bench of Madras High Court in W.P.(MD) Nos.20903 of 2016, 23452, 24495, 17370 and 18035 of 2019 dated 12.02.2021. In this Judgment, the Hon'ble High Court was examining the legality of mining permits or license given by the Government for removal of minor minerals in the name of "Savudu" and other Colloquial terminologies and issued the following directions.

- i. *There shall not be any grant of quarry lease without ascertaining the composition/component of the minerals and without obtaining the report from authorized lab. The Dept of Geology and Mining shall establish a lab on its own or shall authorize any lab in this regard.*
- ii. *There shall not be any quarry operation in the name of colloquial terms/local terms and any lease shall be in accordance with minerals notified under section 3 (e) of the MMDR Act.*
- iii. *A high-level committee has to be constituted, consisting of Geologists and Experts in the said field and eminent Officers from WRO, PWD to conduct a detailed study/survey on the possibility or the availability of the river sand on the adjacent patta lands to the rivers and those places, where sand is available, have to be notified and declared as protected zones and there cannot be any quarry operation other than by the Government, in those notified areas.*

  
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- iv. *The department of Geology and Mining, shall furnish the details of all the Savudu quarries granted so far, in the state of Tamil Nadu, to this court, within a period of eight weeks from the date of receipt of a copy of this order.*
- v. *The details of all the savudu quarries shall also be furnished to the High Level Committee and High Level Committee shall inspect those quarries to ascertain the availability of sand in those quarries. In the event of High Level Committee ascertaining the availability of sand in these quarries, the same shall be reported to the Commissioner of Geology and Mining, marking a copy to this court and the Commissioner shall take necessary action as against the officials, who have granted quarry permits without ascertaining the composition of minerals.*
- vi. *Any quarry operations shall be permitted only by way of lease agreement, as per Article 299(1) of constitution of India.*
- vii. *The Government shall either adopt the Mineral Conservation Rules, 2017, framed by the Central Government or frame a separate Rule, as directed by the Hon'ble Supreme court in Deepak Kumar's case, within a period of six months from the date of receipt of a copy of this order.*
- viii. *Whenever, SEIAA clearance is required, it shall be done only physical inspection by deputing an officer attached to SEIAA and depending upon the report further proceedings may take place in accordance with law and there must be a mechanism to ensure the conditions of SEIAA are strictly complied with.*

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

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



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

1. The PP shall amend the Mining Plan and other legal documents accordingly by the competent authority for removal of the terms "savadu," and furnish the revised Mining Plan with replacing it by the term "ordinary earth" as per the Rule 12 of the Tamil Nadu Minor Mineral Concession Rules 1959.
2. The composition/component of the minerals proposed to be quarried shall be tested in any of the laboratories authorized by the Dept of Geology & Mining as directed in the above Judgment.
3. The proponent should produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the above Judgment.

**Agenda No: 370 - 10**

**(File No: 8267/2021)**

**Proposed Savudu Earth quarry project over an extent of 2.40.5 Ha in S.F.No. 177/13, 177/14, 179/2 & 179/3A, Pudukudi Village, Kodavasal Taluk, Thiruvarur District, Tamil Nadu by Thiru.V.Muthuramalingam (Legal heir Thiru. M. Vignesh, S/o. Thiru.V.Muthuramalingam (late) - Applicant) - For Environmental Clearance. (SIA/TN/MIN/194645/2021 dated: 23/01/2021)**

The proposal was placed in this 370<sup>th</sup> SEAC meeting held on 25.04.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Thiru.V.Muthuramalingam (Legal heir Thiru. M. Vignesh, S/o. Thiru.V.Muthuramalingam (late) - Applicant) has applied for Environmental Clearance for the proposed Savudu Earth quarry lease over an extent of 2.40.5 Ha at S.F.No. 177/13, 177/14, 179/2 & 179/3A, Pudukudi Village, Kodavasal Taluk, Thiruvarur District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.

  
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The SEAC noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

**Agenda No: 370 - 11**

**(File No: 8421/2021)**

**Proposed expansion of M/s. SRM Institute of Science & Technology (Institute blocks & Hostel blocks of Arts and Science College & Institute of Allied Health Sciences) at S.F.Nos.: 241/2, 241/3A, 241/3B, 242/1A, 242/1B, 242/2A, 242/2B, 242/2C, 242/2D, 242/3B, 242/3C, 242/4B, 242/5B, 242/5C, 242/5E, 242/5F, 242/6A, 308/10, 308/11, 308/14, 308/15B, 313/2C, 313/6A, 313/6B, 313/6C, 313/6D, 313/6E, 313/6F, 313/6G, 313/7B, 313/8, 232/3, 232/4A, 232/4B, 232/6B, 232/6C, 232/8A, 232/8B, 232/8C, 233, 310/12B, 310/12C, 310/17, 310/18A, 310/18B, 310/18C, 311/1, 313/1A, 313/1B, 313/2A, 313/2B, 313/3A, 313/3B, 313/4A, 313/4B & 313/4C, in Aaiygudi Village & Irungalur Village, Manachanallur Taluk, Tiruchirapalli District, Tamil Nadu by M/s. SRM Institute of Science & Technology - For Environmental Clearance.**

**(SIA/TN/MIS/200664/2021 dated: 27.02.2021)**

The proposal was placed in this 370<sup>th</sup> SEAC meeting held on 25.04.2023. 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. SRM Institute of Science & Technology has applied for Environmental Clearance for the Proposed expansion of M/s. SRM Institute of Science & Technology (Institute blocks & Hostel blocks of Arts and Science College & Institute of Allied Health Sciences) at S.F.Nos.: 241/2, 241/3A, 241/3B, 242/1A, 242/1B, 242/2A, 242/2B, 242/2C, 242/2D, 242/3B, 242/3C, 242/4B, 242/5B, 242/5C, 242/5E, 242/5F, 242/6A, 308/10, 308/11, 308/14, 308/15B, 313/2C, 313/6A, 313/6B, 313/6C, 313/6D, 313/6E, 313/6F, 313/6G, 313/7B, 313/8, 232/3, 232/4A, 232/4B, 232/6B, 232/6C, 232/8A, 232/8B, 232/8C, 233, 310/12B, 310/12C, 310/17, 310/18A, 310/18B, 310/18C, 311/1, 313/1A, 313/1B, 313/2A, 313/2B, 313/3A, 313/3B, 313/4A, 313/4B & 313/4C, in Aaiygudi Village & Irungalur Village, Manachanallur Taluk, Tiruchirapalli District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 8(a) "Building & Construction" of the Schedule to the EIA Notification, 2006, as amended.

