

## State Expert Appraisal Committee (SEAC)

Minutes of 403<sup>rd</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 24.08.2023 (Thursday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Mallgai, Saidapet, Chennai 600 015 for consideration of Mining Projects.

### Confirmation of Earlier Minutes

The minutes of the 402<sup>nd</sup> SEAC meeting held on 17.08.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.

Agenda No: 403 - 01

(File No: 10181/2023)

Existing Rough stone and Gravel quarry lease over an extent of 2.00.0 Ha at S.F.No.579/1B (P) in Periyamanjuveli village, Aravakurichi Taluk, Karur District, Tamil Nadu by Thiru.P.Vijayakumar - Environment Clearance for next scheme of mining. (SIA/TN/MIN/433697/2023 dt 24.06.2023)

The proposal was placed in this 403<sup>rd</sup> meeting of SEAC held on 24.08.2023. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. P. Vijayakumar has applied seeking Environment Clearance for the existing Rough stone and Gravel quarry lease for next scheme of mining over an extent of 2.00.0 Ha at S.F.No.579/1B (P) in Periyamanjuveli village, Aravakurichi Taluk, Karur 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, as amended.
3. The PP has obtained quarry lease for mining at S.F.No. 579/1A, 579/1B(p) during the period from 02.09.2010 to 01.09.2015. **However, no quarrying operations were carried out in the S.F. No. 579/1B (P).**
4. The PP has admitted that he already carried the quarrying operations in two phases in the areas of the lease as given below:

Phase- I 02.09.2010 – 01.09.2015 – Area of extent: 579/1A, 579/1B(P) 4.96.0

  
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Phase-II 05.07.2017 – 04.07.2022 - Area of extent: 579/1A (P) 0.98.0

5. However, the DD (Mines), Karur certified vide letter Rc.No.300/Mines/2023, Dated. 23.08.2023 that “....it is informed that the above-mentioned quarry waste and mineral rejects are dumped over the proposed site. Further stats that, there is no pit noticed in S.F. No. 579/1B (P) (2.00.00 Ha) of patta land in Periyamanjuveli village, Karur District which is fresh and no quarrying operation is found.”
6. EC was issued by DEIAA vide Lr. No. DEIAA-DIA/TN/MIN/6859/2017-KKR EC. No. 34, Dated: 23.06.2017 for the then proposed rough stone quarry at S.F. No. 579/1A (Part) in periyamanjuveli village, Aravakurichi taluk, karur district for Thiru. P. Vijayakumar.

File No	10181		Category	B2
	SIA/TN/MIN/433697/2 023 dt 24.06.2023			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru.P.Vijayakumar S/o.Permul, No.M2-57, 13th Cross Street, R.M.Colony, Dindigul District. Pincode-625007.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/ Limestone)	:	Rough Stone and Gravel	
3.	S.F Nos. of the quarry site with area break-up	:	S.F.No.579/1B(P)	
4.	Village in which situated	:	Periyamanjuveli village,	
5.	Taluk in which situated	:	Aravakurichi Taluk,	
6.	District in which situated	:	Karur District	
7.	Extent of quarry (in ha.)	:	2.00.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	10°38'38.87"N to 10°38'45.72"N 77°56'57.40"E to 77°57'02.36"E	
9.	Topo Sheet No.	:	58F/14	

  
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10.	Type of mining	:	Opencast semi mechanized method of mining.
11.	Life of Project	:	10 years
	Lease Period	:	10 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resource m <sup>3</sup> (RoM)	:	Rough Stone - 500000 m <sup>3</sup> Gravel - 40000 m <sup>3</sup>
	Minable Reserve in m <sup>3</sup> (RoM)	:	Rough Stone - 146780 m <sup>3</sup> Gravel - 25404 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone - 15400 m <sup>3</sup> Gravel - 9592 m <sup>3</sup>
	Ultimate Depth in m	:	27m BGL
13.	Depth of water table	:	53-56m
14.	Man Power requirement per day:	:	22 Nos.
15.	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	6.0 kLD
16.	Power requirement	:	TNEB 63762 litres of HSD will be utilized
17.	Precise area communication approved by the Assistant Director, Dept. of Geology & Mining	:	Rc.No.300/Mines/2021, Dated:17.04.2023
18.	Mining Plan approved by Assistant Director, Dept. of Geology & Mining	:	Rc.No.300/Mines/2021, Dated:15.05.2023

  
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19.	Assistant Director, Dept. of Geology & Mining 500m Cluster Letter	Rc.No.300/Mines/2021, Dated:15.05.2023		
20.	VAO Certificate Regarding Structures within 300m Radius	Letter Dated 16.05.2023		
21.	Project Cost (excluding EMP cost)	: Rs.96,10,000/-		
22.	EC Recommendation	: Validity	30 years subject to the following upper limits.	
			Rough Stone	Gravel
		: Max Total RoM in m <sup>3</sup>	74410	25404
		: Annual Max RoM in m <sup>3</sup>	15400	9592
		: Ultimate Depth in m	27m BGL	
23.	EMP cost (in Rs. Lakh).	: Capital cost – Rs.28.93 Lakh Recurring cost – Rs. 22.69 Lakh- + 5% of inflation cost every year		
24.	CER cost (in Rs. Lakh).	: Rs. 14.0 Lakh		

The PP furnished the details sought and hence the subject was taken up for discussion in this 397<sup>th</sup> meeting of SEAC held on 03.08.2023. 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 annual peak RoM production capacity not exceeding 15400 m<sup>3</sup> of Rough stone and 9592 m<sup>3</sup> of Gravel by maintaining the ultimate depth of mining of 27m 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.

  
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- 2) The proponent shall develop two/three rows of green belt all along the boundary of mine lease area adjacent to the Rengamalai R.F as buffer.
- 3) The PP shall complete the fencing work including protective measures along the Highway road (NH-44) side existing adjacent of the lease expired quarry (south side) before obtaining CTO from TNPCB.
- 4) The proponent shall provide the particulars for carrying out the plantation of 1200 Nos. of tall saplings of native species within and outside the proposed mining area as committed before obtaining CTO from TNPCB.
- 5) The PP shall furnish a Standard Operating Procedures (SoP) which includes appointment of statutory personnel and mode of transport / storage of explosives for carrying out the blasting operations in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
- 6) Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 7) For securing the safety of persons employed in the mine, 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 anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna

  
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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) Since the waterbodies such as canal are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 9) The PP shall strictly adhere to the provisions provided in the Annexure to safeguard the existence of Reserved Forest/Reserve Land within 1 km from the project site by carrying out the conservation measures meticulously.
- 10) As accepted by the Project Proponent the CER cost of Rs.14.0 lakh and the amount shall be spent for the committed activities at Village Government School before obtaining CTO from TNPCB.

**Agenda No: 401 - 02**

**(File No: 10187/2023)**

**Proposed Black Granite quarry lease over an extent of 3.40.0 Ha at S.F.No.3/7B(P), 3/8B(P), 385/4(P), 386/3B, 459/1(P), 459/3A(P), 459/3B1(P), 459/B2(P), 462/3(P), 462/4A(P) & 462/4B(P) in Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Tvl. Sri Ram Exports - Environment Clearance. (SIA/TN/MIN/433173/2023 dt 13.06.2023)**

The proposal was placed in this 403<sup>rd</sup> meeting of SEAC held on 24.08.2023. The Project Proponent gave a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal ([parivesh.nic.in](http://parivesh.nic.in))

  
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The SEAC noted the following:

1. The Project Proponent, Tvl. Sri Ram Exports has applied seeking Environment Clearance for the proposed Black Granite quarry lease over an extent of 3.40.0 Ha at S.F.No.3/7B(P), 3/8B(P), 385/4(P), 386/3B, 459/1(P), 459/3A(P), 459/3B1(P), 459/B2(P), 462/3(P), 462/4A(P) & 462/4B(P) in Karandapalli Village, Denkanikottai Taluk, Krishnagiri 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, as amended.

