

Minutes of 363<sup>rd</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 14.3.2023 (Tuesday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Maligal, Saldapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Agenda No: 363 - 01

File No: 9575

Proposed Rough stone & gravel over an extent of 1.48.0 Ha at S.F.Nos. 25/5, 25/8, 274/3A and 274/4(P) of Palnkinar Village, Cheyyar Taluk, Tiruvannamalai District, Tamil Nadu by Thiru I Prakash - For Environmental Clearance. (SI/TN/MIN/406278/2022, dated: 18.11.2022)

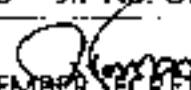
The proposal was placed in 363<sup>rd</sup> SEAC meeting held on 14.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent Thiru I Prakash has applied for Environmental Clearance for the Proposed Rough stone & gravel over an extent of 1.48.0 Ha at S.F.Nos. 25/5, 25/8, 274/3A and 274/4(P) of Palnkinar Village, Cheyyar Taluk, Tiruvannamalai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The Production for the five years states that total quantity should not exceed 1,00,855 m<sup>3</sup> of rough stone, 21,256 m<sup>3</sup> of Gravel for an ultimate depth of mining up to 23m. The annual peak production is 20,380 cu. m of Rough Stone and 10,284 cu. m of Gravel.

The proposal is for mining of Rough stone & Gravel 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.I.Prakash S/o.Inbasekaran, No.42, Bangalore National Highway, Senthamangalam, Sriperumbudur Taluk, Kanchipuram District-602 106
2	Type of quarrying	:	Rough stone & Gravel
3	S.F.No. Of the quarry site	:	25/5, 25/8, 274/3A and 274/4(P)

  
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4	Village in which situated	:	Palinkinar				
5	Taluk in which situated	:	Cheyyar				
6	District in which situated	:	Tiruvannamalai				
7	Extent of quarry (in ha.)	:	1.48.0Ha				
8	Lease Period of quarrying	:	5 years				
9	Type of mining	:	Opencast Semi-Mechanized Mining Method				
10	Production (Quantity in m <sup>3</sup> )	:	1,00,855m <sup>3</sup> of Rough stone & 21,256m <sup>3</sup> of Gravel				
11	Latitude & Longitude of all corners of the quarry site	:	12°41'09.82" N to 12°41'15.01" N 79°31'01.45" E to 79°31'06.98" E				
12	Top Sheet No.	:	57-P/10				
13	Man Power requirement per day:	:	20 Nos.				
14	Precise area communication approved by the Assistant Director with date	:	Na.Ka.No.135/Kanimam/2022, Dated: 12.09.2022				
15	Mining Plan approved by the Assistant Director Department of Geology and Mining with date	:	Rc.No.135/ Kanimam /2022, Dated: 19.09.2022				
16	Water requirement:	:	2.5 KLD				
	1. Drinking & domestic purposes	:	1.5 KLD				
	2. Dust suppression	:	0.5 KLD				
	3. Green Belt	:	0.5 KLD				
17	Power requirement	:	TNEB				
	a. Domestic Purpose	:					
18	Ultimate Depth of quarrying	:	23m BGL				
19	Depth of water table	:	55m in rainy & 58m in summer seasons				
20	Project Cost (Excluding EMP cost)	:	Rs. 53,38,000				
21	EMP cost	:	Capital Cost - Rs. 16.95 Lakh Recurring Cost - Rs. 13.50 Lakh				
22	CER cost	:	<table border="1"> <tr> <td colspan="2" style="text-align: center;"><b>Government Middle School, Palinkinar Village</b></td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• Tree Plantation (50 nos)</li> <li>• Repairing &amp; renovation of Toilet</li> <li>• Provision of treated drinking water facility</li> </ul> </td> <td style="text-align: center; vertical-align: middle;">Rs. 5,00,000</td> </tr> </table>	<b>Government Middle School, Palinkinar Village</b>		<ul style="list-style-type: none"> <li>• Tree Plantation (50 nos)</li> <li>• Repairing &amp; renovation of Toilet</li> <li>• Provision of treated drinking water facility</li> </ul>	Rs. 5,00,000
<b>Government Middle School, Palinkinar Village</b>							
<ul style="list-style-type: none"> <li>• Tree Plantation (50 nos)</li> <li>• Repairing &amp; renovation of Toilet</li> <li>• Provision of treated drinking water facility</li> </ul>	Rs. 5,00,000						

		<ul style="list-style-type: none"> <li>• Setting up 2 Number class room</li> <li>• Fixing floor tiles for class rooms</li> <li>• New type chair &amp; table required – 10 nos</li> <li>• Rack for library with books</li> </ul>	
23	Deputy Director, mines 500m cluster letter	Re.No.135/ Kanimam /2022. Dated: 19.09.2022	
24	VAO certificate regarding 300m radius cluster	Letter Furnished	

The proposal is now placed in the 363<sup>rd</sup> SEAC meeting held on 14.03.2023. 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 total excavation of 1,00,855 m<sup>3</sup> of Rough stone and 21,256 m<sup>3</sup> of Gravel and however, the annual peak production shall not exceed 20,380 m<sup>3</sup> of Rough stone and 10,284 m<sup>3</sup> of Gravel keeping the ultimate depth of mining up to 23m 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 and

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

4. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary including the well portion which is located in the southern side of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGM's Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
5. The PP shall carry out the installation of fencing around the abandoned quarry (operated earlier by the same PP) existing adjacent to the proposed quarry as a part of mine closure activities and for the safety aspects before obtaining the CTO from the concerned DEE/TNPCB.
6. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient, before obtaining CTO from TNPCB.
7. The PP shall explore the possibility of carrying out the amalgamation with the adjacent existing quarry belongs to him after the commencement of quarrying operations with obtaining the prior statutory permission from the Director of Mines Safety, Chennai Region and the Directorate of Geology & Mining.
8. 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.
9. The PP shall ensure that the benches & haul road are properly designed and formed in accordance with the provisions of MMR 1991.
10. 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 fly rock shall travel beyond 20 m from the site of blasting. The PP shall also

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

11. 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 – CEC 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. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
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. 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.
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

  
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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. 22-65/2017-1A.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
20. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Government Middle School, Painkinar village as committed, before obtaining CTO from TNPCB.

**Agenda No: 363 - 02**

**File No: 9611**

**Proposed Rough stone & gravel over an extent of 2.45.0 Ha at S.F.Nos. 327/1 (P-1) of Chennapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru N Sudhakar - For Environmental Clearance. (SIA/TN/MIN/289688/2022, dated: 10.11.2022)**

The proposal was placed in 363<sup>rd</sup> SEAC meeting held on 14.03.2023. 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 N Sudhakar has applied for Environmental Clearance for the Proposed Rough stone & gravel over an extent of 2.45.0 Ha at S.F.Nos. 327/1 (P-1) of Chennapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(b) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The Production statistics for the proposed quarry states that total excavation of 5,25,970 m<sup>3</sup> of rough stone carried out for first five years up to a depth of 35m (20m - AGL + 15m - BGL) and an excavation volume of 1,23,650 m<sup>3</sup> of Rough Stone during the second five years up to an ultimate depth of 40m BGL. The annual peak production is 1,11,760 cu. m of Rough Stone.

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

  
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S. No	Details of the Proposal	Data Furnished
1.	Name of the Owner / Firm	Thiru. N.Sudhakar. S/o.Narayanan, D.No.1/311A, Mudaliyar Street, Jagadevi, Krishnagiri-635203.
2.	Type of quarrying	Rough Stone Quarry
3.	S.F No. of the quarry site	327/1 (Part-I)
4.	Village in which situated	Chennapalli
5.	Taluk in which situated	Shoolagiri
6.	District in which situated	Krishnagiri
7.	Extent of Quarry (in ha.)	2.45.0 ha
8.	Lease Period of Quarrying	10 years
9.	Period of Mining Plan	10 years
10.		
11.	Type of Mining	Opencast semi mechanized mining method.
12.	Production (Quantity in m <sup>3</sup> )	First five years - 5,25,970 m <sup>3</sup> of rough stone Second five years - 1,23,650 m <sup>3</sup> of Rough Stone.
13.	Latitude & Longitude of all corners of the quarry site	12°37'24.62831"N to 12°37'30.44792"N 78°03'09.92262"E to 78°03'17.17913"E
14.	Topo sheet No.	57 -L/02
15.	Man power requirement per day:	21 Employees
16.	Precise Area Communication approved by the District Collector	Rc.No. 552/ Mines/ 2022 Dated: 04.05.2022
17.	Mining plan approved by the Deputy Director of Geology and Mining with date	Rc.No. 552/ Mines/ 2022 Dated: 02.08.2022

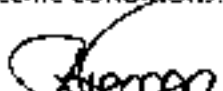
  
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18.	AD mines 500m cluster letter by the Deputy Director of Geology and Mining with date	Rc.No.552/ Mines/ 2022 Dated: 02.08.2022
19.	Water requirement: 1. Drinking & domestic purposed 2. Dust Suppression 3. Green Belt	5.0 KLD 2.0 KLD 1.5 KLD 1.5 KLD
20.	Power requirement: a. Domestic purpose b. Machinery works	TNEB 420776 Liters of HSD will be utilized for Rough Stone
21.	Ultimate Depth of Mining	40m (20m AGL & 20m BGL).
22.	Depth of Water table	50m in summer season - 43m in rainy season
23.	Whether any habitation within 300m distance	Nil
24.	Project cost	Rs. 3,15,31,600/- Lakhs
25.	E.M.P cost	Capital cost: Rs. 5226223 Recurring cost : Rs.2882640
26.	CER cost	Rs. 5 Lakhs
27.	VAO letter dated	07.07.2022.

The proposal is now placed in the 363<sup>rd</sup> SEAC meeting held on 14.03.2023. 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 total excavation volume of (5,25,970 m<sup>3</sup> + 1,23,650 m<sup>3</sup>) with the annual peak production of not exceeding 1,11,760 m<sup>3</sup> of Rough Stone by restricting the ultimate depth of 40m 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:

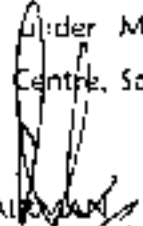
  
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1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act, 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 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 planned working from top to downwards from the east to west direction in the hillock portion by maintaining appropriate benches incorporating the haul road with proper gradient, before obtaining CTO from TNPCB.
8. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial / Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Salem (or) Trichy.

  
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9. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the benches made in this quarry during 3rd year of operation, 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.
10. Since the habitations are situated at a distance of 300 m from the quarry lease boundary, the PP shall obtain necessary permission to carry out the blasting operation from the Director of Mines Safety, Chennai Region after executing the lease under the provisions of MMR-1961 at the time of sending the 'Notice of Opening' and also to carry out the scientific studies on design of controlled blasting for reducing the impact of blast-induced ground/air vibrations and fly rock in the proposed quarry, within six months from the commencement of mining operations by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, 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. Since a river is situated at a distance of 700m, the PP shall carry out the comprehensive hydrogeological studies during the second year of 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. Suratkal, 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.
16. The PP shall meticulously carry out the mitigation measures as spell out in the revised EMP.
17. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
20. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Government Model Higher Secondary School, Shoolagiri Village as committed, before obtaining CTO from TNPCB.

**Agenda No: 363 - 03**  
**(File No.9597/2022)**

  
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**Proposed Earth Quarry lease over an Extent of 2.95.0 Ha in S.F.No. 178/1, 178/2, 179/9, 180/1C & 182/1 of Aalangadu Village, Sirkazhi Taluk, Mayiladuthurai District, Tamil Nadu by Mr.M.Mathiraj – For Environmental clearance (SIA/TN/MIN/405764/2022, dated: 09.11.2022)**

The proposal is placed in this 363<sup>rd</sup> meeting of SEAC held on 14.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, **Mr.M.Mathiraj**, has applied for Environmental Clearance for the Proposed Earth Quarry lease over an Extent of 2.95.0 Ha in S.F.No. 178/1, 178/2, 179/9, 180/1C & 182/1 of Aalangadu Village, Sirkazhi Taluk, Mayiladuthurai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The salient features of the project are as follows:

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Mr.M. Mathiraj, S/o. Mr.Mathimaran, Pillayar Kovil Street, Keerapalayam, Chidambaram Taluk, Cuddalore District.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Earth Quarry
3	S.F No. Of the quarry site with area break-up	178/1, 178/2, 179/9, 180/1C & 182/1
4	Village in which situated	Aalangadu
5	Taluk in which situated	Sirkazhi
6	District in which situated	Mayiladuthurai
7	Extent of quarry (in ha.)	2.95.0 Ha
8	Latitude & Longitude of all corners of the quarry site	11°16'37.90"N to 11°16'51.98"N 79°47'37.11"E to 79°47'41.82 "E
9	Topo Sheet No.	58 - M/15
10	Type of mining	Opencast Semi Mechanized Mining
11	Period of quarrying proposed	2 years
12	Production (Quantity in m <sup>3</sup> )	40.806m <sup>3</sup> of earth
13	Depth of Mining	2m Below Ground Level
14	Depth of water table	5m-3m Below Ground level

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15	Man Power requirement per day:	2 Nos.
16	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green Belt	2.0 KLD 0.5 KLD 0.5 KLD 0.5 KLD
17	Power requirement	10,880 litres of Diesel
18	Precise area communication approved by the Assistant Director(i/c), Dept. of Geology & Mining with date	Rc.No.161/Mines/2019, Dated: 11.10.2022.
19	Mining Plan approved by the Assistant Director(i/c), Dept. of Geology and Mining with date	Rc.No.161/Mines/2019, Dated: 28.10.2022,
20	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	Rc.No.161/Mines/2019, Dated: 28.10.2022.
21	VAO certificate regarding habitations in 300m radius	Enclosed
22	Project Cost (excluding EMP)	Rs.7.0 Lakhs
23	EMP cost	Capital Cost: Rs.4.00159 Lakhs Recurring Cost: 2.92500 Lakhs <b>Total for 2 years: Rs.9.99784 Lakhs</b>

1.The project proponent has submitted a soil test report obtained from the Government College of Engineering, Salem vide Lr.No: C-1610(a)/GCE/SLM/Civil/Soil Lab/2022 Dated:12.09.2022. According to the test report, the total % of sand in the soil sample is less than 20% and the soil is classified as **Inorganic Clay of High Plasticity (CH)**.

