

State Expert Appraisal Committee (SEAC)

Minutes of 374th meeting of the State Expert Appraisal Committee (SEAC) held on 03.05.2023 (Wednesday) at SEIAA Conference Hall, 2nd Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No: 374-01

(File No: 9818/2023)

Proposed Red Earth Quarry over an Extent of 1.00.5 Ha at S.F.No:325/2E of Erwadi Village, Keelakkarai Taluk, Ramanathapuram District, Tamil Nadu by Thiru. M.Kalidas For Environmental Clearance. (SIA/TN/MIN/412826/2023, 05.01.2023).

The proposal was placed in this 374th Meeting of SEAC held on 03.05.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. M.Kalidas has applied for Environmental Clearance for the Proposed Red Earth Quarry over an Extent of 1.00.5 Ha at S.F.No:325/2E of Erwadi Village, Keelakkarai Taluk, Ramanathapuram District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 1 year. The mining plan is for the period of One year & production should not exceed 12,240m³ of Red Earth. The annual peak production is 12,240m³ of Red Earth. The ultimate depth is 2.0m BGL.

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

1. The PP carry out the geological assessment to identify mineralization, to establish continuity, quality and quantity of mineral deposit, particularly, the presence of heavy minerals in the Teri sand (red earth) such as ilmenite, rutile, lucoxene, garnet, monazite, zircon and sillimanite, etc. Hence the PP shall furnish the report through the systematic sampling in the proposed site with showing geological coordinates as per the procedures laid in accordance with


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the provisions of Atomic Minerals Concessional Rules, 2016 and the mineralogical analysis report shall be obtained from the laboratory of IREL (India) Limited, Research Centre, Beach Road, Kollam, Kerala.

2. The PP shall change all the documents including the Mining Plan from "Red Earth" to "Ordinary Earth" as per the TN G.O. (Ms). No.244, dated. 14.12.2022.
3. The proponent shall produce a letter from the Department of Geology and Mining stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the Hon'ble Madurai Bench of Madras High Court.
4. The PP shall furnish the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., upto a radius of 25 km from the proposed site.
5. The PP shall submit the DSR prepared by the Competent Authority showing the presence of the other minerals in the proposed quarry location.

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

Agenda No: 374-02

(File No: 9832/2022)

Proposed Rough stone and gravel quarry over an Extent of 1.39.0 Ha at S.F.Nos. 169/2 & 169/3 of Kinnimangalam Village, Thirumangalam Taluk, Madurai District, Tamil Nadu by Thiru. K. Subramaniyan -For Environmental Clearance. (SIA/TN/MIN/418174/2023, 15.02.2023).

The proposal was placed in this 374th Meeting of SEAC held on 03.05.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. K. Subramaniyan has applied for Environmental Clearance for the Proposed Rough stone and gravel quarry over an Extent of 1.39.0 Ha at S.F.Nos. 169/2 & 169/3 of Kinnimangalam Village, Thirumangalam Taluk, Madurai District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item (a)


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"Mining Projects" of the Schedule to the EIA Notification, 2006.

3. As per the mining plan the lease period is 10 years. The mining plan is for the period of Five years & production should not exceed 1,25,100m³ of Rough Stone & 19,016m³ of Gravel. The annual peak production is 40,020m³ of Rough Stone & 19,016m³ of Gravel. The ultimate depth is 29m (2m Gravel+2m Weathered Rock+25m Rough Stone) BGL.

Sl. No	Details of the Proposal	
1.	Name of the Owner/Firm	Thiru.K. Subramaniyan, S/o. M. Karupaiah, No.132, Harveypatti, Thirupparankundram, Madurai-625005.
2.	Type of quarrying	Rough stone and gravel quarry
3.	S.F No. of the quarry site	169/2 & 169/3
4.	Village in which situated	Kinnimangalam
5.	Taluk in which situated	Thirumangalam
6.	District in which situated	Madurai
7.	Extent of quarry (in ha.)	1.39.0 Ha (patta land)
8.	Latitude & Longitude of all corners of the quarry site	09°55'25.3189"N to 09°55'21.9940"N 77°59'30.9447"E to 77°59'26.1190"E
9.	Topo Sheet No.	58 G/13
10.	Type of mining	Opencast mechanized mining
11.	Lease / Life of the Quarry	10 years
12.	Period of approved mine plan	5 years
13.	Total Excavation Volume (Quantity in m ³)	The mining plan is for the period of Five years & production should not exceed 1,25,100m ³ of Rough Stone & 19,016m ³ of Gravel.
14.	Annual peak production	40,020m ³ of Rough Stone & 19,016m ³ of Gravel.
15.	Ultimate Depth of mining	29m BGL. (2m Gravel+2m Weathered Rock+25m Rough Stone)


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16.	Depth of water table	55 m below ground level
17.	Man Power requirement	15 Nos.
18.	Water requirement 1. Drinking Water 2. Green belt 3. Dust suppression	2 KLD 1 KLD 0.5 KLD 0.5 KLD
19.	Power requirement	TNEB 1,03,250 litres of HSD will be utilized
20.	Precise area communication approved by the Assistant Director, Dept. Of Geology & Mining, Collectorate, with date	Roc.No.1436/Mines/2022 dated 19.01.2023.
21.	Mining Plan approved by Assistant Director, Dept. of Geology & Mining, with date	Roc.No.1436/2022/Mines dated:30.01.2023.
22.	500m cluster letter issued by the Assistant Director, Dept. of Geology & Mining, with date	Roc.No.1436/2022/Mines dated:30.01.2023.
23.	VAO certificate regarding habitations in 300m radius	Letter Dated: 31.01.2023
24.	Project Cost (excluding EMP)	Rs. 45,70,000 /-
25.	EMP cost	Capital cost – Rs.11,11,000/- Recurring cost/annum – Rs. 9,80,330/-.
26.	CER Cost	Rs. 5,00,000 /- as accepted by the PP

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 1,25,100m³ of Rough Stone & 19,016m³ of Gravel with maintaining a Ultimate depth of 29m BGL and annual peak production capacity shall not exceed 40,020m³ of Rough Stone & 19,016m³ of Gravel, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


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1. The 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. Within six months from the commencement of quarrying operations, the PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy. A copy of the compliance report shall be submitted to the Director of Mines Safety, Chennai Region, the AD/Mines & Geology, the DEE/TNPCB and the SEIAA-TN.
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. 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) through installation of silt settling pond in the surface.
7. The PP shall install the fencing with tall zinc vertical sheets on the southern side, for reducing the airborne dust produced from the quarrying operations before obtaining the CTO from the DEE/TNPCB.


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8. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the haul road ramp keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
9. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 4 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
10. As a part of EC Compliance, the PP shall carry out the tree plantation (2000 nos) to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site for a width of 50 m considering the wind direction before obtaining the CTO from the TNPCB.
11. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
12. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
13. Since few structures are located within 500 m, the Project Proponent shall carry out the scientific studies within six months from the commencement of mining operations, on 'Design of Controlled Blasting Parameters for reducing the Impacts of the blasting operations 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 (CIMFR) / Dhanbad, National Institute of Miners' Health - KGF, NIT Surathkal – Dept of Mining Engg, 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.

14. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
15. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
16. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
17. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
18. The PP shall carry out the comprehensive hydrogeological studies once in 2 years from the commencement of the quarrying operation 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 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.


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19. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
20. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
21. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
22. As accepted by the Project proponent the CER cost is Rs. 5.0 lakhs and the amount shall be spent for the Government Kallar High School, Kinnimangalam Village as committed, before obtaining CTO from TNPCB.

AGENDA No: 374-03

(File No: 9805/2023)

Proposed Rough Stone and Gravel quarry lease over an extent of – 1.82.51 Ha S.F.No. 27/25, Mela Thediur Village, Palayamkottai Taluk, Tirunelveli District, Tamil Nadu by Thiru M. Velmurugan – For Environmental Clearance (SIA/TN/MIN/415942/2023, dated 06.02.2023)

The proposal was placed in this 374th meeting of SEAC held on 03.05.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The project proponent gave a detailed presentation.

The SEAC noted the following:

1. The project proponent, Thiru M. Velmurugan has applied seeking Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of – 1.82.51 Ha S.F.No. 27/25, Mela Thediur Village, Palayamkottai Taluk, Tirunelveli 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, as amended.

Sl. No.	Details of the Proposal	
1.	Name of the Owner/Firm	Thiru. M.Velmurugan, S/o. Shri.Murugaiah 1/36A, Pillaiyar kovil Street, Thirumalaikozhunthupuram


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		Palayamkottai Taluk, Tirunelveli District.
2.	Type of quarrying	Rough stone & Gravel
3.	S.F No. of the quarry site	27/25
4.	Village in which situated	Mela Thediur
5.	Taluk in which situated	Palayamkottai
6.	District in which situated	Tirunelveli
7.	Extent of quarry (in ha.)	1.82.51 Ha
8.	Latitude & Longitude of all corners of the quarry site	08°38'11.05"N to 08°38'16.65"N 77°39'01.94"E to 77°39'07.71"E
9.	Topo Sheet No.	58 - H/10
10.	Type of Mining	Open cast semi mechanized mining
11.	Period of current mine plan	5 years
12.	Lease period	5 years
13.	Production (Quantity in m ³)	1.82,280 m ³ of Roughstone, 59,085 m ³ of Weathered rock and 40,176 m ³ of Topsoil with Gravel Annual Peak Production- 37,420 m ³ of Rough Stone and 17,820 m ³ of Topsoil with Gravel
14.	<ul style="list-style-type: none"> • Proposed depth of mining in 5 years • Ultimate Depth 	48m BGL 48m BGL
15.	Depth of water table	60m - 65m
16.	Man Power requirement	10 Nos
17.	Water requirement: <ul style="list-style-type: none"> 1. Domestic & Flushing 2. Dust suppression 3. Green Belt 	0.5 kLD 1.5 kLD 0.5 kLD
18.	Power requirement <ul style="list-style-type: none"> 1. Domestic 2. Industrial 	TNEB DC set
19.	Precise area communication approval letter	Rc.No.M2/29947/2021, Dated: 12.12.2022
20.	Mining Plan approval letter	Rc.No.M2/29947/2021, Dated: 03.01.2023
21.	500m cluster letter	Rc.No.M2/29947/2021, Dated: 03.01.2023
22.	VAO certificate regarding habitations within 300m radius	Letter dated: 10.01.2023
23.	Project Cost (excluding EMP)	Rs.274.73 Lakh


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24.	EMP cost	Capital Cost: Rs 18.49 Lakh Recurring Cost/Annum: 15.94 Lakh + 5% inflation cost from 2 nd year
25.	CER Cost	Rs. 6.0 Lakh

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a production quantity of 1,82,280 m³ of Rough stone, and 59,085 m³ of Weathered rock by maintaining the ultimate depth of 48m BGL and however the annual peak production shall not exceed – 37,420 m³ of Rough Stone as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
3. Within six months from the commencement of quarrying operations, the PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Pandalgudi (or) Trichy. A copy of the compliance report shall be submitted to the Director of Mines Safety, Chennai Region, the AD/Mines & Geology, the DEE/TNPCB and the SEIAA-TN.
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.


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5. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the quarry wall of the proposed quarry when the depth of the working touches 30 m (or) during the 3rd year whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Miners' Health - KGF, NIT Surathkal – Dept of Mining Engg, 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.
6. Since few structures including a school are located within the range of 600 m - 700 m. the Project Proponent shall carry out the scientific studies within six months from the commencement of mining operations, on 'Design of Controlled Blasting Techniques for reducing the Impacts of the blasting operations 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 (CIMFR) / Dhanbad, National Institute of Miners' Health - KGF, NIT Surathkal – Dept of Mining Engg, 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. 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.
8. The Project Proponent shall furnish a SoP to the AD (Mines) and the DEE/TNPCB before obtaining the CTO which 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.


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9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
15. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
16. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
17. As accepted by the Project proponent the CER cost is **Rs. 6.0 lakh** the amount to be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.

AGENDA No: 374-04
(File No: 9819/2023)


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Proposed Rough Stone and Gravel quarry lease over an extent of – 1.78.5 Ha S.F.No. 28/2, 28/3, 30/6 V. Ammapatti Village, Peraiyur Taluk, Madurai District, Tamil Nadu by Mrs. M. Selvalaksmi- For Environmental Clearance (SIA/TN/MIN/415820/2023, dated 27.01.2023)

The proposal was placed in this 374th meeting of SEAC held on 03.05.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The project proponent gave a detailed presentation.

The SEAC noted the following:

1. The project proponent, Mrs. M. Selvalaksmi has applied seeking Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease over an extent of – 1.78.5 Ha S.F.No. 28/2, 28/3, 30/6 V. Ammapatti Village, Peraiyur Taluk, Madurai 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, as amended.

Sl. No.	Details of the Proposal	
1.	Name of the Owner/Firm	Mrs.M.Selvalaksmi, W/o Thiru.P.Marimuthu, No.85, Kashim residency, High court opposite, Othakkadai, Madurai District -625 107
2.	Type of quarrying	Rough stone & Gravel
3.	S.F No. of the quarry site	28/2, 28/3, 30/6
4.	Village in which situated	V. Ammapatti
5.	Taluk in which situated	Peraiyur
6.	District in which situated	Madurai
7.	Extent of quarry (in ha.)	1.78.5 Ha -Patta land
8.	Latitude & Longitude of all corners of the quarry site	9°43' 2.979" N to 9°43' 8.517" N 77°50' 5.364"E to 77°50' 11.912"E
9.	Topo Sheet No.	58 G/14
10.	Type of Mining	Open cast, Mechanized mining
11.	Period of current mine plan	5 years
12.	Lease period	10 years
13.	Production (Quantity in m ³)	1,60,998m ³ of Rough stone and 26,774m ³ of Gravel


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		Annual Peak Production- 33,231 m ³ of Rough Stone
14.	<ul style="list-style-type: none"> • Proposed depth of mining in 5 years • Ultimate Depth 	36m BGL 36m BGL
15.	Depth of water table	55m BGL
16.	Man Power requirement	20 Nos
17.	Water requirement: <ul style="list-style-type: none"> 1. Domestic & Flushing 2. Dust suppression 3. Green Belt 	1.0 kLD 1.0 kLD 1.5 kLD
18.	Power requirement <ul style="list-style-type: none"> 1. Domestic 2. Industrial 	TNEB DG set
26.	Precise area communication approval letter	Roc.No.227/Mines/2022, dated 28.10.2022
27.	Mining Plan approval letter	Roc. No. 227/mines/2022, Dated 21.11.2022
28.	500m cluster letter	Roc. No. 227/mines/2022, Dated 21.11.2022
29.	VAO certificate regarding habitations within 300m radius	Letter dated: 22.11.2022
30.	Project Cost (excluding EMP)	Rs. 33.50 Lakh
31.	EMP cost	Capital Cost: Rs 7,45,000/- Recurring Cost/Annum: 8,48,910/- + 5% inflation cost from 2 nd year
32.	CER Cost	Rs. 5.0 Lakh

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a production quantity of 1,60,998m³ of Rough stone and 26,774m³ of Gravel to the depth of 36m BGL in 5 years and the annual peak production shall not exceed – 33,231³ of Rough Stone as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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


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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. Within six months from the commencement of quarrying operations, the PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy (or) Salem. A copy of the compliance report shall be submitted to the Director of Mines Safety, Chennai Region, the AD/Mines & Geology, the DEE/TNPCB and the SEIAA-TN.
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. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the quarry wall / benches of the proposed quarry when the depth of the working touches 30 m (or) during the 3rd year whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Miners' Health - KGF, NIT Surathkal – Dept of Mining Engg, 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.
6. Within six months from the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Design of Controlled Blasting Parameters for reducing the Impacts of the blasting operations carried out in the proposed quarry on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of


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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. The Project Proponent shall furnish a SoP to the AD (Mines) and the DEE/TNPCB before obtaining the CTO which 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 as per MMR 1961.
8. The PP shall install an embankment towards the direction of odai in the 50 m space provided in the lease boundary before obtaining the CTO and it shall be adequately tree planted.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.

14. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures including the thick tree plantation before obtaining the CTO from TNPCB.
15. 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.
16. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
17. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
18. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
19. As accepted by the Project proponent the CER cost is Rs. 5.0 lakh shall be remitted to the Deputy Director, Megamalai Tiger Reserve towards Conservation/ mitigation measures for Megamalai Tiger Reserve since the site is located within 10km radius before obtaining CTO from TNPCB.

AGENDA No: 374-05

(File No: 9826/2023)

Proposed Rough Stone and Gravel quarry lease over an extent of – 2.00.0 Ha S.F.No. 122/1A (Part) in Vadakku Thathanaickenpatti Village, Palani Taluk, Dindigul District, Tamil Nadu by Thiru T.R. Senthilraj – For Environmental Clearance (SIA/TN/MIN/417531/2023, dated 14.02.2023)

The proposal was placed in 374th meeting of SEAC held on 03.05.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The project proponent gave a detailed presentation.

The SEAC noted the following:

1. The project proponent, Thiru T.R. Senthilraj has applied seeking Environmental Clearance for the proposed Rough Stone and Gravel quarry


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lease over an extent of – 2.00.0 Ha S.F.No. 122/1A (PART) Vadakku Thathanaickenpatti Village, Palani Taluk, Dindigul 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, as amended.

Sl. No.	Details of the Proposal	
1.	Name of the Owner/Firm	Shri. T.R. Senthilraj S/o. Sri. Rathnasamy, D.No.101, Laksmipuram, Palani Taluk, Dindigul District- 624 601
2.	Type of quarrying	Rough stone & Gravel
3.	S.F No. of the quarry site	122/1A (PART)
4.	Village in which situated	Vadakku Thathanaickenpatti
5.	Taluk in which situated	Palani
6.	District in which situated	Dindigul
7.	Extent of quarry (in ha.)	2.00.0 Ha- Patta land
8.	Latitude & Longitude of all corners of the quarry site	10°28'56.33"N to 10°29'03.03"N 77°24'47.25"E to 77°24'49.97"E
9.	Topo Sheet No.	58- F/6 & 58-F/7
10.	Type of Mining	Opencast semi mechanized mining method.
11.	Period of current mine plan	5 years
12.	Lease period	5 years
13.	Production (Quantity in m ³)	55,190 m ³ of Rough stone and 7,344 m ³ of Gravel Annual Peak Production- 12,000 m ³ of Rough Stone
14.	Ultimate depth of mining	18m BGL
15.	Depth of water table	55m-60m
16.	Man Power requirement	16 Nos
17.	Water requirement:	
	1. Domestic & Flushing	1.0 kLD
	2. Dust suppression	0.5 kLD
	3. Green Belt	0.5 kLD
18.	Power requirement	
	1. Domestic	TNEB
	2. Industrial	DG set


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33.	Precise area communication approval letter	Rc.No.91/Mines/2022, Dated: 17.11.2022
34.	Mining Plan approval letter	Rc.No.91/Mines/2022, Dated: 02.12.2022
35.	500m cluster letter	Roc.No.91/Mines/2022, Dated: 02.12.2022
36.	VAO certificate regarding habitations within 300m radius	Letter dated: Nil
37.	Project Cost (excluding EMP)	Rs.33,25,000/- Lakh
38.	EMP cost	Capital Cost: Rs 72,72,423 /- Recurring Cost/Annum: 13,04,000/- + 5% inflation cost from 2 nd year
39.	CER Cost	Rs. 6.0 Lakh

Based on the presentation and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for a production quantity of 55,190m³ of Rough stone and 7,344m³ of Gravel to the depth of 18m BGL in 5 years and the annual peak production shall not exceed – 12,000 m³ of Rough Stone** as per the approved mining plan subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
3. The 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. Within six months from the commencement of quarrying operations, the PP shall ensure that all the statutory competent persons and non-statutory


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workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy (or) Salem. A copy of the compliance report shall be submitted to the Director of Mines Safety, Chennai Region, the AD/Mines & Geology, the DEE/TNPCB and the SEIAA-TN.

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 / 10 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 ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
8. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the provision of safety barrier of 10 m through planned working along with appropriate benches incorporating the haul road with proper gradient, before obtaining CTO from TNPCB.
9. The PP shall install a fencing to prevent the possible entry of men near the common wall highwall of 18 m existing without benches near to the boundary before obtaining the CTO from the TNPCB.
10. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the existing quarry wall benches of the proposed quarry within six months from the commencement of quarrying operation, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to

the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance without deviation.

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 CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance without deviation.
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. 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.
15. 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.
16. 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.


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17. 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.
18. 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.
19. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
20. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
21. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
22. As accepted by the Project proponent the CER cost is **Rs. 6.0 lakh** (of which **Rs. 2.0 lakh** shall be remitted to the DFO, Kodaikanal Wild Life Sanctuary towards Conservation/ mitigation measures for Kodaikanal Wild Life Sanctuary since the site is located within 10km radius) and the balance amount shall be spent for the committed activities before obtaining CTO from TNPCB.

AGENDA No: 374-06

(File No: 9833/2023)

Proposed Rough Stone and Gravel quarry lease over an extent of – 1.94.5 Ha S.F.No. 807 of Naranammalpuram Part-I Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by Thiru.N.Mohideen Sheik Shahith – For Environmental Clearance (SIA/TN/MIN/418185/2023, dated 14.02.2023)

The proposal was placed in 374th meeting of SEAC held on 03.05.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The project proponent gave a detailed presentation.

The SEAC noted the following:

1. The project proponent, Thiru.N.Mohideen Sheik Shahith has applied seeking Environmental Clearance for the proposed Rough Stone and Gravel quarry lease


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over an extent of – 1.94,5 Ha S.F.No. 807 of Naranammalpuram Part-I Village, Tirunelveli Taluk, Tirunelveli 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, as amended.

Sl. No.	Details of the Proposal	
1.	Name of the Owner/Firm	Thiru.N.Mohineen Sheik Shahith S/o Shri.Navaskhan No 1/19, Muthunagar, Sankar Nagar, Tirunelveli- 627357
2.	Type of quarrying	Rough stone & Gravel
3.	S.F No. of the quarry site	807
4.	Village in which situated	Naranammalpuram Part-I
5.	Taluk in which situated	Tirunelveli
6.	District in which situated	Tirunelveli
7.	Extent of quarry (in ha.)	1.94.5 Ha-Patta land
8.	Latitude & Longitude of all corners of the quarry site	08°48'04.18"N to 08°48'13.37"N 77°44'53.12"E to 77°45'55.83"E
9.	Topo Sheet No.	58 H/13
10.	Type of Mining	Opencast mechanized mining
11.	Period of current mine plan	5 years
12.	Lease period	5 years
13.	Production (Quantity in m ³)	1,41,380 m ³ of Rough stone and 72,790 m ³ of Topsoil with Gravel Annual Peak Production- 28,520m ³ of Rough Stone
14.	<ul style="list-style-type: none"> • Proposed depth of mining in 5 years • Ultimate Depth 	25 m BGL 25 m BGL
15.	Depth of water table	55m
16.	Man Power requirement	10 Nos
17.	Water requirement: <ol style="list-style-type: none"> 1. Domestic & Flushing 2. Dust suppression 3. Green Belt 	1.0KLD 0.5 kLD 0.5 kLD
18.	Power requirement <ol style="list-style-type: none"> 1. Domestic 2. Industrial 	TNEB DG set


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40.	Precise area communication approval letter	Rc.No.M2/60/2022 dated 09.01.2023.
41.	Mining Plan approval letter	Rc.No. M2/60/2022 dated 18.01.2023.
42.	500m cluster letter	Rc.No. M2/60/2022 dated 18.01.2023.
43.	VAO certificate regarding habitations within 300m radius	Letter dated: 12.01.2023
44.	Project Cost (excluding EMP)	Rs.1,51,06,760/-
45.	EMP cost	Capital Cost: Rs 24,71,890/- Recurring Cost/Annum: 24,71,890/- + 5% inflation cost from 2 nd year
46.	CER Cost	Rs. 5.0 Lakh

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a production quantity of 1,41,380 m³ of Rough stone and 72,790 m³ of Topsoil with Gravel to the depth of 25m BGL in 5 years and the annual peak production shall not exceed – 28,520m³ of Rough Stone as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferrous Mines Regulations, 1961.
3. Within six months from the commencement of quarrying operations, the PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Pandalgudi (or) Trichy. A copy of the compliance report shall be submitted to the Director of

Mines Safety, Chennai Region, the AD/Mines & Geology, the DEE/TNPCB and the SEIAA-TN.

4. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 10 m as it is designed to take care of run-off water (size, gradient and length) before obtaining the CTO from TNPCB.
6. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
7. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the provision of safety barrier of 10 m through planned working along with appropriate benches incorporating the haul road with proper gradient, before obtaining CTO from TNPCB.
8. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the existing quarry wall benches of the proposed quarry during 4th year of the quarrying operation, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance without deviation.
9. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Impacts of the blasting operations carried out in the proposed quarry on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM/Bangalore,


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IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance without deviation.

10. 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.
11. The Project Proponent shall ensure that the blasting operations shall be carried out away from the railways track line by orienting the face properly along with muffling such that no fly rock produced.
12. 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.
13. 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.
14. 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.
15. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
16. The Project Proponent shall furnish a SoP to the AD (Mines) and the DEE/TNPCB before obtaining the CTO which ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the **school/other habitations situated around the proposed quarry** after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone..
17. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the

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

18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
20. As accepted by the Project proponent the CER cost is **Rs. 7.0 lakh** and Rs. 5 lakhs for mitigation measures for Gangaikondan Wilf life sanctuary & Rs 2 lakhs shall be spent for the activities in Govt School as committed during SEAC appraisal before obtaining CTO from TNPCB.

Agenda No: 374 - 07

(File No: 9799/2023)

Proposed Multi-Color Granite quarry lease area over an extent of Extent 2.10.5 Ha at S.F.No. 221/3, 221/4, 221/5 & 221/7 of Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Thiru. M. Muthusamy - For Environmental Clearance. (SIA/TN/MIN/416923/2023, Dated: 04.02.2023)

The proposal was placed for appraisal in this 374th meeting of SEAC held on 03.05.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. M. Muthusamy has applied for Environmental Clearance for the proposed Multi-Color Granite quarry lease area over an extent of Extent 2.10.5 Ha at S.F.No. 221/3, 221/4, 221/5 & 221/7 of Karandapalli Village, Denkanikottai 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. As per the mining plan, the lease period is for 20 years. The production for the first 5 years not to exceed ROM – 62792m³, saleable multi-color granite @ 35% recovery – 15117m³, Granite reject @ 65% - 28075m³, Weathered rock – 12250m³ & Top soil – 7350m³ to an ultimate depth of Mining 50m below ground level.


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4. SEAC noted that the Cauvery North Wildlife Sanctuary is situated in between the Cauvery South Wildlife Sanctuary and the proposed site. Further, the Cauvery North Wildlife Sanctuary has been notified and the proposed mine site is out of the Eco Sensitive Zone of the Cauvery North Wildlife Sanctuary. Hence, SEAC decided that the proposal doesn't warrant prior clearance from National Board for Wildlife (NBWL).

The proposal is for mining of Multi-Colour Granite Quarry 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. M. Muthusamy S/o. Mylesan, No.2/527, Sandhapettai, Moolgilmaduvu, Pennagaram, Ajjanahalli, Dharmapuri District-636810
2.	Type of quarrying	Multi-Colour Granite Quarry
3.	Type of Operation	Fresh Quarry
4.	S.F No. of the quarry site	221/3, 221/4, 221/5 & 221/7
5.	Village in which situated	Karandapalli
6.	Taluk in which situated	Denkanikottai
7.	District in which situated	Krishnagiri
8.	Extent of Quarry (in ha.)	2.10.5 ha
9.	Lease of the Mine	20 years
10.	Life of the Mine	34 years
11.	Type of Mining	Opencast Semi-mechanized mining method.
12.	Validity of Approved Mining Plan	20 years
13.	Production and Development Plan Validity	5 years
14.	Total Excavation Volume as per the AMP (Quantity in m ³)	ROM – 62,792m ³ , Saleable multi-colour granite @ 35% recovery – 15,117m ³ , Granite reject @ 65% - 28,075m ³
15.	Annual Peak Production Capacity (Quantity in m ³)	27292 m ³
16.	Ultimate pit Depth (m)	50 m
17.	Latitude & Longitude of all corners of the quarry site	12°27'58.04073"N to 12°28'3.17194"N 77°43'51.60961"E to 77°43'57.69732"E
18.	Topo sheet No.	57- H/11

19.	Man power requirement per day:	27 Nos														
20.	Precise Area Communication Letter approved by the Assistant Director (i/c) with date	Letter no.3085128/MME.2/2022-1, Dated: 19.12.2022														
21.	Mining plan approved by the Commissioner of Geology & Mining with date	Rc.No.3548/MM4/2022, Dated: 21.01.2023														
22.	AD mines 500m cluster letter by the Deputy Director of Geology and Mining with date	Roc.No.1500/2018/Mines, Dated: 02.02.2023														
23.	Water requirement: 1. Drinking & domestic purposed 2. Dust Suppression 3. Green Belt	3.3 KLD 1.3 KLD 1.0 KLD 1.0 KLD														
24.	Power requirement: a. Domestic purpose b. Industrial purpose	TNEB 24,192 Litres of HSD														
25.	Ultimate depth of mining	50m BGL														
26.	Depth of Water table	65m in rainy & 70m in summer seasons.														
27.	Project cost (Excluding EMP)	Rs. 51,33,700														
28.	EMP cost	Capital cost: Rs. 81,46,912 Recurring cost: Rs. 12,05,200														
29.	CER cost	Rs. 12 Lakhs <table border="1"> <thead> <tr> <th>CER Activity</th> <th>CER Cost</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;">Government High School – Andevanapalli Village, Denkanikottai Taluk, Krishnagiri District.</td> </tr> <tr> <td>Painting for buildings</td> <td>70,000/-</td> </tr> <tr> <td>Plantation for School ground</td> <td>30,000/-</td> </tr> <tr> <td>Toilet Maintenance (20 years)</td> <td>8,00,000/-</td> </tr> <tr> <td>Cauvery North wildlife sanctuary</td> <td>3,00,000/-</td> </tr> <tr> <td>Total Cost Allocation</td> <td>Rs.12,00,000/-</td> </tr> </tbody> </table>	CER Activity	CER Cost	Government High School – Andevanapalli Village, Denkanikottai Taluk, Krishnagiri District.		Painting for buildings	70,000/-	Plantation for School ground	30,000/-	Toilet Maintenance (20 years)	8,00,000/-	Cauvery North wildlife sanctuary	3,00,000/-	Total Cost Allocation	Rs.12,00,000/-
CER Activity	CER Cost															
Government High School – Andevanapalli Village, Denkanikottai Taluk, Krishnagiri District.																
Painting for buildings	70,000/-															
Plantation for School ground	30,000/-															
Toilet Maintenance (20 years)	8,00,000/-															
Cauvery North wildlife sanctuary	3,00,000/-															
Total Cost Allocation	Rs.12,00,000/-															
30.	VAO letter dated	30.01.2023.														

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the


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annual peak production capacity not exceeding 27,292m³ of ROM by maintaining the Ultimate depth of mining of 50 m, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
3. The proponent shall obtain a 'Star Rating' system awarded by Anna University, Chennai annually to the mining lease being operated for their efforts and initiatives taken for successful implementation of the Sustainable Development Framework (SDF).
4. The proponent shall mandatorily appoint the statutory Mines Manager & other statutory competent persons and the Geologist in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Granite Conservation & Development Rules, 1999 respectively before obtaining the CTO.
5. The PP shall inform/send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
6. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.