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



Cauvery North Wildlife Sanctuary – 2.3 Km – South East

Cauvery South Wildlife Sanctuary – 6.0 Km – South West

File No	10187		Category	B2
	SIA/TN/MIN/433173/2023 dt 13.06.2023			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Tvl. Sri Ram Exports, No.24/F, Indra Gandhi Road,	

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		Fair Lands, Salem – 636016.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Black Granite
3.	S.F Nos. of the quarry site with area break-up	:	S.F.No.3/7B(P), 3/8B(P), 385/4(P), 386/3B, 459/1(P), 459/3A(P), 459/3B1(P), 459/B2(P), 462/3(P), 462/4A(P) & 462/4B(P)
4.	Village in which situated	:	Karandapalli
5.	Taluk in which situated	:	Denkanikottai
6.	District in which situated	:	Krishnagiri
7.	Extent of quarry (in ha.)	:	3.40.0 Ha - Patta land
8.	Latitude & Longitude of all corners of the quarry site	:	12°28'04.0013"N to 12°28'04.2817"N 77°41'55.9306"E to 77°41'35.8076"E
9.	Topo Sheet No.	:	57-H/11
10.	Type of mining	:	Opencast mechanized method of mining.
11.	Life of Project	:	18 years
	Lease Period	:	20 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	<b>As per approved Mining Plan</b> <b>As modified by SEAC</b>
	Geological Resource m <sup>3</sup> (RoM)	:	RoM- 710510 m <sup>3</sup> - Black Granite @ 15% recovery – 106583 m <sup>3</sup>
	Minable Reserve in m <sup>3</sup> (RoM)	:	RoM-188357 m <sup>3</sup> - Black Granite @ 15% recovery – 28256 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	RoM-10980 m <sup>3</sup> - Black Granite @ 15% recovery – 1647 m <sup>3</sup>
	Maximum Depth in m	:	30m BGL (2m Topsoil+3m Weathered rock+25m Black Granite)
13.	Depth of water table	:	52-60 m

  
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14.	Man Power requirement per day:	:	25 Nos.		
15.	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression , Green Belt & Wet Drilling (in KLD)	:	1.0 kLD 0.3 kLD  0.5 kLD 0.2 kLD		
16.	Power requirement	:	TNEB power supply& DG set		
17.	Precise area communication approved by ACS to Govt, Industries Department	:	Lr.No.1380/MME.2/2021-5 Dated: 14.02.2023.		
18.	Mining Plan approved by AD/DD, Dept. of Geology & Mining	:	Rc.No.581/MM4/2021 Dated: 06.04.2023.		
19.	500m Cluster Letter issued by AD/DD, Dept. of Geology & Mining	:	Rc.No.867/2010/Mines Dated:23.05.2023.		
20.	VAO Certificate regarding Structures within 300m Radius	:	Letter Dated 19.05.2023		
21.	Project Cost (excluding EMP cost)	:	Rs.1,91,60,000/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				RoM	Black Granite @ 15% recovery
			Max Total RoM in m <sup>3</sup>	52060	7811
			Annual Max RoM in m <sup>3</sup>	10980	1647
		:	Max Depth in m	30m BGL (2m Topsoil+3m Weathered rock+25m Black Granite)	

  
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23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.4713000/- Recurring cost – Rs. 1272561/- + 5% of inflation cost every year
24.	CER cost (in Rs. Lakh).	:	Rs.10.0 Lakh

Based on the presentation and documents furnished by the project proponent, **SEAC** decided to recommend the proposal for the grant of Environmental Clearance for the annual peak RoM production capacity not exceeding 10980 m<sup>3</sup> of RoM by maintaining the ultimate depth of mining of 30m 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 appoint a Geologist for carrying out the quarrying operations scientifically before the execution of lease in the office of District Magistrate.
- 3) The proponent shall provide the particulars for carrying out the plantation of **2040 Nos.** of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.
- 4) For securing the safety of persons employed in the mine, 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 anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

  
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- 5) As accepted by the Project Proponent the CER cost of **Rs.5.0 lakh** and the amount shall be spent for the committed activities at Village Government School before obtaining CTO from TNPCB. Further the Project Proponent shall remit **Rs.5.0 lakh** to the DFO, Cauvery North Wildlife Sanctuary as part of conservation measure as the Cauvery North Wildlife Sanctuary is situated within 10km from the project site.

**Agenda No: 403 - 03**

**(File No: 10199/2023)**

**Proposed Rough stone and Gravel lease over an extent of 1.62.5 Ha at S.F.No.98/5(P) & 98/6(P) in Parapatti village, Salem South Taluk, Salem District, Tamil Nadu by Thiru S.Somasundaram - Environment Clearance. (SIA/TN/MIN/496065/2023 dt 08.07.2023)**

The proposal was placed in this 403<sup>rd</sup> meeting of SEAC held on 24.08.2023. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, S.Somasundaram Praveen has applied seeking Environment Clearance for the Proposed Rough stone and Gravel lease over an extent of 1.62.5 Ha at S.F.No.98/5(P) & 98/6(P) in Parapatti village, Salem South 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, as amended.

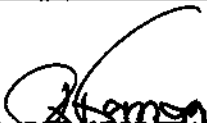
File No	10199		Category	B2
	SIA/TN/MIN/496065/2023 dt 08.07.2023			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. S.Somasundaram S/o. Shanmuganathi No. 2-3/65, Vellalar Street, Parapatti Post, Mallur Via, Salem South Taluk,	

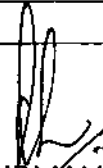
  
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		Salem District - 636203	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel
3.	S.F Nos. of the quarry site with area break-up	:	S.F.No.98/5(P) & 98/6(P)
4.	Village in which situated	:	Parapatti
5.	Taluk in which situated	:	Salem South
6.	District in which situated	:	Salem
7.	Extent of quarry (in ha.)	:	1.62.5 Ha – Patta land
8.	Latitude & Longitude of all corners of the quarry site	:	11°34'35.48"N to 11°34'41.28"N 78°08'00.47"E to 78°08'07.42"E
9.	Topo Sheet No.	:	58-I/02
10.	Type of mining	:	Opencast semi mechanized method of mining.
11.	Life of Project	:	10 years
	Lease Period	:	10 years
	Mining Plan Period	:	10 years
12.	Mining Plan Details	:	<b>As per approved Mining Plan</b> <b>As modified by SEAC</b>
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone - 325000 m <sup>3</sup> Gravel – 32500 m <sup>3</sup> -
	Minable Resources in m <sup>3</sup> (RoM)	:	Rough Stone – 104400 m <sup>3</sup> Gravel – 22120 m <sup>3</sup> Rough Stone – 100350 m <sup>3</sup> Gravel – 22120 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone – 11000 m <sup>3</sup> Gravel – 14416 m <sup>3</sup> -
	Maximum Depth in meters	:	42m BGL
13.	Depth of water table	:	65-70 m
14.	Man Power requirement per day:	:	14 Nos.
15.	Water requirement:	:	1.4 kLD

  
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	1. Drinking & domestic purposes (in KLD) 2. Dust suppression , Green Belt & Wet Drilling (in KLD)		0.5 kLD 0.6 kLD 0.5 kLD															
16.	Power requirement		TNEB 46250 litres of HSD to be utilized as fuel for DG set															
17.	Precise area communication approved by the AD/DD, Dept. of Geology & Mining	:	Roc.379/2023/Mines Dated:12.04.2023.															
18.	Mining Plan approved by AD/DD, Dept. of Geology & Mining	:	Roc.379/2023/Mines Dated:08.05.2023.															
19.	500m Cluster Letter issued by AD/DD, Dept. of Geology & Mining		Roc.379/2023/Mines Dated:10.05.2023.															
20.	VAO Certificate regarding Structures within 300m Radius		Letter Dated 04.05.2023															
21.	Project Cost (excluding EMP cost)	:	Rs.49,54,000/-															
22.	EC Recommendation	:	<table border="1"> <tr> <td>Validity</td> <td colspan="2">30 years subject to the following upper limits.</td> </tr> <tr> <td></td> <td>Rough Stone</td> <td>Gravel</td> </tr> <tr> <td>Max Total RoM in m<sup>3</sup></td> <td>104400</td> <td>22120</td> </tr> <tr> <td>Annual Max RoM in m<sup>3</sup></td> <td>11000</td> <td>14416</td> </tr> <tr> <td>Max Depth in m</td> <td colspan="2">42m BGL</td> </tr> </table>	Validity	30 years subject to the following upper limits.			Rough Stone	Gravel	Max Total RoM in m <sup>3</sup>	104400	22120	Annual Max RoM in m <sup>3</sup>	11000	14416	Max Depth in m	42m BGL	
Validity	30 years subject to the following upper limits.																	
	Rough Stone	Gravel																
Max Total RoM in m <sup>3</sup>	104400	22120																
Annual Max RoM in m <sup>3</sup>	11000	14416																
Max Depth in m	42m BGL																	
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.21,98,000/- Recurring cost – Rs. 13,61,460/- + 5% of inflation cost every year															
24.	CER cost (in Rs. Lakh).	:	Rs. 5.0 Lakh															

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


  
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annual peak RoM production capacity not exceeding 11000 m<sup>3</sup> of Rough stone and 14416 m<sup>3</sup> of Gravel by maintaining the ultimate depth of mining of 42m 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 install the fencing around the periphery of the abandoned quarry existing adjacent to the proposed quarry site as a part of safety measure before obtaining the CTO from TNPCB.
- 3) The proponent shall provide the particulars for carrying out the plantation of 1130 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.
- 4) **Since the structures including railway track lines are situated within a radial distance of 500 m**, the PP shall carry out the scientific studies within a period of one year from the date of lease execution, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 5) The PP shall furnish a Standard Operating Procedures (SoP) which includes appointment of statutory personnel and mode of transport / storage of explosives for carrying out the blasting operations in securing the safety of the

  
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persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.