2. Assistant Director, Dept. of Geology and Mining, Nagapattinam/Mayiladuthurai vide Rc.No.161/Mines/2019/Mines-A/ dated.08.11.2022 informed that .....

*".....there is no river, odai canals situated adjacent to the applied area. Further there is no notified/declared protected zones situated adjacent to the applied area."*

  
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Based on the presentation and details furnished by the project proponent, SEAC recommended to grant of Environmental Clearance for the production of 40,806m<sup>3</sup> of earth for the period of Two years with an ultimate depth of 2 m 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.
2. The proponent shall obtain the land classification for the survey numbers 178/1, 178/2 & 182/1 from 'Nanjai' to 'Punjai' from the competent authority before execution of the lease with the competent authority.
3. The PP shall change all the documents including the Mining Plan, from "Earth" to "Ordinary Earth" as per the TN G.O. (Ms). No.244, dated. 14.12.2022 at the time of lease execution.
4. Tree plantation & fencing around the mine lease area shall be completed before starting the production.
5. 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.
6. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
7. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
8. The Project proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. 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.

9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should

  
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be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.

15. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted 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
16. **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.
17. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
18. 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.
19. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
20. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project proponent shall ensure that the road may not be damaged due to transportation of the quarried rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
21. 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.



22. 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.
23. 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.
24. 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.
25. 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.
26. 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 (TNPCE) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
27. 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.
28. 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.
29. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Pericase area communication letter issued by concerned District Collector should be strictly

followed  
  
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30. The Project proponent shall install a Display Board at the entrance of the mining lease area/abutting the public Road, about the project information as shown in the Appendix –II of this Minutes.

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

32. As accepted by the Project proponent the CER cost is Rs. 2.0 lakhs and the amount shall be spent for the committed activities towards Government Higher Secondary School, Thulasenthirapuram Village, before obtaining CTO from TNPCB.

**Agenda No: 363-04**

**(File No: 9612/2022)**

**Proposed Rough Stone & Gravel quarry Lease over an extent of 1.41.0 Ha at S.F.No. 617/2 in Munnur Village, Pugalur Taluk, Karur District, Tamil Nadu by Mr.G.Prabhakar- For Environmental Clearance.(SIA/TN/MIN/408627/2022 dated 30.11.2022)**

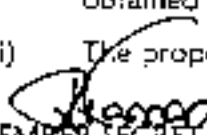
The proposal is placed in this 363<sup>rd</sup> SEAC meeting held on 14.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**SEAC noted the following:**

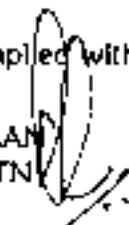
1. The Project Proponent, **Mr.G.Prabhakar** has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry Lease over an extent of 1.41.0 Ha at S.F.No. 617/2 in Munnur Village, Pugalur Taluk, Karur District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, EC was accorded to the proponent vide Lr.No.SEIAA-TN/F.No.5775/1(a)/EC.No.3934/2016 dated.24.05.2017 for the quantity of 75048 cu.m of rough stone.
4. Now the proponent has submitted an application for Environmental Clearance for a quantity of 96.525 cu m of rough stone and 7560 cu.m of gravel.

Based on the presentation and details furnished by the project proponent, the Committee decided to call for the following details from the project proponent to consider the proposal for appraisal:

- i) The project proponent shall submit a certified compliance report for the EC obtained earlier.
- ii) The proponent shall furnish photographic evidence for having complied with

  
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the EC conditions regarding, fencing, green belt and garland drain.

Agenda No: 363-05

(File No: 9584/2022)


Proposed Grey Granite quarry lease over an extent of 2.38.9Ha in SF.No. 35/4B(P), 37/3A, 37/3B and 37/5A(P) of Peddappampatti Village, Pochampalli Taluk, Krishnagiri District, Tamil Nadu by Thiru.K.Muthu - For Environmental Clearance. (SIA/TN/MIN/406190/2022, Dt: 15.11.2022).

The proposal was placed in 363<sup>rd</sup> SEAC meeting held on 14.03.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.K.Muthu has applied for Environmental Clearance for the proposed Grey Granite quarry lease over an extent of 2.38.9Ha in SF. No.35/4B(P),37/3A,37/3B and 37/5A(P)of Peddappampatti Village, Pochampatti Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item I(a) "Mining Projects" 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 62,775m<sup>3</sup> of RoM, 37,665m<sup>3</sup> of Recovery @60% & 25,110m<sup>3</sup> of Granite Waste @40% with an ultimate depth of mining is 37m. The annual peak production is 14300m<sup>3</sup> of ROM (3<sup>rd</sup> Year), 8580 m<sup>3</sup> of Recovery @60% (3<sup>rd</sup> Year), & 5720m<sup>3</sup> of Granite Waste @40% (3<sup>rd</sup> Year).

Sl. No	Details of the Proposal	Data Furnished
1.	Name of the Owner / Firm	Thiru.K.Muthu S/o.kaveri, No. 3/232, Pallikondan Street, Savalour Village, Noolahalli Post. Dharmapuri District
2.	Type of quarrying	Grey Granite
3.	S.F No. of the quarry site	35/4B(P),37/3A,37/3B and 37/5A(P)
4.	Village in which situated	Peddappampatti
5.	Taluk in which situated	Pochampalli
6.	District in which situated	Krishnagiri

  
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7.	Extent of Quarry (in ha.)	2.38.9 Ha
8.	Lease Period of Quarrying	20 Years
9.	Mining Plan Period	20 years
10.	Production & Development Plan Period	5 years
11.	Type of Mining	Open cast Semi Mechanized Method Mining
12.	Production (Quantity in m <sup>3</sup> )	The production during the first five year plan period should not exceed 62.775m <sup>3</sup> of RoM, 37.665m <sup>3</sup> of Recovery @60% & 25,110m <sup>3</sup> of Granite Waste @40% with an ultimate depth of mining is 37m. The annual peak production is 14300m <sup>3</sup> of RoM (3 <sup>rd</sup> Year), 8580 m <sup>3</sup> of Recovery @60% (3 <sup>rd</sup> Year), & 5720m <sup>3</sup> of Granite Waste @40% (3 <sup>rd</sup> Year).
13.	Latitude & Longitude of all corners of the quarry site	12°22'08.0224"N to 12°22'17.3415"N 78°22'28.8951"E to 78°22'33.7174"E
14.	Topo sheet No.	57-L/07
15.	Man power requirement per day:	36 Employees
16.	Precise Area Communication approved by the Industries (MME.2) Department secretariat	Letter No.4812/MME.2/2021-1, Dated:20.07,2021
17.	Mining plan approved by the Commissioner or of Geology and Mining with date	Rc.No. 1200/MM4/2021, Dated 07.09.2022.
18.	AD mines 500m cluster letter by the Deputy Director of Geology and Mining with date	Roc.No. 35/ 2019/Mines. Dated 21.09.2022.
19.	Water requirement: 4. Drinking & domestic purposed 5. Dust Suppression 6. Green Belt	2.1 KLD 0.6 KLD 0.8 KLD 0.7 KLD
20.	Power requirement: c. Domestic purpose d. Machinery works	TNEB 1,00,448 liters of HSD
21.	Ultimate Depth of Mining	37m

22.	Depth of Water table	64m in summer season - 59m in rainy season
23.	Whether any habitation within 300m distance	Nil
24.	Project cost	Rs.3.11,66000
25.	EMP cost	Rs.51.77 Lakhs
26.	CER cost	Rs. 5 Lakhs
27.	VAO letter dated	26.09.2022.

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 62,775m<sup>3</sup> of RoM, but however not exceeding the annual peak production of 14300m<sup>3</sup> of RoM with maintaining an ultimate pit depth of 37m subject to the standard conditions as per the Annexure II of this minutes & normal conditions stipulated by MOEF &CC. in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall send 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.
4. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGM's Circular,

  
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- 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
5. The PP shall prepare a SOP in line 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, before obtaining the CTO from the TNPCB.
  6. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
  7. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de silted and maintained properly.
  8. The PP shall install high shed walls along the temple side at the boundary of the quarry for the environmental protection and safety reasons.
  9. Further, the PP shall construct the garland drain with proper size, gradient and length in addition to the plantation along the boundary of the pit leaving behind the mandatory safety zone of 7.5 m as it is designed to take care of run-off water (size, gradient and length).
  10. The Project Proponent (PP) shall submit a 'Slope stability action plan' incorporating the development activities from west to east direction keeping the benches intact for the proposed quarry lease after it is duly vetted by the concerned AD (Mines) before obtaining CTO from TNPCB.
  11. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF,

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

12. 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.
13. 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.
14. The PP shall meticulously carry out the mitigation measures as spell out in the revised EMP.
15. The PP shall carry out the comprehensive hydrogeological studies once in two years to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving any of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras - Dept of Applied Geology, Chennai etc shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
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.

  
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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 Union Middle School, Kullampatti Village, Pochampalli Taluk as committed, before obtaining CTO from TNPCB.

**Agenda No: 363-06**

**(File No: 9598/2022)**


**Proposed Ordinary Earth quarry lease over an extent of 1.65.50 Ha at SF. No. 148/2A & 149 of Ramathandalam Village, Tiruvallur Taluk, Tiruvallur District, Tamil Nadu by Thiru.N.Paranthaman - For Environmental Clearance. (SIA/TN/MIN/407653/2022, Dt: 23.11.2022).**

The proposal was placed in 363<sup>rd</sup> SEAC meeting held on 14.03.2023. 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.N.Paranthaman has applied for Environmental Clearance for the proposed Ordinary Earth quarry lease over an extent of 1.65.50Ha in S. F. No. 148/2A & 149 of Ramathandalam Village, Tiruvallur Taluk, Tiruvallur District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 1 year. The mining plan is for the period of One year & the production should not exceed 15,246m<sup>3</sup> of Ordinary Earth with an ultimate depth of mining is 2m BGL.

Sl. No	Details of the Proposal	Data Furnished
1.	Name of the Owner / Firm	Thiru.N. Paranthaman Proprietor of M/s.N.E.N Brick Works, Melakondaiyar Village Tiruvallur Taluk Tiruvallur District.
2.	Type of quarrying	Ordinary Earth Quarry
3.	S.F No. of the quarry site	148/2A & 149
4.	Village in which situated	Ramathandalam
5.	Taluk in which situated	Tiruvallur

  
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6.	District in which situated	Tiruvallur
7.	Extent of Quarry (in ha.)	1.65.50 Ha
8.	Period of Quarrying proposed	1 Year
9.	Type of Mining	Open cast Semi Mechanized Method Mining
10.	Production (Quantity in m <sup>3</sup> )	As per the mining plan the lease period is 1 year. The mining plan is for the period of one year & the production should not exceed 15,246m <sup>3</sup> of Ordinary Earth with an ultimate depth of mining is 2m BGL.
11.	Latitude & Longitude of all corners of the quarry site	13°11'45.17"N to 13°11'49.42"N 79°54'48.66"E to 79°54'54.37"E
12.	Topo sheet No.	57-O/16
13.	Man power requirement per day:	6 Employees
14.	Precise Area Communication approved by the Assistant Director of Geology and Mining with date	Rc.No.75/ 2022/ Mines.2 Dated: 29.08.2022.
15.	Mining plan approved by the Deputy Director of Geology and Mining with date	Roc.No. 75/ 2022/G&M-2, Dated 06.09.2022.
16.	AD mines 500m cluster letter by the Assistant Director of Geology and Mining with date	Roc.No. 75/ 2022/G&M-2, Dated 06.09.2022.
17.	Water requirement: 1. Drinking & domestic purposed 2. Dust Suppression 3. Green Belt	3.21KLD 1.21 KLD 1.0 KLD 1.0 KLD
18.	Power requirement: a. Domestic purpose b. Machinery works	TNEB -
19.	Depth of Mining	2m Below ground level
20.	Depth of Water table	15m in summer season - 10m in rainy season
21.	Whether any habitation within 300m distance	Nil
22.	Project cost	Rs. 6.77,000 lakhs
23.	EMP cost	Rs.29.70 lakhs
24.	CER cost	Rs. 2 Lakhs

  
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25.	VAO letter dated	13.10.2022.
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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 15,246m<sup>3</sup> of Ordinary earth with an ultimate depth of mining is 2m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
2. The statutory competent persons shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. 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.
4. 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, shall install fencing and Garland drain before obtaining the CTO from the TNPCB.
5. 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).
6. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP and a report on compliance of these measures is sent to the DEE/TNPCB once in six months without deviation.

7. 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.
8. 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.
9. 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.
10. As accepted by the Project proponent the CER cost is Rs.2.00.000 lakhs and the amount shall be spent for the Govt School, Ramathandalam Village as committed, before obtaining CTO from TNPCB.

