

STATE EXPERT APPRAISAL COMMITTEE – TAMIL NADU

Minutes of 350th meeting of the State Expert Appraisal Committee (SEAC) held on 02.02.2023 (Thursday) at SEIAA Conference Hall, 2nd Floor, Panagal Malligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

AGENDA No: 350-I

(File No: 8347/2022)

Proposed Rough stone and Gravel Quarry lease over an Extent of 1.29.5 Ha (Patta land) in S.F.Nos. 46/1, 46/2, 46/3, and 46/4 at Sundakkottai Village of Aruppukottai Taluk, Virudhunagar District, Tamil Nadu by Thiru.S.K.Subba Reddhar – For Environmental Clearance. (SIA/TN/MIN/60741/2021, dated 03.06.2022)

The proposal was earlier placed in the 313th meeting of SEAC held on 22.09.2022. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

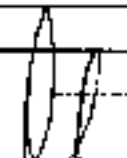
The SEAC noted the following:

1. The Project Proponent, Thiru.S.K.Subba Reddhar has applied seeking Environmental Clearance for the proposed Rough stone and Gravel Quarry lease over an Extent of 1.29.5 Ha in S.F.Nos. 46/1, 46/2, 46/3, and 46/4 at Sundakkottai Village of Aruppukottai 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, as amended.
3. It is an 'Existing Operated' quarry to a depth of 14 m.
4. ToR Issued along with Public Hearing vide T.O Lr No.SEIAA-TN/F.No.8347/SEAC/ToR-1032/2021 Dated:26.08.2021
5. Public Hearing minutes dated: 20.04.2022
6. EIA Submitted on 09.06.2022


S. No.	Detail of the Proposal	
1.	Name of the Owner / Firm	Thiru.S.K.Subba Reddhar S/o.S.Kasthuri Reddhar No.99,Keelakkaranthai Kamatchi Aruppukottai Taluk Virudhunagar District-623101
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough stone
3.	S.F.No. of the quarry site	S.F.Nos. 46/1, 46/2, 46/3, and 46/4
4.	Village	Sundakkottai
5.	Taluk	Aruppukottai


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6.	District	Virudhunagar
7.	Extent of Quarry (In ha.)	1.29.5 Ha Patta land
8.	Period of Quarrying proposed	5 years
9.	Type of Mining	Opencast Mechanized Method
10.	Production (Quantity in m ³)	As per the approved mining plan, Geological reserves: 3,75,030 m ³ of Rough stone and 75,006 Gravel for the Ultimate depth of 36 m Below Ground Level. 5-year Production (Restricted as per ToR): 94,318 m ³ of Rough stone and 47,640 m ³ of Gravel The Annual peak production as per mining plan is 20,240 m³ of rough stone (3rd year) and 19,332 m³ of Gravel. (1st year)
11.	Depth of Mining	Restricted depth as per ToR is 31 m BGL.
12.	Latitude & Longitude of all corners of the quarry site	09° 28' 20.65" N to 09° 28' 25.83" N 78° 10' 52.34" E to 78° 10' 57.25" E
13.	Topo sheet No.	58 - K/3
14.	Man power requirement per day:	10 nos of employees
15.	Precise Area Communication	Na.Ka.KV1/245/2020-Mines dated 09.11.2020.
16.	Mining plan approval letter	Letter KV1/245/2020/Mines dated 27.01.2021
17.	500mts letter	Letter KV1/245/2020, dated 01.02.2021
18.	Water requirement: 1. Drinking & domestic purposed (In KLD) 2. Dust Suppression (In KLD) 3. Green Belt (In KLD)	4.00 kLD 1.50 kLD 2.5 kLD
19.	Power requirement: a. Domestic purpose b. Industrial Purpose	TNEB
20.	Depth of Water table	60m
21.	Whether any habitation within 300m distance	No
22.	Project cost (Excluding EMP cost)	Rs. 46,32,960/-


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23.	EMP cost	Capital Cost- Rs. 16,20,700/- Recurring Cost- Rs. 11,79,800/- per Annum
24.	CER cost	Rs. 5,00,000/-
25.	VAO letter dated	Letter Dated: 04.01.2021

Based on the presentation and the documents furnished by the Proponent, the SEAC noted that there are two excavated pits located within the mine lease area. Hence the SEAC directed the Proponent to furnish the following details:

- (i) A letter obtained from the concerned AD/Geology & Mines detailing the quarrying operation carried out in the aforesaid two pits by removing the considerable quantity of material through exploitation of the safety zone of 7.5 m.
- (ii) The copy of last permit issued for the operation of above two pits and the details of proponents who have operated the pits.

The Proponent has furnished the details sought by the Committee vide letter dated 04.11.2022 and the proposal was placed for reappraisal in this 327th meeting of SEAC held on 10.11.2022. Based on the presentation and documents furnished by the project proponent, SEAC decided to obtain the following details:

1. The Project Proponent shall furnish the revised EMP in the format prescribed by the SEAC.
2. The PP shall indicate the mitigating measures for the common boundary of the existing quarry.

The Proponent furnished the details sought by the Committee and hence the proposal was placed for reappraisal in this 350th meeting of SEAC held on 02.02.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance after leaving a safety distance of 15m from the existing pit and the production quantity is 87,718 m³ of Rough stone and 43,389 m³ of Gravel to a depth of 31m BGL in a period of 5 years and the annual peak production shall not exceed 18,750 m³ of Rough stone subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC. In addition to the following specific conditions:

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


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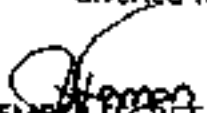

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plan approved and renewed by Competent Authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.

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 Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.
5. The PP shall ensure that the safety zone for width of 15 m is maintained with a thick plantation (atleast in two rows) and strong fencing near the abandoned quarry located in adjacent to the proposed quarry for the safety mitigation measures.
6. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) within the commencement of two years of quarrying operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
7. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impact' of the

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

8. As the habitations are located nearby, the PP shall carry out the controlled blasting using Jack hammer drilled shallow holes (32-34 mm dia& 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
9. The Project Proponent shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
10. The Project Proponent shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
11. The Project Proponent shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.
12. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
13. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
14. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the


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MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.

16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
17. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA,III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
18. As accepted by the Project proponent the CER cost is Rs. 5.0 lakh and the amount shall be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.

Agenda No. 350 – 2

(File No. 8408/2021)

Proposed Rough stone & Gravel quarry lease over an extent of 2.02.5ha at S.F.No.1259/3 of Sivanmalai Village, Kangayam Taluk, Tiruppur District, Tamil Nadu by Thiru. V.Maruthachalam - for Environmental Clearance.

(SIA/TN/MIN/411911/2022, dt.23.12.2022)

The proposal was placed in 350th SEAC meeting held on 02.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
2. The ToR was issued vide Lr. No. SEIAA-TN/F.No.8408/SEAC/ToR-974/2021 Dated:05.07.2021 to Thiru. V.Maruthachalam for the proposed Rough stone & Gravel quarry lease over an extent of 2.02.5ha at S.F.No.1259/3 of Sivanmalai Village, Kangayam Taluk, Tiruppur District, Tamil Nadu.
3. Minutes of public hearing conducted on 20.07.2022.
4. Final EIA report submitted on 29.12.2022
5. Now, the Project Proponent, Thiru. V.Maruthachalam has applied for Environmental Clearance with EIA report along with minutes of public hearing for the proposed Rough stone & Gravel quarry lease over an extent of 2.02.5ha at S.F.No.1259/3 of Sivanmalai Village, Kangayam Taluk, Tiruppur District, Tamil Nadu.
6. The precise area communication/lease is issued for the period of 5 years. The approved mining plan is for the period of five years & production should not


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exceed 168900 cu.m of Rough Stone, 10500 cu.m of Weathered Gravel, 11100cum of Gravel and the annual peak production shall not exceed 42,450 m³ of rough stone (4th Year). The ultimate depth is 34m BGL.

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

Sl. No	Details of the Proposal	:	Data Furnished
1.	Name of the Owner/Firm	:	Thiru.V.Maruthachalam S/o.Velusamy No.157, Karunaipalayam Pirivu Senkodampalayam Muthiyanerichal Tiruppur District – 638 701
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	:	1259/3
4.	Village in which situated	:	Sivanmalai
5.	Taluk in which situated	:	Kangayam
6.	District in which situated	:	Tiruppur
7.	Extent of quarry (in ha.)	:	2.02.5Ha
8.			
9.	Latitude & Longitude of all corners of the quarry site	:	11°01'02.51" N to 11°01'10.46"N 77°30'34.84"E to 77°30'38.04"E
10.	Top Sheet No.	:	58- E/12
11.	Type of mining	:	Opencast Mechanized Mining Method
12.	Period of quarrying proposed	:	5 years
13.	Production (Quantity in m ³)	:	168900 cu.m of Rough Stone, 10500 cu.m of Weathered Gravel, 11100cum of Gravel
14.	Existing Depth of quarrying	:	14m
15.	Ultimate Depth of quarrying	:	34m
16.	Depth of water table	:	70m-65m
17.	Man Power requirement per day:	:	25 Nos.
18.	Source of Water Requirement	:	water vendors
19.	Water requirement:	:	3.3 KLD 0.8 KLD

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	1. Drinking & domestic purposes (in KLD) 2. Dust suppression & Green Belt (in KLD)	1.5 KLD 1.0 KLD
20.	Power requirement a. Domestic Purpose b. Industrial Purpose	TNEB 1,46,208 Liters of HSD
21.	Whether any habitation within 300m distance	: No
22.	Precise area communication approved by the Deputy Director/G&M/ with date	: Na. Ka.No.1148/Kanlman/2020, dated: 08.01.2021
23.	Mining Plan approved by Deputy Director/G&M/ with date	: R.c.No.1148/2020/Mines, dated: 01.02.2021
24.	500m cluster letter issued by Deputy Director/G&M/ with date	: R.c.No.1148/2020/Mines, dated: 01.02.2021
25.	VAO certificate regarding habitation within 300m radius	: Letter dated: 29.01.2020
26.	Project Cost (excluding EMP cost)	: 38.53 Lakhs
27.	EMP cost	: EMP Cost - Rs. 124.5 Lakhs /5 Years including capital & recurring cost with 5% inflation cost anticipated every year.
28.	CER cost	: 5 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the ultimate depth of mining upto 34m BGL and the quantity of 168900 cu.m of Rough Stone, 10500 cu.m of Weathered Gravel, 11100cum of Gravel and the annual peak production shall not exceed 42,450 m³ of rough stone subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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


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2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
4. The proponent shall create a separate bank account and shall deposit the cost allocated for the committed EMP activities every year and the said expenditure details spent on the committed EMP activities shall be maintained & periodically submitted to TNPCB.
5. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) considering the existing working conditions by maintaining appropriate benches of adequate safe width and incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.
6. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) within the commencement of two years of quarrying operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
7. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the cluster mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as


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

8. Further, the PP shall furnish necessary application to the Regional Inspector of Mines, DCMS, Chennai Region (DMS, Chennai) for obtaining the relaxation as per the provisions given in the Reg. 106 & Reg. 111 of MMR 1961 while working in the cluster situation within a period of six months from the commencement of mining operation.
9. Since the quarry site lies in the cluster situation, the PP shall furnish a 'Standard Operating Procedures In the Cluster Situation' for carrying out the safe method of carrying out the controlled blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
10. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
11. The PP shall ensure that the blasting operations are carried out by only the statutory persons like Blaster/Mine Mate/Mine Foreman directly employed by him as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
12. The PP shall ensure that adequate measures are taken to control the propagation of dust at the source level along the haulroads leading to the highways & village panchayat roads where the trucks are plying with loaded material.
13. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
14. The PP shall undertake suitable measures for the socio-economic development in the villages situated around the quarry.


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15. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
16. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
17. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Middle School, Sivanmalai as committed, before obtaining CTO from TNPCB.

Agenda No: 350-03


(File No: 8413/2021)


Proposed Rough stone & Gravel quarry lease over an extent of 2.58.0 Ha in, SF. Nos. 1197/1(P),1197/5,1197/6 & 1197/7 of Punnam Village, Pugalur Taluk, Karur District, Tamil Nadu by Tvl. VST Blue Metals - For Environmental Clearance. (SIA/TN/MIN/408139/2022, Dt: 26.11.2022)

The proposal was placed in 350th SEAC meeting held on 02.02.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Tvl.VST Blue Metals has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 2.58.0 Ha in S. F. Nos. 1197/1(P),1197/5,1197/6 & 1197/7 of Punnam Village, Pugalur Taluk, Karur District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 1,89,875m³ of rough stone & 22,365 m³ of Gravel with an ultimate depth of mining is 38m BGL (3m Gravel + 35m Rough Stone). The annual peak production is 38,885m³ of Rough Stone (4th year) and 7920m³ of Gravel (1st year).
4. ToR issued vide Lr.No.SEIAA-TN/F.No.8413/SEAC/ToR-986/2021 dated 05.07.2021.
5. Public hearing conducted on 16.06.2022.


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Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Tvl.VST Blue Metals, NO.645/81.Punnam Chathiram Erode Main Road Pugalur Taluk Karur District-639113
2	Type of quarrying	Rough Stone & Gravel Quarry
3	S.F No. Of the quarry site with area break-up	1197/1(P), 1197/5, 1197/6 & 1197/7
4	Village in which situated	Punnam
5	Taluk in which situated	Pugalur
6	District in which situated	Karur
7	Extent of quarry (in ha.)	2.58.0Ha
8	Period of quarrying proposed	5 years
9	Type of mining	Opencast Mechanized Mining Method
10	Production (Quantity in m3)	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 1.89,875m ³ of rough stone & 22,365m ³ of Gravel with an ultimate depth of mining is 38m (3m Gravel + 35m Rough Stone)[as per approved ToR]. The annual peak production is 38,885m ³ of Rough Stone (4 th year), 7920 m ³ of Gravel (1 st year).
11	Latitude & Longitude of all corners of the quarry site	10°59'00.58" N to 10°59'06.76"N 77°58'44.89"E to 77°58'52.38"E
12	Top Sheet No.	58- F/13
13	Man Power requirement per day:	24 Nos.
14	Precise area communication approved by the District Collector, with date	Na.Ka.No.582/Kanmam/2019, Dated.28.08.2020
15	Mining Plan approved by the Deputy Director, Department of Geology and Mining with date	Roc. No.582/Mines/2019, Dated: 23.09.2020
16	AD mines 500m cluster letter by the Deputy Director, Department of Geology and Mining with date.	Rc. No.582/Mines/2019, Dated: 01.11.2020
17	Water requirement: 1. Drinking & domestic purposes 2. Dust suppression	3.0KLD 0.7 KLD 1.5 KLD


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18	3. Green Belt (in KLD) Power requirement a. Domestic Purpose b. Industrial Purpose	0.8 KLD TNEB 1,54,576 Liters of HSD for the Entire period of Life
	Existing Depth of quarrying	13m
19	Ultimate Depth of quarrying	38m (3m Gravel + 35m Rough Stone)
20	Depth of water table	64m in summer - 59m in rainy season.
21	Whether any habitation within 300m distance	No
22	Project Cost	Rs.47.62 Lakhs
23	EMP cost	Rs.131.73 Lakhs
24	CER Cost	Rs.5 Lakhs
25	VAO letter dated	15.09.2020
26	ToR Issued	ToR Issued vide Lr.No.SEIAA-TN/F.No.8413/SEAC/ToR-986/2021 dated 05.07.2021.
27	Public Hearing Details	Public hearing conducted on Dated: 16.06.2022.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 1,89,875m³ of Rough Stone and 22,365m³ of gravel not exceeding the annual peak production of 38,885m³ of Rough Stone and 7920m³ of gravel with maintaining an ultimate pit depth of 38m bgl subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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

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3. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
4. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMs Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
5. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
6. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
7. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
8. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) considering the existing working conditions of 13 m highwall bench by maintaining appropriate safe width for the same and incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.
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) within the commencement of two years of quarrying operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be

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

10. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the cluster mines on the surrounding villages and the prominent structures situated within 1 km from the boundary of the quarry such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
11. As a part of EC Compliance, the PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
12. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
13. As the habitations are located nearby, the PP shall carry out the controlled blasting using Jack hammer drilled shallow holes (32-34 mm dia& 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
14. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.


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15. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB while considering the adjacent quarries lies in a radial distance of 500 m from their quarry.
16. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
17. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
18. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
19. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
20. The PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
21. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the

MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.

22. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.

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

24. As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the Government Adidraavidar Welfare High School, Punnam as committed. before obtaining CTO from TNPCB.

Agenda No: 350 – 04

(File No: 8425/2021)

Proposed Multi Colour Granite quarry over an extent of 1.76.0 Ha at S.F. No: 22/7A, 22/8, 22/9, 22/10, 39/1 & 39/3, Thonugal village, Kariyapatti Taluk, Virudhunagar District, Tamil Nadu by Thiru. S. Thirumavalavan – For Environmental Clearance. (SIA/TN/MIN/200565/2021 Dt.01.03.2021)

The proposal was placed for appraisal in this 350th SEAC Meeting held on 02.02.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, Thiru. S. Thirumavalavan, has applied for Environmental Clearance Multi Colour Granite quarry over an extent of 1.76.0 Ha at S.F. No: 22/7A, 22/8, 22/9, 22/10, 39/1 & 39/3, Thonugal village, Kariyapatti Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1(a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. The quarry land falls under Non Forest / Patta land.
4. It is a fresh quarry seeking Environmental Clearance for 5 years.
5. As per the proposal, the depth of mining proposed is 13m BGL with a total quantity of RoM is 28,620 Cu.m and recoverable is 8,586 Cu.m of multicolored granite @ 30% recovery for first five years. The ultimate depth is 33m BGL.
6. The project was placed before the 229th SEAC committee dated 27.08.2021.