- 6) For securing the safety of persons employed in the mine, 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 anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 7) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 8) As accepted by the Project Proponent the CER cost of Rs.5.0 lakh and the amount shall be spent for the committed activities at Village Government School before obtaining CTO from TNPCB.


**Agenda No: 403- 04**

**File No: 10176/2023**

**Proposed Black Granite quarry lease over an extent of 4.25.0 ha in S.F. No. 73(Part) at Pasinayanapalli Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by M/s. Lakshmi Metallics Private Limited - For Environmental Clearance. (SIA/TN/MIN/434616/2023, Dated: 26.06.2023)**

  
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The proposal was placed in this 403<sup>rd</sup> SEAC meeting held on 24.08.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation.

**SEAC noted the following:**

1. The Project Proponent, M/s. Lakshmi Metallics Private Limited has applied for Environmental Clearance for the Proposed Black Granite quarry lease over an extent of 4.25.0 ha in S.F. No. 73(Part) at Pasinayanapalli Village, Bargur Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 20 years. The mining plan is for 5 years & production should not exceed 1,14,404m<sup>3</sup> of ROM, 28,601m<sup>3</sup> of Granite reserves @ 25% & 85,803m<sup>3</sup> of Granite waste @ 75%. The annual peak production 23,370 m<sup>3</sup> of ROM, 5,842 m<sup>3</sup> of Granite reserves @ 25% & 17,528 m<sup>3</sup> of Granite waste @ 75%. The ultimate depth of mining is 31.5m (10.5m AGL + 21m BGL).
4. Precise area communication letter vide letter No.899/MME.2/2021-1, Dated 26.02.2021 under para 2

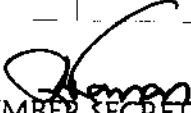
"I am directed to declare you as successful bidder to grant quarry lease for quarrying of Black Granite over an extent of 4.25.0 hectares of Government Poramboke land in S.F.No.73 (Part) in Pasinayanapalli Village of Bargur Taluk, Krishnagiri District for a period of 20 years under rule B-A of the Tamil Nadu Minor Mineral Concession Rules, 1959 subject to the outcome of W.P.No.18317 of 2020 and W.P.No.16060/2020 and W.M.P.No.19999 of 2020. The District Collector shall comply with the directions of the Hon'ble High Court of Madras in W.P.No.18317 of 2020 and W.P.No.16060/2020 and W.M.P.No.19999 of 2020 and undertake the activities mentioned in para 3 below strictly in compliance with the directions of the Hon'ble High Court of Madras."

  
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File No		10176/2023 434616/2023	Category	B2 1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	M/s. Lakshmi Metallica Private Limited. No.77/14-E.- Salem Main Road, Dharmapuri-636701.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Black Granite Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	73(Part)	
4.	Village in which situated	:	Pasinayanapalli	
5.	Taluk in which situated	:	Bargur	
6.	District in which situated	:	Krishnagiri	
7.	Extent of quarry (in ha.)	:	4.25.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°27'14.9657"N to 12°27'20.1286"N 78°22'10.2449"E to 78°22'25.7211"E	
9.	Topo Sheet No.	:	57 - L/07	
10.	Type of mining	:	Opencast Mechanized Mining	
11.	Life of Project	:	20 years	
	Lease Period	:	20 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	RoM - 6,84,750 m <sup>3</sup>	RoM
		:	Black Granite reserves @ 25% - 1,68,076m <sup>3</sup>	Black Granite reserves @ 25% -
		:	Granite Waste @ 75% - 5,04,230m <sup>3</sup>	Granite Waste @ 75%
:		RoM - 4,61,139m <sup>3</sup>	RoM	
Mirable Resources m <sup>3</sup> (RoM)	:	Black Granite reserves @ 25% - 1,15,285m <sup>3</sup>	Black Granite reserves @ 25% -	
	:	Granite Waste @ 75% - 3,45,854m <sup>3</sup>	Granite Waste @ 75%	
	:			

  
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	Annual Peak Production in m <sup>3</sup>	:	RoM – 23,370m <sup>3</sup> Black Granite reserves @ 25% - 5,842m <sup>3</sup> Granite Waste @ 75% - 17,528m <sup>3</sup>	RoM Black Granite reserves @ 25% - Granite Waste @ 75%
	Maximum Depth in meters	:	31.5m (10.5m AGL + 26m BGL)	
13.	Depth of water table	:	59m in rainy season & 64m in summer season	
14.	Man Power requirement per day:	:	43 Nos	
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	2.1 KLD 0.6 KLD 0.8 KLD 0.7 KLD	
16.	Power requirement	:	TNEB 1,83,040 Ltrs of HSD	
17.	Precise area communication approved by the Industries (MME.2) Department, Secretariat.	:	Letter.No. 889/MME.2/2021-1, dated: 26.02.2021	
18.	Mining Plan approved by Commissioner of Geology & Mining.	:	Rc.No.6934/MM4/2020, dated: 28.04.2023	
19.	Department of G&M, Deputy Director, 500m Cluster Letter	:	Roc.No.1038/2020/Mines, dated: 04.05.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 04.05.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 12,87,10,000	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits. Black Granite
		:	Max Total RoM in m <sup>3</sup>	RoM 1,14,404m <sup>3</sup>

  
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			Black Granite reserves @ 25% - 28,601m <sup>3</sup> Granite waste @ 75% - 85,803m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup> 23,370m <sup>3</sup>
		:	Max Depth in mtrs 31.5m (10.5m AGL + 26m BGL)
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 44,33,500 Recurring Cost – Rs. 13,10,100
24.	CER cost (in Rs. Lakh).	:	Rs. 10,00,000

Now, the proposal was placed in the 403<sup>rd</sup> SEAC meeting held on 24.08.2023. Based on the presentation and documents furnished by the project proponent, SEAC noted that **W.P.No.18317 of 2020 and W.P.No.16060/2020 and W.M.P.No.19999 of 2020 is pending with Hon'ble Madras High Court and decided to recommend the proposal for the grant of Environmental Clearance subject to the outcome of the above mentioned Writ Petition for the annual peak production capacity of not exceeding an annual peak production of 23,370m<sup>3</sup> of ROM by maintaining the ultimate depth of mining up to 31.5m (10.5m AGL + 21m 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 appoint a Geologist for carrying out the quarrying operations scientifically before the execution of lease in the office of District Magistrate.
3. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 3<sup>rd</sup> year or when the depth exceeds 30m whichever is

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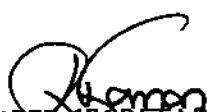
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earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna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

4. Since the waterbodies including tank, canal and lake are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within one year from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
5. As accepted by the Project Proponent the CER cost of Rs. 10 Lakhs and the amount shall be spent for the activities as committed before obtaining CTO from TNPCB.

Sl. No.	Description
1	Renovation of existing toilets along with maintenance
2	Providing Environmental related books to the school
3	Carrying out plantation in the School Boundary @ 100 Nos
4	Renovation and painting for Compound wall, Windows and Doors in School buildings
5	Repairing works to Lights and Fans and buying new ones
6	Providing new benches, desks and Laboratory equipment's.
7	Smart Classroom for 10 <sup>th</sup> , 11 <sup>th</sup> & 12 <sup>th</sup>
8	Coaching for JEE, NEET and other competitive exams
9	Adoption of Government school by the Engineering college owned by the proponent.