  
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The SEAC noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

**Agenda No: 370 - 12**

**(File No: 7988/2021)**

**Proposed of Rough Stone & Gravel quarry lease over an extent of 1.79.5 Ha at S.F Nos. 1185/1, 1185/7A & 1185/8, Katchaikatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu by M/s. Concretia Rock Products Pvt Ltd - for Environmental Clearance. (SIA/TN/MIN/415056/2023, dt: 19.01.2023)**

Earlier, the proposal was placed in 370<sup>th</sup> SEAC meeting held on 25.04.2023.

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.7988/SEAC/ToR-1034/2021 Dated:04.10.2021.
3. Minutes of public hearing conducted on 28.06.2022.
4. Final EIA report submitted on 19.01.2023
5. Now, the Project Proponent, M/s. Concretia Rock Products Pvt Ltd has applied for Environmental Clearance with EIA report along with minutes of public hearing for the proposed of Rough Stone & Gravel quarry lease over an extent of 1.79.5 Ha at S.F Nos. 1185/1, 1185/7A & 1185/8, Katchaikatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu.
6. As per precise area communication/lease is for the period of 5 years. The approved mining plan is for the period of five years & production should not exceed 126,510 m<sup>3</sup>of rough stone & 20,889 m<sup>3</sup>of Gravel, and the annual peak production shall not exceed 31,290 m<sup>3</sup> of rough stone (1<sup>st</sup> Year). The depth of mining is 48m.

The salient features of the project are as follows:

Sl. No	Details of the Proposal	Data Furnished
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1	Name of the Owner/Firm	:	M/s.Concretia Rock Products Pvt Ltd Katchaikatti Road Vadipatti Taluk Madurai District - 625218
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	:	1185/1, 1185/7A & 1185/8,
4	Village in which situated	:	Katchaikatti
5	Taluk in which situated	:	Vadipatti
6	District in which situated	:	Madurai
7	Extent of quarry (in ha.)	:	1.79.5Ha
8	Latitude & Longitude of all corners of the quarry site	:	10°04'36.80" N to 10°04'28.87"N 78°00'34.18"E to 78°00'30.79"E
9	Topo Sheet No.	:	58-J/4
10	Type of mining	:	Opencast Semi Mechanized Mining
11	Period of quarrying proposed	:	5 years
12	Production (Quantity in m <sup>3</sup> )	:	126510cu.m of Rough Stone and 20889 cu.m of Gravel
13	Ultimate Depth of quarrying	:	48m
14	Depth of water table	:	55m BGL
15	Man Power requirement per day:	:	24 Nos.
16	Source of Water Requirement	:	water vendors
17	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	1.90 KLD 0.9KLD 0.5KLD

		0.5 KLD
18	Power requirement a. Domestic Purpose b. Industrial purpose	TNEB 101208 ltrs of HSD
19	Whether any habitation within 300m distance	: No
20	Precise area communication approved by the District Collector, with date	: Na.Ka.No.407/2019-Kanimam, Dated: 08.11.2019
21	Mining Plan approved by the Deputy Director, Geology and Mining with date	: Roc.No.407/2019-Kanimam, Dated: 31.01.2020
22	Joint Director/Assistant Director, mines 500m cluster letter	Roc.No.407/2019-Kanimam, Dated: 10.08.2020
23	VAO certificate regarding 300m radius cluster	Letter dated: 03.07.2020
24	Project Cost	: Rs.50.60 Lakhs
25	EMP cost	: Rs.72.56 Lakhs/5 Years
26	CER cost	Rs.5 Lakhs
27	ToR Issued details	Tor Issued letter No. SEIAA-TN/F. No. 7988/SEAC/ToR-1034/2021 Dated:04.10.2021
28	Public Hearing Details	Public hearing conducted on: 28.06.2022
29	EIA Report Received	EIA received on : 19.01.2023

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 ultimate depth of mining upto 48m BGL and the quantity of 126,510 m<sup>3</sup> of rough stone & 20,889 m<sup>3</sup> of Gravel and the annual peak production shall not exceed 31,290 m<sup>3</sup> of rough stone & 20,889 m<sup>3</sup> 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:

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

  
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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. Since the Reserve Forest is situated at a distance of 170 m from the lease, the PP shall carry out the following Mitigation Measures:
  - i. The PP shall develop Green Belt (Thick Tree plantation in three rows) along the boundary of the mine lease area before obtaining the CTO from the TNPCB.
  - ii. The proponent shall construct and maintain proper fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forest before the commencement of the operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
  - iii. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate dumps positioned in opposite direction to the location of the reserved forest.
  - iv. The PP shall ensure that such waste/reject dumps shall be properly secured to prevent escape of material there from in harmful quantities

which may cause degradation of environment and to prevent causation of floods.

- v. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
- vi. The PP shall take necessary steps that wherever possible, the waste rock, overburden etc. shall be back-filled into the mine excavations with a view to restoring the land to its original use as far as possible.
- vii. Wherever back-filling of waste rock in the area excavated during mining operations is not feasible, the PP shall take adequate steps in discussion with the concerned DFO to suitably terrace the waste dumps ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
- viii. The PP shall carry out the scientific investigations in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.
- ix. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.
- x. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying operations within 'Permissible Limits' specified under the environmental laws.
- xi. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.

  
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- xii. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry out the quarrying on steep hill slopes with a gradient of 200 or more or areas with a high degree of erosion on forestland.
  - xiii. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco- sensitive Zone of 60 m without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.
  - xiv. The PP shall not use plastic carry bags within the quarry area.
  - xv. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free from blockage for runoff disposals. This run off from the road side drainage shall relate to the natural drainage system in the area.
  - xvi. The PP shall adhere to the provisions of the MoEF had issued Notification No. S.O. 1545 dated 25th June 2009 regulating certain activities in the eco-sensitive zone to conserve and protect the reserved forest area from ecological and environmental point of view.
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-DGM 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 SEIAA, 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. 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

  
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highways & village panchayat roads where the trucks are plying with loaded material.

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, Ramayampatti & Government primary School, Katchaikatti as committed, before obtaining CTO from TNPCB.