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Based on the case presented by the proponent through his consultant SEAC noted as follows:

SEAC observed that there is an odai adjacent to the proposed quarry site and it has been cut off by the previous mining activity. SEAC also mentioned that that the odai has to be restored and adequate safety distance to the odai. With this at the backdrop, SEAC had decided to make a visit by subcommittee members to assess the actual present condition and feasibility for restoring the odai. It was also decided to deliberate based on the above report for further course of action.

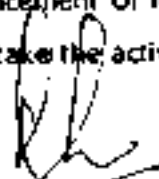
The sub-committee comprising of Shri. R. Thangaprakasam, Member, SEAC and Dr. M R Ramasubramanian Member, SEAC. The sub-committee members were accompanied by the proponent Mr. Thirumavalavan, during the mine visit on 27.05.2022. The EIA consultant Mr. Guru Ramachandran also accompanied the subcommittee during the visit.

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

Observations:

1. The proposed quarry site has been properly fenced with stones and barbed wire.
2. There is an abandoned quarry adjacent to the proposed quarry without any safety enclosure. However, it was noted that the said expired quarry was operational more than 20 years ago and there has been no recent quarrying activity in the vicinity.
3. Green belt development initiatives have been started and conocarpus plants have been planted which are well established at the time of inspection
4. There is a odai on the northern side of the quarry. However, the quarry operation shall be 50m away from the odai.
5. The odai has been restored from the point of commencement of lease area by the proponent where he has the right to undertake the activity.


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He has restored the odai to a distance of more than 200 m which is sufficient enough to drain the water to the adjacent kanmai.

6. There is a small village temple about 75 m from the quarry on the western side. However, on enquiry with the local villagers, it was observed that the village people visit the temple hardly for 5- 6 days in a year.
7. As per the proposal there is very minimal / occasional blasting activity required for mining this quarry and only diamond wire saw cutting will be used.

Recommendations:

1. The proponent has adhered to the basic conditions including fencing, green belt development and safety distance from the proposed odai.
2. Since there is very minimal blasting in this quarry, the proximity of the quarry near the temple is not going to affect the normal activity of the villagers.
3. Moreover, since the activity near temple is hardly going to be for 5 – 6 days in a year, the quarrying activity will not be a disturbance to the community.
4. Moreover, blasting, if any, to be done can be taken up only when there is no gathering in the temple. This can be put as a condition to the proponent.
5. The odai has been restored as advised by earlier SEAC committee observations and smooth passage of rainwater has been ensured around the proposed quarry
6. With these observations at the backdrop, the subcommittee recommends that EC may be granted to the proposed mine provided the proponent fulfils all the other laid down conditions applicable for EC clearance and granting of license

The proposal was again been placed in 309th SEAC meeting held on 2.09.2022. Based on the recommendations of the sub-committee and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for below quantities.


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Year	ROM in m³	Multi Colour Granite 30% Recovery In m³	Granite Waste 70 % In m³	Top Soil & Weathered Rock	Side Burden In m³
I	5,40	1,620	3,780	4,092	-
	5,40	1,620	3,780		-
II	5,67	1,701	3,969	3,906	-
	5,67	1,701	3,969		-
III	5,67	1,701	3,969	3,906	-
	5,67	1,701	3,969		-
IV	5,94	1,782	4,158		
	5,94	1,782	4,158	-	-
V	5,94	1,782	4,158		-
	5,94	1,782	4,158	-	

Subsequently, the proposal was placed in 554th SEIAA meeting held on 26.09.2022.

After detailed deliberation, SEIAA noted that

1. As per the KML file uploaded by the proponent, it is ascertained that Pattavan Kovil exists at 214m, Nazareth Church at 264m and Sri Andiyappan Temple at 80m from the proposed mine lease area. Since, the proposed quarry is situated in sensitive area, proponent is requested to obtain NOC from Director, Department of Geology and Mining.
2. As per Tamil Nadu Minor Mineral Concession Rules, 1959 a safety distance of 50 Mts. from the highways and railway lines should be left and maintained. The proposed mine lease area is abutting Madurai Thoothukudi Highway. Hence, the proponent is requested to leave a safety distance of 50m from the Highway and submit a revised quantity and Mine plan section.

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


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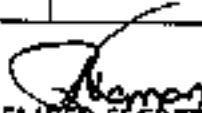
Based on the above queries, the proposal was again placed in 328th SEAC meeting held on 11.11.2022. Based on the presentation made by the PP, SEAC noted that

1. The PP had applied for NOC from the Director, Department of Geology and Mining and had requested for additional time to submit the NOC before Committee.

Hence, upon the receipt of NOC from Director, Department of Geology and Mining, the proposal will be taken up for further appraisal.

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

S. No	Details of the Proposal	:	Data Furnished
1	Name of the Owner/Firm	:	Thiru. S. Thirumavalavan No.249, Ram Nagar 6th Street Madurai -625016
2	Type of quarrying	:	Multi coloured Granite
3	S.F No. of the quarry site	:	22/7A, 22/8, 22/9, 22/10, 39/1 & 39/3
4	Village in which situated	:	Thonugal
5	Taluk in which situated	:	Kariyapatti
6	District in which situated	:	Virudhunagar
7	Extent of quarry (in ha.)	:	1.76.0 Ha
8	Latitude & Longitude of all corners of the quarry site	:	09°37'28.88" N to 09°37'33.50" N 78°05'17.36" E to 78°05'24.05" E
9	Topo Sheet No.	:	58 K/02
10	Type of mining	:	Opencast Semi-Mechanized Mining
11	Period of quarrying proposed	:	5 years
12	Production (Quantity in m ³)	:	ROM - 28.620m ³ , Multi Colour Granite (30% recovery) - 8.586m ³ , Granite Waste (70%) - 20.034m ³


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13	Depth of quarrying	:	13m
14	Depth of water table	:	Depth of Summer season = 55m Depth of Rainy season= 50m
15	Man Power requirement per day:	:	21 Nos.
16	Water requirement: 4. Drinking & domestic purposes 5. Dust suppression 6. Green Belt	:	3.5 KLD 2.5 KLD 0.5 KLD 0.5 KLD
17	Power requirement c. Domestic Purpose	:	TNEB
18	Precise area communication approved by the Industries (MMB.2) Department, with date	:	Letter.No.6281/MMB.2/2020-1, Dated 12.10.2020
19	Mining Plan approved by Joint Director, Department of Geology and Mining with date	:	Rc.No.9038/MM2/2016, Dated 07.01.2021
20	Deputy Director, Department of Geology and Mining 500m cluster letter	:	Roc.No.KVI/24003/2015, Dated 27.01.2021
21	VAO certificate regarding 300m radius cluster	:	Letter dated: 15.02.2021
22	Project Cost (excluding EMP cost)	:	Rs.49,00,000/-
23	EMP cost	:	Capital Cost - Rs. 17.48 Lakhs Recurring cost - Rs. 11.21 Lakhs
24	CER cost	:	Rs. 5 Lakhs

Based on the above queries, the proposal was again placed in 350th SEAC meeting held on 02.02.2023. The PP has furnished a detailed reply covering the points raised by SEIAA. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for ROM – 28,620 m³, production quantity of 8,586 m³ of Multi Coloured Granite and Waste – 20,034 m³ for an annual peak production of 1,782 m³ of Multi Coloured Granite (4th & 5th Year) up to a depth of 33m BGL, subject to the standard conditions


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

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by the competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification No. S.O. 1807(E) Dt. 12.4.2022.
2. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall adhere the EMP as committed.
3. The proponent shall obtain a 'Star Rating' system awarded by Anna University, Chennai annually to the mining lease being operated for their efforts and shall contribute Rs.5 Lakhs for the initiatives taken for successful implementation of the Sustainable Development Framework (SDF).
4. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
5. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the existing highwall benches by maintaining appropriate width for the proposed benches incorporating the accessibility before obtaining CTO from TNPCB.
6. The proponent shall mandatorily appoint the statutory Mines Manager & other statutory competent persons and the Geologist in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Granite Conservation & Development Rules, 1999 respectively.
7. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.


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8. Further, the PP shall construct a parapet wall along with a thick vegetation by having plantation in two rows around the boundary of the quarry near the highway road.
9. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
10. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
11. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de silted and maintained properly.
12. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
13. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
14. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e., quantum of Granite, waste, over burden, side burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the MoEF & CC, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.


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15. The Proponent shall ensure that the overburden, waste rock and non-saleable granite generated during prospecting or mining operations of the granite quarry shall be stored separately in properly formed dumps on grounds earmarked. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps. Such dumps shall be properly secured to prevent the escape of material in harmful quantities which may cause degradation of the surrounding land or silting of water courses.
16. 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.
17. The Proponent shall ensure that the Noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.
18. The PP shall also develop the Green belt around the office buildings, along the side of the roads and on backfill areas, if any, apart from along the mine lease boundary. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated. In addition to improving the aesthetics, A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University and local school/college authorities. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
19. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing
20. 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


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

21. **Dust, Noise and Vibration Related:** Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and Information on safety and health aspects. Occupational health surveillance programme of the workers should be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures, if needed. Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
22. The impact on fauna species in the mining area is mostly due to noise vibration and loss of vegetation cover. No working is proposed during night time, i.e., after 6 pm. No lighting is allowed to spread outside quarry lease area.
23. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarry as assured in the Environmental Management Plan & the approved Mine Closure Plan.
24. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
25. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
26. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road

may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.

27. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
28. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
29. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the Granite Conservation and Development Rules 1999, the MCDR 2017 and Tamil Nadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skilful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
30. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
31. The Project Proponent shall 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.
32. 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.
33. All the conditions imposed by the concerned Assistant/Deputy Director, Geology & Mining, in the mining plan approval letter and the Precise area communication letter issued by the concerned District Collector should be strictly followed.


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34. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat / local representatives, if any, from whom any suggestion/representation has been received while processing the proposal.
35. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
36. As accepted by the Project Proponent the revised CER cost is Rs. 5 lakhs and the amount shall be spent for Government High school, Thonugal village before obtaining CTO from TNPCB.

AGENDA No: 350-05

(File No: 8438/2022)

Proposed Rough Stone Quarry lease over an extent of 1.65.5 Ha at S.F.Nos. 81/2A1 & 81/2A2 of Chettipillaiyamatham Village, Thirumangalam Taluk, Madurai District, Tamil Nadu by Thiru. P. Rajmohan – For Environmental Clearance.

(SIA/TN/MIN/ 409724 /2022, dated 04.11.2022)

The proposal was placed in this 350th meeting of SEAC held on 02.02.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. P. Rajmohan has applied seeking Environmental Clearance for the Proposed Rough Stone Quarry lease over an extent of 1.65.5 Ha at S.F.Nos. 81/2A1 & 81/2A2 of Chettipillaiyamatham Village, Thirumangalam Taluk, Madurai 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. The production for the five years in total quantity of recoverable as 59730cu.m of Rough stone & 28890cu.m of Gravel should not exceed for ultimate depth of mining, which is 18m BGL.


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4. ToR issued along with Public Hearing vide T.O. Lr No. SEIAA-TN/F.No.8438/SEAC/ToR-998/2021 Dated: 28.07.2021
5. Public Hearing minutes dated: 08.12.2022
6. Final EIA report submitted on 23.01.2023

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

1. Copy of registered lease deed of the mine lease area.
2. The EIA coordinator should submit a detailed action taken report on the queries/remarks raised by the public during public hearing on the proposed project.

Agenda No: 350 - 06

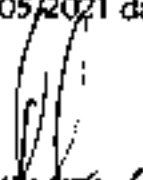
(File No: 8446/ 2022)

Proposed Rough stone and gravel quarry over an extent of 3.11.0 Ha in S.F.No. 54/2, 54/3 of Sundakkottai Village and S.F.Nos. 70/4, 70/5A1, 70/5A2, 70/5B, 70/6, 70/7, 70/8 of Aladipatti Village, Aruppukottai Taluk, Viruthunagar District, Tamil Nadu by Tmt. R. Subashini - For Environmental Clearance. (SIA/TN/MIN/ 61692/ 2021 dated: 28.06.2022)

The SEAC noted the following:

1. The project proponent, Tmt. R. Subashini has applied for Environmental Clearance for the proposed Rough stone and Gravel quarry over an extent of 3.11.0 Ha in S.F.No. 54/2, 54/3 of Sundakkottai Village and S.F.Nos. 70/4, 70/5A1, 70/5A2, 70/5B, 70/6, 70/7, 70/8 of Aladipatti Village, Aruppukottai Taluk, Viruthunagar District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item I(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan the lease period is for 10 years. The production for the ten years states that the total quantity of recoverable should not exceed 2,96,445 cu.m of Rough stone, 35,044 cu.m of Gravel with an ultimate depth of mining is 47m (2m Gravel + 45m Rough Stone) below ground level.
4. ToR was issued vide Lr. No. SEIAA-TN/F.No.8446/SEAC/ToR-1005/2021 dated 28.07.2021.
5. Public hearing was conducted on 20.04.22.


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6. Earlier this proposal was placed in the 323rd SEAC meeting held on 20.10.2022. Based on the presentation and the documents furnished by the Proponent, the SEAC noted that there is a water tank located at 100m from the mine lease area. Hence the SEAC directed the Proponent to furnish the following details:

- (i) The 'No Objection Certificate' from the Panchayat Union / PWD Department applicable to this Water body/Tank at a distance of 50 m for ascertaining the implications of quarrying operations.
- (ii) A brief study report on the implications of having the quarry operations nearer to the water body and along with a 'Standard Operating Procedure' (SoP) laid for water ingress and water egress situation in the proposed quarrying operation considering the existence of the above-mentioned water body.
- (iii) Detailed action plan for proposed tree plantation.

Based on the replies received, the proposal was again placed in 350th SEAC meeting held on 02.02.2023. The proposal is for mining of Rough stone & gravel. the salient features of the proposal are as follows:

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	: Tmt. R. Subashini W/o. Rajkumar No.54, South Car Street Vellaikkottai Aruppukottai Taluk Virudhunagar District-626101
2	Type of quarrying	: Rough stone & Gravel
3	S.F No. of the quarry site	: 54/2, 54/3, 70/4, 70/5A1, 70/5A2, 70/5B, 70/6, 70/7, 70/8
4	Village in which situated	: Sundakkottai & Aladipatti
5	Taluk in which situated	: Aruppukottai
6	District in which situated	: Virudhunagar
7	Extent of quarry (in ha.)	: 3.11.0 Ha
8	Latitude & Longitude of all corners of the quarry site	: 09°28'21.45" N to 09°28'27.70" N 78°11'21.10" E to 78°11'28.71" E

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9	Topo Sheet No.	: 58-I/03
10	Type of mining	Opencast Mechanized Mining
11	Period of quarrying proposed	: 10 years
12	Production (Quantity in m ³)	: 2,95,065m ³ of Rough stone & 35,044m ³ of Gravel
13	Depth of quarrying	: 42m (2m Gravel + 5m Weathered rock + 35m Rough stone)
14	Depth of water table	: Depth of Summer season = 65m Depth of Rainy season = 60m
15	Man Power requirement per day:	20 Nos.
16	Water requirement: 7. Drinking & domestic purposes 8. Dust suppression 9. Green Belt	: 4.0 KLD 1.0 KLD 2.0 KLD 1.0 KLD
17	Power requirement d. Domestic Purpose e. Industrial Purpose	TNEB 3,41,120 Litres of HSD will be utilized for entire project.
18	Precise area communication approved by the District Collector, with date	: Rc.No.KVI/469/2020-Kanimam, Dated 01.02.2021
19	Mining Plan approved by Deputy Director (i/c), Department of Geology and Mining with date	: Rc.No.KVI/469/2020-Mines, Dated 12.02.2021
20	Deputy Director, Department of Geology and Mining 500m cluster letter	: Rc.No.KVI/469/2020-Mines, Dated 12.02.2021
21	VAO certificate regarding 300m radius cluster	: Letter dated: 12.02.2021
22	Project Cost (excluding EMP cost)	: Rs. 58,97,000/-
23	EMP cost	: Capital Cost - Rs. 22,08,000 Recurring Cost - Rs. 18,19,000
24	CER cost	: Rs. 5,00,000
25	ToR Issued Details	: Lr.No.SELAA-TN/F.No.8446/SEAC/TOR-1005/2021, Dated: 28.07.2021
26	Public Hearing Date	: 20.04.2022
27	EIA Report submitted Date	: 30.06.2022


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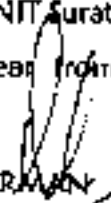

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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 2,95,065 m³ of Rough Stone and 35,044 m³ of Gravel for not exceeding a ultimate depth of 42 m but however not exceeding an annual peak production capacity -42,890 m³ of Rough stone and 7,680 m³ of Gravel with an ultimate depth of 42 m BGL, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, In addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC notification No. S.O. 1807(E) Dt12.4.2022.
2. The proponent shall adopt the following conditions stipulated as per the NOC obtained from the competent authority:
 - (i) No excavation shall be made in the places where the permission is granted in the lease by the competent authority.
 - (ii) The waste generated during the quarrying shall not be dumped (or) stacked in the proximity of the tank area.
 - (iii) No damage shall be done on the protective measures of the tank/canal located nearby, during the quarrying operations.
 - (iv) Necessary protective measures shall be carried out during the blasting operations such that the blast-induced ground vibrations are controlled within the statutory limits imposed vide the DGMS Cir. No. 7 of 1997 thereby no damages occur to the existing structural features of the water body/tank.
 - (v) The site where the quarrying operations are planned shall not impact the water inflow system to the existing tank in any situations.
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 communicate the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
5. 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, II/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
6. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
7. The PP shall maintain proper benching & sloping for the gravel formation separately with adequate width of not less than 2 m during the quarrying operations.
8. The PP shall carry out the shallow depth Jack hammer drilling (of 32-34 mm dia & 1.5 m depth) & NONEL initiation based 'controlled' blasting operation involving muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 20 m from the blast site.
9. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed directly by him as per the provisions of MMR 1961.
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 carry out the scientific studies on design of controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock in the proposed quarry, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research (CIMFR)/Dhanbad, NIRM, IIT (ISM)/Dhanbad, Anna University Chennai-Dept of Mining Engg, NIT Surathkal- Dept of Mining Engg, etc shall be carried out within one year from the


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commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.

12. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IITs, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
13. The PP shall annually carry out a comprehensive hydrogeological study to evaluate the impact of quarrying on the surrounding water bodies specifically the water tank, by involving any of these reputed Research and Academic Institutions - Central Institute of Mining and Fuel Research (CIMFR) - Dhanbad / Nagpur, NIRM, IIT-Madras, NIT- Dept of Mining Engg, Surathkal, NIT Trichy, University of Madras-Guindy Campus, Anna University - Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the AD (Geology & Mines), the concerned DEE/TNPCB, IRO/MoEF, Chennai and the SEIAA-TN, Chennai.
14. The PP shall furnish an affidavit while obtaining the CTO that a building situated at a distance of 70 m is owned by him and it will be used as stores pertaining to the quarrying activities.
15. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
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.


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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 to the EMP as committed.
19. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent to the committed activities for Panchayat Union Primary School, Kalaiyarkanisalkulam, Thiruchuli, Virudhunagar before obtaining CTO from TNPCB.

Agenda No. 350 – 07

(File No. 8450/2021)

Proposed Rough stone & Gravel Quarry lease over an extent of 1.96.0Ha in S.F.Nos.1258(P) of Sivanmalai Village, Kangayam Taluk, Tiruppur District, Tamil Nadu by Thiru.K.Murugasamy - for Environmental Clearance.

(SIA/TN/MIN/411131/2022, dt.17.12.2022)

The proposal was placed in 350th SEAC meeting held on 17.11.2022. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
2. The ToR was issued vide Lr. No. SEIAA-TN/F.No.8450/ToR-997/2021 Dated: 28.07.2021 to Thiru.K. Murugasamy for the proposed rough stone & Gravel Quarry lease over an extent of 1.96.0Ha in S.F.Nos.1258(P) of Sivanmalai Village, Kangayam Taluk, Tiruppur District, Tamil Nadu.
3. Minutes of public hearing conducted on 20.07.2022.
4. Final EIA report submitted on 20.12.2022
5. Now, the Project Proponent, Thiru.K. Murugasamy has applied for Environmental Clearance with EIA report along with minutes of public hearing for the proposed rough stone & Gravel Quarry lease over an extent of 1.96.0Ha in S.F.Nos.1258(P) of Sivanmalai Village, Kangayam Taluk, Tiruppur District,

Tamil Nadu.


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6. The precise area communication/lease is issued for the period of 5 years. The approved mining plan is for the period of five years & production should not exceed 181860m³ of Rough stone & 26676m³ of Weathered Gravel & 29736m³ of Gravel and the annual peak production shall not exceed 41,480 m³ of rough stone (5th Year). The ultimate depth is 24m BGL.

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

Sl. No	Details of the Proposal	:	Data Furnished
1	Name of the Owner/Firm	:	Thiru.K.Murugasamy S/o.Kannuppana Gounder No.223, Hospital Road Uthukuli Town Uthukuli Taluk Tiruppur District-638751
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	:	1258(P)
4	Village in which situated	:	Sivanmalai
5	Taluk in which situated	:	Kangayam
6	District in which situated	:	Tiruppur
7	Extent of quarry (In ha.)	:	1.96.0Ha
8	Latitude & Longitude of all corners of the quarry site	:	11°01'01.86"N to 11°01'08.33"N 77°30'36.99"E to 77°30'41.37"E
9	Topo Sheet No.	:	58-E/12
10	Type of mining	:	Opencast Mechanized of Mining
11	Period of quarrying proposed	:	5 years
12	Production (Quantity in m ³)	:	181860m ³ of Rough stone & 26676m ³ of Weathered Rock & 29736m ³ of Gravel

13	Depth of quarrying	: 24m BGL
14	Depth of water table	: 58m - 71m BGL
15	Man Power requirement per day:	25 Nos.
16	Source of Water Requirement	Water Vendors and bore well
17	Water requirement: 1. Drinking & domestic purposes (In KLD) 2. Dust suppression, Green Belt & Wet Drilling (In KLD)	: 2.0KLD 0.5 KLD 1.0 KLD 0.5 KLD
18	Power requirement Domestic Purpose Industrial Purpose	TNEB 1,54,488 Liters of HSD
19	Whether any habitation within 300m distance	: No
20	Precise area communication approved by the Assistant Director, G&M with date	: Rc.No.1149/ 2020/ Kanimam, Dated: 08.01.2021
21	Mining Plan approved by Assistant Director (i/c), Department of Geology and Mining with date	: Rc.No.1149/2020/ Kanimam, Dated: 01.02.2021
22	Assistant Director, mines 500m cluster letter	Rc.No.1149/2020/Mines, Dated: 01.02.2021
23	VAO certificate regarding 300m radius cluster	Letter dated: 29.01.2021
24	Project Cost (excluding EMP cost)	: Rs 37.21 Lakh
25	EMP cost	: EMP Cost – Rs. 266 Lakhs /10 Years including capital & recurring cost with 5% inflation cost anticipated every year

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26	CER cost	Rs. 5 Lakhs
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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the ultimate depth of mining upto 24m BGL and the quantity of 181860m³ of Rough stone & 26676m³ of Weathered Gravel & 29736m³ of Gravel and the annual peak production shall not exceed 41,480 m³ of rough stone subject to the standard conditions as per the Annexure 1 of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
4. The proponent shall create a separate bank account and shall deposit the cost allocated for the committed EMP activities every year and the said expenditure details spent on the committed EMP activities shall be maintained & periodically submitted to TNPCB.
5. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) considering the existing working conditions by maintaining appropriate benches of adequate safe width and incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m. before obtaining CTO from TNPCB.


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6. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) within the commencement of two years of quarrying operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
7. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the cluster mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
8. 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. III of MMR 1961 while working in the cluster situation within a period of six months from the commencement of mining operation.
9. Since the quarry site lies in the cluster situation, the PP shall furnish a 'Standard Operating Procedures in the Cluster Situation' for carrying out the safe method of carrying out the controlled blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
10. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.


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11. The PP shall ensure that the blasting operations are carried out by only the statutory persons like Blaster/Mine Mate/Mine Foreman directly employed by him as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
12. The PP shall ensure that adequate measures are taken to control the propagation of dust at the source level along the haulroads leading to the highways & village panchayat roads where the trucks are plying with loaded material.
13. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
14. The PP shall undertake suitable measures for the socio-economic development in the villages situated around the quarry.
15. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
16. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
17. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Govt. High School, Ramapattinam Village, Kangayam Taluk, Tiruppur as committed, before obtaining CTO from TNPCB.

AGENDA ITEM No: 350-08

(File No: 8459/2022)

Proposed Rough stone and Gravel Quarry lease over an Extent of 3.69.72 Ha in S.F. Nos. 72/2A, 72/2B, 72/3, 72/4, 72/5, 72/7, 73/5A & 73/5B, 4/1A Sundakkottai & Kalyanasundarapuram Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu by Thiru.T.Senthivel - For Environmental Clearance. (SA/TN/MIN/61726/2021, dated 28.06.2022)

The proposal was placed earlier in the 313th meeting of SEAC held on 22.09.2022. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.T.Senthivel has applied seeking Environmental


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Clearance for the Proposed Rough stone and Gravel Quarry lease over an Extent of 3.69.72 Ha in S.F. Nos. 72/2A, 72/2B, 72/3, 72/4, 72/5, 72/7, 73/5A & 73/5B, 4/1A Sundakkottai & Kalyanasundarapuram Village of Aruppukottai Taluk, Virudhunagar District.

2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006, as amended.
3. ToR issued along with Public Hearing vide T.O Lr No.SEIAA-TN/F.No.8459/SEAC/ToR-1002/2021 Dated: 28.07.2021
4. Public Hearing minutes dated: 20.04.2022
5. EIA Submitted on 30.06.2022

S. No	Details of the Proposal	
1.	Name of the Owner/Firm	Thiru.T.Senthivel, S/o.Thirukannan, No.42, Melatheru, Kilamudimannarkottai Village, Kamuthi Taluk, Ramanathapuram District - 623 603
2.	Type of quarrying (Rough Stone/Sand/Granite)	Rough stone and Gravel
3.	S.F No. Of the quarry site with area break-up	72/2A, 72/2B, 72/3, 72/4, 72/5, 72/7, 73/5A & 73/5B, 4/1A
4.	Village	Sundakkottai & Kalyanasundarapuram
5.	Taluk	Aruppukottai
6.	District	Virudhunagar
7.	Extent of quarry (in ha.) Govt land/patta land:	3.69.72 Ha Patta land
8.	Period of quarrying proposed	10 years
9.	Type of mining	Opencast Mechanised Method
10.	Production (Quantity in m3)	As per the mining plan, Geological reserves: 14.78.880 m ³ of Rough stone, 73.944 m ³ of Gravel for the ultimate depth of 42m BGL

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		<p>10-year production not to exceed 4,17,600m³ of Rough stone and 42,216 m³ of Gravel for a depth of 42m (2m Gravel + 40m Rough stone) BGL</p> <p>The Annual peak production as per mining plan is 45,000 m³ of Rough stone (5th year).</p>
11.	a. Depth of Mining in 10 years	42m (2m Gravel + 40m Rough stone) BGL
	b. Ultimate depth of mining	42m (2m Gravel + 40m Rough stone) BGL
12.	Latitude & Longitude of all corners of the quarry site	09°28'02.84"N to 09°28'09.17"N 78°11'22.32" E to 78°11'31.77"E
13.	Topo Sheet No.	58 - K/03
14.	Man Power requirement per day	32 Nos
15.	Precise area communication	Rc.No.KV1/518/2020-Mines Dated: 18.12.2020
16.	Mining Plan	Rc.No.KV1/518/2020-Mines Dated: 09.02.2021
17.	500m cluster letter	Rc.No.KV1/518/2020-Mines Dated: 09.02.2021
18.	Total Water requirement	4.0 KLD
19.	Power requirement for domestic purpose	TNEB
20.	Depth of water table	55m -65 m
21.	Whether any habitation within 300m distance	Nil as per the VAO letter
22.	Project Cost (including EMP cost)	Rs. 55,51,000/-
23.	EMP cost for 10 years	Capital Cost Rs. 10,50,000/- Recurring Cost Rs. 18,59,000/- Annum
24.	CER cost	
25.	VAO certificate regarding habitation within 300m radius	Dated: 01.03.2021

Based on the presentation and the documents furnished by the Proponent, the SEAC noted that there is a big water body located within 70m from the mine lease area. Hence the SEAC directed the Proponent to furnish the following details:

- (i) The 'No Objection Certificate' from the Panchayat Union / PWD Department applicable to this Water body/Tank for carrying out the quarrying operations closer.
- (ii) A brief study report on the implications of having the quarry operations nearer to the water body and the other way around along with a 'Standard Operating Procedures' (SoP) laid for water ingress and water egress situation in the proposed quarrying operation considering the existence of the above-mentioned water body.
- (iii) Detailed action plan for proposed tree plantation.

The proponent has furnished the above details, the proposal was placed in this 350th meeting of SEAC held on 02.02.2023. Based on the presentation made and the documents furnished by the Project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 4,17,600m³ of Rough stone and 42,216 m³ of Gravel for the depth of 42 meters BGL (40 m Rough Stone + 2 m Gravel) in a period of 10 years and the annual peak production as per mining plan is 3,54,755 m³ of Rough stone subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC notification No. S.O. 1807(E) Dt12.4.2022.
2. The proponent shall adopt the following conditions stipulated as per the NOC obtained from the competent authority:
 - (i) No excavation shall be made in the places where the permission is granted in the lease by the competent authority.


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- (ii) The waste generated during the quarrying shall not be dumped (or) stacked in the proximity of the tank area.
 - (iii) No damage shall be done on the protective measures of the tank/canal located nearby, during the quarrying operations.
 - (iv) Necessary protective measures shall be carried out during the blasting operations such that the blast-induced ground vibrations are controlled within the statutory limits imposed vide the DGMS Cir. No. 7 of 1997 thereby no damages occur to the existing structural features of the water body/tank.
 - (v) The site where the quarrying operations are planned shall not impact the water inflow system to the existing tank in any situations.
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 communicate the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
 5. 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.
 6. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) with a precipitation tank before obtaining the CTO from TNPCB.
 7. The PP shall maintain proper benching & sloping for the gravel formation separately with adequate width of not less than 2 m during the quarrying operations.
 8. The PP shall carry out the shallow depth Jack hammer drilling (of 32-34 mm dia & 1.5 m depth) & NONEL initiation based 'controlled' blasting operation involving muffle blasting in the proposed quarry such that the blast-induced



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ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 20 m from the blast site.

9. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed directly by him as per the provisions of MMR 1961.
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 carry out the scientific studies on design of controlled blasting for reducing the Impact of blast-induced ground/air vibrations and fly rock in the proposed quarry on the surrounding structures including tank, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research (CIMFR)/Dhanbad, NIRM, IIT (ISM)/Dhanbad, Anna University Chennai-Dept of Mining Engg, NIT Surathkal-Dept of Mining Engg. etc shall be carried out within one year from the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
12. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) within 3 years from the commencement of the quarrying operations whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IITs, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
13. The PP shall annually carry out a comprehensive hydrogeological study to evaluate the impact of quarrying on the surrounding water bodies specifically the water tank, by involving any of these reputed Research and Academic institutions - Central Institute of Mining and Fuel Research (CIMFR) - Dhanbad / Nagpur, NIRM, IIT-Madras, NIT- Dept of Mining Engg, Surathkal, NIT Trichy, University of Madras-Guindy Campus, Anna University - Dept of Geology, CEG Campus. A


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- copy of such scientific study report shall be submitted to the AD (Geology & Mines), the concerned DEE/TNPCB, IRO/MoEF, Chennai and the SEIAA-TN, Chennai.
14. The PP shall furnish an affidavit while obtaining the CTO that a building situated at a distance of 70 m is owned by him and it will be used as stores pertaining to the quarrying activities.
 15. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
 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 E.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed. As accepted by the Project Proponent the CER cost is Rs. 5 lakh and the amount shall be spent for the committed activities before obtaining CTO from TNPCB.

AGENDA No: 350-09


(File No: 8480/2022)

Proposed Rough stone, Jelly and Gravel Quarry lease over an Extent of 7.21.44 Ha (Patta Land) in S.F. Nos. 152/6, 151/4, 152/4B, 152/5B, 151/3, 151/1, 150/4A2, 150/4B, 150/3A, 150/3B, and 147/1C3 of Menallur Village and 121/2, 123/2A4B, 123/1A1, 123/1B, 123/1C, 123/1H, 123/1I, 123/1J, 123/2A1, 123/2A5, 123/2A6, 123/2B1, 123/2B2, 123/2A2, 123/2A3 and 123/4A4 of Poonalthangal Village of Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu by M/s. Shri Lakshmi Narayana Aggregates Private Limited- For Environmental Clearance. (SIA/TN/MIN/61726/2021, dated 28.06.2022)

The proposal was earlier placed in the 313rd meeting of SEAC held on 22.09.2022. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).