**Agenda No: 363-07**

**(File No: 9605/2022)**

**Proposed Rough stone and Gravel quarry lease over an extent of 3.12.50 Ha in, SF. No. 346/2 and 346/3 of Murugambakkam Village, Maduranthagam Taluk, Chengalpattu District, Tamil Nadu by Tmt.B.Saraswathi - For Environmental Clearance. (SIA/TN/MIN/408342/2022, Dt: 29.11.2022).**

The proposal was placed in 363<sup>rd</sup> SEAC meeting held on 14.03.2023. 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.B.Saraswathi has applied for Environmental Clearance for the proposed Rough stone and Gravel quarry lease over an extent of 3.12.50 Ha in S. F. No. 346/2 and 346/3 of Murugambakkam Village, Maduranthagam Taluk, Chengalpattu District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

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

**Agenda No: 363-08**

**(File No: 9613/2022)**

  
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Proposed Rough stone and Gravel quarry lease over an extent of 1.39.68Ha at SF. Nos. 58/2B, 58/3A, 58/3B and 58/3C of Katteri Village, Walajah Taluk, Ranipet District, Tamil Nadu by Thiru. J. Chandrakumar- For Environmental Clearance. (SIA/TN/MIN/408493/2022, Dt: 29.11.2022).

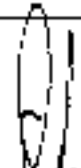
The proposal was placed in 363<sup>rd</sup> SEAC meeting held on 14.03.2023. The details of the project furnished by the proponent are given in the website (parlvish.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru. J. Chandrakumar has applied for Environmental Clearance for the proposed Rough stone and Gravel quarry lease over an extent of 1.39.68Ha in SF. Nos. 58/2B, 58/3A, 58/3B and 58/3C of Katteri Village, Walajah Taluk, Ranipet District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 5 years. The mining plan is for the period of five years & the production should not exceed 78,170m<sup>3</sup> of Rough stone , 20,384m<sup>3</sup> of Gravel and 9,778m<sup>3</sup> of Weathered rock with an ultimate depth of mining is 18 m BGL. The annual peak production is 16,125m<sup>3</sup> of Rough stone(3<sup>rd</sup> Year) , 7616m<sup>3</sup> of Gravel(1<sup>st</sup> year) and 3628m<sup>3</sup> of Weathered rock(1<sup>st</sup> year) .

Sl. No	Details of the Proposal	Data Furnished
1.	Name of the Owner/Firm	Thiru.J.Chandrakumar, S/o.Jayapal. No.85/276, Anakut Road, Poondi Village & Post. Walajah Taluk, Ranipet District
2.	Type of quarrying	Rough Stone & Gravel
3.	S.F No. Of the quarry site with area break-up	58/2B, 58/3A, 58/3B and 58/3C
4.	Village in which situated	katteri
5.	Taluk in which situated	Walajah
6.	District in which situated	Ranipet
7.	Extent of quarry (in ha.)	1.39.68Ha


  
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8.	Latitude & Longitude of all corners of the quarry site	12°53'54.75"N to 12°53'59.16"N 79°24'27.22"E to 79°24'32.83"E
9.	Topo Sheet No.	57- P/05
10.	Type of mining	Opencast Semi Mechanized of Mining
11.	Lease Period of quarrying	10 years
12.	Mining Plan Period	10 years
13.	Production & Development Plan	For the first 5 years
14.	Production (Quantity in m <sup>3</sup> )	The production for the first five year should not exceed 78170m <sup>3</sup> of Rough stone, 20384m <sup>3</sup> of Gravel and 9778m <sup>3</sup> of Weathered rock with an ultimate depth of mining is 18m BGL. The annual peak production is 16,125m <sup>3</sup> of Rough stone(3 <sup>rd</sup> Year) , 76,16m <sup>3</sup> of Gravel(1 <sup>st</sup> year) and 3.628m <sup>3</sup> of Weathered rock(1 <sup>st</sup> year) .
15.	Ultimate Depth of quarrying	18m BGL
16.	Depth of water table	60m BGL
17.	Man Power requirement per day:	22 Employees
18.	Water requirement: 4. Drinking & domestic purposes (in KLD) 5. Dust suppression, Green Belt & Wet Drilling (In KLD)	1.99 KLD 0.99 KLD 0.5 KLD 0.5 KLD
19.	Power requirement: a. Domestic purpose b. Machinery works	TNEB .
20.	Whether any habitation within 300m distance	No
21.	Precise area communication approved by the, Assistant Director(i/c), Department of Geology and Mining with date	Rc.No.136/2022(Mines), dt: 20.10.2022

  
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22.	Mining Plan approved by Assistant Director(i/c), Department of Geology and Mining with date	Rc.No.136/2022(Mines), dt: 02.11.2022
23.	Assistant Director(l/c), Department of Geology and Mining 500m cluster letter	Rc.No.136/2022(Mines), dt: 02.11.2022
24.	Project Cost	Rs.57.48 Lakhs
25.	EMP cost	Rs.136 Lakhs
26.	CER cost	Rs.5 Lakhs
27.	VAO letter dated	27.10.2022

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for total excavation quantity of 78,170m<sup>3</sup> of Rough Stone, 20,384m<sup>3</sup> of Gravel and 9778m<sup>3</sup> of Weathered rock not exceeding the annual peak production of 16,125m<sup>3</sup> of Rough stone, 76,16m<sup>3</sup> of Gravel and 3,628m<sup>3</sup> of Weathered rock with maintaining an ultimate pit depth of 18m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, In addition to the following specific conditions:

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

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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. 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, shall install fencing and Garland drain before obtaining the CTO from the 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).
7. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.
8. 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.
9. Since few structures are located at a distance of 600 m, within six months 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

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

10. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
11. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
12. The PP shall ensure that 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.
13. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
14. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
15. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
16. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
17. As accepted by the Project proponent the CER cost is Rs.5 lakhs and the amount shall be spent for the Govt Primary School, Chennasamuthiram Village as committed, before obtaining CTO from TNPCB.

**Agenda No: 363 – 09**

**(File No: 9578/2022)**

**Proposed Rough Stone and Gravel Quarry lease over an extent of 0.35.0Ha at S.F.No. 324/4A1 & 324/2B Potpakkam Village, Sholingar Taluk, Ranipet District, Tamil Nadu**

  
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by Tmt K Mageshwari - for Environmental Clearance, (SIA/TN/MIN/402842/2022, dt 25.10.2022)

The proposal was placed in 363<sup>rd</sup> SEAC meeting held on 14.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


The SEAC noted the following:

1. The Project Proponent, **Tmt K Mageshwari** has applied for Environmental Clearance for the proposed Rough Stone and Gravel Quarry lease over an extent of 0.35.0Ha at S.F.No. 324/4A1 & 324/3B Polipakkam Village, Sholingur Taluk, Ranipet 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 mining plan, the lease period is 5 years. The mining plan is for the period of 5 years & the production should not exceed 9600m<sup>3</sup> of Rough Stone & 4725 m<sup>3</sup> of Gravel. The annual peak production is 1980 m<sup>3</sup> of Rough Stone (1<sup>st</sup> to 5 years) & 1875 m<sup>3</sup> of Gravel . The ultimate depth – 13m BGL

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Tmt. K. Mageswari, W/o. A.M. Krishnan, No.11/91A, Anna Nagar, Polipakkam Village & Post, Sholinghur Taluk, Ranipet District - 632 505.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone and Gravel
3	S F No. of the quarry site with area break-up	324/4A1 and 324/3B
4	Village in which situated	Polipakkam
5	Taluk in which situated	Sholinghur

  
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6	District in which situated	: Ranipet
7	Extent of quarry (in ha.)	: 0.35.00 Ha
8	Period of quarrying proposed	: 5 Years
9	Type of mining	: Opencast Semi Mechanized Mining - Manually breaking
10	Production (Quantity In m <sup>3</sup> )	: the production should not exceed 9600m <sup>3</sup> of Rough Stone & 4725 m <sup>3</sup> of Gravel. The annual peak production is 1980 m <sup>3</sup> of Rough Stone (1 <sup>st</sup> to 5 years) & 1875 m <sup>3</sup> of Gravel . The ultimate depth - 13m BGL
11	Latitude & Longitude of all corners of the quarry site	: 13°02'49.28"N to 13°02'51.09"N 79°28'41.50"E to 79°28'44.29"E
12	Topo Sheet No.	: 57-O/08
13	Man Power requirement per day:	: 14 Nos
14	Precise area communication approved by Assistant Director (I/c), Department of Geology and Mining with date	: Rc.No.105/2021 (Mines), dated: 22.07.2022
15	Mining Plan approved by Assistant Director (I/c), Department of Geology and Mining with date	: Rc.No.105/2021 (Mines), dated: 05.08.2022
16	Water requirement: 6. Drinking water & domestic purposes (in KLD) 7. Dust Suppression (in KLD) 8. Green Belt (in KLD)	: 2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD
17	Power requirement b. Domestic Purpose	: TNEB
18	Depth of quarrying	: 13m BGL
19	Depth of water table	: 50m-53m BGL

20	Whether any habitation within 300m distance	:	No
21	Project Cost (including EMP cost)	:	Rs. 25.20,000/-
22	EMP cost	:	Capital Cost – Rs. 3.54 lakhs Recurring Cost – Rs. 5.45 lakhs
23	CER cost	:	Rs. 2,00,000/-
24	Assistant Director, mines 500m cluster letter	:	Rc.No.105/2021 (Mines), dated: 05.08.2022
25	VAO certificate regarding 300m radius cluster	:	Letter dated 06.08.2022

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production 9600m<sup>3</sup> of Rough Stone & 4725 m<sup>3</sup> of Gravel for the period of 5 years. The annual peak production is 1980 m<sup>3</sup> of Rough Stone (1<sup>st</sup> to 5 years) & 1875 m<sup>3</sup> of Gravel, subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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

  
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4. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial / Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Salem (or) Trichy.
5. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
6. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 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 PP shall carry out mild controlled blast per day for the extraction of the stone blocks such 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.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
10. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
11. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
12. The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to

confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry.

13. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
14. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
15. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
16. 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. 2 lakhs and the amount shall be spent for the Panchayat Union Primary School, Neranchanthal Village as committed, before obtaining CTO from TNPCB.

**Agenda No: 363 – 10.**

**(File No: 9585/2022)**

**Proposed Red soil Quarry lease over an extent of 3.70.5 Ha at S.F.No 263/2, 264/3C, Iruvelli Village, Kadaladi Taluk, Ramanathapuram District, Tamil Nadu by Thiru. J Nagavinoth -for Environmental Clearance. (STA/TN/MIN/403055/2022, dt 15.10.2022)**

The proposal was placed in 363<sup>rd</sup> SEAC meeting held on 14.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru. J Nagavinoth has applied for Environmental Clearance for the proposed Red soil Quarry lease over an extent of 3.70.5 Ha at S.F.No 263/2, 264/3C, Iruvelli Village, Kadaladi Taluk, Ramanathapuram District,

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

As per mining plan, the lease period is one year. The mining plan is for the period of one year & the production should not exceed 62250m<sup>3</sup> of red soil with an ultimate depth – 2m 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 mineral deposit, particularly, the presence of heavy minerals in the Tert 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 the provisions of Atomic Minerals Concessional Rules, 2016 and the mineralogical analysis 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 Soil" 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.

**Agenda No: 363 – II**

**(File No: 9599/2022)**

**Proposed Rough Stone and Gravel Quarry lease over an extent of 2.02.5 Ha at S.F.No. 626/3C, Kodaganallur village, Tirunelveli Taluk , Tirunelveli District, Tamil Nadu by Thiru P.Kumar - for Environmental Clearance. (SIA/TN/MIN/407266/2022, dt 22.11.2022)**

  
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The proposal was placed in 363<sup>rd</sup> SEAC meeting held on 14.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


The SEAC noted the following:

1. The Project Proponent, **Thiru P.Kumar** has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry lease over an extent of 2.02.5 Ha at S.F.No. 626/3C, Kodaganallur village, Tirunelveli Taluk, Tirunelveli 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 mining plan, the lease period is 5 years. The mining plan is for the period of 5 years & the production should not exceed 268800m<sup>3</sup> of Rough Stone & 47259 m<sup>3</sup> of Gravel. The annual peak production is 56500 m<sup>3</sup> of Rough Stone ( 5<sup>th</sup> year) & 15219 m<sup>3</sup> of Gravel. The ultimate depth – **38m BGL**.

Sl. No	Details of the Proposal	Data Furnished
1	Name of the Owner/Firm	Thiru. P. Kumar, No.60-N, Lajapathy Nagar, Petta, Tirunelveli Taluk, Tirunelveli – 627 004.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone and Gravel
3	S.F No. of the quarry site with area break-up	626/3C
4	Village in which situated	Kodaganallur
5	Taluk in which situated	Tirunelveli
6	District in which situated	Tirunelveli
7	Extent of quarry (in ha.)	2.02.5 Ha
8	Period of quarrying proposed	5 Years
9	Type of mining	Opencast Semi Mechanized Mining
10	Production (Quantity in m <sup>3</sup> )	The production should not exceed 268800m <sup>3</sup> of Rough Stone & 47259 m <sup>3</sup> of Gravel. The annual peak production is 56500 m <sup>3</sup> of Rough Stone ( 5 <sup>th</sup> year)

  
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		& 15219 m <sup>3</sup> of Gravel . The ultimate depth – 38m BGL
11	Latitude & Longitude of all corners of the quarry site	: 08°44'00.20"N to 08°44'07.50"N 77°34'29.40"E to 77°34'34.05"E
12	Topo Sheet No.	: 58-H/5
13	Man Power requirement per day:	: 17 Nos
14	Precise area communication approved by Joint Director / Assistant Director (i/c), Department of Geology and Mining with date	: Rc.No.MI/22494/2017, dated: 07.06.2021
15	Mining Plan approved by Joint Director / Assistant Director (i/c), Department of Geology and Mining with date	: Rc.No.MI/22494/2017, dated: 21.06.2021
16	Water requirement: 9. Drinking water & domestic purposes (in KLD) 10. Dust Suppression (In KLD) 11. Green Belt (in KLD)	: 2.5 KLD 0.5 KLD 1.5 KLD 0.5 KLD
17	Power requirement c. Domestic Purpose	: TNEB
18	Ultimate Depth of quarrying	: 38m bgl
19	Depth of water table	: 60m bgl
20	Whether any habitation within 300m distance	: No
21	Project Cost (including EMP cost)	: Rs. 93.01.520/-
22	EMP cost	: Capital Cost – Rs. 18.83 lakhs Recurring Cost – Rs. 18.89 lakhs
23	CER cost	: Rs. 5,00,000/-
24	Assistant Director, mines 500m cluster letter	: Rc.No.MI/22494/2017, dated: 21.06.2021
25	VAO certificate regarding 300m radius cluster	: Letter dated 05.02.2021

This project proposal was placed in the 267<sup>th</sup> SEAC meeting with different file no:8741. And during the appraisal meeting, the PP had informed that the Kalakkad Mundanthurai Tiger Reserve is located at a distance of 8.7 km from the project site based on the information inferred from the google map assuming that the Kolunthumamalai RF & Manupothai RF were part of the Tiger Reserve. Hence, based on this information, the SEAC decided not to recommend this proposal as the ESZ for



this Tiger Reserve has not yet been notified and hence all the area falling within the radius of 10 km from the boundary of the reserve is deemed to be sensitive and prohibited area for the project & development activities. Accordingly, the SEIAA had communicated the decision of SEAC to the project proponent after having decided in the 512<sup>th</sup> SEIAA meeting.