7. The PP shall extract the dimensional stone blocks through non-explosive techniques such that the surrounding structures are not impacted.
8. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
9. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
10. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained properly.
11. The PP shall ensure that the Diamond Wire Saw Machine Operators/Technicians shall be adequately trained in safe operation/proper maintenance of Machine and the rope.
12. In the interest of safety, the PP of the planned quarry where the Diamond Wire Saw Machines are proposed and OEM of such machines are advised to comply with the safety provisions as given in DGMS (Tech) Circular No. 02 of 2019 so that accidents are mitigated adequately.
13. The PP shall conduct a Slope Stability study after a period of five years from the commencement of quarrying operation through any reputed scientific institution such as NIRM, IIT(ISM), NITK Surathkal-Dept of Mining Engg, Anna University Chennai – CEG Campus and any other CSIR labs, to study the efficacy of the slope stability of highwall in the proposed quarry for the safe operation.
14. Since the quarry site is located within the ESZ of CSWL Sanctuary from the lease boundary, 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 before obtaining the CTO from the TNPCB.


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15. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
16. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
17. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals.
18. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
19. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics.
20. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices.
21. Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
22. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
23. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.

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


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31. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
32. The Project Proponent shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under.
33. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
34. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
35. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
36. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
37. As accepted by the Project proponent the CER cost is Rs. 12 lakhs and the amount shall be spent as committed, before obtaining CTO from TNPCB.

CER Activity	CER Cost
Government High School – Andevanapalli Village, Denkanikottai Taluk, Krishnagiri District.	
Painting for buildings	70,000/-
Plantation for School ground	30,000/-
Toilet Maintenance (20 years)	8,00,000/-
Cauvery North wildlife sanctuary	3,00,000/-
Total Cost Allocation	Rs.12,00,000/-

Agenda No: 374 - 08

(File No: 9827/2023)

Proposed Rough Stone quarry lease area over an extent of Extent 1.17.5 Ha at S.F.No. 436/1 (Part) of Nekkunthi Village, Nallampalli Taluk, Dharmapuri District, Tamil Nadu by Thiru. A. Durairaj - For Environmental Clearance. (SIA/TN/MIN/418293/2023, Dated: 14.02.2023)

The proposal was placed for appraisal in this 374th meeting of SEAC held on 03.05.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. A. Durairaj has applied for Environmental Clearance for the proposed Rough Stone quarry lease area over an extent of Extent 1.17.5 Ha at S.F.No. 436/1 (Part) of Nekkunthi Village, Nallampalli Taluk, Dharmapuri 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. As per the mining plan, the lease period is for 4 years & 6 months. The production for 4 years & 6 months not to exceed 91,586m³ of Rough Stone & 3366m³ of Top soil to an ultimate depth of Mining 35m (10m Above ground level + 25m below ground level).
4. The Proponent had obtained lease proceedings in Rc.No.138/2010(Mines), Dated: 13.06.2010 for a period of 10 years valid from 19.08.2010 to 18.08.2020. The District Forest Officer, Dharmapuri vide letter in Rc.No.7556/2014/D Dated: 09.10.2015 has stated that illegal extension of quarry operation in forest area of Nagarkoodal RF over 100m long, 50m breadth and 10m depth by the lessee and subsequently had requested to cancel the said quarry license.
5. Based on the above, District Collector, Dharmapuri vide proceedings in Rc.No.287/2014(Mines) Dated: 02.03.2016 has cancelled the said quarry lease for violation of lease deed condition by the lessee under rule 36 (5) (h) of Tamil Nadu Minor Mineral Concession Rules, 1959.
6. Subsequently, the DFO, Dharmapuri vide Lr. No. 7556/2014/Va. dated:


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01.09.2020 had levied penalty for a sum of Rs. 5,81,032 on the lessee for the quantity of 820.80 Cbm of Rough Stone and 4287.50 Cbm of earth and directed him to remit the said penalty amount. The said penalty was remitted by the lessee on 01.09.2020.

7. Subsequently, aggrieved by the lease cancellation order passed by the District Collector, Dharmapuri, the appellant has preferred an appeal before the Commissioner of Geology and Mining with a prayer to set aside the order passed by the District Collector, Dharmapuri and to permit to carry out quarrying operation in the said quarry for the non-operative period of four years and six months.
8. Further, the proponent had submitted written statement dated: 20.01.2023 regarding the penalty amount paid by the lessee and requested for grant of quarry lease for non-operational period.
9. Subsequently, based on the above facts and the provisions in TNMMCR, 1959 The Commissioner, Commissionerate of Geology and Mining vide Rc. No. 291/MM1/2023 Dated: 20.01.2023, decided to set aside order passed by District Collector, Dharmapuri vide Rc.No.287/2014 (Mines), dated: 02.03.2016 and directed the lessee to obtain mine plan duly approved by Deputy/Assistant Director of Geology and Mining and Environmental Clearance from SEIAA.
10. Subsequently, Collector has issued Memo vide RoC. No. 287/2014 Dated: 31.01.2023 directing the proponent to produce draft mining plan for the lease granted area before the Assistant Director of Geology and Mining for approval by incorporating the condition imposed by the Commissioner of Geology and Mining.

The proposal is for mining of Rough Stone Quarry 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. Durairaj, S/o. A.Andi Gounder,


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		Sogathur Village and Post, Dharmapuri District - 636809
2.	Type of quarrying	Rough Stone Quarry
3.	S.F No. of the quarry site	436/1 (Part)
4.	Village in which situated	Nekkunthi
5.	Taluk in which situated	Nallampalli
6.	District in which situated	Dharmapuri
7.	Extent of Quarry (in ha.)	1.17.5 ha
8.	Period of Quarrying proposed	4 years & 6 Months
9.	Type of Mining	Opencast Semi-mechanized mining method.
10.	Production (Quantity in m ³)	91,586m ³ of Rough Stone
11.	Latitude & Longitude of all corners of the quarry site	12°5'49.36"N to 12°5'53.72"N 78°1'52.39"E to 78°1'57.81"E
12.	Topo sheet No.	57- L/04
13.	Man power requirement per day:	15 Nos
14.	Precise Area Communication Letter approved by the District Collector with date	Na.Ka.No.138/2010 (Kanimam), Dated: 13.06.2010
15.	Mining plan approved by the Assistant Director of Geology & Mining with date	Roc.No.287/2014 (Mines), Dated: 07.02.2023
16.	AD mines 500m cluster letter by the Assistant	Roc.No.287/2014 (Mines), Dated: 07.02.2023


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	Director of Geology and Mining with date																			
17.	Water requirement: 1. Drinking & domestic purposed 2. Dust Suppression 3. Green Belt	3.5 KLD 1.5 KLD 1.0 KLD 1.0 KLD																		
18.	Power requirement: a. Domestic purpose b. Industrial purpose	TNEB 73,286 Litres of HSD																		
19.	Depth of Mining	35m (10m Above ground level + 25m below ground level).																		
20.	Depth of Water table	50m in rainy & 55m in summer seasons.																		
21.	Project cost (Excluding EMP)	Rs. 31.07,000																		
22.	EMP cost	Capital cost: Rs. 22,03,057 Recurring cost: Rs. 14,32,804																		
23.	CER cost	Rs. 6.4 Lakhs <table border="1"> <thead> <tr> <th>S. No</th> <th>Description</th> <th>CER Cost INR</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Ground Levelling & Soil Packing & Filling</td> <td>2,00,000/-</td> </tr> <tr> <td>2</td> <td>RO- Water Facility</td> <td>10,000/-</td> </tr> <tr> <td>3</td> <td>Incinerator</td> <td>10,000/-</td> </tr> <tr> <td>4</td> <td>Toilet facility & Maintenance</td> <td>2,00,000/- 1,80,000/-</td> </tr> <tr> <td></td> <td>3000/month = 36000/- per year</td> <td></td> </tr> </tbody> </table>	S. No	Description	CER Cost INR	1	Ground Levelling & Soil Packing & Filling	2,00,000/-	2	RO- Water Facility	10,000/-	3	Incinerator	10,000/-	4	Toilet facility & Maintenance	2,00,000/- 1,80,000/-		3000/month = 36000/- per year	
S. No	Description	CER Cost INR																		
1	Ground Levelling & Soil Packing & Filling	2,00,000/-																		
2	RO- Water Facility	10,000/-																		
3	Incinerator	10,000/-																		
4	Toilet facility & Maintenance	2,00,000/- 1,80,000/-																		
	3000/month = 36000/- per year																			

		5	Environmental Related Books	10,000/-
		6	Plantation in School premises	30,000/-
			Total	Rs. 6,40,000/-
24.	VAO letter dated	10.02.2023.		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the depth of mining up to 35m and the production of 91,586 m³ of Rough stone. The annual peak production shall not exceed 27,936 m³ of Rough stone subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The 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. Within six months from the commencement of quarrying operations, the PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy (or) Salem. A copy of the compliance report shall be submitted to the Director of Mines


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Safety, Chennai Region, the AD/Mines & Geology, the DEE/TNPCB and the SEIAA-TN.

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 / 10 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 ensure that the following provisions are provided due to the existence of Reserved Forest within 1 km from the lease boundary of proposed quarry:**
 - i. Since the R.F is located very close to the proposed quarry site, the PP shall develop Green Belt (**Thick Tree plantation in two rows**) along the boundary of the mine lease area before obtaining the CTO from the TNPCB.
 - ii. The proponent shall construct and maintain proper fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forest before the commencement of the operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
 - iii. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate dumps positioned in opposite direction to the location of the reserved forest.
 - iv. The PP shall ensure that such waste/reject dumps shall be properly secured to prevent escape of material there from in harmful quantities which may cause degradation of environment and to prevent causation of floods.

- v. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
- vi. The PP shall take necessary steps that wherever possible, the waste rock, overburden etc. shall be back-filled into the mine excavations with a view to restoring the land to its original use as far as possible.
- vii. Wherever back-filling of waste rock in the area excavated during mining operations is not feasible, the PP shall take adequate steps in discussion with the concerned DFO to suitably terrace the waste dumps ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
- viii. The PP shall carry out the scientific investigations in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.
- ix. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.
- x. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying operations within 'Permissible Limits' specified under the environmental laws.
- xi. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.
- xii. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry


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out the quarrying on steep hill slopes with a gradient of 200 or more or areas with a high degree of erosion on forestland.

- xiii. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco- sensitive Zone of 60 m without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.
 - xiv. The PP shall not use plastic carry bags within the quarry area.
 - xv. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free from blockage for runoff disposals. This runoff from the road side drainage shall relate to the natural drainage system in the area.
 - xvi. The PP shall adhere to the provisions of the MoEF had issued Notification No. S.O. 1545 dated 25th June 2009 regulating certain activities in the eco-sensitive zone to conserve and protect the reserved forest area from ecological and environmental point of view.
8. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
9. The PP shall carry out maximum of TWO rounds 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 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
10. However, 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. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
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 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.
14. 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.
15. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
16. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.


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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 EMP furnished.
19. As accepted by the Project proponent the total CER cost is Rs. 6.4 lakhs and the amount shall be spent as committed below, before obtaining CTO from TNPCB.

S. No	Description	CER Cost INR
1	Ground Levelling & Soil Packing & Filling	2,00,000/-
2	RO- Water Facility	10,000/-
3	Incinerator	10,000/-
4	Toilet facility & Maintenance 3000/month = 36000/- per year	2,00,000/- 1,80,000/-
5	Environmental Related Books	10,000/-
6	Plantation in School premises	30,000/-
	Total	Rs. 6,40,000/-

Agenda No: 374-09

(File No: 9800/2023)

Proposed Rough Stone, Jelly & Gravel quarry Lease over an extent of 4.39.00 Ha at S.F.No. 18/1, 19/1, 2, 3, 4, 5, 6, 20/2A, 2B, 2C, 3A, 3B, 4A, 4B, 5A, 5B, 6A, 6B, 7 & 21/2, 6A, 6B, 7A, 7B, 8A1, 8A2, 8B1, 8B2 of Muthuramalingapuram Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu by Sri.M. Saravanaganesan – For Environmental Clearance. (SIA/TN/MIN/416628/2023 dated.03.02.2023)

The proposal was placed for appraisal in this 374th meeting of SEAC held on 03.05.2023. The details of the project furnished by the proponent are available on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Sri. M. Saravanaganesan has applied for Environmental Clearance for the Proposed Rough Stone, Jelly & Gravel


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quarry Lease over an extent of 4.39.00 Ha at S.F.No. 18/1, 19/1, 2, 3, 4, 5, 6, 20/2A, 2B, 2C, 3A, 3B, 4A, 4B, 5A, 5B, 6A, 6B, 7 & 21/2, 6A, 6B, 7A, 7B, 8A1, 8A2, 8B1, 8B2 of Muthuramalingapuram Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu.

2. The project/activity is covered under Category "B2" of item 1(a) "Mining of Minerals Project" of the Schedule to the EIA Notification, 2006.
3. The salient features of the proposal are as follows:

File No	9800		Category	1(a)
	SIA/TN/MIN/416628/2023			B2
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. M. Saravanaganesan, S/o. Sri. Muthu, 2/117/5, Silukkapatti, M.Reddiapatti, Aruppukottai Taluk, Virudhunagar District – 626118.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone, Jelly and Gravel Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	18/1, 19/1, 2, 3, 4, 5, 6, 20/2A, 2B, 2C, 3A, 3B, 4A, 4B, 5A, 5B, 6A, 6B, 7 & 21/2, 6A, 6B, 7A, 7B, 8A1, 8A2, 8B1, 8B2	
4.	Village in which situated	:	Muthuramalingapuram	
5.	Taluk in which situated	:	Aruppukottai	
6.	District in which situated	:	Virudhunagar	
7.	Extent of quarry (in ha.)	:	4.39.0 ha	
8.	Latitude & Longitude of all corners of the quarry site	:	9°28'12.2"N to 9°28'19.2"N 78°10'22.6"E to 78°10'16.8"E	
9.	Topo Sheet No.	:	58-K/3	


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10.	Type of mining	:	Opencast Semi mechanized Mining	
11.	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	<u>As per approved Mining Plan</u>	<u>As modified by SEAC</u>
	Geological Resources m ³ (RoM)	:	Rough Stone – 16,29,450	Rough Stone – 16,29,450
			Gravel – 43,804	Gravel – 43,804
	Minable Resources m ³ (RoM)	:	Rough Stone – 4,66,275	Rough Stone – 4,66,275
			Gravel – 15,194	Gravel – 15,194
	Annual Peak Production in m ³	:	Rough Stone – 1,08,590	Rough Stone – 1,08,590
			Gravel - 7597	Gravel - 7597
Maximum Depth in meters	:	47m BGL	47m BGL	
13.	Depth of water table	:	50-55 BGL	
14.	Man Power requirement per day:	:	16 Nos. (Permanent – 8 Nos. & Temporary 8 Nos.)	
15.	Water requirement:	:	5.0 KLD	
	1. Drinking water	:	1.0 KLD	
	2. Dust suppression	:	2.5 KLD	
	3. Green belt	:	1.5 KLD	
16.	Power requirement	:	No Electricity is required.	
17.	Precise area communication approved by the Assistant	:	Rc.No.KV1/949/2022, dated: 12.09.2022.	

	Director, Dept. of G&M with date				
18.	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	:	Rc.No.KV1/949/2022, dated: 03.10.2022.		
19.	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date		Rc.No.KV1/949/2022, dated: 03.10.2022.		
20.	VAO Certificate Regarding Structures within 300m Radius		13.09.2022		
21.	Project Cost (excluding EMP cost)	:	Rs. 1,49,65,175/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
		:	Max Total RoM in m ³	4,66,275	15,194
		:	Annual Max RoM in m ³	1,08,590	7597
		:	Max Depth in mtrs	47m BGL	2m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital Cost: Rs.28.60 Lakhs Recurring Cost: Rs.23.18 Lakhs		
24.	CER cost (in Rs. Lakh).	:	Rs.5,00,000/-		


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Based on the presentation and documents furnished by the project proponent, after detailed deliberations, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 4,66,275m³ of Rough Stone & 15,194m³ of Gravel with maintaining an ultimate depth of 47m Below ground level and the annual peak production of not exceeding 1,08,590m³ of rough stone & 7597m³ of gravel, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural

stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.

- 7) 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.
- 8) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 9) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 10) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 11) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 12) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 13) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 14) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 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.