**Agenda No: 370- 13**

**(File No: 8387/2023)**

**Proposed of Rough Stone & Gravel Quarry lease over an extent of 1.16.5Ha in S.F.Nos.1186/2A, 1186/3 & 1186/4 of Katchaikatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu By Thiru.S.Karuppasamy\_- for Environmental Clearance. (SIA/TN/MIN/414272/2023 Dt: 12.01.2023)**

Earlier, the proposal was placed in 370<sup>th</sup> SEAC meeting held on 25.04.2023. 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.8387/SEAC/ToR-972/2021 Dated: 05.07.2021 to Thiru.S.Karuppasamy\_for the proposed of Rough Stone & Gravel Quarry lease over an extent of 1.16.5Ha in S.F.Nos.1186/2A, 1186/3 & 1186/4 of Katchaikatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu.

  
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3. Minutes of public hearing conducted on 05.07.2022.
4. Final EIA report submitted on 18.01.2023
5. Now, the Project Proponent, Thiru.S.Karuppasamy has applied for Environmental Clearance with EIA report along with minutes of public hearing for the Proposed of Rough Stone & Gravel Quarry lease over an extent of 1.16.5Ha in S.F.Nos.1186/2A, 1186/3 & 1186/4 of Katchaikatti Village, Vadipatti Taluk, Madurai 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 33100cu.m of rough stone & 6912cu.m of Gravel, and the annual peak production shall not exceed 6750 m<sup>3</sup> of rough stone & 3328 m<sup>3</sup> of Gravel . The depth of mining 22m.

The salient features of the project are as follows:

Sl. No	Details of the Proposal	:	Data Furnished		
1	Name of the Owner/Firm	:	Thiru.S.Karuppasamy S/o.Soolairajan No.9C, Kajastreet, Madurai District		
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Rough Stone & Gravel Quarry		
3	S.F No. Of the quarry site with area break-up	:	1186/2A, 1186/3 & 1186/4		
4	Village in which situated	:	Katchaikatti		
5	Taluk in which situated	:	Vadipatti		
6	District in which situated	:	Madurai		
7	Extent of quarry (in ha.)	:	1.16.5Ha		
8	Latitude & Longitude of all corners of the quarry site	:	PILLAR ID	LATITUDE	LONGITUDE

  
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			1	1004'36.47" N	7800'32.25" E
			2	1004'32.97" N	7800'32.06" E
			3	1004'33.30" N	7800'29.63" E
			4	1004'36.17" N	7800'26.81" E
			5	1004'36.26" N	7800'27.40" E
9	Topo Sheet No.	:	58- J/4		
10	Type of mining	:	Opencast Semi Mechanized Mining		
11	Period of quarrying proposed	:	5 years		
12	Production (Quantity in m <sup>3</sup> )	:	33100cu.m of Rough stone & 6912cu.m of Gravel		
13	Ultimate Depth of quarrying	:	22m		
14	Depth of water table	:	55m BGL		
15	Man Power requirement per day:	:	18 Nos.		
16	Source of Water Requirement	:	water vendors		
17	Water requirement:	:	3.5KLD		
	1. Drinking & domestic purposes (in KLD)	:	1.0 KLD		
	2. Dust suppression, Green Belt &Wet Drilling (in KLD)	:	1.5 KLD		
		:	1.0 KLD		
18	Power requirement	:	TNEB		
	a. Domestic Purpose	:	27,630Liters of HSD		
	b. Industrial purpose	:			

19	Whether any habitation within 300m distance	:	No
20	Precise area communication approved by the District Collector with date	:	Rc.No.559/2020-Kanimam, dated: 15.12.2020
21	Mining Plan approved by Joint Director / Assistant Director (i/c), Department of Geology and Mining with date	:	Roc. No.559/2020-Mines, dated: 27.01.2021
22	Joint Director / Assistant Director (i/c) mines 500m cluster letter		Roc. No.442/2020-Mines, dated: 02.02.2021
23	VAO certificate regarding 300m radius cluster		Letter dated: 09.02.2021
24	Project Cost	:	Rs.38.97
25	EMP cost	:	Rs.83.53 Lakhs/ 5 Years
26	CER cost		Rs.5 Lakhs
27	ToR Issued details		<b>Tor issued</b> letter No. SEIAA-TN/F. No. 8387/SEAC/ToR-972/2021 Dated:05.07.2021.
28	Public Hearing Details		<b>Public hearing</b> conducted on: 05.07.2022
29	EIA Report Received		EIA received on : 18.01.2023

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 ultimate depth of mining upto 22m BGL and the quantity of 33100cu.m of rough stone & 6912cu.m of Gravel, and the annual peak production shall not exceed 6750 m<sup>3</sup> of rough stone & 3328 m<sup>3</sup> 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 SEIAA is requested to seek a clarification from the office of the Competent Authority over the omission of the mine operated M/s. Concretia Rock Products Pvt Ltd in S.F. No. 1185/1 in the cluster area letter.
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. Since the Reserve Forest is situated at a distance of 160 m from the lease, the PP shall carry out the following Mitigation Measures:
  - i. The PP shall develop Green Belt (Thick Tree plantation in three rows) **along the boundary of the mine lease area along the embankment of the odai / canal** existing adjacent to the lease before obtaining the CTO from the TNPCB.
  - ii. The proponent shall construct and maintain proper fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forest before the commencement of the operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.



- iii. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate dumps positioned in opposite direction to the location of the reserved forest.
- iv. The PP shall ensure that such waste/reject dumps shall be properly secured to prevent escape of material there from in harmful quantities which may cause degradation of environment and to prevent causation of floods.
- v. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
- vi. The PP shall take necessary steps that wherever possible, the waste rock, overburden etc. shall be back-filled into the mine excavations with a view to restoring the land to its original use as far as possible.
- vii. Wherever back-filling of waste rock in the area excavated during mining operations is not feasible, the PP shall take adequate steps in discussion with the concerned DFO to suitably terrace the waste dumps ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
- viii. The PP shall carry out the scientific investigations in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.
- ix. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.
- x. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying

  
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operations within 'Permissible Limits' specified under the environmental laws.

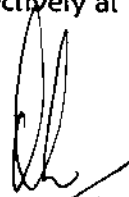
- xi. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.
  - xii. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry out the quarrying on steep hill slopes with a gradient of 200 or more or areas with a high degree of erosion on forestland.
  - xiii. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco-sensitive Zone of 60 m without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.
  - xiv. The PP shall not use plastic carry bags within the quarry area.
  - xv. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free from blockage for runoff disposals. This run off from the road side drainage shall relate to the natural drainage system in the area.
  - xvi. The PP shall adhere to the provisions of the MoEF had issued Notification No. S.O. 1545 dated 25th June 2009 regulating certain activities in the eco-sensitive zone to conserve and protect the reserved forest area from ecological and environmental point of view.
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) / 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 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
10. 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.
11. 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.
12. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.