In the meanwhile, the PP had requested the DFO & Wildlife Warden, Tirunelveli Division for the site inspection for assessing the exact location of the proposed site from the Tiger Reserve and obtained the letter (No. D/8253/2022, dated. 29.08.2022), which states that the Kolunthumamalai RF is not part of the Kalakkad Mundanthurai Tiger Reserve and is located at 8.20 km. Further, the the Kalakkad Mundanthurai Tiger Reserve is located at a distance of 14.50 km with the GPS reading of the site - N 8.733389° E 77.574833°. Since the project site is not falling within the ESZ of the Kalakkad Mundanthurai Tiger Reserve, the PP had filed a new application (F.no:9599) in the Parivesh Portal requested the SEIAA to process the file which was sent to the SEAC for the appraisal.

Based on the presentation and documents furnished by the project proponent, SEAC decided to reverse the earlier decision made in the 267<sup>th</sup> Meeting and to recommend the proposal now for the grant of Environmental Clearance for the total excavation of 268800m<sup>3</sup> of Rough Stone & 47259 m<sup>3</sup> of Gravel and not exceeding the annual peak production - 56500 m<sup>3</sup> of Rough Stone & 15219 m<sup>3</sup> of Gravel with restricting the ultimate depth to 38m BGL subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. The proponent shall install adequate fencing all around the boundary of the abandoned quarry which was earlier operated by the same PP in S.F.No. 624/1, for the extent of 4.50 Ha from 06.06.2013 to 05.06.2018 with gates for

  
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- securing the safety and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
3. 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.
  4. 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.
  5. The PP shall ensure that all the statutory competent persons and non-statutory workmen are undergone the 'Initial/Refresher' training under Mines Vocational Training Rules 1961 in Group Vocational Training Centre, Trichy (or) Pandalgudi.
  6. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the fencing installed 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 PP shall carry out maximum of TWO rounds of controlled blast 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 20 m from the site of blasting.
  9. However, within two years 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.

10. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.
11. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
12. The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
13. The 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.
14. 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, before obtaining CTO from TNPCB.
15. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches made in this quarry after the completion of 3rd year of quarrying operation (or) the depth of working reaches 30 m whichever is earlier, by involving any one of these reputed Research and Academic Institutions - 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.

  
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16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
17. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and Its Integrated Regional Office (IRO) located in Chennai.
18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
19. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA,III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
20. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Govt School, Kodaganallur Village as committed, before obtaining CTO from TNPCB.

**Agenda No: 363 – 12**


**(File No: 9614/2022)**

**Proposed Grey granite Quarry lease over an extent of 2.06.0 Ha at S.F.No. 292/2, Soolamalal Village, 324/4A1 & 324/3B Poipakkam Village, Sholingar Taluk, Ranipet District, Tamil Nadu by Thiru Shamamooth Shajahan - for Environmental Clearance. (SI/ATN/MIN/408288/2022, dt 28.11.2022)**

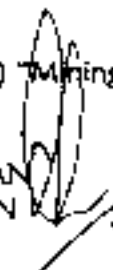
The proposal was placed in 363<sup>rd</sup> SEAC meeting held on 14.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website ([parivesh.nic.in](http://parivesh.nic.in)).

**The SEAC noted the following:**

1. The Project Proponent, Thiru Shamamooth Shajahan has applied for Environmental Clearance for the Proposed Grey granite Quarry lease over an extent of 2.06.0 Ha at S.F.No. 292/2, Soolamalal Village, 324/4A1 & 324/3B Poipakkam Village, Sholingar Taluk, Ranipet District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) Mining

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

3. As per mining plan (2<sup>nd</sup> scheme) , the lease period is 5 years. The mining plan is for the period of 5 years & the production should not exceed 26660 m<sup>3</sup> of ROM, 9331 m<sup>3</sup> of Recovery & 17329 m<sup>3</sup> of Granite waste . The annual peak production is 5520 m<sup>3</sup> of ROM, 1932 m<sup>3</sup> of Recovery & 3588 m<sup>3</sup> of Granite waste. The ultimate depth – 34m BGL

Sl. No	Details of the Proposal	:	Data Furnished
1	Name of the Owner/Firm	:	Thiru. S. Shajahan, S/o. Shamohamed, D.No: 1/390, Jagadevipalayam, Jagadevi Post, Bargur Taluk, Krishnagiri District - 635 203.
2	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	:	Grey Granite
3	S.F No. of the quarry site with area break-up	:	293/2
4	Village in which situated	:	Soolamalai
5	Taluk in which situated	:	Bargur
6	District in which situated	:	Krishnagiri
7	Extent of quarry (in ha.)	:	2.06.0 Ha
8	Lease Period of quarrying proposed	:	5 Years
9	Type of mining	:	Opencast Mechanized Mining
10	Production (Quantity in m <sup>3</sup> )  Ultimate depth of the quarry	:	The production should not exceed 26660 m <sup>3</sup> of ROM, 9331 m <sup>3</sup> of Recovery & 17329 m <sup>3</sup> of Granite waste . The annual peak production is 5520 m <sup>3</sup> of ROM, 1932 m <sup>3</sup> of Recovery & 3588 m <sup>3</sup> of Granite waste.–  34m BGL
11	Latitude & Longitude of all corners of the quarry site	:	12°30'27.6311"N to 12°30'20.1505"N 78°17'41.5365"E to 78°17'42.5672"E
12	Topo Sheet No.	:	57-L/6 & 57-L/7
13	Man Power requirement per day:	:	20 Nos
14	Precise area communication approved by the Principal Secretary to	:	G.O. (3D) No.26, dated: 21.11.2017

  
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	Government, Industries (MME.2) Department with date	
15	Mining Plan approved by the Commissioner, Department of Geology and Mining with date	Rc.No.5334/MM4/2022, dated: 29.09.2022
16	Water requirement: 12. Drinking water & domestic purposes (in KLD) 13. Dust Suppression (in KLD) 14. Green Belt (in KLD)	3.0 KLD 1.0 KLD 1.0 KLD 1.0 KLD
17	Power requirement d. Domestic Purpose	: TNEB
18	Depth of quarrying	: 34m bgl
19	Depth of water table	: 52m-58m bgl
20	Whether any habitation within 300m distance	: No
21	Project Cost (including EMP cost)	: Rs. 1,21,40,000/-
22	EMP cost	: Rs. 24,27,320/-
23	CER cost	: Rs. 5,00,000/-
24	Assistant Director, mines 500m cluster letter	: Roc.No.1227/2022/Mines, dated: 12.10.2022
25	VAO certificate regarding 300m radius cluster	: Letter dated 11.10.2022

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production the production should not exceed 26660 m<sup>3</sup> of ROM, 9331 m<sup>3</sup> of Recovery & 17329 m<sup>3</sup> of Granite waste . The annual peak production is 5520 m<sup>3</sup> of ROM, 1932 m<sup>3</sup> of Recovery & 3588 m<sup>3</sup> of Granite waste. The ultimate depth – 34m BGL, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


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

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

2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The PP shall inform the 'Notice of Opening' of the quarry to the Director of Mines Safety/Chennai Region before obtaining the CTO.
4. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
5. 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, shall install fencing and Garland drain before obtaining the CTO from the 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).
7. 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.
8. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving 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

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

9. The PP shall prepare a SOP in line 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, before obtaining the CTO from the TNPCB.
10. The PP shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
11. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de silted and maintained properly.
12. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
13. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
14. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
15. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
16. As accepted by the Project proponent the CER cost is Rs.5,00,000 lakhs and the amount shall be spent for the Union Middle School, Kullampatti Village, Pochampalli Taluk as committed, before obtaining CTO from TNPCB
17. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.



18. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Panchayat Union Primary School, Soolamalai as committed, before obtaining CTO from TNPCB.

Agenda No: 363 – 13.

(File No: 9579/2022)

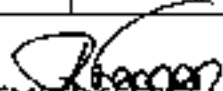
Proposed Rough Stone and Gravel Quarry lease over an extent of 1.54.0Ha at S.F.No.161/5 and 161/7. Melnagar Village, Arni Taluk, Tiruvannamalai District by Thiru.A.Raja - for Environmental Clearance. (SIA/TN/MIN/406127/2022, dt 07.11.2022)

The proposal was placed in 363<sup>rd</sup> SEAC meeting held on 14.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

- 1.The Project Proponent, Thiru.A.Raja has applied for Environmental Clearance for the proposed Rough Stone and Gravel Quarry lease over an extent of 1.54.0Ha at S.F.No.161/5 and 161/7, Melnagar Village, Arni Taluk, Tiruvannamalai 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 mining plan, the lease period is 5 years. The mining plan is for the period of 5 years & the production should not exceed 40650m<sup>3</sup> of Rough Stone & 11802 m<sup>3</sup> of Gravel. The annual peak production shall not exceed 8490 m<sup>3</sup> of Rough Stone (1<sup>st</sup> Year) & 4774 m<sup>3</sup> of Gravel (3<sup>rd</sup> Year). The ultimate depth – 12m BGL.

Sl. No	Details of the Proposal	Data Furnished
1.	Name of the Owner/Firm	: Thiru.A.Raja, S/o.Annamalai, No.178A, Kullathu Street, Kunnathur Village, Arni Taluk, Tiruvannamalai District.
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	: Rough Stone and Gravel

  
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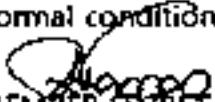
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3.	S.F No. Of the quarry site with area break-up	: 161/5 and 161/7
4.	Village in which situated	: Melnagar
5.	Taluk in which situated	: Arni
6.	District in which situated	: Tiruvannamalai
7.	Extent of quarry (In ha.)	: 1.54.0Ha
8.	Latitude & Longitude of all corners of the quarry site	: 12°42'10.88"N to 12°42'15.95"N 79°10'52.20"E to 79°10'57.48"E
9.	Topo Sheet No.	: 57 - P/02
10.	Type of mining	: Opencast Semi - Mechanized of Mining
11.	Mineable reserve	: 73335 m <sup>3</sup> of Rough Stone & 11802 m <sup>3</sup> of Gravel.
12.	Ultimate pit dimension upto life of mine/mineable reserve	: 119m (Length) X 50m (Width) X 27m (Depth)
13.	Lease Period of quarrying	: 10 years
14.	Mining Plan Validity Period	: 10 years
15.	Production & Development Programme as a part of AMP	: For first 5 years
16.	Production (Quantity In m <sup>3</sup> ) for the first 5 years	: 40650m <sup>3</sup> of Rough Stone & 11802 m <sup>3</sup> of Gravel.
17.	Ultimate Depth of quarrying	: 27 m
18.	Ultimate pit dimension as per mining plan	: 119m (Length) X 50m (Width) X 12m (Depth)
19.	Depth of water table	: 58m BGL
20.	Man Power requirement per day:	: 16 Nos.
21.	Source of Water Requirement	: water vendors
22.	Water requirement:	: 2.5 KLD

15. Drinking & domestic purposes (in KLD)	1.5 KLD
16. Dust suppression, Green Bell & Wet Drilling (in KLD)	0.5 KLD 0.5 KLD
23. Power requirement	TNEB
24. Whether any habitation within 300m distance	: No
25. Precise area communication approved by the District Collector, Department of Geology and Mining with date	: Rc.No.76/Kanimam/2022, dt: 28.07.2022
26. Mining Plan approved by Deputy Director, Department of Geology and Mining with date	: Roc.No.76/Kanimam/2022, dt: 24.08.2022
27. Deputy Director, Department of Geology and Mining 500m cluster letter	Roc.No.76/Kanimam/2022, dt: 24.08.2022
28. VAO certificate regarding 300m radius cluster	Letter dt: 02.09.2022.
29. Project Cost (excluding EMP cost)	: Rs.58.34 Lakh
30. EMP cost	: Rs.175.65 Lakhs/ 10 Years
31. CER cost	Rs.5.0 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the total excavation of 40650m<sup>3</sup> of Rough Stone & 11802 m<sup>3</sup> of Gravel for the first 5 years and however the annual peak production shall not exceed 8490 m<sup>3</sup> of Rough Stone & 4774 m<sup>3</sup> of Gravel in the remaining five years restricting the Ultimate depth to 27 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

  
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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 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 planned working by maintaining 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 benches of the benches made in this quarry during

4<sup>th</sup> year of operation, 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.