  
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**Agenda No: 403- 05**

**File No: 10194/2023**

**Proposed Rough stone & Gravel quarry lease over an extent of 3.85.50 ha in S.F. No. 276, 278, 279, 281, 283/1, 283/2, 283/3A, 283/3B, 283/4, 284/1, 284/2A & 284/2B at Appaiyanaickenpatti Village, Vembakottai Taluk, Virudhunagar District, Tamil Nadu by Tmt. R.Sivasakthi - For Environmental Clearance. (SIA/TN/MIN/435503/2023, Dated: 05.07.2023)**

The proposal was placed in this 403<sup>rd</sup> SEAC meeting held on 24.08.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation.

**SEAC noted the following:**

1. The Project Proponent, Tmt. R.Sivasakthi has applied for Environmental Clearance for the Proposed Rough stone & Gravel quarry lease over an extent of 3.85.50 ha in S.F. No. 276, 278, 279, 281, 283/1, 283/2, 283/3A, 283/3B, 283/4, 284/1, 284/2A & 284/2B at Appaiyanaickenpatti Village, Vembakottai Taluk, Virudhunagar 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 mining plan, the lease period is for 10 years. The mining plan is for 5 years & production should not exceed 1,73,946m<sup>3</sup> of Rough Stone & 48,170m<sup>3</sup> of Gravel. The annual peak production 38,136m<sup>3</sup> of Rough Stone & 48,170m<sup>3</sup> of Gravel. The ultimate depth of mining is 30m BGL.

Now, the proposal is placed in the 403<sup>rd</sup> SEAC meeting held on 24.08.2023. Based on the presentation and document furnished by the proponent, SEAC noted that there is one fireworks unit located within 200m radius from the proposed mine lease area.

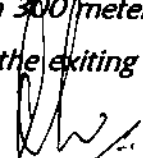
Hence, this proposal attracts the following legal implications:

- (i) Under the provisions of Tamil Nadu Minor Mineral Concession Rules, 1959, Rule 36 (1-A) (a) says

*".... No lease shall be granted for quarrying stone within 300 meters (three hundred meters) from any inhabited site: Provided that the existing quarries*

  
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*which are subsisting under current leases shall be entitled for continuance till the expiry of the lease period. The lessees whose quarries lie within a radius of 300 metres from the inhabited site shall undertake blasting operations only after getting permission of the Director of Mines Safety, Chennai".*

Similarly, Rule 36 (1-A) (c) also indicates:

*".... No new layout, building plans falling within 300 metres from any quarry should be given approval by any agency unless prior clearance of the Director of Geology and Mining is obtained. On receipt of proposals for according clearance, the Director of Geology and Mining (DGM) shall decide upon the continuance or closure, as the case may be of any quarry which is situated within 300 metres from the now layout, building sought for such clearance....".*

In view of the above reasons, the SEAC decided that grant of Environmental Clearance for this proposal will be detrimental to environment and safety of people working in the fireworks in this area and consequently decided not to recommend issue of Environmental Clearance to this proposal.

**Agenda No: 403- 06**

**File No: 10200/2023**

**Proposed Rough stone quarry lease over an extent of 1.10.0 ha in S.F. No. 96 (Part) & 97 (Part) at Hosapuram Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by M/s. S.S.A. Blue Metals - For Environmental Clearance. (SIA/TN/MIN/431008/2023, Dated: 26.05.2023)**

The proposal was placed in this 403<sup>rd</sup> SEAC meeting held on 24.08.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation.

**SEAC noted the following:**

1. The Project Proponent, M/s. S.S.A. Blue Metals has applied for Environmental Clearance for the Proposed Rough stone quarry lease over an extent of 1.10.0 ha in S.F. No. 96 (Part) & 97 (Part) at Hosapuram Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu.

  
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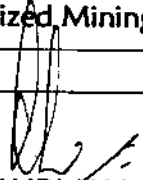
  
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2. The project/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 10 years. The mining plan is for 5 years & production should not exceed 1,49,030m<sup>3</sup> of Rough Stone. The annual peak production 33,390m<sup>3</sup> of Rough Stone. The ultimate depth of mining is 22m (8m AGL + 14m BGL).
4. The proponent had earlier obtained Environmental Clearance from DEIAA vide Lr.No.03/DEIAA-KGI/EC No.78/2018 dated: 27.08.2018.
5. Further, the DD/Mines Department of Geology and Mining vide Roc.No.221/2018/Mines dated: 22.08.2023 states that  
*"... The lease deed was executed on 13.12.2022 and the lease period is valid upto 26.08.2028"*

File No	10200/2023		Category	B2 1(a)
	431008/2023			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	M/s.S.S.A. Blue Metals, No.56, Annai Illam, Nehru Nagar, Opp. Railway station, Hosur Taluk, Krishnagiri District-635109.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	96(Part) & 97(Part)	
4.	Village in which situated	:	Hosapuram	
5.	Taluk in which situated	:	Denkanikottai	
6.	District in which situated	:	Krishnagiri	
7.	Extent of quarry (in ha.)	:	1.10.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°37'05.93"N to 12°37'04.70"N 77°49'29.44"E to 77°49'22.29"E	
9.	Topo Sheet No.	:	57 - H/14	
10.	Type of mining	:	Opencast Semi-Mechanized Mining	
11.	Life of Project	:	5 years	

  
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	Lease Period	:	10 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone 7,23,884m <sup>3</sup>	Rough Stone 3,40,930 m <sup>3</sup>
	Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone 2,25,106m <sup>3</sup>	Rough Stone 1,36,905 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone 33,390m <sup>3</sup>	Rough Stone 22,695 m <sup>3</sup>
	Maximum Depth in meters	:	22m (8m AGL + 14m BGL)	21 m (8m AGL + 13m BGL)
13.	Depth of water table	:	80m BGL	
14.	Man Power requirement per day:	:	18 Nos	
15.	Water requirement: 4. Drinking water 5. Dust suppression 6. Green belt	:	2.0 KLD 1.0 KLD 0.5 KLD 0.5 KLD	
16.	Power requirement	:	TNEB 1,21,006 Ltrs of HSD	
17.	Precise area communication approved by the District Collector, Dept of G&M	:	Na.Ka.No.221/2018/Kanimam, dated: 09.03.2018	
18.	Mining Plan approved by Deputy Director, Dept of Geology & Mining.	:	Roc.221/2018/Mines, dated: 23.05.2018	
19.	Department of G&M, Deputy Director, 500m Cluster Letter	:	Roc.No.221/2018/Mines, dated: 22.08.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 30.06.2023	
21.	Project Cost (excluding EMP cost)	:	Rs. 63,60,000	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.

  
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			Rough Stone
		:	Max Total RoM in m <sup>3</sup>
		:	1,07,830m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>
		:	22,695m <sup>3</sup>
		:	Max Depth in mtrs
		:	21m (8m AGL + 13m BGL)
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 7,07,000 Recurring Cost – Rs. 8,87,200
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000

Now, the proposal was placed in the 403<sup>rd</sup> SEAC meeting held on 24.08.2023. 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 annual peak production capacity of not exceeding 22,695m<sup>3</sup> of rough stone by maintaining the ultimate depth of mining up to 21m (8m – AGL + 13m – 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 proponent shall erect tall sheet fencing in the lease boundary of the proposed quarry abutting the road before the execution of the lease.
3. **Since the structures are situated within a radial distance of 300 m**, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research

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

4. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
5. For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 3<sup>rd</sup> year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
6. As accepted by the Project Proponent the CER cost of **Rs. 5 Lakhs** and the amount shall be spent for the activities as committed towards Panchayat Union Middle School, H.Settipalli before obtaining CTO from TNPCB.

**Agenda No: 403-07**

**(File No.10183/2023)**

**Proposed Rough stone Quarry lease over an extent of 2.00.0 Ha at S.F. No.51 (Part) of Allappanur Village, Thandrampattu Taluk, Tiruvannamalai District, Tamil Nadu by Tmt. R. Amutha – For Environmental Clearance. (SIA/TN/MIN/435252/2023 dated: 01.07.2023)**

The proposal was placed in the 403<sup>rd</sup> meeting of SEAC held on 24.08.2023. The details of the project furnished by the proponent are given in the website ([parivash.nic.in](http://parivash.nic.in)).