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- 16) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 17) 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.
- 18) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 19) 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.
- 20) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 21) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 22) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to

confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.

- 23)As the ultimate depth in this case exceeded 40m, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM, and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 24)The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 25)The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.
- 26)Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 27)The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 28)The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.


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- 29) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 30) To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 31) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 32) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 33) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 34) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 35) All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.

- 36) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 37) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 38) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
- 39) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
- 40) As accepted by the Project Proponent the CER cost of Rs.5 lakhs and the amount shall be spent for the Panchayat Union Primary School, Muthuramalingapuram before obtaining CTO from TNPCB.

Agenda No: 374-10

(File No: 9807/2023)

Proposed Multi Colour Granite quarry Lease over an extent of 2.30.0 Ha at S.F.No. 141/3B, 141/3D, 141/8A, 141/8B, 141/8C, 141/8D, 141/8E, 141/8F, 141/8G, 141/8H, 141/8I, 141/8J, 141/8L, 141/8O, 141/6A, 141/6B, 141/6C, 141/6D, 141/6E, 141/6F, 141/8K, 141/8M & 141/8N Mangudi Village, Illuppur Taluk, Pudukkottai District, Tamilnadu by M/s. Shines Granites – For Environmental Clearance. (SIA/TN/MIN/417030/2023 dated.04.02.2023)

The proposal was placed for appraisal in this 374th meeting of SEAC held on 03.05.2023. The details of the project furnished by the proponent are available on the website (parivesh.nic.in).


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The SEAC noted the following:

1. The Project Proponent, **M/s.Shines Granites** has applied for Environmental Clearance for the **Proposed Multi Colour Granite quarry Lease** over an extent of 2.30.0 Ha at S.F.No. 141/3B, 141/3D, 141/8A, 141/8B, 141/8C, 141/8D, 141/8E, 141/8F, 141/8G, 141/8H, 141/8I, 141/8J, 141/8L, 141/8O, 141/6A, 141/6B, 141/6C, 141/6D, 141/6E, 141/6F, 141/8K, 141/8M & 141/8N Mangudi Village, Illuppur Taluk, Pudukkottai District, Tamilnadu.
2. The project/activity is covered under Category "B2" of item I(a) "Mining of Minerals Project' of the Schedule to the EIA Notification,2006.
3. The salient features of the proposal are as follows:

File No	9807		Category	1(a)
	SIA/TN/MIN/417030/2023			B2
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	M/s. Shines Granites, No. 607, West 2 nd Cross Street, K.K Nagar, Madurai – 625 020.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limest one)	:	Multi Colour Granite Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	141/3B, 141/3D, 141/8A, 141/8B, 141/8C, 141/8D, 141/8E, 141/8F, 141/8G, 141/8H, 141/8I, 141/8J, 141/8L, 141/8O, 141/6A, 141/6B, 141/6C, 141/6D, 141/6E, 141/6F, 141/8K, 141/8M & 141/8N	
4.	Village in which situated	:	Mangudi	
5.	Taluk in which situated	:	Illuppur	
6.	District in which situated	:	Pudukkottai	
7.	Extent of quarry (in ha.)	:	2.30.00ha	
8.	Latitude & Longitude of all corners of the quarry site	:	10°24'31.49"N to 10°24'24.36"N 78°43'3.08"E to 78°42'58.56"E	
9.	Topo Sheet No.	:	58J/11	

10.	Type of mining	:	Opencast Mining	
11.	Life of Project	:	20 years	
	Lease Period	:	20 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources in m ³ (RoM)	:	Total Reserves – 6,06,490	Total Reserves – 6,06,490
		:	Multicolour Granite (@40%) – 2,42,596	Multicolour Granite (@40%) – 2,42,596
		:	Granite waste (@60%) – 3,63,894	Granite waste (@60%) – 3,63,894
		:	Topsoil – 5802	Topsoil – 5802
		:	Weathered granite - 5802	Weathered granite - 5802
	Minaible Resources in m ³ (RoM)	:	Total Reserves – 85,040	Total Reserves – 63,455
		:	Multicolour Granite (@40%) – 34,016	Multicolour Granite (@40%) – 25,382
		:	Granite waste (@60%) – 51,024	Granite waste (@60%) – 38,073
		:	Topsoil – 77	Topsoil – 39
		:	Weathered granite - 74	Weathered granite - 37
	Annual Peak Production in m ³	:	RoM - 14585	RoM - 9120
		:	Multicolour granite (40%) – 5834	Multicolour granite (40%) – 3648
		:	Granite waste (@60%) – 8751	Granite waste (@60%) – 5472
		:	Topsoil – 77	Topsoil – 39
		:	Weathered granite - 74	Weathered granite - 37
		Maximum Depth in meters	:	27m BGL
13.	Depth of water table	:	62m – 55m	


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14.	Man Power requirement per day:	:	24 Nos.
15.	Water requirement: 4. Drinking water 5. Dust suppression 6. Green belt	:	3.5 KLD 1.0 KLD 1.0 KLD 1.5. KLD
16.	Power requirement		No Electricity is required
17.	Precise area communication approved by the Principal Secretary to Govt. with date	:	Lr.No.1375/MME.2/2021-1 dated. 25.02.2021.
18.	Mining Plan approved by Commissioner, Dept. of Geology and Mining with date	:	Rc.No.304/MM2/2021, dated: 05.05.2021.
19.	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining with date		Rc.No.345/2018 (G&M), dated: 16.07.2021.
20.	VAO Certificate Regarding Structures within 300m Radius		Furnished (Dated Nil)
21.	Project Cost (excluding EMP cost)	:	Rs. 2,06,00,000/-
22.	EC Recommendation	:	Validity 30 years subject to the following upper limits.
		:	Max Total RoM in m ³ 37,950
		:	Annual Max RoM in m ³ 9120
		:	Max Depth in mtrs 27m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital Cost: Rs.15,51,000/- Recurring Cost: Rs.6,48,100/-
24.	CER cost (in Rs. Lakh).	:	Rs.5,00,000/-

The Committee considering the safety aspects decided to recommend the proposal for the revised quantity as follows:

YEARWISE DEVELOPMENT & PRODUCTION													
Year	Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Volume in m3	Total Reserves in m3	Multi color Granite 40% in m3	Granite Waste 60% in m3	Top soil in m ³	Weathered granite in m ³	Total waste in m ³	
I	XY-AB	I	1	9	1	9				9		9	
		II	1	8	1	8					8	8	
		III	14	33	5	2310	2310	924	1386			1386	
		IV	19	69	5	6555	6555	2622	3933			3933	
	XY-CD	I	30	1	1	30					30		30
		II	29	1	1	29						29	29
		III	28	1	5	140	140	56	84				84
		IV	23	1	5	115	115	46	69				69
	TOTAL							9120	3648	5472	39	37	5548
	II	XY-AB	V	14	59	5	4130	4130	1652	2478			2478
			VI	9	49	5	2205	2205	882	1323			1323
		XY-CD	V	18	1	5	90	90	36	54			54
VI			13	1	5	65	65	26	39			39	
TOTAL							6490	2596	3894			3894	
III	XY-AB	VII	32	39	5	6240	6240	2496	3744			3744	
		TOTAL							6240	2496	3744		3744
IV	XY-CD	VII	35	46	5	8050	8050	3220	4830			4830	
		TOTAL							8050	3220	4830		4830


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TOTAL							8050	3220	4830			4830
V	XY-CD											
		VII	35	46	5	8050	8050	3220	4830			4830
TOTAL							8050	3220	4830			4830
GRAND TOTAL							37950	15180	22770	39	37	22846

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, **SEAC considering the safety aspects, decided to recommend the proposal for the grant of Environmental Clearance for the quantity of 37,950m³ of RoM which includes 15,180m³ of Multi-colour granite (@40% recovery) & 22,770m³ of Granite waste & also 39m³ of top soil & 37m³ of weathered granite with maintaining an ultimate depth of 27m Below ground level and the annual peak production not exceeding 9120m³ of RoM, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:**

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and

outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.

- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) 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.
- 8) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 9) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 10) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 11) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 12) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 13) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.


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- 14) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 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) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 17) 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.
- 18) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 19) 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.

- 20) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 21) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 22) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 23) **As the ultimate depth in this case exceeded 40m**, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM, and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 24) The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 25) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.
- 26) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.


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

- 34)The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 35)All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 36)That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 37)As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 38)The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
- 39)As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.
- 40) As accepted by the Project Proponent the CER cost of **Rs.5 lakhs** and the amount shall be spent for the Panchayat Union Primary School, Muthuramalingapuram before obtaining CTO from TNPCB.


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Agenda No: 374-11
(File No: 9814/2022)

Proposed Rough Stone and gravel quarry lease over an extent 4.74.5 Ha at S.F.No. 223/1, 223/2, 224, 225/1 & 225/2 Periyavenmani Village, Maduranthagam Taluk, Kanchipuram District, Tamilnadu by M/s.PCS Industries Limited - For Terms of Reference. (SIA/TN/MIN/417301/2023 dated 12.12.2022)

The proposal was placed in this 370th meeting of SEAC held on 08.02.2023. The details of the project are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, **M/s.PCS Industries Limited** has applied for Terms of Reference for the Proposed Rough Stone and gravel quarry lease over an extent 4.74.5 Ha at S.F.No. 223/1, 223/2, 224, 225/1 & 225/2 Periyavenmani Village, Maduranthagam Taluk, Kanchipuram District, Tamilnadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years and the mining plan is for 5 years. The production for 5 years not to exceed **6,44,436m³ of rough stone & 61,344m³ of gravel.**

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

1. The proponent shall carry out a detailed study on the impact of mining on the tank/ water body situated adjacent to the proposed area including the impact on the bund due to blasting, impact on runoff to the water body, etc., from a reputed Institutions like IIT, NIT, Anna University, etc.
2. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv)


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300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.

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


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

& open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.


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


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


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32. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site-specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
33. A Disaster Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
34. A Risk Assessment and Management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
38. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
39. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
40. If any quarrying operations were carried out in the proposed quarrying site for

which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.

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

Agenda No: 374-12

(File No: 9821/2023)

Proposed Rough Stone quarry Lease over an extent of 1.05.0 Ha at S.F.No. 16/1, 16/2A, 16/2B & 20 in Chinnabalinaickanpalayam Village, Shoolagiri Taluk, Krishnagiri District, Tamilnadu by M/s.SKS Builders & Promoters- For Environmental Clearance. (SIA/TN/MIN/416188/2023 dated.30.01.2023)

The proposal was placed for appraisal in this 374th meeting of SEAC held on 03.05.2023. The details of the project furnished by the proponent are available on the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, **M/s.SKS Builders & Promoters** has applied for Environmental Clearance for the Proposed Rough Stone quarry Lease over an extent of 1.05.0 Ha at S.F.No. 16/1, 16/2A, 16/2B & 20 in Chinnabalinaickanpalayam Village, Shoolagiri Taluk, Krishnagiri District, Tamilnadu.
2. The project/activity is covered under Category "B2" of item I(a) "Mining of Minerals Project" of the Schedule to the EIA Notification,2006.
3. Earlier appl No. **SIA/TN/MIN/204494/2021** dt: **19.03.2021** (File No. 8475/2022) was appraised vide 254th meeting of SEAC held on 17.03.2022. Based on the presentation, documents and clarification furnished by the proponent, SEAC noted that in G.O(MS) No. 295 dated 03.11.2021 the Government in Industries Department has notified the


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following Rules specifying certain conditions for permitting mining activities near ecologically sensitive areas.

“ ... No quarrying or mining or crushing activities shall be carried out within one kilometer radial distance or the protective distance as notified by the Ministry of Environment, Forest and Climate Change, Government of India from time to time, whichever is more, from the boundaries of ecologically sensitive areas, environmentally and ecologically sensitive protected areas such as the National parks, Wild life Sanctuaries, Tiger Reserves, Elephant corridors and Reserve Forests”.

The Committee noted that the proposed quarry site is located at a distance of 25m from the boundaries of Karianpalli Reserve Forest (RF) and the proposal is, therefore, hit by the above G.O. The Committee, therefore, **decided not to recommend the proposal and same was accepted in 498th meeting of SEIAA held on 08.04.2022.**

4. Subsequently, the above rule has been amended vide GO No. 243 Industries, Investment Promotion and Commerce (MMC.1) Department, dated 14.12.2022, as below.

“In the said rules, in rule 36, in Sub-rule (1-A), in Clause(e) for the expression “the National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors and Reserve Forests”, the expression “National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors” shall be substituted”.

5. Consequently, the proponent has re-presented/reapplied the proposal to reconsider the earlier decision based on the above G.O.
6. Now, the Proponent has resubmitted the same proposal vide online application No. **SIA/TN/MIN/416188/2023 dated.30.01.2023** (File No. 9821/2023) with all necessary supporting documents in order to obtain Environmental Clearance.

Description	Old File	New File
File No	8475	9821
Online Proposal No for EC	SIA/TN/MIN/204494/2021 dt: 19.03.2021	SIA/TN/MIN/416188/2023 dated.30.01.2023


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

File No	9821		Category	1(a)
	SIA/TN/MIN/416188/2023			B2
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	M/s. SKS Builders and Promoters No. 132/1, Kaveri Avenue, MDS Nagar Main Road, Hasthampatti, Salem – 636 007.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	16/1.16/2A,16/2B and 20	
4.	Village in which situated	:	Chinnabalinaickanpalayam	
5.	Taluk in which situated	:	Shoolagiri	
6.	District in which situated	:	Krishnagiri	
7.	Extent of quarry (in ha.)	:	1.05.0ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°40'10.76"N to 12°40'62.07"N 78°05'02.69"E to 78°05'04.85"N	
9.	Topo Sheet No.	:	57-L/2	
10.	Type of mining	:	Opencast Semi mechanized Mining	
11.	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved <u>Mining Plan</u>	As modified by <u>SEAC</u>
	Geological Resources m ³ (RoM)	:	Rough Stone – 5,07,633	Rough stone – 2,06,724
		:	Topsoil – 11,063	Topsoil – 4922
	Mina ble Resources m ³ (RoM)	:	Rough Stone – 1,19,952	Rough Stone – 85,652
:		Topsoil – 4336	Top - 2996	
Annual Peak Production in m ³	:	Rough Stone – 26,292	Rough Stone – 13,440	
	:	Topsoil - 2996	Topsoil - 2996	


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	Maximum Depth in meters	:	50m (14m AGL + 36m BGL)	31m (14m AGL + 17m BGL)
13.	Depth of water table	:	62m (BGL)	
14.	Man Power requirement per day:	:	15 Nos	
15.	Water requirement: 1. Drinking & domestic purposes 2. Dust suppression 3. Green belt	:	2.0 KLD 1.0 KLD 0.5 KLD 0.5. KLD	
16.	Power requirement		96,688 litres of HSD for the entire project life	
17.	Precise area communication approved by the Assistant Director (Addl. Charge), Dept. of G&M with date	:	Roc.No,1082/2019/Mines Dated:12.02.2021.	
18.	Mining Plan approved by the Assistant Director (Addl. Charge), Dept. of Geology and Mining with date	:	Roc.No,1082/2019/Mines Dated:24.02.2021.	
19.	500m cluster letter issued by the Joint Director, Assistant Director (Addl. Charge), Dept. of Geology and Mining with date		Roc.No,1082/2019/Mines Dated:02.03.2021.	
20.	VAO Certificate Regarding Structures within 300m Radius		Not furnished	
21.	Project Cost (excluding EMP cost)	:	Rs.45,20,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
				Rough Stone Topsoil
		:	Max Total RoM in m ³	56000 2996
		:	Annual Max RoM in m ³	13440 2996


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		:	Max Depth in mtrs	31m (14m AGL + 17m BGL)	1m
23.	EMP cost (in Rs. Lakh).	:	Capital Cost: Rs.19.15 Lakhs Recurring Cost: Rs.12.17 Lakhs		
24.	CER cost (in Rs. Lakh).	:	Rs.5,00,000/-		

The Committee considering the safety aspects, decided to recommend the proposal for the revised quantity as follows:

YEAR	ROUGHSTONE	TOPSOIL
I	10640	2996
II	13440	-
III	12040	-
IV	10640	-
V	9240	-
Sub Total	56000	2996

Based on the presentation and documents furnished by the project proponent, after detailed deliberations, **SEAC taking into consideration of the safety aspects, decided to recommend the proposal for the grant of Environmental Clearance only for Block-I pertaining to the S.F.Nos. 16/1,16/2A,16/2B for the revised quantity of 56,000m³ of Rough Stone & 2996m³ of topsoil with maintaining an ultimate depth of 31m (14m AGL + 17m BGL) and the annual peak production of not exceeding 13,440m³ of rough stone & 2996m³ of topsoil, subject to the standard conditions as per the Annexure of this minutes & normal conditions stipulated by MOEF&CC, in addition to the following specific conditions:**

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

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

- 2) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 3) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 4) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) 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.
- 8) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 9) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.