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

**Agenda No: 370 - 14**

**(File No: 7660/2022)**

**Proposed Rough Stone & Gravel lease over an extent of 2.43.0 Ha at S.F.Nos. 777/1 (P) of Kambaliyampatti Village, Kangeyam Taluk, Tiruppur District, Tamil Nadu by Thiru.K.Ganesh -For Environmental Clearance (SIA/TN/MIN/157276/2020 dated 12.06.2020).**

The proposal was placed in this 370<sup>th</sup> Meeting of SEAC held on 25.04.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru.K.Ganesh has applied for Environmental Clearance for the Proposed Rough Stone & Gravel lease over an extent of

  
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2.43.0 Ha at S.F.Nos. 777/1 (P), Kambaliyampatti Village, Kangeyam Taluk, Tiruppur District, Tamil Nadu.

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

The SEAC noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence. The Committee also noted that in online Parivesh portal, the PP has requested to withdraw the project.

**Agenda No: 370 - 15**

**(File No: 7933/2020)**

**Proposed Brick Earth Quarry over an extent of 0.62.5Ha at S.F.Nos.206/6, Kulanthapuri Village, Paramakudi Taluk, Ramanathapuram District, Tamil Nadu by Thiru.P.Duraipandian -For Environmental Clearance (SIA/TN/MIN/138580/2020 dt 25.01.2020).**

The proposal was placed in this 370<sup>th</sup> meeting of SEAC held on 25.04.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru.P.Duraipandian has applied for Environmental Clearance for the Proposed Brick Earth Quarry over an extent of 0.62.5Ha at S.F.Nos.206/6, Kulanthapuri Village, Paramakudi Taluk, Ramanathapuram District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 1 year. The mining plan is for the period of One year & production should not exceed 3692 cu.m of Brick Earth. The annual peak production is 3692cu.m of Earth. The ultimate depth is 1m BGL.
4. Objection to grant EC in favour of Thiru.P.Duraipandian was received from Thiru.G.Vijayakumar vide letter dated: 24.04.2023.

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

  
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1. Since the Brick Earth Kiln Registration Certificate issued by the Ramanathapuram District Collector for 'Sri Prakasam Chamber' owned by P.Duraipandian has expired on 21.06.2022 (10 months back), the PP shall obtain renewal for the same from the Competent Authority.
2. The PP shall amend the Mining Plan and other legal documents accordingly by the competent authority for removal of the terms "Brick Earth," and furnish the revised Mining Plan with replacing it by the term "ordinary earth" as per the Rule 12 of the Tamil Nadu Minor Mineral Concession Rules 1959.
3. The PP shall furnish an affidavit stating that the mined ordinary earth will be used only by the kiln owned by the PP.

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

**Agenda No: 370- 16**

**(File No: 8024/2020)**

**Proposed Multi Colour Granite Quarry over an Extent of 2.98.0 Ha at S.F.No. 568/1, 575/2 (P) & 621/2(P) of Subramaniapuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu by M/s. Pokarna Limited -For Environmental Clearance (SIA/TN/MIN/ 179859/2020, Dt: 26.10.2020).**

The proposal was placed in this 370<sup>th</sup> meeting of SEAC held on 25.04.2023. 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. Pokarna Limited has applied for Environmental Clearance for the Proposed Multi Colour Granite Quarry over an Extent of 2.98.0 Ha at S.F.No. 568/1, 575/2 (P) & 621/2(P) of Subramaniapuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The quarry lease was granted vide G.O.3(D) No. 12, Industries (MMB.2) Department Dated 25.01.2007 for a period of Twenty years. The quarry

  
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lease deed was executed on 07.03.2007 and the lease period is valid upto 06.03.2027.

4. Subsequently, Environmental clearance was obtained from SEIAA, Tamil Nadu vide Lr.No.SEIAA-TN/F.No.5160/EC/1(a)/3648/2016 dated 08.08.2016 for the Multi Colour Granite Quarry over an Extent of 2.98.0 Ha at S.F.No. 568/1, 575/2 (P) & 621/2(P) of Subramaniapuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu for the period of 2 years.
5. Further, Environmental clearance was obtained from DEIAA, vide Lr.No.DEIAA/VNR/103/EC.No.41/2018 dated 08.12.2018 for the Multi Colour Granite Quarry over an Extent of 2.98.0 Ha at S.F.No. 568/1, 575/2 (P) & 621/2(P) of Subramaniapuram Village, Sivakasi Taluk, Virudhunagar District, Tamil Nadu for the period of 1 year.
6. The PP has obtained Certified Compliance Report vide Lr.No. E.P/12.1/2022-23/SEIAA/242/TN/154 dated: 30.02.2023.
7. Now, the 3<sup>rd</sup> Scheme of quarrying along with Progressive Quarry Closure Plan is prepared and got approved from State Geology and Mining Department, Guindy, Chennai to obtain approval for the period of five years from 2022-23 to 2026-27.

Based on the presentation made by the proponent, SEAC decided to call for details as follows to check whether it comes under violation or not.

1. The PP shall furnish a letter obtained from AD/DD Mine & Geology with respect to exact depth of existing pit, period of the operation and stoppage of the earlier mining operation & quantity of minerals mined out accordingly.
2. The PP shall furnish month-wise excavation of minerals and bulk transport permits issued by the competent authority.
3. The copy of demand notice served on total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.
4. PP shall furnish a letter from AD/DD mines stating that the project will not fall under violation category, clearly stating whether mining has been carried out in non-EC area.

  
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5. The PP shall explain with adequate reasons for not maintaining the mandatory safety barrier of 7.5m as stated in the Mining Plan approved by the Competent authority and also stipulated in the previous EC granted by the SEIAA-TN.
6. The proponent shall enumerate on the details of the all the structures including the fireworks factories located within 300m radius from the proposed mine lease area indicating the occupants of such structures, working hours and ownership of the structures whether it belongs to the PP (or) not, etc.