**The SEAC noted the following:**

  
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1. The project proponent, **Tmt. R. Amutha** has applied for Environmental Clearance for the Proposed Rough stone Quarry lease over an extent of 2.00.0 Ha at S.F. No.51 (Part) of Allappanur Village, Thandrampattu Taluk, Tiruvannamalai 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. Earlier, the PP has obtained Environmental Clearance from DEIAA vide Lr. No.DEIAA-CBE-V/F.No.381/1(a)/EC.No.54/2018 Dt:10.12.2018.
4. Further, it is pertinent to observe that EIA Office memorandum F.No. IA3-22/11/2023-IA (E-208230), dated. 28.04.2023 and relevant part of the OM reads as under:

*"....it has been decided that all valid ECs issued by DEIAA shall be reappraised through SEAC/SEIAA in compliance to the order of the Hon'ble NGT in O.A.142 of 2022. In view of above, t is hereby directed that all concerned SEACs shall re-appraise the ECs issued between 15.01.2016 and 13.09.2018 (including both dates) and all fresh ECs shall be granted only by SEIAAs based on such appraisal. The exercise shall be completed within a time period of one year from the date of issue of this OM. DEIAAs shall transfer all such files where ECs have been granted to concerned SEIAA within a time period of one month from issue of this OM....."*

*"....Environmental clearance was granted by DEIAA need to be brought in consonance with the directions given by the Hon'ble Supreme Court in Deepak Kumar (supra) and order dated. 13.09.2018 by this Tribunal in Satendra Pandey (supra) by re-appraisal by SEIAA and only such mining leases may be continued which have been on re-appraisal granted environmental clearance by SEIAA and after taking appropriate remedial action on the basis of such re-appraisal..."*

*Further, in order to have a uniform approach across the country for such appraisal, SEIAA shall scrutiny and appraise the proposals based on the checklist provided below:*

*xi. Compliance of Hon'ble Supreme Court Judgement dated 02.08.2017*

  
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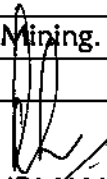
*passed in Common Cause vs Union of India Writ Petition (C) 114 of 2014.....”*

5. Based on the above, the PP should have suspended all the quarrying activities including excavation, transportation and dispatch of mineral/waste with effect from 28.05.2023, i.e. to facilitate the PP for submitting the application to the SEIAA and completion of statutory formalities pertaining to the discontinuance of mining operations in accordance with MMDR Act 1957 & Mines Act 1952, within one month of issue of EIA Office memorandum F.No. IA3-22/11/2023-IA (E-208230), dated. 28.04.2023 and will continue to operate only after obtaining Environmental clearance from SEIAA-TN once completing the remedial actions based on such re-appraisal by SEIAA-TN.

6. The salient features of the proposal are as follows:

File No	10183		Category	1(a)
	SIA/TN/MIN/435252/2023			82
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Tmt. R. Amutha, W/o. S. Ramachandran, No.712, Bajanai Kovil Street, Dhesurpalaiyam Village, Keelvanakkambadi Post, Thandrampattu Taluk, Tiruvannamalai District.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone )	:	Rough Stone Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	51 (Part)	
4.	Village in which situated	:	Allappanur	
5.	Taluk in which situated	:	Thandrampattu	
6.	District in which situated	:	Tiruvannamalai	
7.	Extent of quarry (in ha.)	:	2.00.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°06'05.92"N to 12°06'11.59"N 78°56'39.56"E to 78°56'46.16"E	
9.	Topo Sheet No.	:	57L / 16	
10.	Type of mining	:	Opencast Semi-Mechanized Mining.	
11.	Life of Project	:	10 years	

  
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	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone – 3,06,820m <sup>3</sup>	-
12.	Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone – 1,35,470m <sup>3</sup>	Rough Stone – 1,15,090m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone – 27,490 m <sup>3</sup>	Rough Stone – 23,240 m <sup>3</sup>
	Maximum Depth in meters	:	30m Above Ground Level	30m Above Ground Level
13.	Depth of water table	:	46m Below Ground Level	
14.	Man Power requirement per day:	:	11 Nos.	
15.	Water requirement: 1. Drinking Purpose 2. Dust suppression 3. Green belt	:	1.495 KLD 0.495 KLD 0.5 KLD 0.5 KLD	
16.	Power requirement	:	1,28,032 liters of HSD for the entire project life.	
17.	Precise area communication approved by the District Director, with date	:	Rc.No.396/Kanimam/2017, Dated:17.11.2017.	
18.	Mining Plan approved by the Deputy Director, Dept.of Geology and Mining with date	:	Rc.No.396/Kanimam/2017, Dated:04.01.2023.	
19.	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining with date	:	Rc.No.396/Kanimam/2017, Dated:04.01.2023.	
20.	VAO Certificate regarding structures within 300m Radius	:	Letter dated: 13.12.2017.	
21.	Project Cost (excluding EMP cost)	:	Rs. 79,50,000 /-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.

  
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			Rough stone
		:	Max Total RoM in m <sup>3</sup> 1,15,090
		:	Annual Max RoM in m <sup>3</sup> 23,240
		:	Max Depth in mtrs 30m above ground level
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 9,89,000/- Recurring Cost – Rs. 11,27,380/-
24.	CER cost (in Rs. Lakh).	:	Rs 8,00,000/-

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding **23,240m<sup>3</sup> of rough stone by restricting the ultimate depth of mining up to 30m above ground level** 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 proponent shall furnish an Affidavit stating that the PP have suspended all the quarrying activities including excavation, transportation and dispatch of mineral/waste with effect from 28.05.2023, *i.e. to facilitate the PP for submitting the application to the SEIAA and completion of statutory formalities pertaining to the discontinuance of mining operations in accordance with MMDR Act 1957 & Mines Act 1952, within one month of issue of EIA Office memorandum F.No. IA3-22/11/2023-IA (E-208230), dated. 28.04.2023* and will commence the mining operations only after obtaining Environmental clearance from SEIAA-TN once completing the remedial actions based on such re-appraisal.
- 3) The PP shall erect proper fencing (S2 or G2) as stipulated in the DGMS Circular, 1959 all along the boundaries of the lease area before obtaining the CTO from the TNPCB.

  
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- 4) Within a period of one year from the date of lease execution, the PP shall carry out the scientific studies on optimization of the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 5) The PP shall submit the slope stability action plan for the existing quarry wall and benches constructed to safe guard the persons employed in the mine at the time of lease execution to the concerned AD (Mines) without deviation.
- 6) However, for securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and the existing quarry wall **within six months of commencement of quarrying operation**, by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engg –IIT(Madras), NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 7) The PP shall not adopt any blasting operation involving explosive suppliers' firm without obtaining the prior permission obtained from the Director of Mines Safety, DGMS-Chennai Region.
- 8) The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations to the concerned AD (Mines) at the time of execution of lease.
- 9) As accepted by the Project Proponent the CER cost of **Rs. 5 Lakhs** shall be spent for the activities as committed towards the Edathanur Government High School & **Rs.3 Lakhs** for solar lighting to nearby villages before obtaining CTO from TNPCB.