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. Keeping the cluster of quarries are in operation, within six months from the commencement of mining operations, the PP shall carry out the scientific studies on 'Cumulative impact of blast-induced ground/air vibrations and fly rock caused due to operation of the quarries in this cluster by adopting appropriate controlled blasting techniques', by involving any one of these reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal and Anna University – CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
11. The PP shall prepare a Standard operating Procedure for carrying out the blasting operations simultaneously in consultation with the adjacent quarries located within the vicinity of 500 m and submit to the concerned AD (Mines) and the DCE/TNPCB at the time of obtaining the CTO.
12. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarry.

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

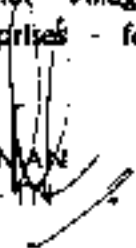
**Agenda No: 363 – 14.**

**(File No: 9600/2022)**

**Proposed Rough Stone and Gravel Quarry lease over an extent of 2.93.20Ha at S.F.No.37/t, 37/23(P), 37/24(P), 37/25(P) & 37/26 (P), Nallamur Village, Maduranthagam Taluk, Chengalpattu District by M/s.Naveen Enterprises - for Environmental Clearance. (SIA/TN/MIN/407621/2022, dt 23.11.2022)**

  
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The proposal was placed in 363<sup>rd</sup> SEAC meeting held on 14.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website ([parivesh.nic.in](http://parivesh.nic.in)).

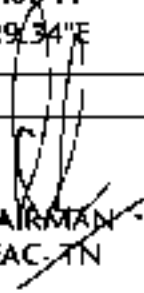
The SEAC noted the following:

1. The Project Proponent, M/s.Naveen Enterprises has applied for Environmental Clearance for the proposed Rough Stone and Gravel Quarry lease over an extent of 2.83.20Ha at S.F.No.37/1, 37/23(P), 37/24(P), 37/25(P) & 37/26 (P), Nallamur Village, Maduranthagam Taluk, Chengalpattu 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 mining plan, the lease period is 5 years. The mining plan is for the period of 5 years & the production should not exceed 386964m<sup>3</sup> of Rough Stone & 46736 m<sup>3</sup> of Gravel. The annual peak production shall not exceed 78855 m<sup>3</sup> of Rough Stone (4<sup>th</sup> Year) & 21010 m<sup>3</sup> of Gravel (2<sup>nd</sup> Year). The ultimate depth – 25m BGL.

Sl. No	Details of the Proposal	Data Furnished
1.	Name of the Owner/Firm	M/s.Naveen Enterprises Side Portion, No.2/141-4, Udayar Street, Meenampalli, Namakkal Taluk, Namakkal District, Tamil Nadu – 637019.
2.	Type of quarrying (Savudu/Rough Stone/Sand/Granite)	Rough Stone and Gravel
3.	S.F.No Of the quarry site with area break-up	37/1, 37/23(P), 37/24(P), 37/25(P) & 37/26 (P)
4.	Village in which situated	Nallamur
5.	Taluk in which situated	Maduranthagam
6.	District in which situated	Chengalpattu
7.	Extent of quarry (in ha.)	2.83.20Ha
8.	Latitude & Longitude of all corners of the quarry site	12°25'8.44"N to 12°25'13.88"N 79°55'21.25"E to 79°55'29.34"E
9.	Topo Sheet No.	57 – P/15

  
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10.	Type of mining		Opencast Semi - Mechanized of Mining																																																																																																																																																																								
11.	Mineable reserve	:	494584 m <sup>3</sup> of Rough Stone & 46736 m <sup>3</sup> of Gravel.																																																																																																																																																																								
12.	Ultimate pit dimension upto life of mine/mineable reserve	:	<p>The ultimate pit limit has been determined and shown in the attached plan.</p> <table border="1"> <thead> <tr> <th colspan="7">ESTIMATE PILLAR (100% - CIV - 04)</th> </tr> <tr> <th>Depth</th> <th>Block S.L.</th> <th>Area</th> <th>Overburden</th> <th>L</th> <th>W</th> <th>D</th> </tr> <tr> <th></th> <th></th> <th></th> <th>Material</th> <th>mm</th> <th>mm</th> <th>mm</th> </tr> </thead> <tbody> <tr> <td>I</td> <td>81.20 to 81.00</td> <td></td> <td>Gravel</td> <td>60</td> <td>100</td> <td>2</td> </tr> <tr> <td>II</td> <td>81.00 to 80.80</td> <td></td> <td>Rough stone</td> <td>80</td> <td>120</td> <td>3</td> </tr> <tr> <td>III</td> <td>80.80 to 80.60</td> <td></td> <td>Rough stone</td> <td>100</td> <td>150</td> <td>4</td> </tr> <tr> <td>IV</td> <td>80.60 to 80.40</td> <td></td> <td>Rough stone</td> <td>120</td> <td>180</td> <td>5</td> </tr> <tr> <td>V</td> <td>80.40 to 80.20</td> <td></td> <td>Rough stone</td> <td>140</td> <td>210</td> <td>6</td> </tr> <tr> <td>VI</td> <td>80.20 to 80.00</td> <td></td> <td>Rough stone</td> <td>160</td> <td>240</td> <td>7</td> </tr> <tr> <td>VII</td> <td>80.00 to 79.80</td> <td></td> <td>Rough stone</td> <td>180</td> <td>270</td> <td>8</td> </tr> <tr> <td>VIII</td> <td>79.80 to 79.60</td> <td></td> <td>Rough stone</td> <td>200</td> <td>300</td> <td>9</td> </tr> <tr> <td colspan="3">Total</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="7">ESTIMATE PILLAR (100% - CIV - 05)</th> </tr> <tr> <th>Depth</th> <th>Block S.L.</th> <th>Area</th> <th>Overburden</th> <th>L</th> <th>W</th> <th>D</th> </tr> <tr> <th></th> <th></th> <th></th> <th>Material</th> <th>mm</th> <th>mm</th> <th>mm</th> </tr> </thead> <tbody> <tr> <td>I</td> <td>81.20 to 81.00</td> <td></td> <td>Gravel</td> <td>60</td> <td>100</td> <td>2</td> </tr> <tr> <td>II</td> <td>81.00 to 80.80</td> <td></td> <td>Rough stone</td> <td>80</td> <td>120</td> <td>3</td> </tr> <tr> <td>III</td> <td>80.80 to 80.60</td> <td></td> <td>Rough stone</td> <td>100</td> <td>150</td> <td>4</td> </tr> <tr> <td>IV</td> <td>80.60 to 80.40</td> <td></td> <td>Rough stone</td> <td>120</td> <td>180</td> <td>5</td> </tr> <tr> <td>V</td> <td>80.40 to 80.20</td> <td></td> <td>Rough stone</td> <td>140</td> <td>210</td> <td>6</td> </tr> <tr> <td>VI</td> <td>80.20 to 80.00</td> <td></td> <td>Rough stone</td> <td>160</td> <td>240</td> <td>7</td> </tr> <tr> <td>VII</td> <td>80.00 to 79.80</td> <td></td> <td>Rough stone</td> <td>180</td> <td>270</td> <td>8</td> </tr> <tr> <td>VIII</td> <td>79.80 to 79.60</td> <td></td> <td>Rough stone</td> <td>200</td> <td>300</td> <td>9</td> </tr> <tr> <td colspan="3">Total</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	ESTIMATE PILLAR (100% - CIV - 04)							Depth	Block S.L.	Area	Overburden	L	W	D				Material	mm	mm	mm	I	81.20 to 81.00		Gravel	60	100	2	II	81.00 to 80.80		Rough stone	80	120	3	III	80.80 to 80.60		Rough stone	100	150	4	IV	80.60 to 80.40		Rough stone	120	180	5	V	80.40 to 80.20		Rough stone	140	210	6	VI	80.20 to 80.00		Rough stone	160	240	7	VII	80.00 to 79.80		Rough stone	180	270	8	VIII	79.80 to 79.60		Rough stone	200	300	9	Total							ESTIMATE PILLAR (100% - CIV - 05)							Depth	Block S.L.	Area	Overburden	L	W	D				Material	mm	mm	mm	I	81.20 to 81.00		Gravel	60	100	2	II	81.00 to 80.80		Rough stone	80	120	3	III	80.80 to 80.60		Rough stone	100	150	4	IV	80.60 to 80.40		Rough stone	120	180	5	V	80.40 to 80.20		Rough stone	140	210	6	VI	80.20 to 80.00		Rough stone	160	240	7	VII	80.00 to 79.80		Rough stone	180	270	8	VIII	79.80 to 79.60		Rough stone	200	300	9	Total						
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13.	Lease Period of quarrying	:	10 years																																																																																																																																																																								
14.	Mining Plan validity		10 years																																																																																																																																																																								
15.	Production & Development Plan		5 years																																																																																																																																																																								
16.	Production (Quantity in m <sup>3</sup> ) for the first 5 years	:	386964m <sup>3</sup> of Rough Stone & 46736 m <sup>3</sup> of Gravel																																																																																																																																																																								
17.	Annual peak production Capacity		78855 m <sup>3</sup> of Rough Stone & 21010 m <sup>3</sup> of Gravel																																																																																																																																																																								
18.	Ultimate Depth of quarrying	:	40m																																																																																																																																																																								
19.	Depth of water table	:	55m – 50m BGL																																																																																																																																																																								
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21.	Source of Water Requirement		water vendors																																																																																																																																																																								
22.	Water requirement: 17. Drinking & domestic purposes (in KLD)	:	6.75 KLD 2.75 KLD  2.0 KLD 2.0 KLD																																																																																																																																																																								



	18. Dust suppression, Green Belt & Wet Drilling (in KLD)		
23.	Power requirement a. Domestic Purpose b. Industrial Purpose		TNEB 317358 Liters of HSD
24.	Whether any habitation within 300m distance	:	No
25.	Precise area communication approved by the, District Collector, Department of Geology and Mining with date	:	Rc.No.2185/Karimam/2020, dt: 21.09.2022
26.	Mining Plan approved by Assistant Director (i/c), Department of Geology and Mining with date	:	Roc.No.2185/Mines/2022, dt: 19.10.2022
27.	Assistant Director (i/c), Department of Geology and Mining 500m cluster letter		Roc.No.2185/Mines/2022, dt: 19.10.2022
28.	VAO certificate regarding 300m radius cluster		Letter dt: 23.11.2022.
29.	Project Cost (excluding EMP cost)	:	Rs.121.55 Lakh
30.	EMP cost	:	Rs.181.534 Lakhs/10 Years
31.	CER cost		Rs.6.0 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the production of 386964m<sup>3</sup> of Rough Stone & 46736 m<sup>3</sup> of Gravel with the annual peak production shall not exceed 78855 m<sup>3</sup> of Rough Stone & 21010 m<sup>3</sup> of Gravel keeping the ultimate pit depth of 40 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.

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

2. The PP shall inform the notice of opening of the quarry to the Director of Mines Safety (DMS)/Chennai Region and get the necessary statutory permission under the MMR 1961 pertaining to the mine working operations in the proposed quarry from the DMS, Chennai before obtaining the CTO.
3. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961 before the obtaining the CTO from the DEE/TNPCB.
4. The proponent shall maintain the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
5. Further, the PP shall maintain the garland drain with proper size, gradient and length along the boundary of the pit leaving behind the mandatory safety zone of 7.5 / 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 planned working by maintaining 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 benches of the benches made in this quarry during 3rd year of operation, 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.

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. Since few structures are located at 300-400 m from the site, within six months 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

  
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- confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry.
15. Within two year from the commencement of mining operations, the Project Proponent shall carry out the hydrological studies on 'Cumulative Impacts of the quarrying operations on the water bodies located in the surrounding villages', 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, University of Madras – Dept of Geology, and Anna University – CEG Campus – Dept of Geology. 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
  16. The PP shall meticulously carry out the mitigation measures as spelt out in the revised EMP.
  17. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
  18. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
  19. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
  20. As accepted by the Project proponent the CER cost is Rs. 6 Lakhs and the amount shall be spent for the Government Higher Secondary School, Polambakkam Village as committed, before obtaining CTO from TNPCB.

Agenda No: 363 – 15.

(File No: 9615/2022)

Proposed Rough Stone and Gravel Quarry lease over an extent of 1.91.0Ha at S.F.No.721/2, 3A & 725/3B(P), Medcode Village, Thiruvattar Taluk, Karanthakumari District by Thiru. M.George Rajan - for Environmental Clearance. (SIA/TN/MIN/408095/2022, dt 26.11.2022)

  
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The proposal was placed in 363<sup>rd</sup> SEAC meeting held on 14.03.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. M.George Rajan has applied for Environmental Clearance for the proposed Rough Stone and Gravel Quarry lease over an extent of 1.91.0Ha at S.F.No.721/2, 3A & 725/3B(P), Medcode Village, Thiruvattar Taluk, Kanniyakumari 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 mining plan, the lease period is 5 years. The mining plan is for the period of 5 years & the production should not exceed 258200m<sup>3</sup> of Rough Stone & 24730 m<sup>3</sup> of Gravel. The annual peak production shall not exceed 52,700 m<sup>3</sup> of Rough Stone (3<sup>rd</sup> Year) & 10300 m<sup>3</sup> of Gravel (1<sup>st</sup> Year). The ultimate depth – 15m AGL & 40m BGL.

Based on the presentation and documents furnished by the project proponent, SEAC noted that the proposed quarry site is completely covered with green vegetation with rich biodiversity and also there is a CSI Church situated at 220m and also a Valiyattumugam Issaki Amman Temple within 300m radial distance of the proposed quarry site. Further, the TNMMCR, 1959 Rule No. 36 (1-A) (a) states that "no lease shall be granted for quarrying stone within 300m from any inhabited site".