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The SEAC noted the following:

1. The project proponent, M/s.Shri Lakshmi Narayana Aggregates Private Limited has applied seeking Environmental Clearance for the proposed Rough stone, Jelly and Gravel Quarry lease over an Extent of 7.21.44 Ha (Patra Land) in S.F. Nos. 152/6, 151/4, 152/4B, 152/5B, 151/3, 151/1, 150/4A2, 150/4B, 150/3A, 150/3B, and 147/1C3 of Menallur Village and 121/2, 123/2A4B, 123/1A1, 123/1B, 123/1C, 123/1H, 123/1I, 123/1J, 123/2A1, 123/2A5, 123/2A6, 123/2B1, 123/2B2, 123/2A2, 123/2A3 and 123/A4A of Poonathangal Village of Vembakkam Taluk, Tiruvannamalai District.
2. The project/activity is covered under category "BI" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006, as amended.
3. ToR Issued along with Public Hearing vide T.O Lr No.SEIAA-TN/F.No.8480/SEAC/TOR-1001/2021 Dated: 28.07.2021
4. Public Hearing minutes dated: 17.02.2022
5. EIA submitted on 20.06.2022

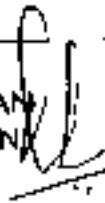
S. No.	Details of the Proposal	
1.	Name of the Owner / Firm	M/s.Shri Lakshmi Narayana Aggregates No.150/3B, Menallur Village Vembakkam Taluk Tiruvannamalai-631702
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough stone, Jelly and Gravel
3.	S.F No. of the quarry site	S.F.Nos. 152/6, 151/4, 152/4B, 152/5B, 151/3, 151/1, 150/4A2, 150/4B, 150/3A, 150/3B, and 147/1C3 of Menallur Village and 121/2, 123/2A4B, 123/1A1, 123/1B, 123/1C, 123/1H, 123/1I, 123/1J, 123/2A1, 123/2A5, 123/2A6, 123/2B1, 123/2B2, 123/2A2, 123/2A3 and 123/A4A of Poonathangal Village
4.	Village	Menallur and Poonathangal
5.	Taluk	Vembakkam
6.	District	Tiruvannamalai
7.	Extent of Quarry (In ha.)	7.21.44 Ha Patra land


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8.	Period of Quarrying proposed	5 years
9.	Type of Mining	Opencast Mechanized
10.	Production (Quantity in m ³)	As per the approved mining plan. Geological reserves: 36,04,600 m ³ of Rough stone, 72,092 m ³ of Weathered Rock and 1,44,184 m ³ of Gravel to the ultimate depth of 53m BGL. 5-year Production (Restricted as per ToR): 8,93,800 m ³ of Rough stone, 72,092 m ³ of Weathered Rock and 95,868 m ³ of Gravel. The Annual peak production as per mining plan is 1,94,620 m ³ of Rough stone (4 th year).
11.	a. Depth of Mining in 10 years b. Ultimate depth of mining	28 m BGL (Restricted depth as per ToR)
12.	Latitude & Longitude of all corners of the quarry site	12° 43' 49.09" N to 12° 44' 05.50" N 79° 42' 39.09" E to 79° 42' 49.98" E
13.	Topo sheet No.	57 - P/10
14.	Man power requirement per day:	27 Employees
15.	Precise Area Communication	Rc.No.125/Kanimam/2020 dated 18.12.2020
16.	Mining plan approval letter	Rc.No.125/Kanimam/2020 dated 26.02.2021
17.	500m letter	Rc.No.125/Kanimam/2020 dated 26.02.2021
18.	Water requirement: 4. Drinking & domestic purposed (in KLD) 5. Dust Suppression (in KLD) 6. Green Belt (in KLD)	5.00 KLD 1.50 KLD 3.5 KLD
19.	Power requirement: c. Domestic purpose d. Industrial Purpose	TNEB
20.	Depth of Water table	53m BGL
21.	Whether any habitation within 300m distance	No as per VAO letter
22.	Project cost (Excluding EMP cost)	Rs. 1,14,35,760/-


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23.	EMP cost	Capital Cost- Rs. 21,60,000/- Recurring Cost- Rs. 2,27,000/- per Annum
24.	CER cost	Rs. 5,00,000/-
25.	VAO letter dated	Letter Dated: 20.03.2021

Based on the presentation and the documents furnished by the Proponent, the SEAC noted that the quarrying operation is proposed in the catchment area of a huge water body which is located within 300m from the mine lease area and hence directed the Proponent to furnish the following details:

- (i) The 'No Objection Certificate' from the Panchayat Union / PWD Department applicable to this Water body/Tank for carrying out the quarrying operations closer.
- (ii) A brief study report on the implications of having the quarry operations nearer to the water body and the other way around along with a 'Standard Operating Procedures' (SoP) laid for water ingress and water egress situation in the proposed quarrying operation considering the existence of the above-mentioned water body.
- (iii) The details of location/places where the tree plantation programme is planned for accommodating the adequate number of saplings, in the event of quarrying operation.

The Proponent furnished the details sought by the Committee vide letter dated 17.10.2022. Hence the proposal was placed for reappraisal in this 327th meeting of SEAC held on 10.11.2022. Based on the presentation and documents furnished by the project proponent,

SEAC decided to obtain the following details:

The Project Proponent shall furnish the revised EMP in the format prescribed by the SEAC.

The Proponent furnished the details sought by the Committee and hence the proposal was placed for reappraisal in this 350th meeting of SEAC held on 10.11.2022. Based on the presentation and documents furnished by the project


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proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production quantity of 8,93,800 m³ of Rough stone and 95,868 m³ of Gravel in 5 years and not exceeding annual peak production of 1,94,620 m³ of Rough stone as per the approved mining plan subject to the standard conditions as per the Annexure 1 of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC notification No. S.O. 1807(E) Dt12.4.2022.
2. The proponent shall scrupulously follow the conditions as stipulated below:
 - (i) No excavation shall be made in the places where the permission is granted in the lease by the competent authority.
 - (ii) The waste generated during the quarrying shall not be dumped (or) stacked in the proximity of the tank area.
 - (iii) No damage shall be done on the protective measures of the tank/canal located nearby, during the quarrying operations.
 - (iv) Necessary protective measures shall be carried out during the blasting operations such that the blast-induced ground vibrations are controlled within the statutory limits imposed vide the DGMS Cir. No. 7 of 1997 thereby no damages occur to the existing structural features of the water body/tank.
 - (v) The site where the quarrying operations are planned shall not impact the water inflow system to the existing tank in any situations.
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 communicate the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.


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5. 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.
6. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) with a precipitation tank before obtaining the CTO from TNPCB.
7. The PP shall maintain proper benching & sloping for the gravel formation separately with adequate width of not less than 2 m during the quarrying operations.
8. The PP shall carry out the shallow depth Jack hammer drilling (of 32-34 mm dia & 1.5 m depth) & NONEL Initiation based 'controlled' blasting operation involving muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 20 m from the blast site.
9. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Male/Mine Foreman employed directly by him as per the provisions of MMR 1961.
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 carry out the scientific studies on design of controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock in the proposed quarry on the surrounding structures including tank, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research (CIMFR)/Dhanbad, NIRM, IIT (ISM)/Dhanbad, Anna University Chennai-Dept of Mining Engg, NIT Surathkal-Dept of Mining Engg, etc


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shall be carried out within one year from the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.

12. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) within 3 years from the commencement of the quarrying operations whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IITs, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
13. The PP shall annually carry out a comprehensive hydrogeological study to evaluate the impact of quarrying on the surrounding water bodies specifically the water tank, by involving any of these reputed Research and Academic institutions - Central Institute of Mining and Fuel Research (CIMFR) - Dhanbad / Nagpur, NIRM, IIT-Madras, NIT- Dept of Mining Engg, Surathkal, NIT Trichy, University of Madras-Guindy Campus, Anna University - Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the AD (Geology & Mines), the concerned DEE/TNPCB, IRO/MoEF, Chennai and the SEIAA-TN, Chennai
14. The PP shall furnish an affidavit while obtaining the CTO that a building situated at a distance of 70 m is owned by him and it will be used as stores pertaining to the quarrying activities.
15. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
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.


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

Agenda No. 350 – 10

(File No. 8499/2021)

Proposed Rough Stone & Gravel Quarry lease over an extent of 1.19.0Ha in S.F.Nos.72/4 of Chinna Ulagani Village, Kallikudi Taluk, Madurai District, Tamilnadu by Thiru.K.Venkatraman - for Environmental Clearance. (SIA/TN/MIN/408488/202, dt.29.11.2022)

The proposal was placed in 350th SEAC meeting held on 02.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
2. The ToR was issued vide Lr. No. SEIAA-TN/F.No.8499/SEAC/ToR- 991/2021 Dated: 28.07.2021 to Thiru.K.Venkatraman for the proposed Rough Stone & Gravel Quarry lease over an extent of 1.19.0Ha in S.F.Nos.72/4 of Chinna Ulagani Village, Kallikudi Taluk, Madurai District, Tamilnadu.
3. Minutes of public hearing conducted on 26.07.2022
4. Final EIA report submitted on 01.12.2022
5. Now, the Project Proponent, Thiru.K.Venkatraman has applied for Environmental Clearance with EIA report along with minutes of public hearing for the proposed Rough Stone & Gravel Quarry lease over an extent of 1.19.0Ha in S.F.Nos.72/4 of Chinna Ulagani Village, Kallikudi Taluk, Madurai District, Tamilnadu.
6. The precise area communication/lease is issued for the period of 5 years. The approved mining plan is for the period of five years & production should not exceed 57430 cu.m of rough stone & 10494 cu.m of Gravel and the annual peak


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production shall not exceed 12,300 m³ of rough stone (3rd Year). The ultimate depth is 22m BGL.

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

S. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru.K.Venkatraman S/o. Kalyana Sundaram No.41- Sairam Illam Harvy Nagar 2nd Street Arasaradi Madurai District-625016
2	Type of quarrying (Sawudu/Rough Stone/Sand/Granite)	Rough Stone & Gravel
3	S.F No. Of the quarry site with area break-up	72/4
4	Village in which situated	Chinna Ulagani
5	Taluk in which situated	Kallikudi
6	District in which situated	Madurai
7	Extent of quarry (in ha.)	1.19.0Ha
8	Latitude & Longitude of all corners of the quarry site	09°46'03.58" N to 09°46'08.21"N 78°02'44.95"E to 78°02'49.53"E
9	Topo Sheet No.	58- K/01
10	Type of mining	Opencast Mechanized of Mining
11	Period of quarrying proposed	5 years
12	Production (Quantity in m ³)	57430 cu.m of rough stone & 10494 cu.m of Gravel
13	Ultimate Depth of quarrying	22m below ground level
14	Depth of water table	65m - 60m below ground level

15	Man Power requirement per day:	17 Nos.
16	Source of Water Requirement	Water Vendors and Existing borewell
17	Water requirement: 3. Drinking & domestic purposes (in KLD) 10. Dust suppression, Green Belt & Wet Drilling (in KLD)	2.0 KLD 0.5 KLD 1.0 KLD 0.5 KLD
18	Power requirement I. Domestic Purpose Industrial Purpose	TNEB 52.182 Liters of HSD
19	Whether any habitation within 300m distance	No
20	Precise area communication approved by the Assistant Director, G&M with date	Na.Ka.No.427/2020-Kanimam, dated: 24.12.2020.
21	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	Rc.No.427/2020-Mines, dated: 01.03.2021.
22	Assistant Director, mines 500m cluster letter	Rc.No.427/Mines/2020, dated: 08.03.2021.
23	VAO certificate regarding 300m radius cluster	Letter dated: 02.03.2021
24	Project Cost (excluding EMP cost)	Rs.22.78 Lakhs
25	EMP cost	EMP Cost – Rs. 136.70 Lakhs /5 Years including capital & recurring cost with 5% Inflation cost anticipated every year.


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26	CER cost	5 Lakhs
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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the ultimate depth of mining upto 22m BGL and the quantity of 57430 cu.m of rough stone & 10494 cu.m of Gravel and the annual peak production shall not exceed 12,300 m³ of rough stone (3rd Year) subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF & CC. In addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
4. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
5. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
6. The PP shall carry out the tree plantation to act as a barrier to reduce noise


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level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.

7. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
8. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) considering the existing working conditions of 13 m highwall bench by maintaining appropriate safe width for the same and incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.
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) within the commencement of two years of quarrying operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
10. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the cluster mines on the surrounding villages and the prominent structures situated within 1 km from the boundary of the quarry such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.


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11. As a part of EC Compliance, the PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
12. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
13. As the habitations are located nearby, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia & 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure the environmentally acceptable blasting operation.
14. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
15. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB while considering the adjacent quarries lies in a radial distance of 500 m from their quarry.
16. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
17. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.


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18. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
19. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
20. The PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
21. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
22. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
23. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.II dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
24. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Govt. High School, Chinna Ulagani Village as committed, before obtaining CTO from TNPCB.


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AGENDA No: 350- 11

(File No: 8557/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.01.0Ha in SF.No.252/2, 252/4 & 252/5, K.Pudukkottai Village, Dindigul West Taluk, Dindigul District Tamil Nadu by Tmt.C.Umarani – For Environmental Clearance. (SIA/TN/MIN/405134 /2022, dated 04.11.2022)

The proposal was placed in this 350th meeting of SEAC held on 02.02.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Tmt.C.Umarani has applied seeking Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 1.01.0Ha in SF.No.252/2, 252/4 & 252/5, K.Pudukkottai Village, Dindigul West Taluk, Dindigul District Tamil Nadu.
2. The project/activity is covered under category "B1" of Item I (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006, as amended.
3. ToR issued along with Public Hearing vide T.O Lr No.SEIAA-TN/F.No.8557/ToR-1079/2021 Dated: 09.03.2022
4. Public Hearing minutes dated: 24.08.2022
5. EIA report submitted on 07.11.2022

S. No.	Details of the Proposal	
1.	Name of the Owner / Firm	Tmt.C.Umarani No.11-4-29, Royal Theatre Backside, Anna Nagar, Keelakottai, Chinnalapatti Dindigul-624301
2.	Type of quarrying (Rough stone / Sand / Granite)	Rough Stone & Gravel
3.	S.F No. of the quarry site	252/2, 252/4 & 252/5
4.	Village	K.Pudukkottai
5.	Taluk	Dindigul West
6.	District	Dindigul
7.	Extent of Quarry (in ha.)	1.01.0Ha patta land


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8.	Period of Quarrying	5 years
9.	Type of Mining	Opencast Semi-Mechanized of Mining
10.	Production (Quantity in m ³)	As per the approved mining plan. Geological reserves: 2,55,465 m ³ of Rough stone and 4,55,99 m ³ of Gravel for the Ultimate depth of 36 m BGL. 5-year Production: 59,730 m ³ of Rough Stone & 28,890 m ³ of Gravel (as per ToR) The annual peak production as per mining plan is 15,968 m ³ of Rough stone (4 th year).
11.	a. Existing Depth of Mining	18m (1m Topsoil + 4.5m Gravel + 12.5m Rough Stone)
	b. Ultimate depth	36m
12.	Latitude & Longitude of all corners of the quarry site	10°26'57.72"N to 10°27'1.89"N 77°51'39.71"E to 77°51'45.38"E
13.	Topo sheet No.	58-F/15
14.	Man power requirement	22
15.	Precise Area Communication	Na.Ka.No.432/2020(Kanifmam), dated:17.02.2020
16.	Mining plan approval letter	RC.No.432/2020 (Mines), dated.29.04.2021.
17.	500m letter	Rc.No.432/2020 (Mines), dated.29.04.2021.
18.	Water requirement: 7. Drinking & domestic purposed (in KLD) 8. Dust Suppression (in KLD) & Green Belt (in KLD)	4.3KLD 1.3KLD 3.0KLD
19.	Power requirement: e. Domestic purpose f. Industrial Purpose	TNEB 47784 Litre of HSD
20.	Depth of Water table	45m-50m BGL
21.	Whether any habitation within 300m distance	No
22.	Project cost (Excluding EMP cost)	Rs. 29,42,720/-
23.	EMP cost	Capital cost - Rs. 19,68,444/-


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		Recurring cost for ten years- Rs. 2.54 crores (based on the revised EMP)
24.	CER cost	Rs. 5,00,000/- as per SEAC
25.	VAO letter dated	Letter dated: 06.05.2021

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production quantity of 59,730 m³ of Rough Stone & 28,890 m³ of Gravel in 5 years and not exceeding annual peak production of 15,968 m³ of Rough stone as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes and normal conditions stipulated by MOEF & CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by Competent Authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The Project Proponent (PP) shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region before obtaining the CTO and get the necessary statutory permission under the MMR 1961 pertaining to the quarry working operations.
4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy.
5. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.


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6. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in all the quarries of this cluster site collectively if amalgamation is done and when the depth of the working touches 30 m (or) within the two years from the commencement of quarrying operations whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IIT-Chennai, NIT-Dept of Mining Engineering, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
7. Due to cluster situation, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia & 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure that no flyrock / throw travels beyond 10 m from the blasting.
8. The PP shall carry out the 'Line drilling' operations in every blast such that the shock wave produced from the blast site does not travel beyond 100 m towards the direction of the habitations located at a distance of 360 m.
9. No 'Deep-hole large diameter drilling and blasting' is carried out in the proposed quarry.
10. The PP shall carry out the blasting operation twice in a week such that the blasting frequency is limited to the extent for ensuring the control of blast-induced environmental impacts and adopt all necessary precautionary measures in accordance with the provisions of MMR 1961 during the time of blasting.
11. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the cluster mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as 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


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

12. 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.
13. The Project Proponent shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
14. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB while considering the adjacent quarries lies in a radial distance of 500 m from their quarry.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.


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20. Within one year from the commencement of quarrying operations, the PP shall carry out a cumulative hydrogeological study considering the cluster of the mines operating in the area to evaluate the impact of cluster quarrying operations on the surrounding water bodies by involving any of these reputed Research and Academic institutions - Central Institute of Mining and Fuel Research (CIMFR) - Dhanbad / Nagpur, NIRM, IIT-Madras, NIT Dept of Mining Engg, Surathkal, NIT Trichy, University of Madras-Guindy Campus, Anna University - Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the AD (Geology & Mines), the concerned DEE/TNPCB, IRO/MoEF, Chennai and the SEIAA-TN, Chennai.
21. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
22. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
23. As per the MoEF & CC Office Memorandum F.No. 22-65/2017-IA, III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
24. As accepted by the Project proponent the CER cost is Rs. 5.0 lakh and the amount shall be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.


Agenda No: 350 - 12

(File No: 8558/2022)

Proposed Rough stone quarry lease over an extent of 3.52.0Ha at S.F.Nos. 314, 317/3 & 317/4 of Kothapull Village, Dindigul West Taluk, Dindigul District, Tamil Nadu by Thiru. A. Jeyaraman - For Environmental Clearance. (SIA/TN/MIN/403687/2022, dated: 18.10.2022)

The proposal was placed in this 350th meeting of SEAC held on 02.02.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).