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- 10) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 11) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 12) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.
- 13) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 14) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 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) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 17) 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.

- 18) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
- 19) 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.
- 20) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 21) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 22) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 23) The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
- 24) The PP shall ensure that the following provisions are provided due to the existence of Reserved Forest/Reserve Land at a distance of less than 1km from the project site:


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- i. Since the R.F is located very close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in two rows) along the boundary of the mine lease area before obtaining the CTO from the TNPCB.
- ii. The proponent shall construct and maintain proper fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forest before the commencement of the operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
- iii. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate dumps positioned in opposite direction to the location of the reserved forest.
- iv. The PP shall ensure that such waste/reject dumps shall be properly secured to prevent escape of material there from in harmful quantities which may cause degradation of environment and to prevent causation of floods.
- v. The PP shall select the site for dumps on impervious ground to ensure minimum leaching effects due to precipitations.
- vi. The PP shall take necessary steps that wherever possible, the waste rock, overburden etc. shall be back-filled into the mine excavations with a view to restoring the land to its original use as far as possible.
- vii. Wherever back-filling of waste rock in the area excavated during mining operations is not feasible, the PP shall take adequate steps in discussion with the concerned DFO to suitably terrace the waste dumps placed within the lease hold area ensuring the stability through vegetation to consolidate the green belt development in the areas adjacent to the reserved forest location.
- viii. The PP shall carry out the scientific investigations in order to keep the ground and noise vibrations caused by blasting operations and movement of HEMM such as Excavators, Trucks within safe limit.


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- ix. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.
- x. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying operations within 'Permissible Limits' specified under the environmental laws.
- xi. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.
- xii. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry out the quarrying on steep hill slopes with a gradient of 20° or more / areas with a high degree of erosion on forestland.
- xiii. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco-sensitive Zone of 60 m without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.
- xiv. The PP shall not use plastic carry bags within the quarry area.
- xv. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free from blockage for runoff disposals. This run off from the road side drainage shall relate to the natural drainage system in the area.

25) The PP shall adhere to the provisions of the MoEF had issued Notification No. S.O. 1545 dated 25th June 2009 regulating certain activities in the eco-sensitive zone to conserve and protect the reserved forest area from ecological and environmental point of view.


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- 26)The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.
- 27)Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 28)The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
- 29)The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 30) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
- 31) To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
- 32)The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
- 33)The project proponent shall ensure that the provisions of the MMDR Act, 1957&the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are compiled by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and

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

- 34)The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
- 35)The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 36)All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.
- 37)That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
- 38)As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
- 39)The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.


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

41) As accepted by the Project Proponent the CER cost of Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Primary School, Ponnal Nattham before obtaining CTO from TNPCB.

Agenda No: 374 -13

(File No: 9815/2023)

Proposed Multi Colour Granite Quarry over an extent of 2.00.0 Ha in SF.No. 26/1B2 at Kurandi Village, Kariapatti Taluk, Virudhunagar District, Tamil Nadu by Tvl. Rising Sun Enterprises - For Environmental Clearance. (SIA/TN/MIN/417031/2023, Dt. 04.02.2023)

The proposal was placed in the 374th SEAC Meeting held on 03.05.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).


The SEAC noted the following:

1. The Project Proponent, Tvl. Rising Sun Enterprises has applied for Environmental Clearance for the Proposed Multi Colour Granite Quarry over an extent of 2.00.0 Ha in SF.No. 26/1B2 of Kurandi Village, Kariapatti Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 20 years. The mining plan is for the period of five years & the production should not exceed 45,300m³ of RoM , 13,590m³ of Multi-Colour Granite @ Recovery 30%, 31,710m³ of Granite waste @ 70%, 29,502m³ of weathered rock & 10,488 m³ of Topsoil with an ultimate depth of mining is 29m BGL. The annual peak production is 9,300m³ of RoM (2nd Year) , 2,790m³ of Multi-Colour Granite @ Recovery 60% (2nd Year) , 6510m³ of Granite waste @70% (2nd Year) , 15,444m³ of weathered rock (2nd Year) & 5,382m³ of Topsoil (2nd Year) .

Sl. No	Details of the Proposal	Data Furnished
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1	Name of the Owner/Firm	Tvl Rising Sun Enterprises Flat no:59, Kurnji Street, Kumaran Nagar Padi Chennai
2	Type of quarrying	Multi Colour Granite
3	S.F No. of the quarry site	26/1B2
4	Village in which situated	Kurandi
5	Taluk in which situated	Kariapatti
6	District in which situated	Virudhunagar
7	Extent of quarry (in ha.)	2.00.0Ha
8	Latitude & Longitude of all corners of the quarry site	09°45'40.6295"N to 09°45'45.0313"N 09°45'40.6295"N to 09°45'45.0313"N
9	Topo Sheet No.	58K/01
10	Type of mining	Opencast semi Mechanized Mining
	Lease Period of proposed Quarry	20 years
11	Validity of Annual mine plan	20 years
	Production and Development Plan Period	First 5 years
12	Production (Quantity in m ³)	This mining plan is for the period of first five years & the production should not exceed 45,300m ³ of RoM , 13,590m ³ of Multi-Colour Granite @ Recovery 30%, 31,710m ³ of Granite waste @ 70%, 29,502m ³ of weathered rock & 10,488 m ³ of Topsoil with an ultimate depth of mining is 34m BGL. The annual peak production is 9,300m ³ of RoM (2 nd Year) , 2,790m ³ of Multi-Colour Granite @ Recovery 60% (2 nd Year) , 6510m ³ of Granite waste @70% (2 nd Year) , 15,444m ³ of weathered rock (2 nd Year) & 5,382m ³ of Topsoil (2 nd Year) .


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13	Ultimate Depth of mining	34m Below Ground level
14	Depth of water table	52m BGL
15	Man Power requirement	38 Employees
16	Water requirement:	1.8 KLD
	4. Drinking water & Domestic purpose	0.3 KLD
	5. Dust suppression	0.7 KLD
	6. Green Belt	0.8 KLD
17	Power requirement	TNEB 7,067Ltrs of HSD
18	Precise area communication approved by the Industries Department	Lr. No. 3265468/MMB.2/2022-1, Dated: 24.11.2022
19	Mining Plan approved by Commissioner, Dept. of Geology and Mining with date	Rc. No. 4811/MM2/2022, dated: 13.12.2022
20	500mts letter approved by the Assistant Director, Department of Geology and Mining with date	Roc.No.KV1/745/2022, Dated:25.12.2022
21	VAO certificate regarding 300m radius cluster	Letter dated:15.12.2022
22	Project Cost	Rs. 2,95,40,000
23	EMP cost	Rs.45.45 Lakhs
24	CER cost	Rs.5 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance for the annual peak production not exceeding 9,300m³ of RoM by maintaining the ultimate pit depth of 34 m as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions.**


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1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall inform/send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
3. The PP shall extract the dimensional stone blocks through non-explosive techniques such that the surrounding structures are not impacted.
4. 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.
5. 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.
6. 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.
7. The PP shall ensure that the Diamond Wire Saw Machine Operators/Technicians shall be adequately trained in safe operation/proper maintenance of Machine and the rope.
8. In the interest of safety, the PP of the planned quarry where the Diamond Wire Saw Machines are proposed and OEM of such machines are advised to comply with the safety provisions as given in DGMS (Tech) Circular No. 02 of 2019 so that accidents are mitigated adequately.
9. The PP shall conduct a Slope Stability study after a period of five years from the commencement of quarrying operation through any reputed scientific institution such as NIRM, IIT(ISM), NITK Surathkal-Dept of Mining Engg, Anna University


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Chennai – CEG Campus and any other CSIR labs, to study the efficacy of the slope stability of highwall in the proposed quarry for the safe operation.

10. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained properly.
11. 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.
12. The proponent shall obtain a 'Star Rating' system awarded by Anna University, Chennai annually to the mining lease being operated for their efforts and initiatives taken for successful implementation of the Sustainable Development Framework (SDF).
13. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
14. Since many water bodies are located nearby, the PP shall carry out the comprehensive hydrogeological studies once in two years to monitor 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, 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.

15. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
16. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
17. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
18. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
19. As accepted by the Project proponent the CER cost is Rs.5,00,000 lakhs and the amount shall be spent for the Government High School, Kurandi, Virudhunagar, as committed, before obtaining CTO from TNPCB.

Agenda No: 374 -14

(New File No: 9822/2023)

Proposed Rough stone quarry over an extent of 1.10.0Ha in SF.No.19(part) at Chinnabalinaickanpalayam Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. SKS Builders and Promoters - For Environmental Clearance. (SIA/TN/MIN/416375/2023,Dt. 30.01.2023)

The proposal was placed for appraisal in 244th meeting of SEAC held on 09.02.2022. 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, M/s.SKS Builders & Promoters has applied for Environmental Clearance for the proposed Rough Stone quarry over an extent of 1.10.0 Ha located at S.F. No. 19(Part), Chinnabalinaickanpalayam Village, Shoolagiri 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. As per the mining plan the lease period is 10 years. The mining plan is for the period of five years & the production should not exceed 2,06,192m³ of Rough


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Stone & 11,070m³ of Topsoil with an ultimate depth of mining is 36m (6m AGL+ 30m BGL). The annual peak production is 55,188m³ of Rough Stone (2nd year) & 11070 m³ of Topsoil (1st year).

After examining the documents & project proposals furnished by the project proponent and based on the presentations & detailed deliberations, SEAC noted that in G.O(MS) No. 295 dated 03.11.2021, the Government in Industries Department has notified the following Rules specifying certain conditions for permitting mining activities near ecologically sensitive areas.

" ... No quarrying or mining or crushing activities shall be carried out within one kilometer radial distance or the protective distance as notified by the Ministry of Environment, Forest and Climate Change, Government of India from time to time, whichever is more, from the boundaries of ecologically sensitive areas, environmentally and ecologically sensitive protected areas such as the National parks, Wild life Sanctuaries, Tiger Reserves, Elephant corridors and Reserve Forests".


The Committee noted that the Kariyanpalli-II Reserve Forest is located at a distance of 140m west from this project site and the proposal is, therefore, hit by the above G.O. The Committee, therefore, decided not to recommend the proposal.

Now the proposal was placed in the 374th SEAC Meeting held on 03.05.2023.

As per the G.O. (Ms.) No. 243 industries, Investment promotion and Commerce (MMC.1) Department dated 14.12.2022, Amendment to the Tamil Nadu Minor Mineral Concession Rules, 1959 as follows,

"In the said rules, In rule 36, in Sub-rule (1-A), in Clause(e) for the expression "the National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors and Reserve Forests", the expression "National Parks, Wild Life Sanctuaries, Tiger Reserves, Elephant Corridors" shall be substituted".


The proposal is near the Karappattu Reserve Forest based on the above said G.O. The Proponent has resubmitted the same proposal on 30.01.2023 with all necessary supporting documents in order to obtain Environmental Clearance.


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Description	Old File	New File
File No	8742	9822
Online Proposal No for EC	SIA/TN/MIN/225910/2021. Dated 23.8.2021	SIA/TN/MIN/416375/2023 Dated 30.01.2023

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	M/s.SKS Builders and Promoters No.132/1, Kaveri Avenue, Mds nagar main road Hasthamapatti salem-636007
2	Type of quarrying	Rough Stone
3	S.F No. of the quarry site	19(part)
4	Village in which situated	Chinnabalinaickanpalayam
5	Taluk in which situated	Shoolagiri
6	District in which situated	Krishnagiri
7	Extent of quarry (in ha.)	1.10.0Ha
8	Latitude & Longitude of all corners of the quarry site	12°39'55.46"N to 12°39'58.77"N 78°05'07.24"E to 78°05'11.40"E
9	Topo Sheet No.	57-L/2
10	Type of mining	Opencast semi Mechanized of Mining
	Lease period of the Quarry	10 years
11	Period of current mine plan	5 years
12	Production (Quantity in m ³)	The production should not exceed initially for the first five years- 2,06,192m ³ of Rough Stone & 11,070m ³ of Topsoil with an ultimate depth of mining is 36m (6m AGL+ 30m BGL). The annual peak


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		production is 55,188m ³ of Rough Stone (2 nd year) & 11070 m ³ of Topsoil (1 st year).
13	Ultimate Depth of mining	36m (6m AGL+ 30m BGL)
14	Depth of water table	62m BGL
15	Man Power requirement	15 Employees
16	Water requirement: 1. Domestic & Flushing 2. Dust suppression 3. Green Belt	2.0 KLD 0.5 KLD 1.0 KLD 0.5 KLD
17	Power requirement	TNEB 1,66,810 litres of HSD for the entire period of life
18	Precise area communication approved by the Assistant Director (Addl.charge).Dept. of Geology and Mining with date	Roc.No.275/2021/Mines, dated 14.06.2021
19	Mining Plan approved by Assistant Director (Addl.charge), Dept. of Geology and Mining with date	Rc.No.275/2021/Mines, dated 20.07.2021
20	500m cluster letter issued by the Assistant Director (Addl.charge), Dept. of Geology and Mining with date	Roc.No.275/2021/Mines, dated 22.07.2021
21	VAO certificate regarding habitations in 300m radius	Letter dated: 20.07.2021
22	Project Cost (excluding EMP)	Rs.48,40,000
23	EMP cost	Rs.223.41 lakhs
24	CER Cost	Rs.5 lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a production quantity of 2,06,192m³ of Rough Stone & 11,070m³ of Topsoil to a depth of 36m (6m AGL+ 30m BGL) with annual peak production shall not exceed 55,188m³ of Rough Stone as per the approved mining plan subject to the standard conditions as


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

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 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 PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial & Refresher' training accordingly under Mines Vocational Training Rules 1961 in the DGMS approved Group Vocational Training Centre, Salem (or) Trichy 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) before obtaining the CTO from TNPCB.
7. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.


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8. The Project Proponent (PP) shall submit a 'Slope stability action plan' for the existing quarry incorporating the haul road within the permissible gradient keeping the benches intact with proper geometry after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
9. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry when the depth of the working touches 30m (or) during the 3rd year whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Miners' Health - KGF, NIT Surathkal – Dept of Mining Engg, 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.
10. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
11. **The PP shall ensure that the following provisions are provided due to the existence of Reserved Forest at a distance of 80 m:**
 - i. Since the R.F is located very close to the proposed quarry site, the PP shall develop Green Belt (Thick Tree plantation in three rows) along the boundary of the mine lease area before obtaining the CTO from the TNPCB.
 - ii. The proponent shall construct and maintain proper fencing all around the boundary of the proposed working quarry adjacent to the direction of the location of the Reserved Forest before the commencement of the operation and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
 - iii. The PP shall take steps so that the overburden, waste rock, rejects and fines generated during the mining operations shall be stored in separate dumps positioned in opposite direction to the location of the reserved forest.

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


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hence the PP shall not even indulge in constructing the haul roads in these areas.

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

12. Since few structures are located within 500 m from the lease boundary, the PP shall carry out only one round of controlled blast only per day, restricted to the maximum of 40 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


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

13. However, within six months from the commencement of mining operations after obtaining prior permission from the DMS/Chennai Region, 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.
14. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
15. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
16. 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.
17. 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.
18. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and


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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. 22-65/2017-1A.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.5,00,000 lakhs and the amount shall be spent for the Government Middle School, Pasathapalli Village as committed, before obtaining CTO from TNPCB.