In view of the above, SEAC has decided not to recommend the proposal for the grant of Environmental Clearance.

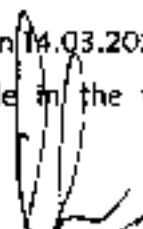
**Agenda No: 363-16**

**(File No: 9580/2022)**

**Proposed Gravel Quarry lease over an extent of 2.64.5 Ha at S.F.No's: 1260/1, 2A, 2B & 1261/8, Melmangalam Bit-1 Village, Periyakulam Taluk, Theni District, Tamil Nadu by Thiru. M.Enulaha -For Environmental Clearance (SIA/TN/MIN/405526/2022 dt 07.11.2022).**

The proposal was placed in this 363<sup>rd</sup> meeting of SEAC held on 14.03.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

  
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**The SEAC noted the following**

1. The Project Proponent, Thiru. M.Erulaiya has applied for Environmental Clearance for the the Proposed Gravel Quarry lease over an extent of 2.64.5 Ha at S.F.No's: 1260/1, 2A, 2B & 1261/8, Melmangalam Bit-I Village, Periyakulam Taluk, Theni 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 salient features of the proposed project as follows

Sl. No	Details of the Proposal	
1.	Name of the Owner/Firm	Thiru. M.Erulaiya S/o Marriyappan No, 45/55, Thanikondan Village, Avudaiyarkovil Taluk, Pudhukottai District-614 629.
2.	Type of quarrying	Gravel Quarry
3.	S.F No. Of the quarry site with area break-up	1260/1, 2A, 2B & 1261/8
4.	Village In which situated	Melmangalam Bit-I
5.	Taluk in which situated	Periyakulam
6.	District in which situated	Theni
7.	Extent of quarry (In ha.)	2.64.5Ha
8.	Lease period	3 years/New
9.	Life of the mine	3 years
10.	Lease Period of quarrying	3 Years
11.	Type of mining	Opencast method of shallow mining
12.	Production (Quantity in m3)	As per the mining plan the lease period is 3 years. The mining plan is for the period of 3 years & production should not exceed 21762m <sup>3</sup>

		of Gravel upto an ultimate depth of 1m BGL.
13.	Annual peak Production (Quantity in m3)	The annual peak production is 15120m <sup>3</sup> of Gravel
14.	Ultimate Depth of quarrying	1m BGL
15.	Depth of water table	63m to 58m BGL
16.	Latitude & Longitude of all corners of the quarry site	10°05'43.72"N to 10°05'49.92"N 77° 35'23.78"E to 77° 35'30.15"E
17.	Top Sheet No.	58-F/12
18.	Man Power requirement per day:	8Nos.
19.	Precise area communication approved by the District Collector with date	NA.KA.No.1045/Kanimam/2021. Dated:17.02.2022
20.	Mining Plan approved by Assistant Director & Geology and Mining with date	Roc.No.1045/Mines/2021.Dated:28.02.2022
21.	Assistant Director & Geology and Mining, mines 500m cluster letter	Roc.No.1045/Mines/2021,Dated:05.08.2022
22.	VAO certificate regarding 300m radius cluster	Letter dated: Nil
23.	Water requirement:	2.0 KLD
	19. Drinking & Domestic Water (In KLD)	0.4 KLD 1.0 KLD
	20.Dust suppression(in KLD)	0.6 KLD
	21. Greenbelt (In KLD)	
24.	Power requirement e. Domestic Purpose	TNEB 7250Liters of HSD
25.	Project Cost	Rs. 24.56.000/-
26.	EMP cost	Capital cost: Rs.13,31,900/- Recurring cost: Rs.5,80,890/- Annum

  
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27. Conservation cost	Rs.2,00,000/- as accepted by the PP
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Based on the presentation made by the proponent and the documents, SEAC considering the richness of the topsoil decided to recommend the proposal for the grant of Environmental Clearance for the restricted quantity 21,762m<sup>3</sup> of Gravel for the period of 3 years with maintaining an ultimate pit depth of 1m 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.
2. The Topsoil should be used for rich vegetation around the lease area.
3. Tree plantation & fencing around the mine lease area shall be completed before starting the production.
4. 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.
5. 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.
6. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
7. 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.

8. 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.
9. 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.
10. 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.
11. 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.
12. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
13. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.

  
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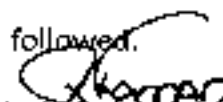
  
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14. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted in proper spacing as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent 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
15. **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.
16. Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
17. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 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.
18. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
19. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project proponent shall ensure that the road may not be damaged due to transportation of the quarried rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
20. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.

  
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21. 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.
22. 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.
23. 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.
24. 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.
25. 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/DB(Geology and Mining) District Environmental Engineer (TNPCCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
26. 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.
27. 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.
28. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.

  
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29. The Project proponent shall install a Display Board at the entrance of the mining lease area/abutting the public Road, about the project information as shown in the Appendix -II of this Minutes.

30. 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.

31. The PP agrees to spend an amount of Rs. 2.0 lakhs towards Conservation Cost for Kodaikkal Wild Life Sanctuary to Head Account of Respective DFO of concerned District since the site is within 10km radius.

**Agenda No: 363-17**

**(File No: 9587/2022)**

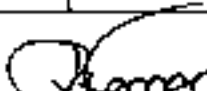
**Proposed Rough Stone & Gravel lease over an extent of 1.00.0 Ha at S.F.No's: 289/1, Sengundrapuram Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Thiru P.Dinesh Mari -For Environmental Clearance (SIA/TN/MIN/408133/2022 dt 28.11.2022).**

The proposal was placed in this 363<sup>rd</sup> meeting of SEAC held on 14.03.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru P.Dinesh Mari has applied for Environmental Clearance for the the Proposed Rough Stone & Gravel lease over an extent of 1.00.0 Ha at S.F.No's: 289/1, Sengundrapuram Village, Virudhunagar Taluk, Virudhunagar - District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The fire cracker manufacturing units are located beyond 400 m distance from the proposed quarry site.
4. The salient features of the proposed project as follows

Sl. No	Details of the Proposal	
1.	Name of the Owner/Firm	Thiru P.Dineshmarl S/o. M. Pitchaimuthu, No.2/614,VOC Nagar, Soolakaraimedu, Virudhunagar Taluk.

  
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		Virudhunagar District-626003.
2.	Type of quarrying	Rough stone & Gravel
3.	S.F No. Of the quarry site with area break-up	289/1
4.	Village in which situated	Sengundrapuram
5.	Taluk in which situated	Virudhunagar
6.	District in which situated	Virudhunagar
7.	Extent of quarry (in ha.)	1.00.0 Ha
8.	Lease period	5 years
9.	Estimated life of the mine	5 years
10.	Mining Plan Period	5 Years
11.	Type of mining	Opencast mechanized method with drilling and blasting
12.	Production (Quantity in m <sup>3</sup> )	The production should not exceed 77,800m <sup>3</sup> of Rough Stone & 30,008m <sup>3</sup> of Gravel
13.	Annual peak Production (Quantity in m <sup>3</sup> )	The annual peak production is 27,730m <sup>3</sup> of Rough Stone & 10,168m <sup>3</sup> of Gravel
14.	Ultimate Depth of quarrying	30m (1m Topsoil + 4m Gravel + 25m Rough stone) BGL
15.	Depth of water table	40m to 45m BGL
16.	Latitude & Longitude of all corners of the quarry site	9°36'39.8"N to 9°36'44.7"N 77° 52'50.1"E to 77° 52'48.3"E
17.	Top Sheet No.	58-G/14
18.	Man Power requirement per day:	11 Nos.
19.	Precise area communication approved by the Assistant Director & District Collector with date	NA.KA.No.KV1/901/2022- Kanimam, Dated:06.09.2022.
20.	Mining Plan approved by Assistant Director & Geology and Mining with date	Roc.No. KV1/901/2022, Dated:06.10.2022

  
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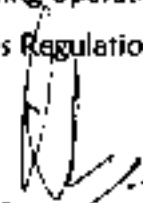
21.	Assistant Director & Geology and Mining, mines 500m cluster letter	Roc.No. KV1/901/2022, Dated:06.10.2022
22.	VAO certificate regarding 300m radius cluster	Letter dated: 20.09.2022
23.	Water requirement: 22. Drinking & Domestic Water (in KLD) 23. Dust suppression (In KLD) 24. Greenbelt (In KLD)	2.0 KLD 0.5 KLD 1.0 KLD 0.5 KLD
24.	Power requirement f. Domestic Purpose	TNEB
25.	Project Cost	Rs. 72,64,604.34/-
26.	EMP cost	Capital cost: 14.71 Lakhs Recurring cost: 14.57 Lakhs/Annum
27.	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 exceed 77,800m<sup>3</sup> of Rough Stone & 30,008m<sup>3</sup> of Gravel with maintaining an Ultimate depth of 30m BGL & annual peak production capacity of not exceeding 27,730m<sup>3</sup> of Rough Stone & 10,168m<sup>3</sup> of Gravel subject to the standard conditions as per the Annexure 1 of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:


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

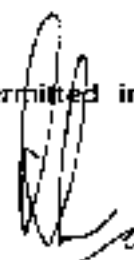
  
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3. The PP shall submit the 'Notice of Opening' of the quarry to the Regional Inspector/Director of Mines Safety, Chennai Region under the section 16 of the Mines Act, 1952 and in accordance with the Reg. 3 of MMR 1961 before obtaining the CTO.
4. The proponent shall construct the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
5. 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).
6. 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.
7. However, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m, 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.
8. 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 considering the wind direction before obtaining the CTO from the TNPCB.
9. No 'Deep-hole large diameter drilling and blasting' is permitted in the proposed quarries.

  
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10. The PP shall carry out maximum of two rounds of controlled blast only per day, restricted to the maximum of 50 to 60 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 300 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 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. As the structures are located at a distance of 400 to 500 m range, 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.
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 only as per the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.
14. The PP shall ensure that 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.
15. The PP shall meticulously carry out the mitigation measures as spelled out in the revised EMP.



16. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and Its Integrated Regional Office (IRO) located In Chennai.
17. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
18. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
19. As accepted by the Project proponent the CER cost is Rs. 5 lakhs and the amount shall be spent for the Government Primary School, Kundalapatti Village as committed, before obtaining CTO from TNPCB.

**Agenda No: 363-1B**

**(File No: 9609/2022)**

**Proposed Rough Stone & Gravel lease over an extent of 2.27.0 Ha at S.F.No's: 11/1B, 11/2A, 11/2B & 12/2F3, Vellalapatti Village, Omalur Taluk, Salem District, Tamil Nadu by Thiru C.Nallayan -For Environmental Clearance (SIA/TN/MIN/404490/2022 dt 28.10.2022).**

The proposal was placed in this 363<sup>rd</sup> meeting of SEAC held on 14.03.2023. 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, C.Nallayan has applied for Environmental Clearance for the the Proposed Rough Stone & Gravel lease over an extent of 2.27.0 Ha at S.F.No's: 11/1B, 11/2A, 11/2B & 12/2F3, Vellalapatti Village, Omalur Taluk, Salem 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. Environmental clearance for the lease area was obtained earlier from SEIAA-TN, vide Lr.No. SEIAA-TN/F.No.7237/EC/1(a)/4561/2020, dated 24.02.2021 in the name of Thiru. C.Nallayan for Rough stone & Gravel quarrying at S.F.No's: 11/1B, 11/2A, 11/2B & 12/2F3, Vellalapatti Village, Omalur Taluk, Salem District, Tamil

  
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Nadu upto a depth of 17m BGL.

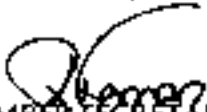
4. As per the approved modified mining plan the lease period is 5 years. The mining plan is for the period of 05.05.2022 to 04.05.2026 & production should not exceed 43,282 m<sup>3</sup> of Rough Stone & 6,758 m<sup>3</sup> of gravel. The annual peak production is 10922 m<sup>3</sup> of Rough Stone & 3386 m<sup>3</sup> of Gravel. The ultimate depth is 17mBGL.
5. No change in lease area & Extent, production load increased to 82%.

Based on the presentation made by the proponent, the SEAC called for the following details from the PP,

1. The PP shall submit Certified Compliance Report obtained from the office of IRO, MoEF & CC, Chennai on the existing EC Issued and appropriate mitigating measures for the non-compliance items, if any.
2. The PP shall furnish a letter obtained from AD/DD Mine & Geology with respect to exact depth of existing Pit, period of the operation and stoppage of the earlier mines & quantity of minerals mined out.
3. The proponent shall erect the 'S3 (or) G2' type of Barbed wire fencing all around the boundary of the existing working quarry with gates for entry/exit.
4. the proponent shall complete the plantation as a part of Greenbelt development by considering the native species on all sides of the lease area.
5. The PP shall submit photographic evidences indicating Garland drain all around the boundary of the project area.
6. The PP shall enumerate the permanent structures - which may belongs to the PP or not - situated within 100m, 200m & 300m radius of the proposed mining area.

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

Agenda No: 363-19  
File No: 9574/2022)

  
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**Proposed Rough stone quarry lease over an extent of 1.75.0 Ha in S.F.No. 60 (part-1) S.Kollur Village of Kandachipuram Taluk, Viluppuram District, Tamil Nadu by Thiru M. SIVARAMAN - For Environmental Clearance. (SI/TN/MIN/ 404372/2022) Dated: 28.10.2022**

The proposal was placed for appraisal in this 363<sup>rd</sup> meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are available on the PARIVESH website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Thiru M. SIVARAMAN has applied for Environmental Clearance for the Proposed Rough stone quarry lease over an extent of 1.75.0 Ha in S.F.No. 60 (part-1) S.Kollur Village of Kandachipuram Taluk, Viluppuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended.