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

1. The Proponent, Thiru. A. Jeyaraman has applied seeking Environmental Clearance for the Proposed Rough stone quarry lease over an extent of 3.52.0Ha at S.F.Nos. 314, 317/3 & 317/4 of Kothapulli Village, Dindigul West Taluk, Dindigul District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. ToR issued vide Lr No. SEIAA-TN/T.No.8558/SEAC/ToR-1078/2021 Dated: 08.03.2022.
4. Public Hearing conducted on 30.08.2022.
5. EIA Report submitted on 18.10.2022.
6. Earlier, the proposal was placed in this 333rd meeting of SEAC held on 01.12.2022. Based on the presentation made by the proponent, SEAC decided to call for additional details
 1. The PP shall submit Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai and appropriate mitigating measures for the non-compliance items, if any.
 2. Videography evidence showing the Greenbelt development incorporating tree plantation (minimum 2000).
 3. Videography evidence showing the Complete Installation of fencing along the boundary with proper gulland drainage and settling / precipitation pond.
 4. Revised Plan & Section indicating the revised bench configurations duly approved by the competent authority.
7. Subsequently, the proposal was placed in 574th SEIAA meeting held on 17.12.2022,
In addition to the above queries, the proponent shall submit the following details
 1. From the KML file uploaded by the proponent it appears that the proposed mine lease area is surrounded by Agricultural land. Further, the

site itself appears to be an agricultural land. Hence, the proponent is requested to submit the following

- i. Impact of mining activity on productivity of crops in the surrounding agricultural land.
- ii. 10-year crops pattern and yield in the surrounding agricultural land and in the proposed mine lease area.
- iii. Impact on loss of land use pattern, impact on water including surface and groundwater.
- iv. Impact on Biodiversity, Horticulture.
- v. Possibility of Dust and Air Pollution impact on the neighboring Agricultural lands.

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

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

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru. A. Jeyaraman S/o. Alagiri Gounder No.H2,42, R.M. Colony Dindigul-624001
2	Type of quarrying	Rough Stone
3	S.F No. Of the quarry site	314, 317/3 & 317/4
4	Village in which situated	Kothapalli
5	Taluk in which situated	Dindigul West
6	District in which situated	Dindigul
7	Extent of quarry (In ha.)	3.52.0Ha (Patta Land)
8	Period of quarrying proposed	5years
9	Latitude & Longitude of all corners of the quarry site	10°26'40.92" N to 10°26'51.42" N 77°51'41.54" E to 77°51'48.26" E
10	Topo Sheet No.	58-F/15
11	Type of mining	Open cast Semi-Mechanized Mining
12	Production (Quantity in m ³)	4,29,526m ³ of Rough stone
13	Period of quarrying proposed	5 years

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14	Proposed Depth of quarrying	35m BGL (1m top soil + 34m rough stone)
15	Depth of water table	50m
16	Man Power requirement per day:	28 Nos
17	Water requirement:	4.5 KLD
	4. Drinking & domestic purposes	1.8 KLD
	5. Dust suppression	1.2 KLD
	6. Green Belt	1.5 KLD
18	Power requirement	TNEB
	g. Domestic Purpose	3.43.632 litres of HSD
	h. Industrial Purpose	
19	Precise area communication issued by Assistant Director with date	Na.Ka.No.440/2020(Kanmam), Dated:24.02.2021
20	Mining Plan approved by approved by Assistant Director, Mines with date	Rc.No. 440/2020(Mines). Dated:29.04.2021
21	500m cluster letter issued by AD/Mines with date	Rc.No. 440/2020(Mines). Dated:29.04.2021
22	VAO certificate regarding habitation within 300m radius	Letter dated: 05.05.2021
23	Project Cost	Rs.21,01,920
24	EMP cost	Capital Cost - Rs 49,86,603 Recurring Cost - Rs. 72,75,100
25	CER cost	Rs. 5,40,000
26	ToR Issued Details	Lr.No.SEIAA-TN/F.No.8558/SEAC/TOR-1078/2021. Dated: 08.03.2022
27	Public Hearing Date	30.08.2022
28	EIA Report submitted Date	18.10.2022

Based on the above queries, the proposal was again placed in 350th SEAC meeting held on 02.02.2023. Based on the presentation made and documents submitted by the PP. Including replied to the points raised by SEIAA, the SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 4,92,526 m³ of Rough Stone for not exceeding a depth of 35 m but however not exceeding an annual peak production capacity - 94,130 m³ of Rough stone with an ultimate depth of 35 m BGL subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:


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1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC notification No. S.O. 1807(E) Dt12.4.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The Project Proponent (PP) shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region before obtaining the CTO and get the necessary statutory permission under the MMR 1961 pertaining to the quarry working operations.
4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy.
5. 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.
6. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
7. The PP shall maintain proper benching & sloping for the gravel formation separately with adequate width of not less than 2 m during the quarrying operations.
8. The PP shall carry out the shallow depth Jack hammer drilling (of 32-34 mm dia & 1.5 m depth) & NONEL initiation based 'controlled' blasting operation


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- involving muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 20 m from the blast site.
9. No 'Deep-hole large diameter drilling and blasting' is carried out in the proposed quarry.
 10. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed directly by him as per the provisions of MMR 1961.
 11. 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.
 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.
 13. The PP shall carry out the scientific studies on design of controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock in the proposed quarry, by involving any one reputed Research and Academic Institutions - CSIR-Central Institute of Mining and Fuel Research (CIMFR)/Dhanbad, NIRM, IIT (ISM)/Dhanbad, NIT Surathkal-Dept of Mining Engg, Anna University Chennai-Dept of Mining Engg, etc shall be carried out within one year from the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
 14. The Project Proponent shall carry out the scientific studies to assess the slope stability of the existing benches in the quarries within the one year from the commencement of quarrying operations whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IIT-Chennai, NIT-Dept of Mining Engineering, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.

15. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
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 to the EMP as committed.
19. As accepted by the Project Proponent the CER cost is Rs. 5.4 lakhs and the amount shall be spent to the committed activities for Government Higher Secondary school, K. Pudukottai Village, before obtaining CTO from TNPCB.

Agenda No: 350 - 13

(File No: 8565/2021)

Proposed Rough Stone quarry lease area over an extent of 2.00.0 Ha at S.F.Nos.7/1 (Part) of Veppalampatti Village, Uthangarai Taluk, Krishnagiri District, Tamil Nadu by Thiru. P. Govindasamy - For Environmental Clearance. (SIA/TN/MIN/214724/2021, dated: 11.06.2021).

The proposal was placed for appraisal in this 338th meeting of SEAC held on 14.12.2022. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.P. Govindasamy, has applied for Environmental Clearance for the proposed Rough Stone quarry lease area over an extent of 2.00.0Ha at S.F.Nos.7/1 (Part) of Veppalampatti Village, Uthangarai Taluk, Krishnagiri District, Tamil Nadu.


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2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The production for the five years states that the total quantity of recoverable as 1,80,858cu.m of Rough Stone and 20,586cu.m of Top Soil with annual peak production as 39,905cu.m (5th year) and 19,602cu.m (1st year) of top soil and the ultimate depth of mining is 35m below ground level.
4. Earlier, this proposal was placed in 231st meeting of SEAC held on 03.09.2021. Based on the presentation and documents furnished by the project proponent, SEAC that earlier EC obtained by the proponent is valid till November 2021. Hence SEAC decided the project proponent shall submit clarification letter from AD, mines on last quarry operated date.
5. On the receipt of the reply furnished by the PP, this proposal was again placed in 297th SEAC meeting held on 21.07.2022. The PP made a presentation along with above said details. Based on the presentation made by the proponent, SEAC decided to call for the following details from the PP.
 - 1) The PP shall furnish DFO letter stating that the proximity distance of Onnakarai R.F. other Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
6. Subsequently, the proposal was again placed in 542nd SEIAA meeting held on 23.08.2022. The authority noted that the subject was appraised in 297th SEAC meeting held on 21.07.2022. In addition to these, SEIAA decided to obtain the following additional particulars from the project proponent.
 - a) Impact of mining on the water bodies and agricultural fields situated in the vicinity of the proposed lease area may be studied through an accredited Research Institute.
 - b) Impact of mining/blasting on the arterial roads, roadways/pathways situated in the vicinity of the proposed lease area may be studied through an accredited Research Institute.
7. Based on the reply furnished, the proposal was again placed in 338th SEAC meeting held on 14.12.2022.


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

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

Sl. No	Details of the Proposal	Data Furnished																		
1	Name of the Owner/Firm	Thiru. P. Govindasamy S/o. Parasuramagounder No.98/91, Periyar Nagar Uthangarai Taluk Krishnagiri -635207																		
2	Type of quarrying	Rough stone																		
3	S.F No. of the quarry site	7/1(Part)																		
4	Village in which situated	Veppalampatti																		
5	Taluk in which situated	Uthangarai																		
6	District in which situated	Krishnagiri																		
7	Extent of quarry (in ha.)	2.00.0 Ha																		
8	Latitude & Longitude of all corners of the quarry site	<table border="1"> <thead> <tr> <th>PILLAR ID</th><th>LATITUDE</th><th>LONGITUDE</th></tr> </thead> <tbody> <tr> <td>1</td><td>12°12'47.77"N</td><td>78°32'10.56"E</td></tr> <tr> <td>2</td><td>12°12'45.39"N</td><td>78°32'9.46"E</td></tr> <tr> <td>3</td><td>12°12'44.59"N</td><td>78°32'10.15"E</td></tr> <tr> <td>4</td><td>12°12'45.38"N</td><td>78°32'10.78"E</td></tr> <tr> <td>5</td><td>12°12'45.10"N</td><td>78°32'11.39"E</td></tr> </tbody> </table>	PILLAR ID	LATITUDE	LONGITUDE	1	12°12'47.77"N	78°32'10.56"E	2	12°12'45.39"N	78°32'9.46"E	3	12°12'44.59"N	78°32'10.15"E	4	12°12'45.38"N	78°32'10.78"E	5	12°12'45.10"N	78°32'11.39"E
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		<table> <tr> <td>6</td><td>12°12'42.9 6"N</td><td>78°32'11.3 5"E</td></tr> <tr> <td>7</td><td>12°12'40.9 8"N</td><td>78°32'10. 84"E</td></tr> <tr> <td>8</td><td>12°12'40.7 9"N</td><td>78°32'7.8 7"E</td></tr> <tr> <td>9</td><td>12°12'42.8 5"N</td><td>78°32'8.0 3"E</td></tr> <tr> <td>10</td><td>12°12'44.3 5"N</td><td>78°32'7.3 5"E</td></tr> <tr> <td>11</td><td>12°12'47.6 2"N</td><td>78°32'6.9 6"E</td></tr> <tr> <td>12</td><td>12°12'47.6 4"N</td><td>78°32'7.5 5"E</td></tr> </table>	6	12°12'42.9 6"N	78°32'11.3 5"E	7	12°12'40.9 8"N	78°32'10. 84"E	8	12°12'40.7 9"N	78°32'7.8 7"E	9	12°12'42.8 5"N	78°32'8.0 3"E	10	12°12'44.3 5"N	78°32'7.3 5"E	11	12°12'47.6 2"N	78°32'6.9 6"E	12	12°12'47.6 4"N	78°32'7.5 5"E
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12	12°12'47.6 4"N	78°32'7.5 5"E																					
9	Topo Sheet No.	57-L/12																					
10	Type of mining	Opencast Semi-Mechanized Mining																					
11	Period of quarrying proposed	5 years																					
12	Production (Quantity in m ³)	1,80,858m ³ of rough stone & 20,586m ³ of Top Soil																					
13	Depth of quarrying	35m BGL (3m Top Soil + 32m Rough Stone)																					
14	Depth of water table	Depth of Summer season = 55m Depth of Rainy season = 50m																					
15	Man Power requirement per day:	19 Nos.																					
16	Water requirement: 7. Drinking & domestic purposes 8. Dust suppression 9. Green Belt	3.15 KLD 0.65 KLD 1.0 KLD 1.5 KLD																					
17	Power requirement i. Domestic Purpose ii. Industrial Purpose	TNEB 1,48,118 Litres of HSD																					


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18	Precise area communication approved by the District Collector, with date	: Na.Ka.No.66/2016/Kanimam, dated 01.03.2016
19	Mining Plan approved by Assistant Director (Addl. Charge), Department of Geology and Mining with date	: Rc.No.505/2021/Mines, dated 26.04.2021
20	Assistant Director (Addl. Charge), Department of Geology and Mining 500m cluster letter	: Rc.No.505/2021/Mines dated 31.05.2021
21	VAO certificate regarding 300m radius cluster	: Letter dated: 02.06.2021
22	Project Cost (excluding EMP cost)	: Rs.56,60,000/-
23	EMP cost	: Capital Cost - Rs. 20,50,206 Recurring Cost - Rs. 13,31,250
24	CER cost	: Rs.5,00,000/-

Based on the above queries, the proposal was again placed in 350th SEAC meeting held on 02.02.2023. Based on the presentation made and documents submitted by the PP, including replied to the points raised by SEIAA, SEAC examined the proposal.

At that time, the EIA coordinator made a request that the proposal is eligible for 'automatic extension of EC' vide MoEF & CC OM File No. IA3-22/28/2022-IA.III [E 1815184], dated, 13.12.2023. The SEAC noted the following details furnished by the PP:

1. The Project Proponent was granted for a lease to quarry rough stone for a period of 10 years over an extent of 2.00.0 Ha of Government Land in S.F. 7/1 (Part) of Veppalampatti Village, Uthangarai Taluk, Kishnagiri District. The lease deed has been executed on 03.10.2016 and the lease period is valid upto 02.10.2026.
2. The PP had obtained the 'Prior Environmental Clearance' vide Lr. No. SEIAA-TN/F.No. 5321/1 (a)/EC No. 3457/2016, dated. 29.07.2016 for quarrying an approved quantity of 108567 cu.m Rough stone at a maximum depth of 33 m based on the Mining Plan approved by the competent authority, dated. 21.04.2016 in the Survey Number of 7/1 (Part) Government Poramboke Land), Veppalampatti Village, Uthangarai Taluk, Kishnagiri District with a validity coterminous with the mine lease period or limited to a maximum period of 5 years from the date of issue whichever is earlier.


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3. The Competent Authority informed vide his letter No. Rc.No. 505/2021/Mtnes, dated, 12.11.2021 stating that the PP has obtained the last bulk permit on 20.07.2021 with a validity of upto 08.08.2021. Hence It is evident that the quarry had stopped its operations before the expiry of the validity of the previous EC, i.e., 28.07.2021.
4. However, the validity of EC granted earlier due to expire on 28.07.2021 had been extended up to ~~27.07.2022~~ vide MoEF & CC OM : S.O. 221(E), dated, 18.01.2021 in view of the outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, implementation of projects or activities in the field which states that

"...the Central Government, hereby makes the following further amendments in the notification of Government of India, in the erstwhile Ministry of Environment and Forests, number S.O. 1533 (E), dated the 14th September, 2006, published in the Gazette of India, Extraordinary, Part-II, Section 3, Sub-section (ii), namely:-

*"... (ii) for paragraph 9A, the following paragraph shall be substituted namely:-
 "9A. Notwithstanding anything contained in this notification, the period from the 1st April, 2020 to the 31st March, 2021 shall not be considered for the purpose of calculation of the period of validity of Prior Environmental Clearances granted under the provisions of this notification in view of outbreak of Corona Virus (COVID-19) and subsequent lockdowns (total or partial) declared for its control, however, all activities undertaken during this period in respect of the Environmental Clearance granted shall be treated as valid.....".*

5. The PP has filed an application through online for obtaining the EC for operating the remaining five years of lease in the same S.F. No. 7/1(P) with not exceeding the total excavation quantity and annual peak production capacity on 11.06.2021.
6. Based on the presentation and request made by the PP, the committee had observed that the PP had filed the application for grant of EC before 12.04.2022 while both validity of the prior EC granted earlier and the lease period executed are subsisting as on 12.04.2022 for the same survey number of the proposed quarry site.
7. The PP had also submitted the Certified Copy of Compliance Report for the previous EC granted in 2016, which was issued by the MoEF & CC, IRO, Chennai vide No. E.P/12.1/2022-23/SEIAA/244/TN/145, dated, 01.02.2023.

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

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

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

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

Therefore, based on the above MoEF & CC Office Memorandum dated. 13.12.2022 and the presentations subsequently made by the PP, the SEAC decided to confirm the validity of the Environmental Clearance already issued stands automatically extended to the validity period of the project life as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, and subject to the terms and conditions stipulated under the provisions of EIA Notification 2006.

Further, as committed by the Project Proponent, the CER cost is Rs. 5 lakhs and the amount shall be spent to the committed activities for Panchayat Union Middle school, Veppalampatti Village before obtaining CTO from TNPCB.

Agenda No: 350-14

(File No: 8580/2022)

Proposed Black Granite quarry Lease over an extent of 6.20.0 Ha at S.F.No. 938 (part) Bit - 1 in Sidumanehalli Village, Pennagaram Taluk, Dharmapuri District, Tamil Nadu by Tvl. Perumal Granites - For Environmental Clearance (SIA/TN/MIN/402073/2022 dated 01.10.2022)

The proposal was placed in 350th meeting of SEAC held on 02.02.2023. The details of the project are available in the website (parivesh.nic.in).


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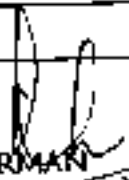

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The SEAC noted the following:

1. The project proponent, **Tvl. Perumal Granites** has applied for Environmental Clearance for the proposed **Black Granite** quarry Lease over an extent of **6.20.0 Ha** at **S.F.No. 938 (part) Bit - 1** in **Sidumanahalli Village, Pennagaram Taluk, Dharmapuri District, Tamil Nadu.**
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the proposal are as follows:

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	M/s. Perumal Granites No.653, Salem Main Road Kaveripattinam Post Krishnagiri District - 635 112.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Black Granite
3	S.F No. Of the quarry site with area break-up	938(Part) (Bit-1) (Govt Poramboke Land)
4	Village in which situated	Sidumanahalli
5	Taluk in which situated	Pennagaram
6	District in which situated	Dharmapuri
7	Extent of quarry (In ha.)	6.20.0ha
8	Latitude & Longitude of all corners of the quarry site	12°00'45.98"N to 12°00'53.34"N 77°50'24.44"E to 77°50'40.95"E
9	Topo Sheet No.	57 H/16
10	Type of mining	Opencast Mechanized Mining
11	Period of quarrying proposed	5 years
12	Production (Quantity in m ³)	RoM - 47,500 cu.m. Recovery (@ 7%) - 3325 cu.m & Granite waste (@93%) - 44,175 cu.m
13	Depth of mining	26m (AGL)
14	Depth of water table	54-59m
15	Man Power requirement per day:	30 Nos.