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

**Agenda No: 370 - 17**  
**(File No: 8255/2020)**

**Proposed Ordinary Earth Quarry over an extent of 3.36.0Ha at S.F.Nos.37(Part) (PWD Tank-Aranvoyal Kanmoi) of No.96. Aranvoyal 'A' Village, Tiruvallur Taluk, Tiruvallur District, Tamil Nadu by Thiru.K.Chandrasekaran -For Environmental Clearance (SIA/TN/MIN/ 191053/2021, dt:21.01.2021).**

The proposal was placed in this 370<sup>th</sup> meeting of SEAC held on 25.04.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru.K.Chandrasekaran has applied for Environmental Clearance for the Proposed Ordinary Earth Quarry over an extent of 3.36.0Ha at S.F.Nos.37(Part) (PWD Tank-Aranvoyal Kanmoi) of No.96. Aranvoyal 'A' Village, Tiruvallur Taluk, Tiruvallur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 60 days. The mining plan is for the period of 60 days & production should not exceed 30,240m<sup>3</sup> of Ordinary Earth upto an ultimate depth of 0.90m.
4. The salient features of the proposed project site as follows

  
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Sl. No.	Details of the Proposal	
	Name of the Owner/Firm	Thiru.K.Chandrasekaran, No.4/283, Ezhil Nagar, Kadambathur Village, Tiruvallur Taluk & District.
	Type of quarrying	Ordinary Earth Quarry
	S.F No. of the quarry site	37(Part) (PWD Tank-Aranvoyal Kanmoi)
	Village in which situated	No.96. Aranvoyal 'A'
	Taluk in which situated	Tiruvallur
	District in which situated	Tiruvallur
	Extent of quarry (in ha.)	3.36.0Ha
	Latitude & Longitude of all corners of the quarry site	13°05'57.44"N to 13°06'02.02"N 79°56'17.93"E to 79°56'25.93"E
	Topo Sheet No.	57-O/16
	Type of mining	Opencast semi mechanized Method of mining
	Period of current mine plan	60 days
	Production (Quantity in m <sup>3</sup> )	As per the mining plan the lease period is 60 days. The mining plan is for the period of 60 days & production should not exceed 30,240m <sup>3</sup> of Ordinary Earth.
	Depth of mining	0.90m
	Depth of water table	38m BGL
	Man Power requirement	6 Nos.
	Water requiremeny	1.0 KLD
	Power requirement	TNEB
	Precise area communication approved by the District Collector, with date	Rc.No. No.62/2019/Mines-2, dated 19.11.2020.

  
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Mining Plan approved by Assistant Director(i/c), Dept of Geology and Mining, with date	Rc.No. No.62/2019/G&M-2, dt 17.12.2020.
500m cluster letter issued by the Assistant Director(i/c), Dept of Geology and Mining, with date	Rc.No. No.62/2019/G&M-2, dt 17.12.2020.
VAO certificate regarding habitations in 300m radius	Letter dated: 22.12.2020
Project Cost (excluding EMP)	Rs. 6,34,000/-
EMP cost	Rs.2.60Lahks
CER Cost	Rs. 1 lakh as accepted by the PP

Based on the presentation and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for total excavation quantity should not exceed 30,240m<sup>3</sup> of Ordinary Earth for the period of 60 days with maintaining a depth of 0.90m BGL** 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 AD (Mines) shall ensure that the PP amend the Mining Plan and other legal documents accordingly for removal of the terms "Earth," and furnish the revised Mining Plan with replacing it by the term "ordinary earth" as per the Rule 12 of the Tamil Nadu Minor Mineral Concession Rules 1959 at the time of lease execution.
3. The PP shall adhere to the conditions stipulated in the Terms and conditions of the PWD vide letter dated. 30.07.2020 without any deviation.
4. The PP shall ensure that the quarrying area should be earmarked using painted boundary pillars before obtaining the CTO from the TNPCB.



5. Tree plantation & fencing around the mine lease area shall be completed before starting the production.
6. 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.
7. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
8. The 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.,
9. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
10. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly.
11. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
12. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.

  
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13. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted in proper spacing as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
14. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
15. Ground water quality monitoring should be conducted during the execution of desilting work in the tank and the report should be submitted to TNPCB.
16. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50m safety distance from water body should be maintained without carrying any activity.
17. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
18. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project proponent shall ensure that the road may not be damaged due to transportation of the quarried rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
19. 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.
20. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same

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

21. The Project proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project proponent liable for legal action in accordance with Environment and Mining Laws.
22. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
23. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
24. 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 Minutes.
25. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
26. As accepted by the Project proponent the CER cost is Rs. 1.0 lakhs and the amount shall be spent for the committed activities in Government Primary School, Aranvoyal Village as committed, before obtaining CTO from TNPCB.

**Agenda No: 370-18**

**(File No: 7150/2023)**

**Proposed Rough stone and Gravel quarry over an extent of 1.64.0Ha in S.F.No. 688(P) at Myvadi Village, Madathukulam Taluk, Tiruppur District Tamil Nadu by Thiru R.Jagadeeswaran– For Environmental Clearance (SIA/TN/MIN/418952/2023, dated 18.02.2023)**

The proposal was placed in 370<sup>th</sup> meeting of SEAC held on 25.04.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The project proponent gave a detailed presentation.

**The SEAC noted the following:**

1. The project proponent, Thiru R.Jagadeeswaran has applied seeking

  
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Environmental Clearance for the proposed Rough stone and Gravel quarry over an extent of 1.64.0Ha in S.F.No. 688 (P) at Myvadi Village, Madathukulam Taluk, Tiruppur 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 Lr.No. SEIAA-TN/F.No. SEIAA-TN/F.No.7150/SEAC/ToR-804/2020  
Dated: 09.11.2020
4. Public Hearing was conducted on 06.01.2023.

Sl. No.	Details of the Proposal	
1.	Name of the Owner/Firm	Thiru R.Jagadeeswaran, S/o. Ramasamy Gounder, No.4/1136, Narasingapuram, Krishnapuram Post, Madathukulam Taluk, Tiruppur District - 642 111
2.	Type of quarrying	Rough stone and Gravel
3.	S.F No. of the quarry site	688 (P)
4.	Village in which situated	Myvadi
5.	Taluk in which situated	Madathukulam
6.	District in which situated	Tiruppur
7.	Extent of quarry (in ha.)	1.64.0Ha -Patta land
8.	Latitude & Longitude of all corners of the quarry site	10°34'50.02"N to 10°34'57.95"N 77°20'27.65"E to 77°20'30.89"E
9.	Topo Sheet No.	58 - F/06
10.	Type of Mining	Opencast mechanized mining method
11.	Period of current mine plan	5 years
12.	Lease period	10 years
13.	Production (Quantity in m <sup>3</sup> )	93,510 m <sup>3</sup> of Rough stone and 23,100 m <sup>3</sup> of Gravel
14.	Ultimate Depth of the Quarry	22m BGL
15.	Depth of water table	50m-45m
16.	Man Power requirement	23 Nos
17.	Water requirement:	
	1. Domestic & Flushing	1.5 kLD
	2. Dust suppression	1.5 kLD