Sl. No.	Details of the Proposal	
1.	Name of the Owner / Firm	THIRU. M. SIVARAMAN S/o. Murugaiyan, No.3, Theppakulam Street Santhu, Thirukovilur Taluk, Kallakurichi District – 605 757
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough stone
3.	S.F No. of the quarry site	60 (Part-1)
4.	Village	S.Kollur
5.	Taluk	Kandachipuram
6.	District	Viluppuram
7.	Extent of Quarry (in ha.)	1.75.0 Ha Government land
8.	Lease Period of Quarrying proposed	5 Years
9.	Life of the project	5 years
10.	Mining Plan Validity period	5 years
11.	Type of Mining	Open cast mechanized method of mining

  
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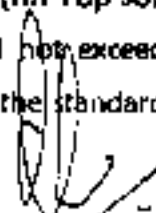
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12.	Production (Quantity in m <sup>3</sup> )	As per the approved mining plan, <b>Geological Resources:</b> Rough Stone - 7,30,998m <sup>3</sup> <b>5-Year production:</b> Rough Stone -2,60,798m <sup>3</sup> The annual peak production as per mining plan is 69,400 m <sup>3</sup> of Rough Stone
13.	Ultimate Depth of Mining	45m BGL
14.	Latitude & Longitude of all corners of the quarry site	11°58'58.1359"N to 11°59'04.1668"N 79°14'57.5993"E to 79°15'03.3798"E
15.	Topo sheet No.	58 - M/01 and 58M/05
16.	Man power requirement	27 Nos
17.	Precise Area Communication	Rc.No. B/G&M/24/2021 Dated:25.02.2021
18.	Mining plan approval letter	Rc.No. B/G&M/24/2021 Dated:23.03.2021.
19.	500m letter	Rc.No. B/G&M/24/2021 Dated:23.03.2021
20.	Water requirement: 1. Drinking & domestic purposed (in kLD) 2. Dust Suppression (in kLD) & Green Belt (in kLD)	1.5 kLD 0.4 kLD & 0.6 kLD 0.5kLD
21.	Power requirement: a. Domestic purpose b. Industrial Purpose	TNEB DG set
22.	Depth of Water table	56m -60m
23.	Whether any habitation within 300m distance	Nil
24.	Project cost	Rs. 64,94,000/-
25.	EMP cost	Capital cost: Rs. 25,52,500/- Recurring cost/Annum: Rs. 18,19,825/-
26.	CER cost	Rs. 5.0 lakh
27.	VAO letter dated	10.03.2021

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a production quantity of 2,60,798 m<sup>3</sup> of Rough stone to a depth of 45m (1m Top Soil + 44m Rough Stone) in 5 years and the annual peak production shall not exceed 69,400 m<sup>3</sup> of Rough Stone as per the approved mining plan subject to the standard

  
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conditions as per the Annexure 1 of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m. before obtaining CTO from TNPCB.
4. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in all the quarries of this cluster site collectively if amalgamation is done and when the depth of the working touches 30 m (or) during the 3<sup>rd</sup> year whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IIT-Chennai, NIT-Dept of Mining Engineering, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
5. Considering the existence of state highway and a farm house at 500 m from the site, within six months of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the cluster mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock'. by involving a reputed Research and Academic Institution such as NIRM, IIT(ISM), IIT-Madras, Anna University Chennai-Dept

  
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- of Mining Engg, NIT Surathkal, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
6. The Project Proponent shall not carry out the secondary rock breakage involving blasting operations and use only the non-explosive techniques such as rock breakers, etc.
  7. The Project Proponent shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
  8. The Project Proponent shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
  9. The Project Proponent shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.
  10. Considering the existence of the odai and tank are located @ 130m to 400 m from the site, within one year of the commencement of mining operations, the Project Proponent shall carry out the hydrological studies on 'Cumulative impacts of the quarrying operations on the water bodies located in the surrounding villages', 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, University of Madras - Dept of Geology, and Anna University - CEG Campus - Dept of Geology. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance
  11. The 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 P.No. 22-65/2017-1A.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
17. As accepted by the Project proponent the CER cost is Rs. 5.0 lakh and the amount shall be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.

**Agenda No: 363-20**

**File No: 9588/2022)**


**Proposed Rough Stone and Gravel quarry lease over an extent of 1.13.50 Ha in S.F.No. 94/1, 94/2, 94/3 Sengundrapuram Village of Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Thiru. S. Ramasamy- For Environmental Clearance.**

**(SIA/TN/MIN/ 408167/2022) Dated: 29.11.2022**

The proposal was placed for appraisal in this 363<sup>rd</sup> meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are available on the PARIVESH website ([parivesh.nic.in](http://parivesh.nic.in)).

**The SEAC noted the following:**

1. The project proponent, Thiru. S. Ramasamy has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease over an extent

  
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of 1.13.50 Ha in S.F.No. 94/1, 94/2, 94/3 Sengundrapuram Village of Virudhunagar Taluk, Virudhunagar District, Tamil Nadu.

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

Sl. No.	Details of the Proposal	
1.	Name of the Owner / Firm	Thiru.S. RAMASAMY S/o. Sri. Sheshadri 4/887A, Balaji Nagar, Soolakkarai, Virudhunagar Taluk, Virudhunagar District.
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough Stone and Gravel
3.	S.F No. of the quarry site	94/1, 94/2, 94/3
4.	Village	Sengundrapuram
5.	Taluk	Virudhunagar
6.	District	Virudhunagar
7.	Extent of Quarry (in ha.)	1.13.50 Ha Patta land
8.	Period of Quarrying proposed	5 Years
9.	Type of Mining	Open cast mechanized method of mining
10.	Production (Quantity in m <sup>3</sup> )	As per the approved mining plan, <b>Geological Resource:</b> Rough Stone - 3.50,610m <sup>3</sup> <b>5-Year production:</b> Rough Stone - 75.912m <sup>3</sup> , Gravel - 44.268 m <sup>3</sup> The annual peak production as per mining plan is 37,200 cu.m of Rough Stone
11.	Ultimate Depth of Mining	31m
12.	Latitude & Longitude of all corners of the quarry site	09°36'14.6"N to 09°36'16.3"N 77°53'34.5"E to 77°53'39.3"E
13.	Topo sheet No.	58 - G/14
14.	Man power requirement	27 Nos
15.	Precise Area Communication	Rc.No. KV1/1174/2022- Mines, dated 14.10.2022
16.	Mining plan approval letter	Rc.No. KV1/1174/2022- Mines, dated 19.10.2022
17.	500m letter	Rc.No. KV1/1174/2022- Mines, dated 19.10.2022
18.	Water requirement: 3. Drinking & domestic purposed (in kLD)	2.5 kLD 1.0 kLD 1.5 kLD

  
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	4. Dust Suppression (in kLD) & Green Belt (in kLD)	
19.	Power requirement: c. Domestic purpose d. Industrial Purpose	TNEB -
20.	Depth of Water table	56m -60m
21.	Whether any habitation within 300m distance	Nil
22.	Project cost	Rs. 40,76,954/-
23.	EMP cost	Capital cost: Rs. 15.0 lakh Recurring cost/Annum: Rs. 14.59 lakh
24.	CER cost	Rs. 5.0 lakh
25.	VAO letter dated	17.10.2022

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a production quantity of Rough stone -75,912 m<sup>3</sup>, Gravel - 44,268 m<sup>3</sup> to a depth of 31m In 5 years and the annual peak production shall not exceed 37,200 m<sup>3</sup> of Rough Stone as per the approved mining plan subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The Project Proponent shall furnish slope stability action plan to the concerned AD (Mines) for the planned working by maintaining appropriate benches incorporating the haul road with proper gradient as the depth of the proposed quarry is exceeding 30 m, before obtaining CTO from TNPCB.

  
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4. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in all the quarries of this cluster site collectively if amalgamation is done and when the depth of the working touches 30 m (or) during the 3<sup>rd</sup> year whichever is earlier, by involving a reputed Research and Academic Institution such as NIRM, IIT-Chennai, NIT-Dept of Mining Engineering, Surathkal, Anna University Chennai-CEG Campus, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
5. Within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the cluster mines on the surrounding villages and the prominent structures such as blast-induced ground/air vibrations and fly rock', by involving a reputed Research and Academic Institution such as NIRM, IIT(ISM), IIT-Madras, Anna University Chennai-Dept of Mining Engg, NIT Surathkal, and any CSIR Laboratories etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance.
6. The Project Proponent shall not carry out the secondary rock breakage involving blasting operations and use only the non-explosive techniques such as rock breakers, etc.
7. The Project Proponent shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
8. The Project Proponent shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
9. The Project Proponent shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.

10. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
11. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
12. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
13. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
14. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
15. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.
16. As accepted by the Project proponent the CER cost is Rs. 5.0 lakh and the amount shall be spent for the activities committed during SEAC appraisal before obtaining CTO from TNPCB.

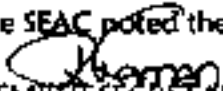
**Agenda No: 363-21**

**File No: 9595/2022)**

**Proposed Rough Stone and Gravel quarry lease over an extent of 3.10.0 Ha in S.F.No. 108/2(P), 108/3(P), 108/4(P), 108/5(P), 109/2, 109/3, 109/4, 109/5 and 109/6 Ariyanayagipuram Village of Kadayanallur Taluk, Tenkasi District, Tamil Nadu by Thiru. M.Kalyanasunderam- For Environmental Clearance. (SIA/TN/MIN/407226/2022) Dated: 20.11.2022**

The proposal was placed for appraisal in this 363<sup>rd</sup> meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

  
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1. The project proponent, Thiru. M.Kalyanasundaram has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease over an extent of 3.10.0 Ha in S.F.No. 108/2(P), 108/3(P), 108/4(P), 108/5(P), 109/2, 109/3, 109/4, 109/5 and 109/6 Ariyanayagipuram Village of Kadayanallur Taluk, Tenkasi District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006, as amended.

Sl. No.	Details of the Proposal	
1.	Name of the Owner / Firm	Thiru. M.Kalyanasundaram, S/o. Malaiyappan, No.38, Kozhumbhu Street, Kadayanallur Taluk, Tenkasi District - 627 759
2.	Type of quarrying (savudu / Rough stone / Sand / Granite)	Rough Stone and Gravel
3.	S.F No. of the quarry site	108/2(P), 108/3(P), 108/4(P), 108/5(P), 109/2, 109/3, 109/4, 109/5 and 109/6
4.	Village	Ariyanayagipuram
5.	Taluk	Kadayanallur
6.	District	Tenkasi
7.	Extent of Quarry (In ha.)	3.10.0 Ha Patta land
8.	Lease Period of Quarrying	10 Years
9.	Mining Plan Validity	10 years
10.	Production & Development Plan	For first 5 years
11.	Type of Mining	Open cast mechanized method of mining
12.	Production (Quantity In m <sup>3</sup> )	As per the approved mining plan, <b>Geological Resources:</b> Rough Stone - 11,78,000m <sup>3</sup> and Gravel - 62,000 m <sup>3</sup> to an ultimate depth of 40m.  <b>5-Year production:</b> Rough Stone - 4,30,403 m <sup>3</sup> and Gravel 47,044 m <sup>3</sup>  The as per mining plan is

  
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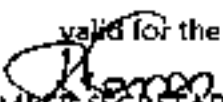
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13.	annual peak production capacity	92,100 m <sup>3</sup> of Rough Stone & 18,396 m <sup>3</sup> of Gravel
14.	Proposed Depth of Mining	40m BGL
15.	Latitude & Longitude of all corners of the quarry site	09°05'42.04"N to 09°05'49.04"N 77°23'31.24"E to 77°23'37.57"E
16.	Topo sheet No.	58 G/08
17.	Man power requirement	38 Nos
18.	Precise Area Communication	Roc.No.M1/37557/2020, Dated: 22.09.2022
19.	Mining plan approval letter	Rc.No. M1/37557/2020, Dated: 03.10.2022
20.	500m letter	Rc.No. M1/37557/2020, Dated: 11.10.2022
21.	Water requirement:	2.5 kLD
	5. Drinking & domestic purposed (In kLD)	0.4 kLD
	6. Dust Suppression (in kLD) & Green Belt (In kLD)	1.3 kLD & 0.8 kLD
22.	Power requirement:	
	e. Domestic purpose	TNEB
	f. Industrial Purpose	DC set
23.	Depth of Water table	52m -57m
24.	Whether any habitation within 300m distance	Nil
25.	Project cost	Rs. 1,18,83,000/-
26.	EMP cost	Capital cost: Rs. 31,55,000/- Recurring cost/Annum: Rs. 23,51,498/-
27.	CER cost	Rs. 10.0 lakh
28.	VAO letter dated	10.10.2022

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for a production quantity of Rough Stone – 4,30,403m<sup>3</sup>, Gravel – 47,044 m<sup>3</sup> to a depth of 40m BGL (2m + 38m) for the first 5 years and however the annual peak production shall not exceed 92,100 m<sup>3</sup> of Rough Stone & 18,396 m<sup>3</sup> of Gravel in the remaining lease period as per the mining plan approved by the competent authority subject to the standard conditions as per the Annexure 1 of this minutes & normal conditions stipulated by MOEF &CC. In addition to the following specific conditions:

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

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

2. The mine manager and other statutory competent persons such as blaster (or) mine mate shall be appointed before the commencement of mining operation as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961.
3. The 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, before obtaining CTO from TNPCB.
4. However, the Project Proponent shall carry out the scientific studies to assess the slope stability of the benches of the proposed quarry (or) the benches made in all the quarries of this cluster site collectively if amalgamation is done and when the depth of the working touches 30 m (or) during the 3rd year whichever is earlier, by involving a reputed Research and Academic Institution such as CSIR-Central Institute of Mining & 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.
5. Considering the habitations are located at 400 m, within one year of the commencement of mining operations, the Project Proponent shall carry out the scientific studies on 'Cumulative Impacts of the blasting operations carried out in the 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 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.