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16	Water requirement: 1. Drinking & domestic purposes 2. Dust suppression 3. Green Belt	4.5 KLD 1.0 KLD 2.5 KLD 1.0 KLD
17	Power requirement	76,000 Liters of HSD for the entire project life
18	Precise area communication approved by the Principal Secretary to Government with date	Lr.No.277/MME.2/2021-1/ Dated: 22.02.2021
20	Mining Plan approved by the Commissioner, Commissionerate of Geology and Mining with date	Rc. No. 6166/MM4/2020 Dated: 21.05.2021
21	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining with date	Roc.No.169/2020 (Mines) Dated: 07.06.2021
22	VAO certificate regarding habitations in 300m radius	Letter dated: 16.06.2021
23	Project Cost (excluding EMP)	Rs.12.34,00,000/-
24	EMP cost	Capital Cost: 36.43,617/- Recurring Cost: 5,30,76,775/-
25	ToR Issued details	Letter No. SEIAA-TN/F. No.8580/SEAC/ToR-1031/2021 Dated: 26.08.2021
26	Public Hearing Details	Public hearing conducted on: 07.07.2022
27	EIA Report Received	EIA received on: 10.11.2022

Based on the presentation made by the proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of RoM – 47,500 cu.m which includes Recovery (@ 7%) – 3325 cu.m & Granite waste (@93%) – 44,175 cu.m for ultimate depth of 26 m above ground level subject to the normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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


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2. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA,III dated: 30.09.2020 and 20.10.2020, the proponent shall adhere the EMP as committed.
3. As accepted by the Project Proponent the revised CER cost is Rs.15 lakhs and the amount shall be spent for the activities as committed towards 3 Government/ Panchayat Union Schools in the locality before obtaining CTO from TNPCB.
4. The proponent shall provide employment to the local public as requested in the Public Hearing.
5. The proponent shall mandatorily appoint the statutory Mines Manager and the Mining Engineer in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Granite Conservation & Development Rules, 1999 respectively.
6. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
7. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de silted and maintained properly.
8. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
9. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
10. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.


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11. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
12. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of Granite, waste, over burden, side burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, dump management, 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.
13. The Proponent shall ensure that the overburden, waste rock and non-saleable granite generated during prospecting or mining operations of the granite quarry shall be stored separately in properly formed dumps on grounds earmarked. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps. Such dumps shall be properly secured to prevent the escape of material in harmful quantities which may cause degradation of the surrounding land or silting of water courses.
14. 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.
15. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly. The report on the periodic monitoring shall be submitted to TNPCB once in 6 months.


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16. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
17. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix 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.
18. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
19. Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
20. The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarry as assured in the Environmental Management Plan & the approved Mine Closure Plan.
21. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
22. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should


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23. be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
24. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
25. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
26. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
27. The Project Proponent shall take all possible precautions for the protection of environment and control of pollution while carrying out the mining or processing of granite in the area for which such license or lease is granted.
28. 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.
29. 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.
30. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the Granite Conservation and Development Rules 1999, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works


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located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.

31. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
32. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the
33. Project Proponent liable for legal action in accordance with Environment and Mining Laws.
34. 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.
35. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
36. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. The Project Proponent shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines (IBM) from time to time.
37. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
38. 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.

Agenda No: 350-15

(File No: 8591/2022)

Proposed Rough Stone quarry lease over an extent of 1.70.5Ha at S.F.No. 248/8B, 248/9, 248/10A, 248/10B, 248/11, 248/12, 249/1, 249/2, 249/3A & 249/3B of K.Pudukottai Village, Dindigul West Taluk, Dindigul District, Tamil Nadu by TVL Premium Granites- For Environmental Clearance. (SIA/TN/MIN/403708/2022, dated: 19.10.2022)

The proposal was placed in this 350th meeting of SEAC held on 02.02.2023. The details of the project furnished by the proponent are given in the website (parivesh.nlc.in). The project proponent gave detailed presentation.

SEAC noted the following:

1. The project/activity is covered under Category "B1" of item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
2. As per the mining plan, the lease period is for 5 years. The production for 5 years not to exceed 2,89,604m³ of Rough stone and 1050 m³ of Topsoil. The annual peak production as per mining plan is 57921 m³ of rough stone per year with an ultimate depth of 39m (4m AGL + 35m BGL).
3. The proposed lease area was previously lease granted for three times. The first lease was District Collector Dindigul Proceedings vide Roc No.1501/1997 (Mines), dated 06.03.1998. The lease was executed from 06.03.1998 to 05.03.2003 for a period of 5years. second time lease was District Collector Dindigul Proceedings vide Roc No.237/2003 (Mines), dated 02 12 2003. The lease was executed from 01.03.2004 to 28.02.2009 for a period of 5years and Third time lease was District Collector Dindigul Proceedings vide Roc. No.153/2009(Mines), dated 12.06.2009. The lease was executed from 17.08.2009 to 16.08.2014 for a period of 5years in favour of Mr.R.Pandiyarajan.
4. There are two existing pit was noticed with an average pit dimension of Pit-1 is 812.55q m X D1m & Pit-2 is 3985qmXD3m.


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5. ToR issued vide Lr.No.SEIAA-TN/F.No.8591/SEAC/ToR-1027/2021 Dated: 26.08.2021.
6. Public hearing conducted on 18.08.2022.
7. EIA Report submitted on 12.10.2022.
8. The salient features of the proposed project as follows


Sl. No	Details of the Proposal	Date Furnished
1	Name of the Owner/Firm	: TVL Premium Granites Managing Partner, Mr.C.P.Abdul Raheem 395/8C-3, Thathankottai, Kothapullu village, Reddiyarchatram Taluk, Dindigul District - 624622
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone Quarry
3	S.F No. Of the quarry site with area break-up	: 248/8B, 248/9, 248/10A, 248/10B, 248/11, 248/12, 249/1, 249/2, 249/3A & 249/3B
4	Village in which situated	: K.Pudukottai
5	Taluk in which situated	: Dindigul West
6	District in which situated	: Dindigul
7	Extent of quarry (in ha.)	: 1.70.50Ha
8	Period of quarrying proposed	: 5 years
9	Type of mining	: Opencast Semi-Mechanized Mining Method
10	Production (Quantity in m ³)	: 2,89,604m ³ Rough Stone, & 1050m ³ of Topsoil.
11	Annual peak Production (Quantity in m ³)	: 57921 m ³ of Rough stone (4 th year)
12	Existing Pit dimension	: Pit I - 812.5 Sq.m(Area)X 1m(D)


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		Pir II -398 Sq.m(Area)X 3m(D)
13	Proposed depth of mining	39m (4m AGL + 35m BGL)
14	Depth of water table	: 50m – 55m below ground level
15	Latitude & Longitude of all corners of the quarry site	: 10°27'1.48" N to 10°27'6.33"N 77°51'36.02"E to 77°51'42.14"E
16	Top Sheet No.	: 58- F/15
17	Man Power requirement per day:	27 Nos
18	Precise area communication approved by the Assistant Director and Department of Geology and Mining with date	: Na.Ka.No.14/2021(Kanmam), dated: 12.02.2021.
19	Mining Plan approved by the Assistant Director and Department of Geology and Mining with date	: Rc.No.14/2021 (Mines), dated: 19.02.2021.
20	Water requirement:	: 5.3 KLD
	10. Drinking & domestic purposes (In KLD)	1.180 KLD
	11. Dust suppression , Green Belt &Wet Drilling (In KLD)	1.620 KLD
		1.0 KLD
		1.5
21	Power requirement	
	k. Domestic Purpose	TNEB
22	Project Cost	: Rs.43,54,900/-
23	EMP cost	: Capital Cost : 35,35,763/- Recurring Cost/annum : 51,87,200/-
24	CER cost	Rs.5 Lakhs as accepted by the PP
25	AD mines 500m cluster letter	Rc.No.14/2021 (Mines), dated: 29.04.2021.


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26	VAO certificate regarding 300m radius cluster	Letter dated: 07.05.2021
27	ToR issued	Lr.No.SEIAATN/F.No.8591/SEAC/ToR-1027/2021 Dated: 26.08.2021
28	Public hearing	18.08.2022
29	EIA Report submitted on	12.10.2022

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 2,89,604m³ of Rough stone and 1050 m³ of Topsoil for not exceeding a depth of 39m (4m AGL + 35m BGL) but however not exceeding an annual peak production capacity - 73560 m³ of Rough stone (4th year), subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by Competent Authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The Project Proponent (PP) shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region before obtaining the CTO and get the necessary statutory permission under the MMR 1961 pertaining to the quarry working operations.
4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy.
5. 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 as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.

6. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in all the quarries of this cluster site collectively if amalgamation is done and when the depth of the working touches 30 m (or) within the two years from the commencement of quarrying operations whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IIT-Chennai, NIT-Dept of Mining Engineering, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
7. Due to cluster situation, the PP shall carry out the controlled blasting using jack hammer drilled shallow holes (32-34 mm dia& 1.5 m length) only and NONEL shock tube initiation system with muffling techniques to ensure that no flyrock / throw travels beyond 10 m from the blasting.
8. The PP shall carry out the 'Line drilling' operations in every blast such that the shock wave produced from the blast site does not travel beyond 100 m towards the direction of the habitations located at a distance of 360 m.
9. No 'Deep-hole large diameter drilling and blasting' is carried out in the proposed quarry.
10. The PP shall carry out the blasting operation twice in a week such that the blasting frequency is limited to the extent for ensuring the control of blast-induced environmental impacts and adopt all necessary precautionary measures in accordance with the provisions of MMR 1961 during the time of blasting.
11. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the cluster mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as


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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.

12. 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.
13. The Project Proponent shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
14. Since the quarry lies in a cluster situation, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB while considering the adjacent quarries lies in a radial distance of 500 m from their quarry.
15. 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.
16. 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.
17. 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.
18. 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.


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19. 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.
20. Within one year from the commencement of quarrying operations, the PP shall carry out a cumulative hydrogeological study considering the cluster of the mines operating in the area to evaluate the impact of cluster quarrying operations on the surrounding water bodies by involving any of these reputed Research and Academic institutions - Central Institute of Mining and Fuel Research (CIMFR) - Dhanbad / Nagpur, NIRM, IIT-Madras, NIT- Dept of Mining Engg. Surathkal, NIT Trichy, University of Madras-Guindy Campus, Anna University - Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the AD (Geology & Mines), the concerned DEE/TNPCC, IRO/MoEF, Chennai and the SEIAA-TN, Chennai.
21. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
22. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
23. As per the MoEF & CC Office Memorandum F.No. 22-65/2017-IA, III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
24. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Government Higher Secondary School, K.Pudukottai Village as committed, before obtaining CTO from TNPCC.

Agenda No: 350-16

(File No: 8605/2022)

Proposed Rough Stone & gravel quarry lease over an extent of 2.83.0 Ha at S.F.Nos. 1B/1A(Part), Anjankattalai Village, Alangulam Taluk, Tenkasi District, Tamil Nadu by Thiru.S.Nizar Ahammed -For Environmental Clearance (SIA/TN/MIN/216013/2021 dated: 02.07.2021)

The proposal was placed in this 350th meeting of SEAC held on 02.02.2023. The


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

The SEAC noted the following:

1. The proposed quarry/activity is covered under Category "B2" of Item I(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
2. This area was earlier quarried for Rough Stone, Jelly and Gravel by Thiru.A.Ganapathy over an extent of 2.83.0 Ha at S.F.Nos. 18/1A(Part) of Anjankattalai Village, Alangulam Taluk, Tenkasi District, Tamil Nadu vide Tirunelveli District Collector Proceedings No.M1/77640/2011 dated: 19.11.2011 for the period of five years from 19.11.2011 to 18.11.2016.
3. The salient features of the proposed project as follows:

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru.S.Nizar Ahammed Mottavila House Thalachira Post Kottarakkara Kerala-691538.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone & Gravel
3	S.F No. Of the quarry site with area break-up	18/1A(Part)
4	Village in which situated	Anjankattalai
5	Taluk in which situated	Alangulam
6	District in which situated	Tenkasi
7	Extent of quarry (In ha.)	2.83.0 Ha
8	Period of quarrying proposed	5 years
9	Type of mining	Opencast Semi-Mechanized Mining Method
10	Production (Quantity in m ³)	4,09,190m ³ Rough Stone, & 99,965 m ³ of Gravel
11	Annual peak Production (Quantity in m ³)	83,600 cu.m of rough stone (2 nd Year) & 39,615 cu.m of Gravel (1 st year).
11	Existing pit depth	8m BGL
12	Ultimate Depth of quarrying	35 m BGL
13	Depth of water table	55-60m below ground level
14	Latitude & Longitude of all corners of the quarry site	08°47'39.65" N to 08°47'46.50"N 77°27'22.10"E to 77°27'29.00"E

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15	Top Sheet No.	: 58- H/5
16	Man Power requirement per day:	14 Nos.
17	Precise area communication approved by the District Collector and Department of Geology and Mining with date	: Rc.No.M1/23441/2017, Dated: 04.02.2021.
18	Mining Plan approved by the Joint Director / Assistant Director (I/c) & G&M with date	: Rc.No.M1/23441/2017, Dated: 07.04.2021.
19	AD mines 500m cluster letter Approved by Joint Director / Assistant Director (I/c) & G&M	: Rc.No.M1/23441/2017, Dated: 07.04.2021.
20	VAO certificate regarding 300m radius cluster	: Letter dated: 02.03.2021
21	Water requirement: 12. Drinking & domestic purposes (in KLD) 13. Dust suppression(in KLD) 14. Afforestation for trees (in KLD)	: 2.5 KLD 0.5 KLD 1.0 KLD 1.0 KLD
22	Power requirement I. Domestic Purpose	: TNEB -
23	Project Cost	: Rs.1,24,52,325/-
24	EMP cost	: Capital Cost : Rs.22.04 Lakhs Recurring Cost/annum : Rs.22.51 Lakhs
25	CER cost	: Rs.5 Lakhs as accepted by the PP

4. Earlier, this proposal was placed in the 323rd meeting of SEAC held on 20.10.2022.

Based on the presentation and document furnished by the project proponent, SEAC noted that the quarry was earlier operated by the lessee of the PP and for the violation noticed penalty was paid by PP. The SEAC, therefore, decided the PP should disclose details of the past history of the quarry.

5. Subsequently, this proposal was placed in the 568th meeting of SEAC held on 09.11.2022. After detailed discussion, the Authority decided to obtain the following details from the PP in addition to the above.

- The Impacts of mining on Agriculture and vegetation around the mining area shall be studied.
- The PP shall carry out a study on Biodiversity in the proposed mining area.
- The PP shall furnish details of soil erosion management and soil


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conservation plan.

- iv. Impacts of mining on the water table in the proposed mining area shall be studied

Now, the proposal was placed in this 350th meeting of SEAC held on 02.02.2023. The Project proponent made a presentation along with the clarifications for the above shortcomings observed by the SEAC & SEIAA.

SL No	SEAC Query	Reply Furnished by the PP
1.	The quarry was earlier operated by the lessee of the PP and for the violation noticed penalty was paid by PP. The SEAC, therefore, decided the PP should disclose details of the past history of the quarry	<p>It is my own land. Earlier I had leased it to Thiru A.Ganapathy and he had carried out mining vide the Tirunelveli District Collector Proceedings No M1/77640/2011, dated 19.11.2011 for the period of 5 years from 19.11.2011 to 18.11.2016.</p> <p>Quarrying in this lease was not carried out by me earlier. However, subsequently when I intended to carry out mining on my own and applied for LOI, as desired by AD, mines a sum of Rs. 91,048/- remitted towards (Cost of mineral Rs.55, 900/-, Seigniorage fee Rs. 10,148/- and Penalty 25,000/-) in SBI Paliyamkottai Branch on 13.12.2018 vide Challan No 91 & 87.</p>


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		Letter from AD mines stating these details is already submitted to authority wherein the following is mentioned,			
		Transport Permit issued	Dump in site	Remove as per pit measurements	Difference
		13110 cbm	11713 cbm	24995 cbm	172cbm A sum of Rs.91,048/- remitted towards (Cost of mineral – Rs.55,900/- , Seigniorage fee Rs.10,148/- and penalty – 25,000/-) in SBI Palayamkottai Branch on 13.12.2018 vide Challan No . 91687

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 4,09,190m³ Rough Stone. & 99,965 m³ of Gravel but however not exceeding an annual peak production capacity - 83,600 cu.m of rough stone (2nd Year) & 39,615 cu.m of Gravel (1st year) with an ultimate depth of 35 m BGL, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC. In addition to the following specific conditions:

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


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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 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall use the material available in the section CC' – DD' of the 'Production and Development Plan' exclusively for constructing an accessible ramp to the proposed quarrying operations.
7. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
8. The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no-fly rock shall travel beyond 20 m from the site of blasting. The PP

shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.

9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry without a prior permission obtained from the Director of Mines Safety, Chennai Region.
10. Since few habitations are situated at a distance range of 500 m to 700 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Blast parameters for reducing the impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarry by adopting appropriate controlled blasting techniques', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
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 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.
13. 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.
14. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 35 m (or) after the completion of 3 years of operation whichever is earlier, by involving a reputed Research and Academic Institution such as


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CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DCM and DMS, Chennai as a part of Environmental Compliance without any deviation.