Agenda No: 374 -15

(File No: 9829/2023)

Proposed Rough Stone & Gravel quarry over an extent of 1.27.5 Ha in SF.No. 17/5, 17/6, 102/1, 102/2 and 102/3 at Kolliyankunam village, Tindivanam Taluk, Villupuram District, Tamil Nadu by Thiru. J.Selvaraj - For Environmental Clearance. (SIA/TN/MIN/417690/2023, Dt.03.05.2023)

The proposal was placed in the 374th SEAC Meeting held on 03.05.2023. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

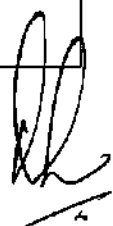
The SEAC noted the following:

1. The Project Proponent, Thiru. J.Selvaraj has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry over an extent of 1.27.5 Ha in SF.No. 17/5, 17/6, 102/1, 102/2 and 102/3 of Kolliyankunam village, Tindivanam Taluk, Villupuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) " Mining of mineral of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 10 years. The mining plan is for the period of five years & the production should not exceed 88,807m³ of Rough Stone & 16,534m³ of Gravel with an ultimate depth of mining is 20m BGL (2m Gravel + 18m Rough Stone). The annual peak production is 19,640m³ of Rough Stone (4th year) & 13342m³ of Gravel (1st year).

Sl. No	Details of the Proposal	Data Furnished
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1	Name of the Owner/Firm	Thiru.J.Selvaraj, S/o.Jeyaraman, No.23, Mettu Street, Edapalayam Village, Tindivanam Taluk, Villupuram District – 604302.
2	Type of quarrying	Rough Stone & Gravel
3	S.F No. of the quarry site	17/5, 17/6, 102/1, 102/2 and 102/3
4	Village in which situated	Kolliyankunam
5	Taluk in which situated	Tindivanam
6	District in which situated	Villupuram
7	Extent of quarry (in ha.)	1.27.5Ha
8	Latitude & Longitude of all corners of the quarry site	12°8'12.32"N to 12°8'17.53"N 79°36'38.76"E to 79°36'42.67"E
9	Topo Sheet No.	57-P/12
10	Type of mining	Opencast semi Mechanized of Mining
11	Period of current mine plan	5 years
12	Production (Quantity in m ³)	As per the mining plan the lease period is 10 years. The mining plan is for the period of five years & the production should not exceed 88,807m ³ of Rough Stone & 16,534m ³ of Gravel with an ultimate depth of mining is 20m BGL (2m Gravel + 18m Rough Stone). The annual peak production is 19,640m ³ of Rough Stone (4 th year) & 13342m ³ of Gravel (1 st year).
13	Depth of mining	20m BGL (2m Gravel + 18m Rough Stone)
14	Depth of water table	65m in summer season – 60m in rainy season BGL
15	Man Power requirement	13 Employees
16	Water requirement: 1. Domestic & Flushing 2. Dust suppression 3. Green Belt	2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD


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17	Power requirement	TNEB 73,800 litres of HSD for the entire period of life
18	Precise area communication approved by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.B/G&M/933/2011 Dated: 29.12.2022
19	Mining Plan approved by Deputy Director, Dept. of Geology and Mining with date	Rc.No.B/G & M/933/2011 Dated: 11.01.2023
20	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining with date	Rc.No.B/G & M/933/2011 Dated: 11.01.2023
21	VAO certificate regarding habitations in 300m radius	Letter dated: 08.01.2023
22	Project Cost (excluding EMP)	Rs.56.00,000
23	EMP cost	Rs.170.59 lakhs
24	CER Cost	Rs. 6.60 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 a production quantity of 88,807m³ of Rough Stone & 16,534m³ of Gravel to a depth of 20m BGL with annual peak production shall not exceed 19,640m³ of Rough Stone and 13,342m³ of Gravel as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions.

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall inform 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 PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial & Refresher' training accordingly under Mines Vocational Training Rules 1961 in the DGMS approved Group Vocational Training Centre, Salem (or) Trichy 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) before obtaining the CTO from TNPCB.
7. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
8. The Project Proponent (PP) shall submit a 'Slope stability action plan' for the existing quarry incorporating the haul road within the permissible gradient keeping the benches intact with proper geometry after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
9. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry when the depth of the working touches 30m (or) during the 3rd year whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, National Institute of Miners' Health - KGF, NIT Surathkal - Dept of Mining Engg, Anna University Chennai-CEG


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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.

10. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
11. Since few structures are located within 500 m from the lease boundary, the PP shall carry out only one round of controlled blast only per day, restricted to the maximum of 40 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 10 m from the site of blasting. The PP shall also ensure that the blasting operation shall be carried out once in 2 days to reduce the environmental impacts effectively.
12. However, within six months from the commencement of mining operations after obtaining prior permission from the DMS/Chennai Region, 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.
13. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
14. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.

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 Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
20. As accepted by the Project proponent the CER cost is Rs.6.60 lakhs and the amount shall be spent for the Government High School, Chinnanerkunam Village as committed, before obtaining CTO from TNPCB.

Agenda No: 374 - 16

(File No: 9802/2023)

Proposed validity extension of existing Rough Stone quarry lease area over an extent of Extent 3.7.0 Ha at S.F.No. 401(p) Kalappannahalli Village, Karimangalam Taluk, Dharmapuri District, Tamil Nadu by Tmt M Malliga - For Environmental Clearance. (SIA/TN/MIN/297294/2023, Dated: 03.02.2023)

The proposal was placed for appraisal in this 374th meeting of SEAC held on 03.05.2023. 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, Tmt M Malliga has applied for extension of


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Environmental Clearance issued for the existing Rough Stone quarry lease area over an extent of Extent 3.7.0 Ha at S.F.No. 401(p) Kalappanahalli Village, Karimangalam Taluk, Dharmapuri District, Tamil Nadu. Govt Promboke land.

2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 10 years. The production for 5 years not to exceed 755480m³ of Rough Stone to an ultimate depth of Mining 54m (4m Above ground level + 50m below ground level).

During the meeting the PP has stated that he would like to withdraw the proposal, and SEAC, therefore, decided to defer the proposal.

Agenda No: 374 - 17

(File No: 9823/2023)

Proposed Rough Stone quarry lease area over an extent of 4.00.0 Ha in 16/4(P) Therkusanthanoor village, Manamadurai Taluk, Sivagangai District, Tamil Nadu by Thiru.A.Balachandran - For Environmental Clearance. (SIA/TN/MIN/416345/2023, Dated: 13.02.2023)

The proposal was placed for appraisal in this 374th meeting of SEAC held on 03.05.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru.A.Balachandran has applied for Environmental Clearance for the proposed Rough Stone quarry lease area over an extent of Extent 34.00.0 Ha in 16/4(P) Therkusanthanoor village, Manamadurai Taluk, Sivagangai 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. As per the mining plan, the lease period is for 18 months. The production for 18 months not to exceed 55,296m³ Gravel to an ultimate depth of Mining 2m BGL.

The Committee examined the proposal submitted by the proponent in the light of the Judgment issued by the Hon'ble Madurai Bench of Madras High Court in


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

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

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

In the present case, quarry lease for gravel in patta land is for a period less than one year and hence the Committee decided **not to recommend the proposal** for grant of Environmental Clearance.

Now, the PP has obtained revised mining plan for the period of 18 months and applied for Environmental Clearance.

Description	Old File	New File
File No	File No: 8465/2021	File No: 9823/2023
Online Proposal No for EC	(SIA/TN/MIN/203837/2021 , dated:16.03.2021)	SIA/TN/MIN/416345/2023, Dated: 13.02.2023

Sl. No.	Details of the Proposal	Data Furnished
1.	Name of the Owner / Firm	A.Balachandran, S/o. M.Ayyanar, No.37, Periasamy Konar Stree, Thathaneri,


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		Madurai District. Pin Code: 625018
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Gravel quarry
3.	S.F No. of the quarry site with area break-up	16/4(P)
4.	Village in which situated	Therkusanthanoor Village
5.	Taluk in which situated	Manamadurai Taluk
6.	District in which situated	Sivagangai District
7.	Extent of Quarry (in ha.)	4.00.0 Ha
8.	Latitude & Longitude of all corners of the quarry site	09°38'02.96"N to 09°38'09.43"N 78°29'12.97"E to 78°29'21.56"E
9.	Topo sheet No.	58 K/06 & 58/K10
10.	Type of Mining	Opencast Method of Shallow Mining
11.	Period of Quarrying proposed	Eighteen Months
12.	Production (Quantity in m ³)	55,296m ³ Gravel
13.	Depth of quarrying	2m BGL
14.	Depth of water table	30m (BGL)
15.	Man power requirement per day:	7 Employees
16.	Source of Water Requirement	Vendors and Existing Bore Well on nearby quarry area
17.	Water requirement: 1. Drinking & domestic purposed (in KLD) 2. Dust Suppression, Green Belt & Drilling (in KLD)	1.5 KLD 0.5 KLD 0.5 KLD 0.5 KLD
18.	Power requirement: a) Domestic purpose b) Industrial Propose	TNEB 2.840 Liters of HSD
19.	Whether any habitation within 300m distance	No
20.	Precise Area Communication approved by the, Assistant Director, Department of Geology and Mining, with date	Rc. No. 497/Mines/2016, Dated:13.10.2022
21.	Mining plan approved by Assistant Director, Department of Geology and Mining, with date	Rc. No. 497/Mines/2016, Dated: 13.10.2022.

22	Assistant Director, Department of Geology and Mining, with date 500mts letter	Rc. No. 497/Mines/2016, Dated: 17.11.2022.
23	VAO Certificate regarding 300m Radius letter dated	16.01.2022
24	Project cost (excluding EMP cost)	Rs.11.02Lakhs
25	EMP cost	Rs.1.50Lakhs
26	CER cost	2 Lakhs as per SEAC Minutes

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the period of 18 months and the quantity shall not exceed 55,296m³ Gravel to an ultimate depth of Mining 2m BGL subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952.
3. The PP shall provide garland drain for free flow of surface run off water.
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 develop the Green belt activities (tree plantations of two to three rows) in the safety zone as stipulated in the Mining Plan around the periphery of the proposed quarry lease before obtaining the CTO from the TNPCB.
6. The Project Proponent shall not carry out blasting operations.
7. 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.


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8. The PP shall ensure that the transport vehicles used in the quarry are adequately covered with tarpaulin before it is allowed to enter into the adjacent village panchayat road.
9. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50m safety distance from water body should be maintained without carrying any activity. 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.
10. 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.
11. 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.
12. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
13. 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.
14. 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.
15. As accepted by the Project proponent the CER cost is Rs. 2 lakhs and the amount shall be spent for the Govt School in Therkusanthanoor village as committed, before obtaining CTO from TNPCB.

Agenda No: 374- 18

(File No: 9817/2023)

Proposed Gravel Quarry lease over an extent of 4.67.0Ha S.F.No.20/1, 20/2, 20/3, 20/4, 20/5, 20/6, 20/7, 20/8, 20/9, 20/10, 20/11, 22/1A, 22/6 and 22/7B, Kalbavi Village, Bhavani Taluk, Erode District by Thiru.G.Parameshwaran_– for Environmental Clearance. (SIA/TN/MIN/417475/2023, dt: 08.02.2023)


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The proposal was placed in 374th SEAC meeting held on 03.05.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.G.Parameshwaran has applied for Environmental Clearance for the Proposed Gravel Quarry lease over an extent of 4.67.0Ha S.F.No.20/1, 20/2, 20/3, 20/4, 20/5, 20/6, 20/7, 20/8, 20/9, 20/10, 20/11, 22/1A, 22/6 and 22/7B, Kalbavi Village, Bhavani Taluk, Erode District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication is issued for the period of 2Years. The approved mining plan is for the period of 2 years & production should not exceed 49212m³ of Gravel and the annual peak production shall not exceed 25038 m³ Gravel. The ultimate depth of mining is 2m.

Sl. No	Details of the Proposal	:	Data Furnished
1.	Name of the Owner/Firm	:	Thiru.G.Parameshwaran, S/o.Govindan, No.39, Mariyamman Kovil Street, Chinnamolapalayam, Jambai post, Erode District – 638312.
2.	Type of quarrying (Savudu/Rough Stone/ Sand/ Granite)	:	Gravel
3.	S.F No. Of the quarry site with area break-up	:	20/1, 20/2, 20/3, 20/4, 20/5, 20/6, 20/7, 20/8, 20/9, 20/10, 20/11, 22/1A, 22/6 and 22/7B
4.	Village in which situated	:	Kalbavi
5.	Taluk in which situated	:	Bhavani
6.	District in which situated	:	Erode
7.	Extent of quarry (in ha.)	:	4.67.0Ha


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8.	Latitude & Longitude of all corners of the quarry site	:	11°32'57.6870"N to 11°33'07.0741"N 77°40'14.4781"E to 77°40'25.3474"E
9.	Topo Sheet No.	:	58- E/10
10.	Type of mining		Opencast Mechanized of Mining
11.	Period of quarrying proposed	:	2 Years
12.	Production (Quantity in m ³)	:	49212m ³ of Gravel
13.	Depth of quarrying	:	2m
14.	Depth of water table	:	47m BGL
15.	Man Power requirement per day:		8 Nos.
16.	Source of Water Requirement		water vendors
17.	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	1.5 KLD 0.8 KLD 0.5 KLD 0.2 KLD
18.	Power requirement a. Domestic Purpose b. Industrial purpose		TNEB 8200Liters of HSD
19.	Whether any habitation within 300m distance	:	No
20.	Precise area communication approved by the, District Collector, Department of Geology and Mining with date	:	Rc.No.266/Kanimam/2022, dt: 29.11.2022
21.	Mining Plan approved by Deputy Director, Department	:	Rc.No.266/Mines/2022, dt: 06.01.2023


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	of Geology and Mining with date		
22.	Deputy Director, Department of Geology and Mining 500m cluster letter	:	Rc.No.266/Mines/2022, dt: 09.01.2023
23.	Deputy Director, Department of Geology and Mining in regard to Rivers, Streams, Canals,etc & protected areas letter	:	Lr. Dt:27.04.2023
24.	Soil Test Report	:	Lr. Dt:15.07.2022 from Dept. of Technical Education, Government College of Technology, Coimbatore.
25.	VAO certificate regarding 300m radius cluster	:	Letter dt: 08.12.2022
26.	DFO letter	:	DFO, Erode Lr. Dt:28.04.2023
27.	Project Cost (excluding EMP cost)	:	Rs.44.09 Lakhs
28.	EMP cost	:	Rs.38.5 Lakhs/ 2 Years
29.	CER cost	:	Rs.2 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 period of 2 Years and the quantity shall not exceed 49212m³ of Gravel and the annual peak production shall not exceed 25038 m³ Gravel and the depth of mining upto 2m BGL subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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


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

2. The mine manager and other statutory competent persons shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952.
3. 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.
4. The Project Proponent shall develop the Green belt activities (tree plantations of two to three rows) in the safety zone as stipulated in the Mining Plan around the periphery of the proposed quarry lease before obtaining the CTO from the TNPCB.
5. The Project Proponent shall not carry out blasting operations.
6. 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.
7. The PP shall ensure that the transport vehicles used in the quarry are adequately covered with tarpaulin before it is allowed to enter into the adjacent village panchayat road.
8. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50m safety distance from water body should be maintained without carrying any activity. 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.
9. 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.
10. 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.

11. 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.
12. 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.
13. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
14. As accepted by the Project proponent the CER cost is Rs. 2 lakhs and the amount shall be spent for the *Panchayat Union Primary School, Aandipalayam, Mylambadi, Bhavani Taluk, Erode District* as committed, before obtaining CTO from TNPCB.