  
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Agenda No: 403-08

(File No.10189/2023)

Proposed Rough Stone and Gravel Quarry lease (Patta Land) over an extent of 3.90.50 Ha in S.F.Nos. 62/1A1, 63/1B1, 1B2, 1B3, 2, 4B, 4C, 4D, 68/2B (P), 2C (P), 2G (P), 2H (P), 70/1A1 (P) & 1A2 of Serpakkam Village, Uthiramerur Taluk, Kancheepuram District, Tamil Nadu by Thiru. D. Kirubananthan – For Environmental clearance. (SIA/TN/MIN/435713/2023, dated: 05.07.2023)

The proposal was placed in the 403<sup>rd</sup> meeting of SEAC held on 24.08.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, **Thiru. D. Kirubananthan** has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry lease (Patta Land) over an extent of 3.90.50 Ha in S.F.Nos. 62/1A1, 63/1B1, 1B2, 1B3, 2, 4B, 4C, 4D, 68/2B (P), 2C (P), 2G (P), 2H (P), 70/1A1 (P) & 1A2 of Serpakkam Village, Uthiramerur Taluk, Kancheepuram 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 proponent has furnished a detailed hydrogeological report of the proposed area.
4. The other salient features of the proposal are as follows:

File No	10189		Category	1(a)
	SIA/TN/MIN/435713/2023			B2
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru.D. Kirubananthan, S/o. Duraikkannu, No.202, 1 <sup>st</sup> Floor, Kurinji Nagar, Steel Plant 2 <sup>nd</sup> Gate Opp., Maramangalathupatti, Salem District – 636 030.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel Quarry	

  
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3.	S.F Nos. of the quarry site with area break-up	:	62/1A1, 63/1B1, 1B2, 1B3, 2, 4B, 4C, 4D, 68/2B (P), 2C (P), 2G (P), 2H (P), 70/1A1 (P) & 1A2	
4.	Village in which situated	:	Serpakkam	
5.	Taluk in which situated	:	Uthiramerur	
6.	District in which situated	:	Kancheepuram	
7.	Extent of quarry (in ha.)	:	3.90.50 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°36'52.1112"N to 12°37'00.8411"N 79°41'06.8135"E to 79°41'14.7795"E	
9.	Topo Sheet No.	:	57 P/10	
10.	Type of mining	:	Opencast Mechanized Method	
11.	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	
	Geological Resources m <sup>3</sup> (RoM)	:	As modified by SEAC	
		Rough Stone – 15,62,000 m <sup>3</sup>	:	-
		Gravel – 78,100 m <sup>3</sup>	:	-
	Minable Resources m <sup>3</sup> (RoM)	Weathered Rock- 1,95,250 m <sup>3</sup>	:	-
		Rough Stone – 5,42,635m <sup>3</sup>	:	-
		Gravel – 62,088m <sup>3</sup>	:	-
	Annual Peak Production in m <sup>3</sup>	Weathered Rock – 1,41,650m <sup>3</sup>	:	-
		Rough Stone – 1,18,195m <sup>3</sup>	:	-
		Gravel – 24,908m <sup>3</sup>	:	-
Maximum Depth in meters	:	47m		
13.	Depth of water table	:	65m below ground level	
14.	Man Power requirement per day:	:	50 Nos.	
15.	Water requirement:	:	2.4 KLD	
	1. Drinking Water & Domestic Purpose	:	0.7 KLD	
	2. Dust suppression	:	0.9 KLD	

  
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	3. Green belt	0.8 KLD	
16.	Power requirement	4,68,072 Liters of HSD	
17.	Precise area communication approved by the Assistant Director (i/c), Dept. of Geology and Mining with date	: Rc.No.240/Q3/2022, Dated:19.06.2023.	
18.	Mining Plan approved by the Assistant Director (i/c), Dept. of Geology and Mining with date	: Rc.No.240/Mines/2022, Dated:27.06.2023.	
19.	500m cluster letter issued by the Assistant Director (i/c), Dept. of Geology and Mining with date	Rc.No.240/Q3/2022, Dated:27.06.2023	
20.	VAO Certificate Regarding Structures within 300m Radius	Furnished (Nil dated)	
21.	Project Cost (excluding EMP cost)	: Rs. 1,18,38,000/-	
22.	EC Recommendation	: Validity	30 years subject to the following upper limits.
		: Max Total RoM in m <sup>3</sup>	Rough stone – 5,42,635 m <sup>3</sup>
			Gravel – 62,088m <sup>3</sup>
			Weathered rock – 1,41,650m <sup>3</sup>
: Annual Max RoM in m <sup>3</sup>	Rough stone – 1,18,195m <sup>3</sup>		
	Gravel – 24,908m <sup>3</sup>		
	Weathered rock - 55,325m <sup>3</sup>		
: Max Depth in mtrs	47m below ground level		
23.	EMP cost (in Rs. Lakh).	: Capital Cost – Rs. 39,04,350/- Recurring Cost – Rs. 27,21,761 /-	
24.	CER cost (in Rs. Lakh).	: Rs 5,00,000 /-	

  
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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 1,18,195m<sup>3</sup> of rough stone, 24,908m<sup>3</sup> of gravel & 55,325m<sup>3</sup> of weathered rock by restricting the ultimate depth of mining up to 47m above ground level 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) Within a period of one year from the date of lease execution, the PP shall carry out the scientific studies on optimization of the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. 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.
- 3) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and the existing quarry wall when the depth of the quarry touches 30 m or during the fourth year of quarrying operation, by involving anyone of these reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engg -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-

  
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DGM and DMS, Chennai as a part of Environmental Compliance without any deviation

- 4) The PP shall not adopt the 'Deep-hole large diameter drilling and blasting' without obtaining the prior permission obtained from the Director of Mines Safety, DGMS-Chennai Region.
- 5) The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations as well as for transportation of crushed stone from the mine, to the concerned AD (Mines) at the time of execution of lease.
- 6) As accepted by the Project Proponent the CER cost of **Rs. 5 Lakhs** shall be spent for the activities as committed towards the Panchayat Union Middle School, Vayaloor Village, Kancheepuram District before obtaining CTO from TNPCB.

**Agenda No: 402-09**

**(File No.10195/2023)**

**Proposed Grey Granite Quarry lease over an extent of 3.02.0 Ha (Patta Land) at S.F.Nos. 405/1B1A2 (Part) & 405/1B2 of Chendarapalli Village, Bargur (Formerly Krishangiri) Taluk, Krishnagiri District, Tamil Nadu by Thiru. B. S. Ravi – For Environmental clearance (SIA/TN/MIN/435150/2023, dated: 04.07.2023)**

The proposal was placed in the 403<sup>rd</sup> meeting of SEAC held on 24.08.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Proponent, **Thiru. B. S. Ravi** has applied for Environmental Clearance for the Proposed Grey Granite Quarry lease over an extent of 3.02.0 Ha (Patta Land) at S.F.Nos. 405/1B1A2 (Part) & 405/1B2 of Chendarapalli Village, Bargur (Formerly Krishangiri) Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.

During the meeting, the Committee noted that the project proponent was absent and hence the subject was not taken up for discussion. Further, the proponent vide mail has requested to postpone the meeting since the documents are insufficient for appraisal. Hence, the Committee decided to defer the proposal.

  
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Hence, the proponent is advised to submit the details within a period of 30 days failing which the proposal will be automatically delisted from the PARIVESH Portal.

**Agenda No: 403-10**

**(File No: 10196/2023)**

**Proposed Rough stone quarry lease over an extent of 2.00.0Ha at SF.No. 418(P) of 66-Mettupatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu by Thiru.N.Athimuthan - for Environmental Clearance. (SIA/TN/MIN/433376/2023, Dated:15.06.2023)**

The proposal was placed in 403<sup>rd</sup> meeting of SEAC held on 24.08.2023. 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.N.Athimuthan has applied for Environmental Clearance for the proposed Rough stone quarry lease over an extent of 2.00.0Ha at SF.No. 418(P) of 66-Mettupatti Village, Vadipatti Taluk, Madurai District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. Earlier, the PP has obtained Environmental Clearance from DEIAA vide Lr. No.DEIAA-TN-MDU/F.No.042/1(a)/Dated:24.08.2017 for the period of 10 years.
4. As per the MOEF&CC OM F. NO. IA3-22/11/2023-IA.III (E-208230) dated 28.4.2023 the EC has been granted by DEIAA should be Reappraised by SEIAA/SEAC.
5. Further, it is pertinent to observe that EIA Office memorandum F.No. IA3-22/11/2023-IA (E-208230), dated. 28.04.2023 and relevant part of the OM reads as under:

*"....it has been decided that all valid ECs issued by DEIAA shall be reappraised through SEAC/SEIAA in compliance to the order of the Hon'ble NGT in O.A.142 of 2022. In view of above, it is hereby directed that all concerned SEACs shall re-appraise the ECs issued between 15.01.2016 and 13.09.2018 (including both dates) and all fresh ECs shall be granted only by SEIAAs based on such appraisal. The exercise shall be completed within a time period of one year from the date of issue of this OM. DEIAAs shall transfer all such files where ECs have been*

  
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*granted to concerned SEIAA within a time period of one month from issue of this OM.....”*