	3. Green Belt	1.0 kLD
18.	Power requirement 1. Domestic 2. Industrial	TNEB 77,306 Liters of HSD will be used for the entire project life
19.	Precise area communication approval letter	Rc. No. 1302/Mines/2017, Dated: 19.04.2018
20.	Mining Plan approval letter	Rc. No. 1302/Mines/2017, Dated: 04.06.2020
21.	500m cluster letter	Rc. No. 1302/Mines/2017, Dated: 28.08.2019
22.	VAO certificate regarding habitations within 300m radius	04.07.2019
23.	Project Cost (excluding EMP)	Rs. 45,76,700/-
24.	EMP cost	Capital Cost: Rs 22,78,800/- Recurring Cost/Annum: 13,52,356/- + 5% cost inflation from 2 <sup>nd</sup> year
25.	CER Cost	Rs. 5.0 Lakh

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a production quantity of 93,510 m<sup>3</sup> of Rough stone and 23,100 m<sup>3</sup> of Gravel with maintaining the ultimate depth of 22m BGL and the annual peak production shall not exceed 18,850 m<sup>3</sup> of Rough stone as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
3. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches

  
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- incorporating the haul road with proper gradient, before obtaining CTO from TNPCB.
4. **As pointed out during public hearing, the PP shall provide necessary air pollution control measures including water sprinklers to contain the pollutants and installation of GI sheet wherever necessary along the boundary of the mine lease area pointing towards the habitations.**
  5. Since the habitations are situated at a distance of 650m, the Project Proponent shall carry out the scientific studies within one year of the commencement of mining operations 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 NIRM, IIT(ISM), IIT-Madras, Anna University Chennai-Dept of Mining Engg, NIT Surathkal, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
  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 prepare a SoP in consultation with the existing operating mines showing that the blasting operations are 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. 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.

10. 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.
11. 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.
12. 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.
13. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
14. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
15. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
16. As accepted by the Project proponent the CER cost is **Rs. 5.0 lakh** the amount to be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.

**Agenda No: 370 - 19**

**(File No: 6829/2023)**

**Proposed Rough Stone and earth quarry lease area over an extent of Extent 2.06.0 Ha at SF.No. 8/1B & 8/2 of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu by Tvl. Sri Santhosh Blue Metals - For Environmental Clearance. (SIA/TN/MIN/416799/2023, Dated: 03.02.2023)**

The proposal was placed for appraisal in this 370<sup>th</sup> meeting of SEAC held on 25.04.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

  
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1. The project proponent, Tvl. Sri Santhosh Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone and earth quarry lease area over an extent of Extent 2.06.0 Ha at SF.No. 8/1B & 8/2 of Thollamur Village, Vanur Taluk, Viluppuram District, Tamil Nadu.
2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. The production for 5 years not to exceed 2,98,440m<sup>3</sup> of Rough stone and 30,740m<sup>3</sup> of Gravel with an ultimate depth of Mining 47m below ground level.
4. ToR issued vide - Lr No -SEIAA-TN/F.No.6829/SEAC/ToR-968/2021, Dated: 05.07.2021.
5. Public hearing was conducted on Dated 12.04.2022.

The EIA Coordinator requested to postpone the meeting. Hence, the proposal was not taken up for appraisal.

**Agenda No: 370 - 20**


**(File No: 7991/2023)**

**Proposed Rough Stone and Gravel quarry lease area over an extent of Extent 1.05.0 Ha at SF. No. 909, 911/2 (Part) of Panaiyadipatti Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu by Thiru. A. Subbaraman - For Environmental Clearance. (SIA/TN/MIN/415624/2023 Dt. 24.01.2023)**

The proposal was placed for appraisal in this 370<sup>th</sup> meeting of SEAC held on 25.04.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. A. Subbaraman has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease area over an extent of Extent 1.05.0 Ha at S.F.No. 909, 911/2 (Part) of Panaiyadipatti 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. As per the mining plan, the lease period is for 5 years. The production for 5 years not to exceed 92,950m<sup>3</sup> of Rough stone and 14,458m<sup>3</sup> of Gravel

  
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with an ultimate depth of Mining 27m below ground level.

4. ToR issued vide - Lr No -SEIAA-TN/F.No.7991/SEAC/ToR-1033/2020,  
Dated: 07.09.2021.

5. Public hearing was conducted on Dated 13.09.2022.

During the presentation, Committee decided to defer the proposal and take up for appraisal in the ensuing meeting.

**Agenda No: 370-21**

**(File No: 9653/2022)**

**Proposed Rough Stone and gravel quarry lease over an extent 2.27.5 Ha at S.F.No.104/1, 104/2A (Part), 104/2B1 (Part), 105/1A (Part) & 105/2 of Kuppam Village, Pugalur Taluk, Karur district, Tamil Nadu by Thiru.P.Devaraj - For Terms of Reference. (SIA/TN/MIN/407980/2022 dated 12.12.2022)**

The proposal was placed in this 370<sup>th</sup> meeting of SEAC held on 25.04.2023. The details of the project are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, **Thiru.P.Devaraj** has applied for Terms of Reference for the proposed Rough stone & gravel quarry lease over an extent of 2.27.5 Ha at S.F.No.104/1, 104/2A (Part), 104/2B1 (Part), 105/1A (Part) & 105/2 of Kuppam Village, Pugalur Taluk, Karur district, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was accorded to the proponent vide Lr.no.SEIAA-TN/F.No.944/EC/1(a)/252/2013 dated.23.04.2013 for the quantity of 76975 cu.m of rough stone and 19880 cu.m of gravel.
4. Now the proponent has submitted an application for Terms of Reference for a quantity of 1,06,213 cu.m of rough stone and 8136 cu.m of gravel.
5. Earlier, the proposal was placed for appraisal in the 347<sup>th</sup> meeting of SEAC held on 13.01.2023. 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:
  - i) The proponent shall furnish photographs of adequate fencing, green belt

  
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along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.

- ii) The proponent shall also furnish details/photographs of the garland drains provided.

The proponent submitted the details to SEIAA-TN on 02.02.2023. In this regard, the proposal is again placed in this 370<sup>th</sup> SEAC meeting.

Based on the presentation made by the proponent, **SEAC decided to recommend the proposal for Terms of Reference (TOR) with Public Hearing subject to the following additional TORs**, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
2. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
3. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry.
4. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
5. **In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit a conceptual 'Action Plan' for**

carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.