Agenda No: 374-19

(File No: 9831/2023)

Proposed Rough Stone & Gravel Quarry lease over an extent of 1.94.50Ha S.F.No.87/2, Muruganeri Village, Peraiyur Taluk, Madurai District by Thiru.R.Balamurugan – for Environmental Clearance. (SIA/TN/MIN/418397/2023, dt:15.02.2023)

The proposal was placed in 374th SEAC meeting held on 03.05.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.R.Balamurugan has applied for Environmental Clearance for the Proposed Rough Stone & Gravel Quarry lease over an extent of 1.94.50Ha S.F.No.87/2, Muruganeri Village, Peraiyur Taluk, Madurai District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication is issued for the period of 10 Years. The approved mining plan is for the period of five years & production should not exceed 202265m³ of Rough Stone & 44016m³ of Gravel and the annual peak production shall not exceed 42925 m³ of Rough Stone & 27552 m³ of Gravel. The ultimate depth is 38m BGL.


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Sl. No	Details of the Proposal	:	Data Furnished
1	Name of the Owner/Firm	:	Thiru.R.Balammurugan, S/o.Raji, Door No.11-1—62, Namachivayam Pillai Street, T.Kallupatti, Peraiyur Taluk, Madurai District
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Rough Stone & Gravel
3	S.F No. Of the quarry site with area break-up	:	87/2
4	Village in which situated	:	Muruganeri
5	Taluk in which situated	:	Peraiyur
6	District in which situated	:	Madurai
7	Extent of quarry (in ha.)	:	1.94.50Ha
8	Latitude & Longitude of all corners of the quarry site	:	09°38'55.52"N to 09°39'01.40"N 77°47'53.61"E to 77°48'00.19"E
9	Topo Sheet No.	:	58- G/14
10	Type of mining		Opencast Semi Mechanized of Mining
11	Lease Period of quarrying proposed	:	10 years
	Validity of AMP		10 years
12	Production (Quantity in m ³)	:	202265m ³ of Rough Stone & 44016m ³ of Gravel
13	Depth of quarrying	:	38m
14	Depth of water table	:	58m-55m BGL
15	Man Power requirement per day:		23 Nos.
16	Source of Water Requirement		water vendors
17	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	2.00 KLD 1.00 KLD 0.50 KLD 0.50 KLD
18	Power requirement c. Domestic Purpose d. Industrial purpose		TNEB 169148Liters of HSD
19	Whether any habitation within 300m distance	:	No

20	Precise area communication approved by the, District Collector, Department of Geology and Mining with date	:	Rc.No.29/Kanimam/2020, dt: 08.12.2022
21	Mining Plan approved by Assistant Director(i/c), Department of Geology and Mining with date	:	Rc.No.29/Mines/2020, dt: 17.12.2022
22	Assistant Director(i/c), Department of Geology and Mining 500m cluster letter	:	Rc.No.29/Mines/2020, dt: 17.12.2022
23	VAO certificate regarding 300m radius cluster	:	Letter dt: 20.05.2022
24	Project Cost (excluding EMP cost)	:	Rs.70.87 Lakh
25	EMP cost	:	Rs.160.11 Lakhs/10 Years
26	CER cost	:	Rs.7 Lakhs including Rs. 2 Lakhs towards DFO, Srivilliputhur in regard to conservation measures for Srivilliputhur Giant Squirrel WLS.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the total production quantity shall not exceed 202265m³ of Rough Stone & 44016m³ of Gravel and the annual peak production shall not exceed 42925 m³ of Rough Stone & 27552 m³ of Gravel and the ultimate depth of mining upto 38m BGL and subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide **MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.**
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 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


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and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.

4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial & Refresher' training accordingly under Mines Vocational Training Rules 1961 in the DGMS approved Group Vocational Training Centre, Trichy 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) before obtaining the CTO from TNPCB.
7. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
8. The Project Proponent (PP) shall submit a 'Slope stability action plan' for the existing quarry incorporating the haul road within the permissible gradient keeping the benches intact with proper geometry after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
10. The PP shall carry out only one round of controlled blast only per day, restricted to the maximum of 40 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.

11. However, within one year from the commencement of mining operations after obtaining prior permission from the DMS/Chennai Region, 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.
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 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.
14. 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.
15. 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.
16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.


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17. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
20. As accepted by the Project proponent the CER cost is Rs.7.0 Lakhs in which the amount of Rs. 5 Lakhs shall be spent for the Panchayat Union Middle School, Muruganeri Village, T.Kallupatti Union, Madurai District and Rs. 2 Lakhs to DFO, Srivilliputhur in regard to conservation measures for Srivilliputhur Giant Squirrel WLS as committed, before obtaining CTO from TNPCB.

Agenda No: 374 - 20


(File No: 7016/2021)

Proposed Brick Earth quarry lease area over an extent of 2.07.0 Ha at S.F.Nos. 210/2, 209/5, 211/2, 209/7 and 210/5, Vengalur Group and Village, Paramakudi Taluk, Ramanathapuram District, Tamil Nadu by Thiru. R.Sankaranarayanan - For Environmental Clearance . (SIA/TN/MIN/40843/2019 Dt. 07.08.2019).

The proposal was placed in this 374th SEAC meeting held on 03.05.2023. The project proponent gave a detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
2. Earlier, this proposal was placed in the 268th SEAC Meeting held on 29.04.2022. Based on the presentation and document furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental


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Clearance, subject to the conditions as stated therein, in addition to the standard conditions issued by the MOEF & CC.

3. Subsequently, this proposal was placed in the 513rd Authority meeting held on 30.05.2022. The Authority after detailed discussion, decided to call for the following details from the project proponent.
 - To furnish the types of trees & No. of trees including (Palmyra trees) present within the proposed mine lease area.
4. Based on the proponent's reply vide letter dt: 27.06.2022, this proposal was again placed in the 551st Authority meeting held on 19.09.2022. After detailed discussion, the Authority decided to request the Member Secretary SEIAA-TN to refer back the proposal to SEAC-TN stating the following reasons,
 - i. The consent of Pattadhars not been registered.
 - ii. As per the order of Hon'ble Madurai Bench of Madras High Court Dated:28.08.2019 in WP (MD) No.20903 of 2016, the sand content should not be more than 40%. It is ascertained from the mineral composition analysis report issued by University of Engineering, Anna University, Dindigul, the sand content is more than 40%. The above said facts may be clarified.
 - iii. The kml file uploaded in the parivesh portal is not opening.
5. Further, this subject was again placed for reappraisal in the 322nd SEAC meeting held on 19.10.2022. Based on the presentation made by the proponent, SEAC noted and decided to call for details as follows,
 - The PP shall furnish registered consent document from all pattadhars.
 - The composition/component of the minerals proposed to be quarried shall be tested in the laboratories authorized by the Dept of Geology & Mining such as Dept of Civil Engineering, NIT Trichy (or) Anna University – Dept of Soil Mechanics, CEG Campus and forwarded through AD/DD Mines following the directions of the Madurai High Court Judgement in this regard. However, the soil sample shall be extracted from the proposed quarrying area following the guidelines stipulated by the Dept of Geology & Mining in the presence of the Consultant/EIA Coordinator


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using proper methods & tools. The test certificate shall be vetted by the concerned Asst Director (Geology and Mining).

- The proponent should produce a letter from the concerned Asst Director (Geology and Mining) stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones in terms of the above Judgment. On receipt of the above details, SEAC would further deliberate on this project and decide the further course of action.

6. Based on the proponent's reply vide letter dated: 23.01.2023, this proposal was again placed in the 359th SEAC meeting held on 02.03.2023. During the presentation, the SEAC noted the following.

- i. The PP has obtained consent registration from the pattadhars for these S.F.Nos. 209/5, 210/5, 211/2 only and the PP has requested EC for the same.
- ii. The PP has obtained mineral composition letter from Anna University, CEG Campus and the test report was vetted by the concerned Asst. Director (Geology and Mining) vide Roc.No.1421/G&M.1/2018, dated:20.01.2023.
- iii. The PP has obtained letter from the concerned Asst. Director (Geology and Mining) vide Roc.No.1421/G&M.1/2018, dated:09.11.2022 stating that the location of quarry site does not lie adjoining to the rivers, streams, canals etc., and also does not come under any notified/declared protected zones.

Based on the presentation made by the proponent and the documents, SEAC decided to reiterate its recommendation to the proposal for the grant of Environmental Clearance for quantity of 12,373 m³ of Brick Earth for the period of 1 year with maintaining an ultimate pit depth of 1m BGL.

Subsequently, this proposal was placed in the 605th SEIAA meeting held on 28.03.2023. The Authority noted that this proposal was placed for appraisal in this 359th meeting of SEAC held on 02.03.2023 and SEAC decided to recommend the proposal for the grant of Environmental Clearance over an extent of 2.07.0 ha for

quantity of 12,373 m³ of Brick Earth for the period of 1 year with maintaining an ultimate pit depth of 1m BGL, subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the specific conditions stated therein.

However, the PP has obtained consent registration from the pattadhars for these S.F.Nos. 209/5, 210/5, 211/2 only and the PP has requested EC for the same.

Meanwhile the PP has submitted revised production quantity of 8823 cu.m of brick earth over an extent of 1.40.0 ha (S.F.Nos:209/5, 210/5, 211/2) vide letter dated:25.03.2023.

After detailed discussion, the Authority decided to request the Member Secretary SEIAA-TN to refer back the proposal to SEAC-TN to obtain remarks on the revised quantity and revised area submitted by the PP.

Now, the proposal was placed for reappraisal in this 374th SEAC meeting held on 03.05.2023. The Project proponent made a presentation along with the clarifications for the above shortcomings observed by the SEIAA.


Production qty and area as per earlier recommendation	Revised production and area
12,373 cu.m of Brick Earth over an extent of 2.07.0 ha.	8,823 cu.m of Brick Earth over an extent of 1.40.0 ha.

The SEAC accepted the reply furnished by the Project Proponent and decided to reiterate the recommendations already made in its 268th SEAC Meeting held on 29.04.2022. All other conditions stipulated in the earlier minutes will remain unaltered.


Agenda No. 374-21

Technical opinion on Govt Letter No. 577/EC.3/2023-1 Dt. 17.2.2023 regarding exemption of Environmental Clearance for "linear project" as stipulated under Notification issued in S.O.No. 1224 (E), dated 28.03.2020 issued by the Ministry of Environment, Forest and Climate Change.

- The District Collector, Kanniyakumari has stated that Thiru K.P.Harichandran has preferred an application for grant of quarry lease for quarrying rough stone in S.F.Nos.508/2A, 508/2B1B, 508/282, 508/2B1A1, 508/2B3A, 508/2B3B, 508/2B4, 508/2B7A1, 508/5, 508/6, 508/7 & 508/2B7B3 over an extent of 1.54.36 hectares of patta lands of Thengapattinam village, Kiliyur Taluk, Kanyakumari District to supply rough stone for Government projects proposed


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for construction of Bait Curve, Groynes, jetty stone, Anti-Sea erosion wall and Fisheries Harbour works from Kovalam to Necrodi of Kanniyakumari District.


- The District Collector, Kanniyakumari has further stated that Government of Tamil Nadu Fisheries and Fishermen Welfare Department has prepared detailed project for a sum of Rs. 253 Crores and part of the said project works towards construction of Anti Sea erosion wall by Tvl.Sri Pathy Associates Pvt Ltd., under tender granted by Chief Engineer, Fisheries Department, Chennai.
- The District Collector, Kanniyakumari has further stated that work order was assigned by Tvl.Sri Pathy Associates Pvt Ltd., Thiru.K.P.Harichandran to supply rough stones for the projects of construction of Bait Curve, Gronynes, jetty stone, Anti-Sea erosion wall and Fisheries harbour works. In this regard, Thiru. K.P.Harichandran has preferred an application for grant of rough stone quarry lease for a period of to one year in S.F.Nos. 508/2A, 508/2B1B, 508/282, 508/2B1A1, 508/2B3A, 508/2B3B, 508/2B4, 508/2B7A1, 508/5, 508/6, 508/7 & 508/287B3 over an extent of 1.54.36 hectares of patta lands of Thengapattinam village, Kiliyur Taluk, Kanniyakumari District to supply rough stone for Government projects proposed for construction of Bait Curve, Groynes, jetty stone, Anti-Sea erosion wall and Fisheries harbour works from Kovalam to Neerodi of Kanniyakumari District.
- The District Collector, Kanniyakumari has further stated that there are about 10 project works on the lines stated above are to be carried out in 78 Kms length of coastal areas of Kanniyakumari District. The District Collector, Kanniyakumari has requested to give exemption from obtaining Environmental Clearance by considering these projects as "linear project" as stipulated under Notification issued in S.O.No. 1224 (E), dated 28.03.2020 issued by the Ministry of Environment, Forest and Climate Change.
- In this regard it is informed that Sl.No.6 of Appendix-IX of the Notification S.O.No. 1224 (E), dated 28.03.2020 issued by the Ministry of Environment, Forest and Climate Change read as "6.Extraction or sourcing or borrowing of ordinary earth for the linear projects such as roads, pipelines, etc., Whereas in

this instant case, the District Collector, Kanniyakumari has requested exemption from obtaining EC for extraction of rough stone.

- Meanwhile, the District Collector, Kanniyakumari has stated that the Executive Engineer, Fishing Harbour Project Division, Nagarcoil letter No.Va B/Ko.103/2A/2022, dated 09.01.2023 has informed that to avoid loss of lives happened oftenly in the fishing harbour of Thengapattinam, the State Government has issued orders in the year of 2020 for construction Anti-Sea erosion wall. Further informed that severity of high tides during April to September is high and caused loss 8 fishermen lives for the pa two years. More petitions were received from the fishermen community the Fishermen redressal programme with a request to speed up the works related to the said projects. Further informed that completion of Anti-Sea erosion wall construction work is considered very much essential to avoid the catastrophe caused by the high tides in the months of May, June and July. Further informed that the said projects in the Thengapattinam Fishing Harbour and harbor project works in the Kanniyakumari District have been slowed down because of the non-supply of rough stones to the said projects. Hence, The Executive Engineer, Fishing Harbour Project Division, Nagarcoil has requested to grant permission for quarrying rough stone to complete the said projects announced by the State Government and to avoid agitation of fishermen.
- The District Collector, Kanniyakumari has further stated that Section 34 (h) of the Disaster Management Act, 2005 read as "recommended to any Department of the Government of the State or any authority or body under that Government at the district level to take such measures as are necessary in its opinion. Hence, the District Collector, Kanniyakumari has requested for grant of exemption from obtaining EC and to permit Thiru. K.P.Harichandran for quarrying rough stone for completion of the Government projects proposed for construction of Bait Curve, Groynes, jetty stone, Anti-Sea erosion wall and Fisheries harbour works from Kovalam to Neerodi of Kanniyakumari District and to avoid loss of fishermen lives.


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- In view of the above, the Commissioner of Geology and Mining has further informed that for the purpose of assisting, protecting or providing relief to the fishermen community, in response to any threatening disaster situation or disaster, powers and functions of the District Authority has been delegated in Section 34 of the Disaster Management Act, 2005. To avoid loss of fishermen lives and for completion of Government projects to mitigate the effect of high tides stated above, the Commissioner of Geology and Mining has requested the Government to consider this instant case as a special case and to direct the District Collector, Kanniyakumari to invoke the powers conferred under Section 34 of the Disaster Management Act, 2005 and to grant exemption from obtaining EC as per MOEF Notification S.O.1224(E), dated 28.03.2020 Appendix-IX Serial No. 12 for extraction of rough stone in S.F.Nos.50872A, - 508/281b, 508/282, 508/2B1A1, 508/2B3A, 508/2B3B, 508/2B4, 508/2B7A1, 508/5, 508/6, 508/7 & 508/2B7B3 over an extent of 1.54.36 hectares of patta lands of Thengapattinam village, Kiliyur Taluk, Kanniyakumari District by Thiru, K.P.Harichandran to supply rough stone for Government projects proposed for construction of Bait Curve, Gronynes, jetty stone, Anti-Sea erosion wall and Fisheries harbour works from Kovalam to Neerodi of Kanniyakumari.