*“....Environmental clearance was granted by DEIAA need to be brought in consonance with the directions given by the Hon’ble Supreme Court in Deepak Kumar (supra) and order dated. 13.09.2018 by this Tribunal in Satendra Pandey (supra) by re-appraisal by SEIAA and only such mining leases may be continued which have been on re-appraisal granted environmental clearance by SEIAA and after taking appropriate remedial action on the basis of such re-appraisal...”*

*Further, in order to have a uniform approach across the country for such appraisal, SEIAA shall scrutiny and appraise the proposals based on the checklist provided below:*

*xi. Compliance of Hon’ble Supreme Court Judgement dated 02.08.2017 passed in Common Cause vs Union of India Writ Petition (C) 114 of 2014.....”*

6. Based on the above, the PP should have stopped all the quarrying activity including excavation, transportation and dispatch of mineral/waste with effect from 28.05.2023, i.e. to facilitate the PP for submitting the application with necessary documents to the SEIAA-TN and completion of statutory formalities pertaining to the discontinuance of mining operations in accordance with MMDR Act 1957 & Mines Act 1952, within one month of issue of EIA Office memorandum F.No. IA3-22/11/2023-IA (E-208230), dated. 28.04.2023 and will continue to operate only after obtaining Environmental clearance from SEIAA-TN once completing the remedial actions based on such re-appraisal by SEIAA-TN.
7. But, it is further informed by the PP that the proponent has continued to carry out mining operations after submitting the application for the reappraisal by the SEIAA-TN till as on date.
8. As per the mining plan the lease period is for 10 years. The mining plan is for the period of Five years & the production should not exceed 1,48,578m<sup>3</sup> of rough stone with an ultimate depth of mining is 35m BGL. The annual peak production is 30,780m<sup>3</sup> of rough stone(4<sup>th</sup> year).

  
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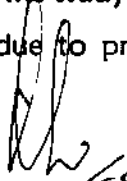
  
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Therefore, based on the presentation and documents furnished by the project proponent, SEAC decided to **grant of Terms of Reference (ToR) under Violation category, subject to the following ToRs**, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants. **The grant of Terms of Reference (TOR) under Violation category does not entail EC which is subject to the outcome of the final orders of the Hon'ble High Court of Madras in the matter of W.P.(MD) No. 11757 of 2021.**


1. The proponent shall submit an Affidavit before the issuance of ToR from SEIAA-TN stating that the mining operations will remain suspended till they obtain the EC granted by the SEIAA after the reappraisal process as per MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.
2. The project proponent shall submit a Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai as per the MoEF&CC O.M dated.08.06.2022 for the previous EC and appropriate mitigating measures for the non-compliance items, if any.
3. The PP shall furnish letter from AD, mines including the following details,
  - Existing pit dimension through precise mine surveying (DGPS)
  - Quantity achieved Vs EC Approved Quantity
  - Balance Quantity as per Mineable Reserve calculated.
  - Mined out Depth as on date Vs EC Permitted depth
  - Details of illegal/illicit mining carried out in the proposed quarry site
  - Violation in the quarry during the past working.
  - Quantity of material mined out outside the mine lease area
  - Condition of Safety zone/benches as on date
4. Details of any penalties levied on the PP for any violation in the quarry operation.
5. The Project Proponent shall furnish the revised EMP based on the study carried out on impact of the dust & other environmental impacts due to proposed

  
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- quarrying operations on the nearby agricultural lands for remaining life of the mine in the format prescribed by the SEAC considering the cluster situation.
6. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry.
  7. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
  8. The PP shall submit the stability status of the existing quarry wall and slope stability action plan by carrying out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus.
  9. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m & upto 1km shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
  10. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.
  11. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.

  
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12. Copy of valid mining lease approval obtained from the competent Authority.
13. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
14. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
15. Copy of 'No Objection Certificate' for the total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP if any.
16. Details of habitations and fireworks around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
17. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
18. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.
19. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
20. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
21. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such

  
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that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.

22. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
23. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
- i. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - ii. Quantity of minerals mined out.
  - iii. Highest production achieved in any one year
  - iv. Detail of approved depth of mining.
  - v. Actual depth of the mining achieved earlier.
  - vi. Name of the person already mined in that leases area.
  - vii. If EC and CTO already obtained, the copy of the same shall be submitted.
  - viii. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
24. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
25. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
26. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.

27. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working
28. methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
29. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
30. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
31. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
32. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
33. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
34. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human

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


  
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44. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
45. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the
46. 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.
47. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
48. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
49. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
50. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

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

**Agenda No. 403 – 11.**

**(File No: 10185/2023)**

**Existing Black Granite quarry lease over an extent of 1.07.5Ha in S.F.No:277/3A1B, 277/3A2, 278/2B, 278/3A4B, 282/13, 282/1A2 and 282/2B, Rayandapuram Village, Thandrapattu Taluk, Tiruvannamalai District, Tamil Nadu by Thiru.N.Viswanathan – For Environmental Clearance. (SIA/TN/MIN/434868/2023 Dt. 28.06.2022)**

  
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The proposal was placed in this 403<sup>rd</sup> meeting of SEAC held on 24.08.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. Earlier the PP has obtained precise area communication Govt. Lr. No. 5432/MMB-2/2015-1 Dt:18.05.2015.
2. Earlier the PP has obtained mining plan approval Lr. No. 1788/MM5/2015-Dt:08.06.2015.
3. Earlier the PP has obtained EC from SEIAA-TN vide Lr. SEIAA-TN/F.No.3679/EC/1(a)/2202/2015 dated 15.10.2015 for the proposed Black Granite quarry lease over an extent of 1.07.5Ha in S.F.No:277/3A1B, 277/3A2, 278/2B, 278/3A4B, 282/13, 282/1A2 and 282/2B, Rayandapuram Village, Thandrampattu Taluk, Tiruvannamalai District, Tamil Nadu for production of 300cu.m of Black Granite and depth upto 18m.( ROM of 5040m<sup>3</sup> of 300m<sup>3</sup> of Granite (Recovery 6%) & 4740m<sup>3</sup> of Granite Waste (Reject 60 %).
4. Earlier the PP has obtained granted mining Mining Lease vide G.O (3D) No. 30 dated 29.10.2015 for the period of 20 Years and lease was executed on from 08.12.2015 to 07.12.2020.
5. Now, the project proponent Thiru.N.Viswanathan has applied for Environmental Clearance for the 1<sup>st</sup> scheme of mining of existing Black Granite quarry lease over an extent of 1.07.5Ha in S.F.No:277/3A1B, 277/3A2, 278/2B, 278/3A4B, 282/13, 282/1A2 and 282/2B, Rayandapuram Village, Thandrampattu Taluk, Tiruvannamalai District, Tamil Nadu.
6. Commissioner / Dept. G&M in the mining plan approval lr. Rc.No. 1195/MM4/2023 dated 20.02.2023 has informed that PP has quarried and transported 800.752 cu.m of Black Granite against the 300 cu.m approved quantity till 16.08.2018 during the period (2015 - 2020). Hence, DD/ Dept. G&M has raised penalty of 100% of Rs.2,98,84,800/- For transporting excess transported 500.752 cu.m of Black Granite vide Rc. No. 438/Kanimam/2019-1 Dt: 29.06.2020. Further, the PP is yet to remit the penalty (Hon'ble High court) and dead rent for the period 2020 to 2023.

  
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7. The approved 1<sup>st</sup> scheme mining plan for the period of 2 Years (2023 - 2024 to 2024 - 2025) & production should not exceed ROM of 5780m<sup>3</sup> of 2312m<sup>3</sup> of Granite (Recovery 40%) & 3468m<sup>3</sup> of Granite Waste (Reject 60 %)]. The depth of mining is 11m BGL.

Based on the presentation and documents furnished by the project proponent. SEAC noted that this project falls under violation project and decided to grant of Terms of Reference (TOR) under Violation category, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and ToR given in Annexure-I, the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants. **The grant of Terms of Reference (TOR) under Violation category does not entail EC which is subject to the outcome of the final orders of the Hon'ble High Court of Madras in the matter of W.P.(MD) No. 11757 of 2021.**

1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 for the project in case of assessment of Ecological damage, remediation plan and natural & community resource augmentation plan to be prepared as an independent chapter in the Environment Impact assessment report by the Accredited consultant and also with collection and analysis of data for assessment of ecological damage, preparation of remediation plan and natural & community resource augmentation plan to be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, accredited by NABET or a Laboratory of council of Scientific and industrial research institutions working in the field of environment..
2. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.