15. Since the quarry site lies in close proximity to the habitations & roads, the PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
16. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry.
17. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
18. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
19. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
20. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
21. As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the Government High School, Nalankarttal Village as committed, before obtaining CTO from TNPCB.

Agenda No: 350-17

(File No: 8616/2021)

Proposed Rough stone & Gravel quarry lease over an extent of 2.66.0 Ha in, SF. Nos. 63/1, 64/1A, 64/3A & 64/5A of Kavundampalayam Village, Gobichettipalayam Taluk, Erode District, Tamil Nadu by Thiru.S.Kandasamy - For Environmental Clearance. (SIA/TN/MIN/ 404467/2022, Dt: 28.10.2022).

The proposal was placed in 350th SEAC meeting held on 02.02.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.S.Kandasamy has applied for Environmental Clearance for the proposed Rough stone & Gravel quarry lease over an extent of 2.66.0 Ha in S. F. Nos. 63/1, 64/1A, 64/3A & 64/5A of Kavundampalayam Village, Gobichettipalayam Taluk, Erode District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 2.83.295m³ of rough stone and 25.380m³ of Gravel with an ultimate depth of mining is 40m (2m Gravel + 38m Rough Stone). The annual peak production is 63045m³ of Rough Stone (4th year) and 12,150m³ of Gravel (1st year).
4. ToR issued vide Lr.No.SEIAA-TN/F.No.8616/SEAC/ToR-1025/2021 dated 26.08.2021.
5. Public hearing conducted on 28.07.2022.

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru.S.Kandasamy S/o.K.R.Subramaniam No.12/1, Kamaraj Street Chinna Kodiveri Gobichettipalayam Erode District-638503
2	Type of quarrying	Rough stone & Gravel
3	S.F No. Of the quarry site with area break-up	63/1, 64/1A, 64/3A & 64/5A
4	Village in which situated	Kavundampalayam
5	Taluk in which situated	Gobichettipalayam

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6	District in which situated	Erode
7	Extent of quarry (in ha.)	2.66.0Ha
8	Period of quarrying proposed	5 years
9	Type of mining	Opencast Mechanized Mining
10	Production (Quantity in m ³)	As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 2,83,295m ³ of Rough stone and 25,380m ³ of Gravel with an ultimate depth of mining 40m (2m Gravel + 38m Rough Stone). The annual peak production is 63045m ³ of Rough Stone (4 th year) and 12,150m ³ of Gravel (1 st year).
11	Latitude & Longitude of all corners of the quarry site	11°31'05.96" N to 11°31'05.96" N 77°22'17.19"E to 77°22'24.38"E
12	Top Sheet No.	58 E/06
13	Man Power requirement per day:	36 Nos.
14	Precise area communication approved by the Assistant Director, Department of Geology & Mining, with date	Na.Ka.No.18122/2019/X-1 dated: 07.05.2021
15	Mining Plan approved by the Assistant Director, Department of Geology and Mining, Erode with date	Rc.No.18122/2018/X-1 dated: 31.05.2021
16	AD mines 500m cluster letter approved by the Assistant Director, Department of Geology & Mining, with date	Rc. No.18122/2018/X-1 dated: 02.06.2021
17	Water requirement: 1. Drinking & domestic purposes 2. Dust suppression 3. Green Belt (in KLD)	3.0 KLD 1.0 KLD 1.5 KLD 0.5 KLD
18	Power requirement a. Domestic Purpose b. Industrial purpose	TNEB 2,48,180 Liters of HSD for the entire period of life.
19	Depth of quarrying	40m (2m Gravel + 38m Rough Stone)
20	Depth of water table	70m in summer season -65 in rainy season
21	Whether any habitation within 300m distance	No
22	Project Cost	Rs. 60.11Lakhs
23	EMP cost	Rs. 341.42 Lakhs

24	CER cost	Nil
25	VAO certificate regarding 300m habitation within 300m	Letter dated: 01.06.2021
26	ToR issued	ToR issued vide Lt.No.SEIAA-TN/F.No.8616/SEAC/ToR-1025/2021 dated 26.08.2021.
27	Public Hearing Details	Public hearing conducted on Dated: 28.07.2022.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 2,83,295m³ of Rough Stone and 25,390m³ of gravel not exceeding the annual peak production of 63045m³ of Rough Stone and 12,150m³ of Gravel with maintaining an ultimate pit depth of 40m bgl subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC. In addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The Project Proponent (PP) shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region before obtaining the CTO and get the necessary statutory permission under the MMR 1961 pertaining to the quarry working operations.
4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy (or) Salem.


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5. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
6. 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.
7. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
8. Further, the PP shall construct the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
9. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
10. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall within 2 years from the commencement of quarrying operation, by involving any of one of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
11. As a part of EC Compliance, the PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of

the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.

12. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
13. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
14. The PP shall furnish a Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB while considering the adjacent quarries lies in a radial distance of 500 m from their quarry.
15. 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.
16. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
17. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
18. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
19. The PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to


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impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras -Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.

20. 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.
21. 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.
22. 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.
23. As the project site is located within 10 km from the Sathyamangalam Tiger Reserve, the Project proponent shall remit Rs. 6 lakhs to DFO, Erode and the amount shall be spent for doing conservation activities in the Sathyamangalam Tiger Reserve before obtaining CTO from TNPCB.

Agenda No. 350-18

(File No: 8617/2022)

Proposed Rough stone quarry lease over an extent of 3.30.0 Ha at S. F. No. 964 Pt, Sanamevu Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by M/s S. V Minerals for Environmental Clearance (SIA/TN/MIN/217847/2021)

The project proposal was placed for appraisal in this 350th SEAC meeting held on 3.2.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal(parivesh.nic.in).

The Committee noted that.


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1. The Project Proponent, M/s S. V Minerals has applied seeking Environmental Clearance for the proposed Rough stone quarry lease over an extent of 3.30.0 Ha at S. F. No. 964 Pt, Sanamavu Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu. It is Govt Poramboke land
2. The project/activity is covered under Category "B2" of Item I(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. Lease period is 10 years & mining plan period is prepared with the production & development period of first 5 years.

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	M/s. SV Minerals Thiru. R. Sambangi, S/o. Rasappa, Sanamavu Village, Shoolagiri Taluk, Krishnagiri District. & Thiru. G. Venu, S/o. Gurappa, Thorappalli Agraharam Village, Hosur Taluk, Krishnagiri District - 635 119.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone
3	S.F No. of the quarry site with area break-up	964 (Part)
4	Village in which situated	Sanamavu
5	Taluk in which situated	Shoolagiri
6	District in which situated	Krishnagiri
7	Extent of quarry (in ha.)	3.30.0 Ha
8	Period of quarrying proposed	5 years
9	Type of mining	Opencast Semi-Mechanized Mining
10	Production (Quantity in m ³)	497265 m ³ of Rough Stone
11	Latitude & Longitude of all corners of the quarry site	12°39'44.14"N to 12°39'50.81"N 77°53'53.92"E to 77°53'58.16"E

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12	Topo Sheet No.	: 57-H/14
13	Man Power requirement per day:	: 18 Nos
14	Precise area communication approved by District Collector with date	: Na.Ka.En.234/2019/Kanimam, dated:13.06.2019
15	Mining Plan approved by Deputy Director, Department of Geology and Mining with date	: Roc.No.234/2019/Mines, dated:03.07.2019
16	Water requirement:	: 4.0 KLD
	15. Drinking water & domestic purposes (in KLD)	: 1.0 KLD
	16. Dust Suppression (in KLD)	: 1.5 KLD
	17. Green Belt (in KLD)	: 1.5 KLD
17	Power requirement	: TNEB
	m. Domestic Purpose	: 5.69.776 Litres of HSD
	n. Industrial Purpose	
18	Depth of quarrying	: 46m (BGL)
19	Depth of water table	: 60m bgl
20	Whether any habitation within 300m distance	: No
21	Project Cost (excluding EMP cost)	: Rs. 1.75.00.000/-
22	EMP cost	: Capital Cost – Rs.20,87,000/ Yr Recurring Cost – Rs.11.64,000/ Yr (for 5 years – Rs.71,03,985/-
23	CER cost	: Rs. 5.00.000/-
24	Assistant Director, mines 500m cluster letter	: Roc.No.234/2019/Mines, dated:24.04.2021
25	VAO certificate regarding 300m radius cluster	: Letter furnished

4. As per the recommendations of SEAC, the bench geometry has been modified to 5 m height with 5 m width in accordance with the provisions of MMR 1961 and accordingly, the PP had agreed to carry out the total excavation of 523435 cu.m

for a period of 5 years with maintaining the annual peak total excavation capacity of 125625 cu. m as given below.

As per Approved Mining Plan the depth of bench is 7m and as per SEAC recommendations the depth of bench is reduced to 5m the Revised Yearwise Development and Production Reserves is given below.

Yearwise Development and Production Reserves as per Approved Mining plan										Revised Yearwise Development and Production Reserves									
YEAR	Section	Bench	L (m)	W (m)	C (m)	Volume in m ³	Excavation Reserve in m ³ @ 95%	Waste volume in m ³ @ 5%	Top Soil in m ³	Bench	L (m)	W (m)	C (m)	Volume in m ³	Excavation Reserve in m ³ @ 95%	Waste volume in m ³ @ 5%	Top Soil in m ³		
I YEAR	IX - AD	I	88	180	-	-	-	-	12512	I	88	180	-	-	-	-	-	12512	
		II	12	48	7	15456	14681	771	-	II	12	48	7	5180	4976	254	-		
		III	-	-	-	-	-	-	-	III	67	81	5	47640	45470	2170	-		
	IX - CD	IV	27	81	7	37827	36036	1791	7417	IV	27	81	5	25212	23944	1268	7417		
		III	77	81	7	56570	53938	2631	-	III	67	81	5	37815	36226	1589	-		
TOTAL						133653	128255	4755	24949	TOTAL						125265	119003	5262	24949
II YEAR	IX - AD	IV	88	180	7	115584	110604	5974	-	IV	88	180	5	83110	79480	3630	-		
		III	-	-	-	-	-	-	-	III	67	81	5	37815	36226	1589	-		
		II	-	-	-	-	-	-	-	II	12	48	7	5180	4976	254	-		
	IX - CD	IV	27	81	7	37827	36036	1791	-	IV	27	81	5	25212	23944	1268	-		
		III	77	81	7	56570	53938	2631	-	III	67	81	5	37815	36226	1589	-		
TOTAL						153401	146640	5770	-	TOTAL						120700	114670	6033	-
III YEAR	IX - AD	IV	88	180	7	137856	131971	6814	-	IV	88	180	5	74620	70880	3731	-		
		III	-	-	-	-	-	-	-	III	67	81	5	37815	36226	1589	-		
		II	-	-	-	-	-	-	-	II	12	48	7	5180	4976	254	-		
	IX - CD	IV	27	81	7	37827	36036	1791	-	IV	27	81	5	25212	23944	1268	-		
		III	77	81	7	56570	53938	2631	-	III	67	81	5	37815	36226	1589	-		
TOTAL						151172	144613	7504	-	TOTAL						105930	100674	5286	-
IV YEAR	IX - AD	IV	88	180	7	145872	139824	5963	-	IV	88	180	5	83110	79480	3630	-		
		III	-	-	-	-	-	-	-	III	67	81	5	37815	36226	1589	-		
		II	-	-	-	-	-	-	-	II	12	48	7	5180	4976	254	-		
	IX - CD	IV	27	81	7	37827	36036	1791	-	IV	27	81	5	25212	23944	1268	-		
		III	77	81	7	56570	53938	2631	-	III	67	81	5	37815	36226	1589	-		
TOTAL						131772	125427	6585	-	TOTAL						92150	87547	4408	-
V YEAR	IX - AD	IV	88	180	7	141648	135840	5804	-	IV	88	180	5	80420	76880	3560	-		
		III	-	-	-	-	-	-	-	III	67	81	5	37815	36226	1589	-		
		II	-	-	-	-	-	-	-	II	12	48	7	5180	4976	254	-		
	IX - CD	IV	27	81	7	37827	36036	1791	-	IV	27	81	5	25212	23944	1268	-		
		III	77	81	7	56570	53938	2631	-	III	67	81	5	37815	36226	1589	-		
TOTAL						110645	106812	4562	-	TOTAL						79980	75481	3999	-
GRAND TOTAL										GRAND TOTAL									
744226										523855									
707016										497265									
37230										24770									
24949										24949									

Based on the presentation made and the documents furnished by the Project proponent, the SEAC considering the safety point of view the bench height shall be revised to 5m, accordingly decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 497265 m³ of Rough stone with an ultimate depth of 46m BGL. The annual peak production as per mining plan is 119003 m³ of Rough stone (1st year) subject to the standard conditions & normal conditions stipulated by MoEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by 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 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.

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ii.

1. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
2. The PP shall ensure that the benches shall be constructed from top to downwards while working above ground with proper haul road accessibility in accordance with the provisions of MMR 1991.
5. The Project Proponent (PP) shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region before obtaining the CTO and get the necessary statutory permission under the MMR 1961 pertaining to the quarry working operations.
6. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Salem (or) Trichy.
7. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.
5. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry within the three years from the commencement of quarrying 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.
6. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry without the prior permission of the Director of Mines Safety, Chennai Region.


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7. 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.
8. 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.
9. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry.
10. Since few habitations are situated at a distance range of 340 m to 400 m from the mine lease boundary, within one year from the commencement of mining operations, the PP shall carry out the scientific studies on 'Design of Suitable blast parameters for reducing the cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarries in the cluster by adopting appropriate controlled blasting techniques', by involving 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.
11. The PP shall furnish a 'Standard Operating Procedure for carrying out the safe method of carrying out the blasting operation in the cluster situation' by involving all the other operating quarries to the concerned DEE/TNPCB before obtaining the CTO from the TNPCB.
12. The PP shall meticulously carry out the mitigation measures as spell out in the revised EMP.
13. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be


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

Agenda No. 350 - 19

(File No. 8618/2021)

Proposed of Rough Stone Quarry lease over an extent of 3.96.5Ha Patta Land in S.F.No.738 Panchakshipuram Village, Hosur Taluk, Krishnagiri District, Tamilnadu by Thiru.S.G.Anand Kumar - for Environmental Clearance. (SIA/TN/MIN/405426/2022, dt.05.11.2022)

The proposal was placed in 350th SEAC meeting held on 02.02.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:


1. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
2. The ToR was Issued vide No. SEIAA-TN/F. No. 8618/SEAC/ToR- 1024/2021 Dated: 26.08. 2021.to Thiru.S.G.Anand Kumar for the Proposed of Rough Stone Quarry lease over an extent of 3.96.5Ha Patta Land in S.F.No.738 Panchakshipuram Village, Hosur Taluk, Krishnagiri District, Tamilnadu.


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3. Minutes of public hearing conducted on 18.05.2022
4. Final EIA report submitted on 14.10.2022
5. Now, the Project Proponent, Thiru.S.G.Anand Kumar has applied for Environmental Clearance with EIA report along with minutes of public hearing for the Proposed of Rough Stone Quarry lease over an extent of 3.96.5Ha Patta Land in S.F.No.738 Panchakshipuram Village, Hosur Taluk, Krishnagiri District, Tamilnadu.
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 591425 cu.m of rough stone & 63040 cu.m of Topsoil and the annual peak production shall not exceed 1,46,950 m³ of rough stone (2nd Year). The ultimate depth is 32m (11m AGL + 21m BGL).
7. 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.G. Anand Kumar S/o Gowdappa No 45/70KA 4 th Cross, Indra Nagar, Hosur Town & Taluk, Krishnagiri
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Rough Stone
3	S.F No. Of the quarry site with area break-up	:	738
4	Village in which situated	:	Panchakshipuram
5	Taluk in which situated	:	Hosur
6	District in which situated	:	Krishnagiri
7	Extent of quarry (in ha.)	:	3.96.5Ha
8	Latitude & Longitude of all corners of the quarry site	:	12°35'58.20" N to 12°35'50.65" N 77°47'40.76"E to 77°47'34.24"E
9	Topo Sheet No.	:	57- H/14
10	Type of mining	:	Opencast Semi-Mechanized of Mining


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11	Period of quarrying proposed	: 5 years
12	Production (Quantity in m ³)	: 591425 cu.m of rough stone & 63040 cu.m of Topsoil and the annual peak production shall not exceed 1,46,950 m ³ of rough stone (2 nd Year)
13	Depth of quarrying	: 32m (11m AGL + 21m BGL)
14	Depth of water table	: 60m - 44m
15	Man Power requirement per day:	15 Nos.
16	Source of Water Requirement	Water Vendors and Existing borewell
17	Water requirement: 18. Drinking & domestic purposes (in KLD) 11. Dust suppression, Green Belt & Wet Drilling (In KLD)	: 1.0 KLD 1.5 KLD 1.5 KLD
18	Power requirement	TNEB
19	Whether any habitation within 300m distance	: No
20	Precise area communication approved by the Assistant Director, G&M with date	: Rc.No.1077/2018/Mines, dated: 24.02.2021.
21	Mining Plan approved by Assistant Director (Addl. Charge), Department of Geology and Mining with date	: Rc.No.1077/2018/Mines, dated: 03.03.2021.
22	Assistant Director(Addl Charge), mines 500m cluster letter	Rc.No.1077/2018/Mines, dated: 03.03.2021.
23	VAO certificate regarding 300m radius cluster	Letter dated: 18.06.2021
24	Project Cost (excluding EMP cost)	: Rs.38.30 Lakhs
25	EMP cost	: EMP Cost - Rs. 2.08 Crores /10 Years including capital & recurring cost with 5% inflation cost anticipated every year.
26	CER cost	Rs. 10 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the ultimate depth of mining upto 32m (11m AGL + 21m BGL) and the quantity of 591425


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cu.m of rough stone & 63040 cu.m of Topsoil and the annual peak production shall not exceed 1,46,950 m³ of rough stone (2nd Year) subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF & CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall ensure that the benches shall be constructed from top to downwards while working above ground with proper haul road accessibility in accordance with the provisions of MMR 1991.
4. The Project Proponent (PP) shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region before obtaining the CTO and get the necessary statutory permission under the MMR 1961 pertaining to the quarry working operations.
5. The PP shall ensure that all the statutory competent persons and non-statutory workmen have undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Salem (or) Trichy before obtaining the CTO.
6. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m. before obtaining CTO from TNPCB.
7. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry within the three years from the commencement of quarrying operations, by involving a reputed Research and


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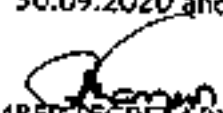

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Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.