The said proposal was placed in 374th SEAC meeting held on 3.5.2023 and SEAC noted the following

The EIA Notification vide S.O.No. 1224 (E), dated 28.03.2020 has mentioned the following in Sl.No.6 of Appendix-IX

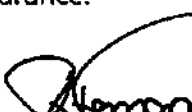
EXEMPTION OF CERTAIN CASES FROM REQUIREMENT OF ENVIRONMENTAL CLEARANCE

1. Extraction of ordinary clay or sand by manual mining, by the Kumhars (Potter) to prepare earthen pots, lamp, toys, etc. as per their customs.
2. Extraction of ordinary clay or sand by manual mining, by earthen tile makers who prepare earthen tiles.
3. Removal of sand deposits on agricultural field after flood by farmers.
4. Customary extraction of sand and ordinary earth from sources situated in Gram Panchayat for personal use or community work in village.

5. Community works, like, de-silting of village ponds or tanks, construction of village roads, ponds or bunds undertaken in Mahatma Gandhi National Rural Employment and Guarantee Schemes, other Government sponsored schemes and community efforts.
6. Extraction or sourcing or borrowing of ordinary earth for the linear projects such as roads, pipelines, etc.
7. Dredging and de-silting of dams, reservoirs, weirs, barrages, river and canals for the purpose of their maintenance, upkeep and disaster management.
8. Traditional occupational work of sand by Vanjara and Oads in Gujarat vide notification number GU/90(16)/MCR-2189(68)/5-CHH, dated the 14th February, 1990 of the Government of Gujarat.
9. Manual extraction of lime shells (dead shell), shrines, etc., within inter tidal zone by the traditional community.
10. Digging of wells for irrigation or drinking water purpose.
11. Digging of foundation for buildings, not requiring prior environmental clearance, as the case may be.
12. Excavation of ordinary earth or clay for plugging of any breach caused in canal, nallah, drain, water body, etc., to deal with any disaster or flood like situation upon orders of the District Collector or District Magistrate or any other Competent Authority.
13. Activities declared by the State Government under legislations or rules as non-mining activity."

The proposed activity extraction of rough stone in S.F.Nos.50872A, -508/281b, 508/282, 508/2B1A1, 508/2B3A, 508/2B3B, 508/2B4, 508/2B7A1, 508/5, 508/6, 508/7 & 508/2B7B3 over an extent of 1.54.36 hectares of patta lands of Thengapattinam village, Kiliyur Taluk, Kanniyakumari District by Thiru, K.P.Harichandran to supply rough stone for Government projects proposed for construction of Bait Curve, Gronynes, jetty stone, Anti-Sea erosion wall and Fisheries harbour works from Kovalam to Neerodi of Kanniyakumari .

Therefore, SEAC decided that the above activity requires prior Environmental Clearance.


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AGENDA No: 374 - 22

(File No: 8760/2022)

Proposed Rough stone & gravel quarry lease over an extent of 4.24.0 Ha at S.F.Nos.224/1, 224/3, 224/4, 224/5, 224/7, 227/2E1, 227/2E2, 227/2E3A, 227/2E3B, 227/2E6, 228/3 & 229/2 of Chithathoor village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu by Thiru. K.Boobalan - For Environmental Clearance. (SIA/TN/MIN/67032/2021, dated 24.08.2022)

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

The SEAC noted the following:

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

During the meeting the PP has stated that they were wrongly made the application in PARIVESH vide online application No. SIA/TN/MIN/67032/2021, dated 24.08.2022 and request for withdrawal and to consider the another file No. SIA/TN/MIN/421903/2023, dated 13/03/2022 . Therefore SEAC decided to defer the proposal and new proposal will be considered in forthcoming SEAC meeting.

Agenda No: 374-23

(File No: 4389/2022)

Existing Colour Granite quarry lease over an extent of 15.23.0 Ha S.F.Nos.76/1, Chendrapalli Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by M/s TAMIN - For amendment in Environmental Clearance issued. (SIA/TN/MIN/294190/2022 Dt: 18.11.2022)


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The proposal was earlier placed in the 291st SEAC meeting held on 02.07.2022. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

- In the Mineral Concession Rules, 1960, (hereinafter referred to as the principal rules), in rule 2, in sub rule (1), after clause (vii), the following clause is inserted, namely:-

'(vii a) "run-of-mine" means the raw, unprocessed or uncrushed material in its natural state obtained after blasting, digging, cutting or scraping from the mineralized zone of a lease area;'

- The PP has issued with Environmental Clearance vide Lr.No.SEIAA-TN/F.No. 4389/EC/1(a).3975/2018 Dt. 30.4.2018 for the production of Colour granite 12068 m³ for the period of 5 Years from the date of Execution of mining lease.
- Now, the PP has applied for amendment in the existing EC issued for the following.

Production qty as per EC	Amendment Sought
Production of Colour granite 12068 M ³ for period of 5 years from the date of execution of mining lease.	24,230 M ³ of RoM per Annum

The PP also furnished the following

- The TAMIN production targets are conservative and follow the government mining rules and regulations to quarry the Black granite, Dolerite at this location and sold to international and domestic markets.
- The PP is also demarcated a dedicated area within the leasehold area for dumping of the non-saleable granite waste.
- The waste rock (or) overburden rock (or) other rejects excavated in the quarry is also dumped within the leasehold area and it will be backfilled into the worked out granite quarry faces during the final closure plan, with a view to restore the land to its original use (or) desired alternate use.


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- In case of non-feasibility of backfilling, the waste dumps will suitably terraced and stabilised by planting adequate vegetation as indicated by the SEAC, as a part of progressive mine closure plan.
- Long term & shorter ecological and environmental impacts such as air pollution due to dust, exhaust emissions or fumes, the discharge of toxic and objectionable effluents, noise arising out during the mining operations of granite and related activities are adequately mitigated in the EMP.
- It is submitted that the environmental impact is directly linked to ROM being mined out from the mineralised zone of quarry and not restricted to saleable production quantity (recovery alone).
- Since the EC limits saleable production quantity (recovery only), it is observed that our quarry managers tend to extricate a very miniscule quantity of absolutely defect free material.
- In many quarries the recovery falls down to very low value as 2% of RoM. This is neither in the interest of revenue generation for TAMILNADU (or) the State Government and also it is also not helping to protect the environment.
- Mining recoverable reserves may vary subject to the quality of Granite mining method and Geological features such as structural, textural formations and the market demand for the Granite being mined.
- It is well known that without extracting the Run of Mine (ROM) the recoverable production (recovery) is not possible.

SEAC carefully considered the request of the PP based on the presentation made and the details furnished by the PP. SEAC noted the following.

1. PP has requested the following amendment.

Production qty as per EC	Amendment Sought
Production of Colour granite 12068 M ³	24230 M ³ of RoM per Annum

2. The term RoM includes raw, unprocessed or uncrushed material in its natural state obtained after blasting, digging, cutting or scraping from the mineralized zone of a lease area.
3. The quantity of 'saleable mineral' depends on many factors such as the geology of the site, technology, workmanship, etc. and, therefore, is

difficult to estimate accurately, while RoM can easily be estimated at the time of preparation of mining plan.

4. SEAC recommended EC for the project based on the EIA/PFR/EMP report and approved mining plan wherein the details of production of RoM, mineral and mineral waste were mentioned.
5. EMP for the project has been finalised based on total RoM & peak annual RoM and not based on 'saleable mineral.'
6. SEAC noted that the PP has not asked for any change in the area, or in RoM, or in the peak annual RoM.

Considering all the above, the Committee recommends the following amendment to the EC subject to the certain conditions.

Production qty as per EC	Amendment Recommended
production of Colour granite 12068 M ³	24230 M ³ of peak RoM per Annum


Subsequently the subject was placed before SEIAA in its 536th meeting held on 26.07.2022. The Authority noted that as per the approved mining plan/progressive closure plan submitted & as per the Point no. 31 (Storage of overburden, waste rock etc) of Chapter-VI of Granite Conservation & Development Rules, 1999 states that

- i) The overburden, waste rock and non-saleable granite generated during prospecting or mining operations for granite shall be stored separately in properly formed dumps on grounds earmarked.
- ii) 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.
- iii) Wherever possible, such waste rock or overburden or other rejects, shall be backfilled into the worked out granite quarry, where granite has been recovered upto the optimum depth, with a view to restore the land to its original use or desired alternate use, as far as possible and where the backfilling is not feasible, the waste dumps shall be suitable terraced and stabilised by planting vegetation or otherwise.

As per the Point no. 32 (Reclamation and Rehabilitation of lands) of Chapter-VI of Granite Conservation & Development Rules, 1999 states that


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“Every lease holder shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by prospecting or mining operations and shall complete this work before the conclusion of such operations and the abandonment of the granite quarry”.

The Authority after detailed discussion decided to refer back the proposal to SEAC for specific recommendation with justification for grant of Environmental clearance on the quantity of mineable mineral in terms of ROM quantity instead of Production quantity after the receipt of following details from the project proponent.

- i) The proponent shall submit the details of utilization of total quantity of granite Waste till the life of the quarry period for beneficial purpose.
- ii) The proponent shall submit revised progressive mine closure & rehabilitation plan.
- iii) To furnish approval obtained from the competent authority details of utilization of quantity of granite Waste for beneficial purpose as per market trend and revised progressive mine closure & rehabilitation plan proposed quarry pits.
- iv) Long term and short term ecological and environmental impacts due to storage, handling, and transportation of granite waste for beneficial purpose (or) otherwise.
- v) AD/Competent authority of Geology & Mining Dept. justification for according permission in terms of ROM quantity instead of production quantity.
- vi) Can waste and such tailings be used for land back fills.
- vii) Mine closure plans and EMP in detail. How can the granite mine site be reclaimed to near natural and pre-mining condition.
- viii) Action plan for protection of open and abandoned open spots as they are Hotspot for toxic water accumulation, contamination and accidents.
- ix) Impact due to transportation of the granite waste on the access road and the equipments, and social impacts.
- x) The project proponent have not submitted the details with respect to the quantity of the minerals mined from the date of issuance of EC and depth achieved from the department of Geology and Mining.


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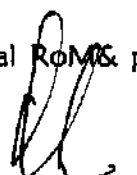
- xi) EC has been issued & mentioned with the quantity of colour Granite for the period of 5 years, as per mining plan. If any revision is required, the PP shall obtain necessary revision/ Amendment in the approved mining plan from the competent authority.

The PP shall furnish the revised/ detailed mine closure plan by considering ROM/total excavation from the competent Authority.

The proposal was placed for appraisal in this 304th meeting of SEAC held on 20.08.2022. The Project proponent made a presentation along with the following clarifications for the above shortcomings observed by the SEIAA.

1. As per the Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016, the term 'run-of-mine' (RoM) is defined as "*the raw, unprocessed or uncrushed material in its natural state obtained after blasting, digging, cutting or scraping from the mineralized zone of a lease area*", this includes the saleable ore mined after the processing, intercalated waste and mineral rejects/subgrade mineral.
2. The quantity of 'recovered saleable ore' depends on many factors such as the geology of the site, physical & geomechanical properties of the rock, quarrying technology, market demand etc. Further, the 'Recovery' is difficult to be estimated always precisely due to poor density & thickness of the granite, poor porosity, Visual appearance where it is being observed with dings, dents, scratches or uneven surfaces and however the RoM can easily be quantified at the time of preparation of mining plan.
3. The PP have informed that the 'Total Excavation' including ROM ore from which saleable fraction is produced are taken into consideration **from the view point of economic viability of project** during the approval of Mining Plan.
4. SEAC recommended EC for the project based on the EIA/PFR/EMP report and approved mining plan wherein the details of production of RoM which includes the Recovery (Ore), and mineral waste, and the overburden/side burden waste were mentioned.
5. The EMP for the project has been finalised based on total ROM & peak


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- annual RoM and not based on 'meagre quantity of saleable ore'.
6. Further it is pragmatic to consider total rock excavation from the point of view of Environmental Clearance, rather than production of saleable fraction of ore (or) the RoM (the extracted material from ore zone inclusive of mineral reject, intercalated waste or gangue minerals, if any).
 7. During the approval of Mining Plan, the total excavation including RoM ore from which saleable fraction is produced are taken into consideration.
 8. It is also clarified that total rock excavation may differ to generate same amount of RoM on year to year basis.
 9. **SEAC noted that the PP has not asked for any change in the area, or in RoM, or in the peak annual RoM.**
 10. By allowing the mineral rejects to be moved out from the leasehold area, the pollution caused due to excessive storage of mineral rejects (Granite rejects obtained from ROM) is reduced considerably. Besides, as per Rule 64B (2), if the Run-of-Mine is removed from the leased area, then royalty shall be payable on the unprocessed Run-of-Mine (ROM) mineral depending on its grade.

The Committee carefully examined the points raised by SEIAA and the replies given by the PP and decided to reiterate its recommendation already made in 291st SEAC meeting held on 02.07.2022. All other conditions stipulated in the earlier minutes will remain unaltered.

Subsequently it was placed in 549th SEIAA meeting held on 5.9.2022. The Authority noted that there is no justification furnished for the request. The EC issued vide Lr.No.SEIAA-TN/F.No. 4389/EC/1(a).3975/2018 Dt. 30.4.2018 is as per the mine plan approved by the competent authority. No further documents have been furnished by the proponent to justify the request for ROM. In view of these and to ensure sustainable, scientific and systematic mining and also considering the stability & safety aspects, the Authority after detailed deliberations, decided that the above-mentioned EC issued dated:30.04.2018 remains unaltered.

However, based on the additional particulars furnished by the Project proponent, SEAC noted that the PP has not furnished certified compliance report issued by

MoEF&CC (or) TNPCB for its existing EC. Hence it was decided to call for the following details from the PP.

- The PP shall furnish the certified compliance report issued by MoEF&CC/TNPCB for its existing EC.

Now the proposal was again been placed in this 339th meeting of SEAC held on 22.12.2022. The Committee noted that the PP is yet to furnish the aforesaid certified compliance report. Hence SEAC decided to defer the subject and instruct the PP to submit the document called for.

The PP has furnished the certified compliance report issued by MoEF&CC, based on that this proposal has again been placed in 374th SEAC meeting held on 3.5.2023. After detailed discussion The SEAC decided to reiterate its recommendation already made in 291st SEAC meeting held on 02.07.2022. All other conditions stipulated in the earlier minutes will remain unaltered.


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ANNEXURE-I

1. The proponent shall mandatorily appoint the required number of statutory officials and the competent persons in relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
4. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short Term Permit (STP), Query license or any other name.
5. The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
6. The proponent shall ensure that the slope of dumps is suitably vegetated in scientific manner with the native species to maintain the slope stability, prevent erosion and surface run off. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps.


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


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


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

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


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

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

Appendix - I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	வில்வம்
2	<i>Adenaanthera pavonina</i>	Marjadi	மஞ்சளடி, ஆணைக்குன்றிமணி
3	<i>Albizia lebeck</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentos</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமர
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon swietenia</i>	Purasamaram	புரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கோங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூளி
18	<i>Creteva adansoni</i>	Mavalingum	மாவினங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sebenum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகனை
23	<i>Ficus amplissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	அற்றுப்புவரசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம், ஆயிலி
27	<i>Lanea coromandelica</i>	Odhuan	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Foo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விலா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிசிப்பட்டை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழமரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nura	நுரை
37	<i>Morinda citrifolia</i>	Vellai Nura	வெள்ளை நுரை
38	<i>Phoenix sylvestre</i>	Eachai	நச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Murnai	முள்ளை
41	<i>Premna serratifolia</i>	Narumunnai	நறு முள்ளை
42	<i>Premna tomentosa</i>	Malipoovarasu	மலை பூவரசு
43	<i>Prosopis cinerea</i>	Vanni maram	வள்ளி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum calescens</i>	Vennangu, Tada	வெண்ணாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghi</i>	Karipala	கறிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Maripungan, Soapukai	மனிப்பிழைகள் சோப்புக்காய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாள் கொட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தான்றி
56	<i>Terminalia arjuna</i>	Ven marudhu	வென் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூவரசு
59	<i>Walsuretrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலாலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்புளி