6. The Project Proponent shall not carry out the secondary rock breakage involving blasting operations and use only the non-explosive techniques such as rock breakers, etc.
7. The Project Proponent shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the school/other habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone.
8. The Project Proponent shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
9. The Project Proponent shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him as per the provisions of MMR 1961.
10. The Project Proponent shall carry out the tree plantation to act as a barrier to reduce noise level and dust pollution along the boundary of the quarrying site considering the wind direction before obtaining the CTO from the TNPCB.
11. The Project Proponent shall also install necessary dust and noise extraction system around mineral handling area with proper enclosures before obtaining the CTO from TNPCB.
12. Since the quarry is located in the cluster, the Project Proponent shall ensure strict compliance of the provisions given under the Mines Rules, 1955 for the health and welfare of the persons employed therein.
13. The PP shall install the avenue tree plantation along the road leading to the crusher for a stretch of 1 km before obtaining the CTO from TNPCB.
14. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.

  
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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. 22-65/2017-1A.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. 10.0 lakh shall be remitted to the DFO, Kanyakumari as Conservation/ mitigation measures for Nellai Wildlife Sanctuary since the site is within 10km radius as committed during SEAC appraisal before obtaining CTO from TNPCCB.

**Agenda No: 363-22**

**(File No: 9816/2023)**

**Proposed Marine Bridge connecting Vivekananda rock to Ayyan Thiruvalluvar statue at Kanyakumari Taluk, Kanyakumari District, Tamil Nadu by The Divisional Engineer, Highways Department – For Environmental Clearance. (SIA/TN/MIN/418756/2023, dated 14.01.2023)**

Earlier, this proposal is placed in this 361<sup>st</sup> meeting of SEAC held on 10.03.2023. The details of the project furnished by the proponent are available in the website ([parlvesh.nic.in](http://parlvesh.nic.in)).

**The SEAC noted the following**

- The Divisional Engineer, Highways Department, Nagercoil has proposed for the construction of Marine Bridge connecting Vivekananda Rock Memorial and Ayyan Thiruvalluvar Statue at Kanyakumari Village, Kanyakumari district.
- The Project Proponent stated that the principle approval permitting Tamil Nadu Maritime Board (TNMB) to take up the Marine Bridge project connecting Vivekananda Rock memorial and Ayyan Thiruvalluvar Statue at Kanyakumari by utilizing TNMB's own funds and for collection of user Fee have been accorded vide G.O. Ms. No. 64, Highways & Minor Ports (HMI) Department, dated 27.04.2020.
- The Project Proponent stated that Tourists are taken to Vivekananda rock memorial and Thiruvalluvar statue by ferry service. The existing ferries at both

  
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rocks have facility to berth only one vessel at a time. Since the number of tourists visiting the site is increasing day by day, the existing ferry service is not able to meet the requirements. During low tide, it is difficult to operate ferries from Vivekananda Rock memorial to Thiruvalluvar Statue by which the tourists had to turn back without visiting the Thiruvalluvar statue spot. To meet the existing demand, to enhance the capacity of visitors to these two monuments and to give an opportunity to the tourists to visit Thiruvalluvar Statue Island even during low tide period also, it is necessary to construct a foot over Marine bridge connecting both monuments.

- The Project Proponent has submitted the project is given below.

Sl. No.	Variable	Proposed (Marine bridge with Highways Dept. as PP)
1	GPS Coordinates	Truss bridge anchors location at Ayyan Thiruvalluvar Memorial Rock Latitude : 8°4'40.626"N, Longitude : 77°33'14.906"E Latitude : 8°4'40.315"N, Longitude : 77°33'15.000"E
		Truss bridge anchors location at Swami Vivekananda Memorial Rock Latitude : 8°4'41.556"N, Longitude : 77°33'18.022"E Latitude : 8°4'41.244"N, Longitude : 77°33'18.116"E
2	Span	115.00m
3	Width	10.00m

  
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- The proposed bridge is a Network Arch type bridge in the obligatory portion and steel composite deck slab In Approach portion on either side. Network arch bridges are one of the suitable type bridge for long spans. The obligatory span of the bridge about 72m (centre to centre of the support). The width of the bridge is 10m (inner to inner). The height of the truss will be generally taken as one sixth of span. The deck slab is supported on longitudinal beams. The longitudinal beams in turn get supports on main transverse beams while transverse beam are supported on bottom chord members. The deck slab of the bridge of reinforced concrete over deck sheeting.
- Anchor arrangements: Anchor systems are provided at the two ends of the Network arch bridge and the approach portion bridge. The one end is falling in CRZ-II areas of Ayyan Thiruvalluvar Statue and another one end is falling in CRZ-IA (Archeological site) of Swami Vivekananda Rock memorial. The anchor system will transfer the load from the bridge to the rocky strata. The Project Proponent also provided the details of design loads, dead loads, live loads, water current forces, buoyancy forces, seismic force, material specifications, concrete details, etc.,

- Total cost of the project and CRZ classification

The total cost of the project is Rs.37.818 crores and the proposed site is falling in CRZ-IA (Archeological site), CRZ-II and CRZ-IVA areas.

- Recommendations of the DCZMA & SCZMA

The DCZMA of Kanyakumari district has recommended the project to SCZMA in the meeting held on 01.10.2022.

- The subject was placed before the 119<sup>th</sup> meeting of the Tamil Nadu State Coastal Zone Management Authority (TNSCZMA) held on 12.12.2022 and the TNSCZMA has examined the recommendation of the DCZMA of Kanyakumari district and existing clearance issued by the SCZMA. The SCZMA also observed the replies furnished by the Project Proponent on the remarks of the Technical Expert Committee and as per Para 4(i) and 4.2. (ii)(c) of the said Notification

and decided to recommend the proposal to State Environment Impact Assessment Authority of Tamil Nadu (SEIAA-TN)

• Provisions in the CRZ Notification, 2011

- As per the CRZ Notification, 2011 Para 4(i) and 4.2. (ii)(c), Clearance shall be given for any activity within the CRZ, if it requires waterfront and foreshore facilities. Para 3(iv), land reclamation, bunding required for the setting up of construction of foreshore facilities like bridges, sea-link, road on stilts are permissible activities.
- Para 8(1) | CRZ-I (i) (c), construction of trans harbour sea link and without affecting the tidal flow of water between LTL and HTL and Para 8(1) | CRZ-I (ii) (g), construction of trans harbor sea links, roads on stilts or pillars without affecting the tidal flow of water are permissible activities.

Based on the presentation and documents furnished by the project proponent, SEAC noted that, the MOEF&CC has issued the certain clarification vide OM Dt. 26.4.2022 for procedure for clearance of permissible activities as per the CRZ Notification 2011 and IPZ Notification 2011 and it states that *"any project located in CRZ area that are specified under paragraph 4(i) of the CRZ Notification (except for item 4(i)(d)) and not attracting the EIA Notification 2006."*

Further SEAC, decided to recommend the proposal for the grant of Clearance under CRZ Notification 2011 subject to the following conditions.

1. The PP shall carry out the structural stability studies through Department of Structural Engineering, IIT(M), Chennai, before execution of project.
2. The PP shall carry out the Geo Technical studies through CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM/Bangalore, IIT-Madras, and CSIR-Structural Engineering Research Centre, Chennai to assess the competency of the rocky structure for the anchoring installation of the bridge supporting rope system and the certificate.

  
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3. The PP shall not carry out any kind of blasting activities during the construction phase.
4. The PP shall adopt only the Hand-held Rotary Core Drilling method for preparing the shallow boreholes of a diameter of 40 mm such that the vibration caused due to the drilling is minimised.
5. The supply of wire ropes shall conform to IS 6594:2001 'Technical supply conditions of steel wire ropes and strands'.
6. The PP shall ensure that the manufacturer shall supply a test certificate for compliance of each pulley block with the provisions of this standard.
7. For wire rope, the manufacturer shall supply a certificate of test as per Annex C of IS 6594:2001 duly certified and signed by the competent person, this certification will cover Certificate No., Name and address of the manufacturer, particulars of rope, grade of rope, date of test, breaking force (aggregate/actual), name and address of test house making the test and examination, any other details.
8. Cement Grout Mix Design shall be certified from the NABL laboratory, particularly acid test.
9. During the heavy wind/monsoon the stability of the bridge and safety of the peoples shall be ensured.
10. The Proponent should take into account the cyclonic wind speeds including super cyclones while designing the bridge.
11. The Proponent shall also ensure that marine ecosystem is undisturbed.
12. The Proponent shall ensure the installation of safety measures for the public.
13. The construction of bridge should not affect the aesthetic aspects of Thiruvalluvar Statue and Vivekananda Rock site.
14. All the solid waste shall be handled as per the Solid waste Management Rules 2016.
15. The project proponent shall adhere to the Construction and Demolition Waste Management Rules, 2018.
16. The temporary structures should be removed immediately after completion of construction activities.
17. The proponent shall comply with the Environmental Management Plan during construction and operational phases.

18. The PP shall ensure that the entire construction activities are carried out under the supervision of the Department of Structural Engineering, IIT(M), Chennai-36.
19. The PP shall conduct the Safety Audit process during the construction activities and once in a year after the installation of the bridge involving any of these reputed research and academic institutions - CSIR-Central Institute of Mining & Fuel Research (CIMFR) / Dhanbad, NIRM/Bangalore, IIT-Madras, and CSIR-Structural Engineering Research Centre, Chennai. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB as a part of Environmental Compliance.



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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.

  
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17. The proponent shall ensure that the transportation of the quarried materials shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried rough stones; and transport of rough stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.
18. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
19. After mining operations are completed, the mine closure activities as indicated in the mine closure plan shall be strictly carried out by the Proponent fulfilling the necessary actions as assured in the Environmental Management Plan.
20. The Project proponent shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition that is fit for the growth of fodder, flora, fauna etc.
21. The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
22. The project proponent shall ensure that the provisions of the MMRD, 1956, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skilful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
23. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.
24. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the

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

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

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

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	விவம்
2	<i>Adenanthera pavonina</i>	Marjath	மரசு, மரசுமரத்தெயிலம்
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Maruthurai	மரதurai
6	<i>Bauhinia racemosa</i>	Aathu	அத்து
7	<i>Bauhinia tomentosa</i>	Irvathi	இரவத்தி
8	<i>Buchanania arillaris</i>	Kathama	காமா
9	<i>Borassus flabellifer</i>	Panni	பாணி
10	<i>Butea monosperma</i>	Marukkamarum	மருக்காமரம்
11	<i>Bobax caba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புனை
13	<i>Cassia fistula</i>	Sarakondrai	சரகண்டிரை
14	<i>Cassia roxburghii</i>	Sengundrai	செங்குண்டிரை
15	<i>Chloroxylon acutatum</i>	Purasarnaram	புரசர்நாரம்
16	<i>Cochlospermum religiosum</i>	Kangu, Marjathavu	கங்கு, மரசுத்து
17	<i>Cordia dichotoma</i>	Narvati	நர்வதி
18	<i>Cretepa adansonii</i>	Mavalingum	மாவலிங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	StruUva, Struzha	சுரு உவா
21	<i>Diospyro ebenum</i>	Karimgali	கரிம்கலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகனா
23	<i>Ficus amplissima</i>	Kallithu	கல் திது
24	<i>Hibiscus tiliaceus</i>	Aatrupoovarasu	அத்ரபூவரசு
25	<i>Hardwickia binata</i>	Acha	அச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	அயில், அயில்
27	<i>Lannea coromandelica</i>	Othian	ஒதினம்
28	<i>Lagerstromia speciosa</i>	Poo Marudhu	பூ மரூது
29	<i>Lepisanthus tetraphylla</i>	Neikottinaram	நெிகொட்டினாரம்
30	<i>Limonia acidissima</i>	Vila marum	வில்லா மரம்
31	<i>Litsea glutinosa</i>	Pisinpattai	பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Iluppai	இலுப்பை
33	<i>Masikara hexandra</i>	UlaikaiPaalai	உலகை பாலை
34	<i>Mimosaops elengi</i>	Magizhamaram	மகிழாமரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vetlai Nuna	வெலை நுனா
38	<i>Phoenix sylvestris</i>	Eachi	ஏச்சி
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Prenea mollissima</i>	Munnai	முன்னை
41	<i>Prenea serratifolia</i>	Narumunnai	நாரமுன்னை
42	<i>Prenea tomentosa</i>	Malapovarasu	மலபொவரசு
43	<i>Prosopis cineris</i>	Vanni maram	வாணி மரம்
44	<i>Pterocarpus marsipium</i>	Vengai	வேங்கை
45	<i>Pterospermum cinereus</i>	Vennangu, Tada	வேண்டிங்கு
46	<i>Pterospermum xylocarpum</i>	Polaru	பொலர்
47	<i>Pithecolobium roxburghii</i>	Karipala	காரிபலா
48	<i>Salvadora persica</i>	Uga Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மாணிபுண்டி சோபுகை
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Strobilus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேர்தங்க கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாந்திரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேன் மரூது
57	<i>Toona ciliata</i>	Sandhana venbu	சாந்தாணா வேம்பு
58	<i>Theopania populnea</i>	Puvacatu	புவகாது
59	<i>Walsburtriafoliata</i>	valetra	வாலேத்ரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecolobium dulce</i>	Kodakkapuli	கொடக்காபுலி

  
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