6. During the EIA appraisal, the PP shall furnish the Mining Plan approved by the Competent Authority stating that the heavy blasting operation in the proposed quarry is not carried out and only hand-breaking operation is adopted for the extraction of dimension blocks using non-explosive techniques in the proposed quarrying operation.
7. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
8. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
  - a. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - b. Quantity of minerals mined out.
  - c. Highest production achieved in any one year
  - d. Detail of approved depth of mining.
  - e. Actual depth of the mining achieved earlier.
  - f. Name of the person already mined in that leases area.
  - g. If EC and CTO already obtained, the copy of the same shall be submitted.
  - h. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
9. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
10. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,

  
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11. The PP shall furnish the revised manpower including the statutory & competent persons as required under the provisions of the MMR 1961 for the proposed quarry based on the volume of rock handled & area of excavation.
12. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
13. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
14. The Project Proponent shall conduct the 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) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells 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.
15. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
16. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
17. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.

18. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
19. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
20. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
21. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
22. Impact on local transport infrastructure due to the Project should be indicated.
23. A tree survey study shall be carried out (nos., name of the species, age, diameter etc..) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
24. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
25. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
26. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
27. The PP shall produce/display the EIA report, Executive summary and other

  
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related information with respect to public hearing in Tamil Language also.

28. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
29. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the **appendix-I** in consultation with the DFO, State Agriculture 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.
30. 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
31. A Disaster Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
32. A Risk Assessment and Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
33. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
34. Public health implications of the Project and related activities for the population

- in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
35. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
  36. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
  37. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
  38. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
  39. The PP shall prepare the EMP for the entire life/lease of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
  40. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

**Agenda No: 370 - 22**

**(File No: 9745/2023)**

**Proposed Rough stone & Gravel Quarry over an extent of 1.15.0 Ha in SF.No. 193/3B (part) at Thennilai East Village, Pugalur Taluk, Karur District, Tamil Nadu by Tmt.S.Santhimathi - For Terms of Reference. (SIA/TN/MIN/ 414080/2023 Dt. 13.01.2023)**

The proposal was placed in the 370<sup>th</sup> SEAC Meeting held on 25.04.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

**The SEAC noted the following:**

  
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1. The Project Proponent, Tmt.S.Santhimathi has applied for Terms of Reference for the Proposed Rough stone & Gravel Quarry over an extent of 1.15.0 Ha in SF.No. 193/3B(part) of Thennilai East Village, Pugalur Taluk, Karur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 86,951m<sup>3</sup> of rough stone & 780 m<sup>3</sup> of Gravel with an ultimate depth of mining is 25m BGL. The annual peak production is 18800 m<sup>3</sup> of rough stone (2<sup>nd</sup> Year) & 780 m<sup>3</sup> of Gravel (1<sup>st</sup> Year).

Based on the presentation made by the proponent, **SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing**, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The proponent is requested to carry out a survey and enumerate on the structures located within 50m, 100m, 150m, 200m, 250m, 300m and 500m from the boundary of the mine lease area.
2. The PP shall complete tree plantation, fencing and if any non compliance observed shall be corrected and the same shall be included in the EIA report.
3. The proponent shall discuss the funds for mitigation measures to be included in the EMP.
4. The proponent shall adhere to the bench height - 5m as stated in the approved mining plan.
5. The proponent shall obtain Anna University Star rating system.
6. The Project Proponent shall conduct the 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) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Necessary data and documentation in this regard may be provided.



7. The proponent shall submit the details regarding the nature of blasting activity which will be carried out.
8. The PP shall furnish DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
9. The PP shall provide individual notice regarding the Public Hearing to the nearby house owners located in the vicinity of the project site.
10. In the case of proposed lease in an existing (or old) quarry where the benches are non-existent (or) partially formed critical of the bench geometry approved in the Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the 'highwall' benches to ensure slope stability in the proposed quarry lease which shall be vetted by the concerned Asst. Director of Geology and Mining, during the time of appraisal for obtaining the EC.
11. During the EIA appraisal, the PP shall furnish the **Mining Plan approved by the Competent Authority stating that the heavy blasting operation in the proposed quarry is not carried out and only hand-breaking operation is adopted for the extraction of dimension blocks** using non-explosive techniques in the proposed quarrying operation.
12. Details of Green belt & fencing shall be included in the EIA Report.
13. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
14. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
  - What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - Quantity of minerals mined out.
  - Highest production achieved in any one year
  - Detail of approved depth of mining.

  
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- Actual depth of the mining achieved earlier.
  - Name of the person already mined in that leases area.
  - If EC and CTO already obtained, the copy of the same shall be submitted.
  - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
15. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
16. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,
17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
20. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.


21. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
22. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
23. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
24. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
25. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact on local transport infrastructure due to the Project should be indicated.
28. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.) both within the mining lease applied area & 300m buffer zone and its management during mining activity.

  
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29. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
30. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
31. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
32. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
33. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
34. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix- I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
35. 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

  
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36. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
37. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
38. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
39. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
40. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
41. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
42. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
43. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.

  
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44. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.

45. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

**Agenda No: 370-23**

**(File No: 9773/2023)**

**Proposed Rough Stone & gravel quarry lease area over an extent of 3.14.5 Ha at SF. No. 224/2, 224/4, 225/2, 225/3, 225/4, 225/5 & 225/6 of Thiruchunai Village, Melur Taluk, Madurai District, Tamil Nadu by Thiru S. Sivakumar - For Terms of Reference. (SIA/TN/MIN/416168/2023, dated:28.01.2023).**

The proposal was placed in 367<sup>th</sup> SEAC meeting held on 31.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in) and the SEAC decided to defer the proposal.

Now the proposal was placed in the 370<sup>th</sup> SEAC Meeting held on 25.04.2023.

**The SEAC noted the following:**

1. The Project Proponent, Thiru S. Sivakumar has applied for Terms of Reference for the Proposed Rough Stone & Gravel Quarry over an extent of 3.14.5 Ha in SF.No. 224/2, 224/4, 225/2, 225/3, 225/4, 225/5 & 225/6 of Thiruchunai Village, Melur Taluk, Madurai District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 1,56,286m<sup>3</sup> of rough stone & 18,004 m<sup>3</sup> of Gravel with an ultimate depth of mining is 20m BGL. The annual peak production is 31,640 m<sup>3</sup> of rough stone (1<sup>st</sup> Year) & 18004 m<sup>3</sup> of Gravel (1<sup>st</sup> Year).

Based on the presentation made by the proponent, **SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing**, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The proponent is requested to carry out a survey and enumerate on the

structures located within 50m, 100m, 150m, 200m, 250m, 300m and 500m from the boundary of the mine lease area.