8. The proponent shall create a separate bank account and shall deposit the cost allocated for the committed EMP activities every year and the said expenditure details spent on the committed EMP activities shall be maintained & periodically submitted to TNPCB.
9. Since the habitations are located at a distance of 840 m and few houses are located sparsely within 400 m to 600 m range from the lease boundary, 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 any of these reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without deviation.
10. 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.
11. 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 2 years of operation whichever is earlier, by involving any of these reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy

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

12. 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.
13. 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.
14. The PP shall use the Jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
15. The PP shall ensure that the blasting operations are carried out by only the statutory persons like Blaster/Mine Mate/Mine Foreman directly employed by him as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
16. The PP shall ensure that adequate measures are taken to control the propagation of dust at the source level along the haulroads leading to the highways & village panchayat roads where the trucks are plying with loaded material.
17. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
18. The PP shall undertake suitable measures for the socio-economic development in the villages situated around the quarry.
19. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
20. As per the MoEF & CC Office Memorandum F.No. 22-65/2017-IA, III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.


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21. As accepted by the Project proponent the CER cost is Rs. 10 lakhs and the amount shall be spent for the Govt. Higher Secondary School, Machinayakanpalli Village, Hosur Taluk, Krishnagiri District as committed, before obtaining CTO from TNPCB.

Agenda No: 350 - 20

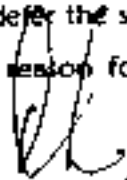
(File No: 8621/2021)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.16.0Ha at S.F.Nos. 173/1(Part-2) at Pattakurubarapalli Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru. K. Srinivasa - For Environmental Clearance.(SIA/TN/MIN/217612/2021, dated: 01.07.2021)

The proposal was placed for appraisal in this 240th meeting of SEAC held on 02.11.2021. The details of the project furnished by the proponent are available on the website (parivesh.nic.in).The project proponent made a detailed presentation. The SEAC noted the following:

1. The project proponent, Thiru. K. Srinivasa has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 1.16.0Ha at S.F.Nos. 173/1(Part-2) at Pattakurubarapalli Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The production for the five years states that the total quantity of 95% of recoverable as 29,346 cu.m of rough stone& and the ultimate depth of mining is 27m below ground level.
4. Based on the presentation and documents furnished by the project proponent, SEAC noted that approved mine plan issued Dt: 29.04.2016 for the period of 5 years was expired on 28.04.2021.Hence, SEAC after the detailed deliberation has directed the proponent to furnish the revalidated mining plan from AD/DD of Dept. of Geology & Mining, Krishnagiri District.
5. The proposal was placed in the 338th meeting of SEAC held on 14.12.2022. The project proponent was absent for the meeting. SEAC decided to defer the subject to a later date directing the project proponent to furnish the reason for not attending the meeting.


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

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru.K.Srinivasa S/o.Mr.Krishnappa Thasanpuram Mayachandra Post Anekkal Taluk Bangalore-562107
2	Type of quarrying	Rough stone
3	S.F No. of the quarry site	173/1(Part - 2)
4	Village in which situated	Pattakurubarapalli
5	Taluk in which situated	Hosur
6	District in which situated	Krishnagiri
7	Extent of quarry (in ha.)	1.16.0 Ha
8	Latitude & Longitude of all corners of the quarry site	12°43'38.48" N to 12°43'31.41" N 78°01'5.81" E to 78°01'59.01" E
9	Topo Sheet No.	57-L/I
10	Type of mining	Opencast Semi-Mechanized Mining
11	Period of quarrying proposed	5 years
12	Production (Quantity in m³)	29,346m³
13	Depth of quarrying	27m
14	Depth of water table	Depth of Summer season = 50m Depth of Rainy season = 45m
15	Man Power requirement per day:	18 Nos.
16	Water requirement: 19. Drinking & domestic purposes 20. Dust suppression 21. Green Belt	2.9 KLD 0.9 KLD 1.0 KLD 1.0 KLD
17	Power requirement a. Domestic Purpose b. Industrial Purpose	TNEB 6517 Litres HSD / day
18	Precise area communication approved by the District Collector, with date	Rc.No.91/2018/Kanlmam, Dated 01.03.2016
19	Mining Plan approved by Assistant Director (Addl. Charge).	Rc.No.91/2016/Mines-I, Dated 29.04.2016

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	Department of Geology and Mining with date		
20	Assistant Director (Addl. Charge), Department of Geology and Mining 500m cluster letter		Rc.No.91/2016/Mines, Dated 04.06.2021
21	VAO certificate regarding 300m radius cluster		Letter dated: 12.06.2021
22	Project Cost (excluding EMP cost)	:	Rs. 36,60,000/-
23	EMP cost	:	Capital Cost - Rs. 26,99,999 Recurring Cost - Rs. 27,82,470
24	CER cost		Rs. 5,00,000


Based on the above, the proposal was again placed in 350th SEAC meeting held on 02.02.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 29,346 m³ of Rough Stone for not exceeding a depth of 27 m but however not exceeding an annual peak production capacity - 8,208 m³ of Rough stone with an ultimate depth of 27m BGL (2m - Top Soil, 25m - 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 No. S.O. 1807(E) Dt 12.4.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The Project Proponent (PP) shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region before obtaining the CTO and get the necessary statutory permission under the MMR 1961 pertaining to the quarry working operations.


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4. The PP shall ensure that all the statutory competent persons and non-statutory workmen have undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Salem (or) Trichy before obtaining the CTO.
5. 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 and a thick fencing shall made along the boundary of the proposed quarry directed towards the R.F.
6. The PP shall ensure that the dense vegetation by involving the plantation in two rows is made along the boundary of the proposed quarry directing towards the reserved forest located at a distance of 300 m before obtaining the CTO.
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 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 maintain proper benching & sloping for the gravel formation separately with adequate width of not less than 2 m during the quarrying operations.
9. The PP shall carry out the shallow depth Jack hammer drilling (of 32-34 mm dia & 1.5 m depth) & NONEL initiation based 'controlled' blasting operation involving muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled within the permissible limits as stipulated by the DGMS as well as no fly rock travel beyond 10 m from the blast site.
10. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed directly by him as per the provisions of MMR 1961.
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.


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12. Within six months from the commencement of quarrying operations, the PP shall carry out the scientific studies on design of controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock in the proposed quarry considering the Reserved Forest and Temple located in the surroundings, by involving any of these reputed Research and Academic Institution - CSIR-Central Institute of Mining and Fuel Research (CIMFR)/Dhanbad, NIRM, IIT (ISM)/Dhanbad, Anna University Chennai-Dept of Mining Engg, NIT Surathkal-Dept of Mining Engg, 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.
13. The PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of these reputed Research and Academic Institution - CSIR-Central Institute of Mining and Fuel Research (CIMFR)/Dhanbad, NIRM, IIT (ISM)/Dhanbad, Anna University Chennai-Dept of Mining Engg, NIT Surathkal-Dept of Mining Engg, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
14. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.


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17. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-1A.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.

18. As accepted by the Project Proponent the CER cost is Rs. 5 lakhs and the amount shall be spent to the committed activities for Government High School, Chinnathinnur Village, before obtaining CTO from TNPCB.

Agenda No. 350- TA-1

Auto extension of validity of Environmental Clearance already issued to the mining projects based on the O.M issued by MoEF&CC vide F.No. 1A3-22/28/2022-1A.III(E 181584) Dt. 13.12.2022.

The representations were received from Stone quarry, Crushers & lorry owners Association Tamil Nadu and Stone quarry contractor's welfare Association Kancheepuram & Chengulpattu regarding Auto extension of validity of Environmental Clearance already issued to the mining projects based on the O.M issued by MoEF&CC vide F.No. 1A3-22/28/2022-1A.III(E 181584) Dt. 13.12.2022

The said proposal were placed in the 586th Authority meeting held on 25.1.2023 & 27.1.2023. After detailed discussion, SEIAA decided to refer the said representations to the SEAC for obtaining the remarks & recommendations.

Subsequently these subjects were placed in this 350th SEAC meeting held on 3.2.2023. The SEAC discussed in detail and decided to send the following recommendations to SEIAA.

The Ministry of Environment, Forest and Climate Change (MoEF&CC) vide notification no. S.O. No. 1807(E) dated 12/04/2022 has amended the provisions of EIA Notification, 2006 regarding validity of Environment Clearance as mentioned below:

Type of Project	Earlier EC validity (Years)	Further extendable for (Years)	Increased EC validity (Years)	Further extendable For (Years)
	(A)	(B)	(C)	(D)


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River Valley Projects	10	3	13	2
Nuclear Projects	7	3	15	5
Projects other than River Valley, Nuclear and Mining Projects	7	3	10	1
Mining Projects	30		30 (Subject to adequacy of EIA/EMP to be reviewed every 5 years after 30 Years)	20

The Ministry has further clarified that the applicability of the Notification is as under:

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

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

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

- ii. The Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the EIA Notification 2006 as on the date of publication of Notification i.e. 12/04/2022, shall stand automatically extended to respective increased validity as mentioned at Para no. 1 column (C) above.

In the context of the above clarifications issued by the Government of India, MoEF&CC, SEAC recommends the following course of action.

1. As the validity of the Environmental Clearances, which had not expired as on the date of publication of Notification i.e. 12/04/2022, shall stand automatically extended to respective increased validity as mentioned at para no. 1 column (C) above, SEIAA may dispose of all such proposals, if received, without referring them to SEAC, by giving an endorsement.


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2. In respect of such cases which may arise in future, SEIAA may write to TNPCB to issue appropriate directions to its field offices to adhere to the above Notification and not to insist on endorsement/confirmation from SEIAA.
3. Similarly, as the Environment Clearances for which the project proponents have submitted the application for extension of validity as per the provisions of the EIA Notification 2006 as on the date of publication of Notification i.e. 12/04/2022, stand automatically extended to respective increased validity as mentioned at Para no. 1 column (C) above, such cases may also be disposed of by SEIAA, without reference to SEAC, by giving an endorsement.

Agenda No: 350-TA 02

(File No: 964/2022)

Construction of residential complex at S.F.No. 24/1, 24/3A1A, 24/3A1B, 24/9, 24/10 & 26/3 of Sundharacholavaram Villaga, Poonamallee Taluk, Thiruvallur District, Tamilnadu by M/s. R.M.K Construction & Housing - For Amendment In Environmental Clearance issued.

The proposal was placed in 350th meeting of SEAC held on 02.02.2023.

The SEAC noted the following:

1. The Project Proponent was issued with Environmental Clearance vide Letter No SEIAA/TN/F.964/EC/ 8(a)/ 174 /2013 dated: 11.06.2013 in the name of M/s. R.M.K Construction & Housing.
2. Subsequently the PP was issued with amendment in the above said Environmental Clearance vide Letter No. SEIAA/TN/F.964/A/ 8(a)/2013 dt:16.07.2013.
3. Further, the proponent was issued with extension of validity of Environmental Clearance vide Letter No. SEIAA/TN/F.964/A/ 8(a)/EC-174/2013 dt:17.06.2022.
4. Now, the proponent has submitted an application requesting the following amendment in the EC issued earlier;


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S. NO.	DESCRIPTION	APPROVED IN 276 th SEAC MEETING	SEEKING AMENDMENT	REMARKS
1	CER Condition	As accepted, the PP shall provide free education including free hostel accommodation with food for 50 Nos. of poor students per year, from Govt Schools who are admitted in educational institutions run by the PP	Construction of library building and supply of books to the library for 5 Govt. schools in nearby villages namely Chinnambedu, Puduvoiyal, Peruvoyal, Kavaraipettai, Poochiathipadu in Tiruvallur District.	The educational institution mentioned in the minutes are run by separate Trusts and Construction Company i.e. RMK Construction and Housing is a separated entity distinct from the Trusts which run the Educational Institutions. RMK Construction and Housing cannot ask the Trusts to accommodate 50 nos. of poor students per year from govt. Schools in the Trust run by Educational Institutions. Moreover, these higher educational Institutions are having "autonomous Status" and are governed by AICTE

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			Rules and Regulations.
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Based on the presentation & details furnished by the PP, the SEAC decided to recommend the following amendment, in the existing EC issued subject to the condition that all other conditions stipulated in the Environmental Clearance issued vide Letter No. SEIAA/TN/F.964/EC/ B(a)/ 174 /2013 dt: 11.06.2013, Letter No. SEIAA/TN/F.964/A/ 8(a)/2013 dt:16.07.2013 & Letter No. SEIAA/TN/F.964/A/ 8(a)/EC-174/2013 dt:17.06.2022 shall remain unaltered.

S. NO.	DESCRIPTION	APPROVED IN 276 th SEAC MEETING	APPROVED RECOMMENDED
1	CER Condition	As accepted, the PP shall provide free education including free hostel accommodation with food for 50 Nos. of poor students per year, from Govt Schools who are admitted in educational institutions run by the PP	As accepted, the PP shall undertake the renovation and maintenance of toilets and construction of library buildings - including supply of furniture and books to the library for 5 Govt. schools in nearby villages namely Chinnambedu, Puduvoiyal, Penuvoyal, Kavarapettai, Poochiathipedu in Tiruvallur District.


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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.


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24. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
25. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation. If the project site attracts the NBWL clearance, as per the existing law from time to time.
26. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
27. The 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>Azyle marmelos</i>	Vilvam	விவம்
2	<i>Adenanthera pavonina</i>	Manjadi	மஞ்சள் அல்லாவுத்தொட்டி
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Uai	உ.கிம்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	அத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	கட்டும்
9	<i>Borassus flabellifer</i>	Pani	பனம்
10	<i>Butea monosperma</i>	Murukkamarai	முருக்கமரம்
11	<i>Bodai rodu</i>	Ilavu, Servilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punarai	புனரை
13	<i>Cassia fistula</i>	Sarakondrai	சரகண்டரை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கண்டரை
15	<i>Chloroxylon sweetenia</i>	Purasanaram	புரசம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கேரங்க. மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Nannulu	நன்னிலி
18	<i>Crotalaria adansoni</i>	Mavalangum	மாவலங்கம்
19	<i>Dillenia indica</i>	Uva, Usha	உ.வ
20	<i>Dillenia pentagyna</i>	SiruUva, Siruzha	சிறு உ.வ
21	<i>Diospyros ebenum</i>	Karungali	கருங்கலி
22	<i>Diospyros schloroxylon</i>	Vaganai	வாகை
23	<i>Ficus amplissima</i>	Kallichi	கல் இச்சி
24	<i>Hibiscus tiliaceus</i>	Astrupoovarasu	அத்திப்பூவரசு
25	<i>Hardwickia bursata</i>	Aacha	அச்சா
26	<i>Holoptelia integrifolia</i>	Aayih	அய்யம் மரம், அயிர்
27	<i>Lamnea coromandelica</i>	Odham	ஒத்தம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottairamarai	நெய் கொட்டை மரம்
30	<i>Limonium acidissima</i>	Vila maram	விலம் மரம்
31	<i>Litsea glutinosa</i>	Pampattu	அம்பா பிளம்பா
32	<i>Madhucan longifolia</i>	Iluppu	இலுப்பு
33	<i>Manilkara hexandra</i>	Ulkai/Pala	உலகை பாலை
34	<i>Mimosa elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadamba	கடம்பா
36	<i>Morinda pubescens</i>	Nura	நுரை
37	<i>Morinda citrifolia</i>	Vellai Nura	வெள்ளை நுரை
38	<i>Phoenix sylvestris</i>	Eachi	ஏச்சி
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Minnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunrai	நாரமுனரை
42	<i>Premna tomentosa</i>	Mahipocurasa	மாஹிபொகுராசா
43	<i>Prosopis cinerea</i>	Vanni marai	வாணி மரம்
44	<i>Pterocarpus marsipium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேணாங்கு, தாடா
46	<i>Pterospermum xylocarpum</i>	Polavu	பொலவு
47	<i>Pathranjira roxburghii</i>	Karipala	காரிபலா
48	<i>Salvadora persica</i>	Uga Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மாணிபுண்டா சோபுகை
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Strobilus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேர்தாங்கு கோட்டை
54	<i>Strygium cuneati</i>	Navai	நாவை
55	<i>Terminalia belleric</i>	Thandai	தாண்டை
56	<i>Terminalia arjuna</i>	Ven narodhu	வேண நாரோடு
57	<i>Toona ciliata</i>	Sandhana vembu	சாந்தாணா வெம்பு
58	<i>Thespesia populnea</i>	Pavanesu	பாவாணசு
59	<i>Walsouratrifoliata</i>	valsura	வால்சூரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkupuli	கோடக்கப்பூரி

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

காரணமாகவும், குடும்பி பொருள்படுத்துவதற்காக அறங்கூறும் அனுமதி கிடைக்க நித்தராகவாகுதல் உட்பட்டு வறங்கூறும் நிலையுடைய _____ தேதியில் கண் ⑥ கற்றுத்தரும் அனுமதி _____ தேதி வரை செலவாகத்தக்கதாக உருவாகு.

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