2. If the proposed site is classified as 'nanjai', then then the PP shall get the classification modified appropriately.
3. The proponent shall discuss the funds for mitigation measures to be included in the EMP.
4. The proponent shall adhere to the bench height - 5m as stated in the approved mining plan.
5. The proponent shall obtain Anna University Star rating system.
6. The Project Proponent shall conduct the 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) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Necessary data and documentation in this regard may be provided.
7. The proponent shall submit the details regarding the nature of blasting activity which will be carried out.
8. The PP shall furnish DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
9. The PP shall provide individual notice regarding the Public Hearing to the nearby house owners located in the vicinity of the project site.
10. In the case of proposed lease in an existing (or old) quarry where the benches are non-existent (or) partially formed critical of the bench geometry approved in the Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the 'highwall' benches to ensure slope stability in the proposed quarry lease which shall be vetted by the concerned Asst. Director of Geology and Mining, during the time of appraisal for obtaining the EC.

  
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11. During the EIA appraisal, the PP shall furnish the **Mining Plan approved by the Competent Authority stating that the heavy blasting operation in the proposed quarry is not carried out and only hand-breaking operation is adopted for the extraction of dimension blocks using non-explosive techniques** in the proposed quarrying operation.
12. Details of Green belt & fencing shall be included in the EIA Report.
13. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
14. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
  - What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - Quantity of minerals mined out.
  - Highest production achieved in any one year
  - Detail of approved depth of mining.
  - Actual depth of the mining achieved earlier.
  - Name of the person already mined in that leases area.
  - If EC and CTO already obtained, the copy of the same shall be submitted.
  - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
15. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
16. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,

  
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17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
20. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
21. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
22. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
23. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass

  
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preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

24. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
25. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
26. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
27. Impact on local transport infrastructure due to the Project should be indicated.
28. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
29. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
30. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
31. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
32. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.

  
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33. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
34. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix- I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
35. 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
36. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
37. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
38. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

  
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39. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
40. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
41. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
42. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
43. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
44. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
45. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

**Agenda No: 370-24**

**(File No: 9895/2023)**

**Proposed Rough Stone and gravel quarry lease over an extent 2.18.0 Ha at S.F.No.76/2, 76/3A & 76/6 of Eraiyur Village, Vanur Taluk, Viluppuram district, Tamil Nadu by Thiru.K.Anandavelu - For Terms of Reference. (SIA/TN/MIN/421451/2023 dated.09.03.2023)**

  
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The proposal was placed in this 370<sup>th</sup> meeting of SEAC held on 25.04.2023. The details of the project are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, **Thiru.K.Anandavelu** has applied for Terms of Reference for the Proposed Rough Stone and gravel quarry lease over an extent 2.18.0 Ha at S.F.No.76/2, 76/3A & 76/6 of Eraiyur Village, Vanur Taluk, Viluppuram 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. Earlier, EC was accorded to the proponent vide Lr.no.SEIAA-TN/F.No.2699/EC/1(a)/1702/2014 dated.19.03.2015 for quarrying in the area belonging to the Survey Nos. 76/2 & 76/3A of Eraiyur Village, Vanur Taluk, Viluppuram district for the quantity of 94,425 cu.m of rough stone, 8282 cu.m of top soil & 23,226 cu.m of weathered formation.
4. Now the proponent has submitted an application for Terms of Reference for a quantity of 2,26,322 cu.m of rough stone and 16,554 cu.m of gravel.

Based on the presentation made by the proponent, **SEAC decided to recommend the proposal for Terms of Reference (TOR) with Public Hearing subject to the following additional TORs**, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The project proponent shall submit a **Certified Compliance Report for the EC dated.19.03.2015 granted by the SEIAA-TN from the IRO, MoEF & CC, Chennai.**
2. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with


  
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number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.

4. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry.
5. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
6. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit a conceptual 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.
7. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
8. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
9. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
10. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
  - a. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?

  
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- b. Quantity of minerals mined out.
  - c. Highest production achieved in any one year
  - d. Detail of approved depth of mining.
  - e. Actual depth of the mining achieved earlier.
  - f. Name of the person already mined in that leases area.
  - g. If EC and CTO already obtained, the copy of the same shall be submitted.
  - h. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
11. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
  12. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
  13. The PP shall furnish the revised manpower including the statutory & competent persons as required under the provisions of the MMR 1961 for the prosed quarry based on the volume of rock handled & area of excavation.
  14. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
  15. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
  16. The Project Proponent shall conduct the 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) along with the collected water level data for both monsoon

  
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and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells 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.

17. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
18. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
19. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
20. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
21. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
22. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
23. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project.



- if any, should be provided.
24. Impact on local transport infrastructure due to the Project should be indicated.
  25. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
  26. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
  27. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
  28. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
  29. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
  30. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
  31. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the **appendix-I** in consultation with the DFO, State Agriculture 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.
  32. 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

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

33.A Disaster Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.

34.A Risk Assessment and Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.

35.Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

36.Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.

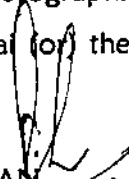
37.The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.

38.Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

39.Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.

40.If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the

  
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concerned DEE/TNPCB.

41. The PP shall prepare the EMP for the entire life/lease of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
42. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.


  
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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.

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

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

adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.

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

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

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

  
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**Appendix -I**  
**List of Native Trees Suggested for Planting**

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விவம்
2	<i>Adenaanthera pavonina</i>	Marjadi	மஞ்சளடி, ஆமளக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாளை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuna	காட்டுமர
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கோங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvuli	நருவளி
18	<i>Creteva adansonii</i>	Mavalingum	மாவலிங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உசா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உசா
21	<i>Diospyro sebenum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகளை
23	<i>Ficus amplissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்பூங்கா
25	<i>Hardwickia binata</i>	Aacha	ஆசா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயில் மரம், ஆயில்
27	<i>Lanea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விளை மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பின்பட்டை, பிச்சைட்டை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழமரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனை
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனை
38	<i>Phoenix sylvestre</i>	Eachai	ஈச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Munnai	முள்ளை
41	<i>Premna serratifolia</i>	Narumunnai	நறு முள்ளை
42	<i>Premna tomentosa</i>	Malaiipoovarasu	மலை பூவரசு
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vernangu, Tada	வேண்டாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	பூவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கறிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புங்கன் சோப்புக்காய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Strobilus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாள் கொட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்ட்ரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேண் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்கரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பாலை
61	<i>Pithecolobium dulce</i>	Kodukkapuli	கொடுக்காப்பளி