  
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3. The PP shall furnish affidavits for stopping quarry operation as per MoEF&CC OM Dt:28.04.2023 and for the non-compliances mentioned in the Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC.
4. The project proponent shall furnish Certified Compliance Report (CCR) obtained from IRO(SZ), MoEF&CC and with mitigation measures for the non-compliance stated therein.
5. details of Existing pit dimension, quantity of the mineral quarried and last transport permit for the earlier lease period from Dept. Of Geology & Mining.
6. The structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc.
7. The project proponent shall furnish details of photographs of adequate barbed fencing, greenbelt and garland drain around the boundary of the proposed quarry.
8. Copy of valid mining lease approval obtained from the competent Authority.
9. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
10. Copy of approved review of scheme of mining / mining plan by the competent authority of the Dept of Geology and Mining.
11. Copy of 'No Objection Certificate' for the total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.
12. Details of habitations and fireworks around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
13. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.

  
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14. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.
15. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
16. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
17. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
18. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
19. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
20. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
21. Quantity of minerals mined out.
22. Highest production achieved in any one year
23. Detail of approved depth of mining.
24. Actual depth of the mining achieved earlier.

  
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25. Name of the person already mined in that leases area.
26. If EC and CTO already obtained, the copy of the same shall be submitted.
27. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
28. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
29. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
30. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
31. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working
32. methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
33. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
34. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly

  
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be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.

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

42. Impact on local transport infrastructure due to the Project should be indicated.
43. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
44. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
45. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
46. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
47. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
48. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
49. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the
50. 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.
51. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the

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

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

  
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which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.

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

**Agenda No: 403 - 12**

**(File No: 10197/2023)**

**Existing Rough stone quarry lease over an extent of 1.46.0Ha (Government Poramboke Land in S.F. No:809 (Part-3), Alur Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru.K.Srinivasan - For Environmental Clearance. (SIA/TN/MIN/435102/2023, Dt. 30/06/2023)**

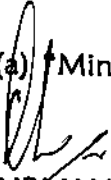
The proposal was placed in this 403<sup>rd</sup> meeting of SEAC held on 24.08.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. Earlier, the PP has obtained precise are communication vide Lr. RoC. No. 187/2018/Mines Dt:09.03.2018 for the period of 10 Years.
2. Earlier, the PP has obtained EC from DEIAA vide Lr. No. 03/DEIAA-KGI/EC. NO. 37/2018 Dt:27.08.2018 proposed Rough stone quarry lease over an extent of 1.46.0Ha (Government Poramboke Land in S.F. No:809 (Part-3), Alur Village, Hosur Taluk, Krishnagiri District, Tamil Nadu for production of 687960 cu.m of Rough Stone and upto depth of 57 m under B2 category (<25 Ha).
3. District proceedings vide Proc. vide Lr. RoC. No. 187/2018/Mines Dt:08.03.2019.
4. MoEF&CC OM Dt: 28.04.2023
5. Now, the project proponent, Thiru.K.Srinivasan has applied for Environmental Clearance for the existing Rough stone quarry lease over an extent of 1.46.0 Ha in S.F.No:809 (Part-3), Alur Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
6. The project/activity is covered under category "B2" of Item 1 (a) Mining of

  
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Minerals Projects” of the schedule to the EIA Notification, 2006. Cluser area - 3.06 ha ( Lr. RoC. No. 187/2018/Mines Dt:23.05.2023).

7. The approved mining plan is for the period of 2<sup>nd</sup> five years & production should not exceed 79950m<sup>3</sup>. The annual peak production is 23360m<sup>3</sup> of Rough Stone (4<sup>th</sup> Year). The depth of mining is 51m.

During the meeting the Committee noted that the project proponent was absent for the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

**Agenda No: 403 - 13**

(File No: 10203/2023)

Proposed Rough stone and Gravel quarry lease over an extent of 2.00.0Ha of S.F.Nos.1/3B (Part) at Muthukkadu Village, Kulathur Taluk, Pudukkottai District, Tamil Nadu by Mr.S.Thirumurugan - For Environmental Clearance. (SIA/TN/MIN/435790/2023 Dt. 10.07.2023)

The proposal was placed in this 403<sup>rd</sup> meeting of SEAC held on 24.08.2023. 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, Mr.S.Thirumurugan has applied for Environmental Clearance for the Rough stone and Gravel quarry lease over an extent of 2.00.0Ha of S.F.Nos.1/3B (Part) at Muthukkadu Village, Kulathur Taluk, Pudukkottai 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 precise area communication was issued for the period of 5 years. The approved mining plan is for the period of 1<sup>st</sup> five years & production should not exceed 328140m<sup>3</sup> of Rough Stone & 31360m<sup>3</sup> of Gravel. The annual peak production is 69160m<sup>3</sup> of Rough Stone (2<sup>nd</sup> Year) & 17920m<sup>3</sup> of Gravel (1<sup>st</sup> Year) . The depth of mining is 50m BGL.

Sl. No	Sallent Features of the Proposal
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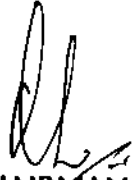
  
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1.	Name of the Owner/Firm	Mr.S.Thirumurugan, S/o.Sathappan, No.2/61A, Vettikadu, Thirunalur North, Aranthangi Taluk, Pudukkottai District-614624	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone )	Rough Stone and Gravel	
3.	S.F Nos. of the quarry site with area break-up	1/3B (Part)	
4.	Village in which situated	Muthukkadu	
5.	Taluk in which situated	Kulathur	
6.	District in which situated	Pudukkottai	
7.	Extent of quarry (in ha.)	2.00.0Ha	
8.	Latitude & Longitude of all corners of the quarry site	10°36'6.37"N to 10°30'12.40"N 78°48'27.76"E to 79°40'32.83"E	
9.	Topo Sheet No.	58 J/14	
10.	Type of mining	Open Cast Mechanized of Mining	
11.	Life of Project	5 Years	
	Lease Period	5 Years	
	Mining Plan Period	5 Years	
12.	Mining Plan Details	As per approved Mining Plan	
	Geological Resources m <sup>3</sup> (RoM)	Rough Stone in m <sup>3</sup>	Gravel in m <sup>3</sup>
		957072m <sup>3</sup>	39878m <sup>3</sup>
	Mineable Resources m <sup>3</sup> (RoM)	Rough Stone	Gravel
		328140m <sup>3</sup>	31360m <sup>3</sup>
Annual Peak Production in m <sup>3</sup>	Rough Stone	Gravel	
	69160m <sup>3</sup>	17920m <sup>3</sup>	
Ultimate Depth in meters	50mBGL		
13.	Depth of water table	65m-60m	
14.	Man Power requirement per day:	24 Nos	

  
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15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	: 4.0 KLD 2.0 KLD 1.5 KLD 1.5 KLD												
16.	Power requirement	TNEB 1267742 Liters of HSD												
17.	Precise area communication approved by Assistant Director Department of G&M.	: Rc.No.84/2023(G&M), dt:20.06.2023												
18.	Mining Plan approved by Assistant Director Department of G&M.	: Rc.No.84/2023 (G&M), dt:04.07.2023												
19.	Department of G&M, Assistant Director 500m Cluster Letter	: Rc.No.84/2023 (G&M), dt:04.07.2023												
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter dated: 06.07.2023												
21.	Project Cost (excluding EMP cost)	: Rs.83.70 Lakhs												
22.	EC Recommendation	: As per approved mining plan												
		: <table border="1"> <thead> <tr> <th></th> <th>Rough Stone</th> <th>Gravel</th> </tr> </thead> <tbody> <tr> <td>Max Total RoM in m<sup>3</sup></td> <td>328140 m<sup>3</sup></td> <td>31360m<sup>3</sup></td> </tr> <tr> <td>Annual Max RoM in m<sup>3</sup></td> <td>69160m<sup>3</sup></td> <td>17920m<sup>3</sup></td> </tr> <tr> <td>Max Depth in mtrs</td> <td colspan="2">50mBGL</td> </tr> </tbody> </table>		Rough Stone	Gravel	Max Total RoM in m <sup>3</sup>	328140 m <sup>3</sup>	31360m <sup>3</sup>	Annual Max RoM in m <sup>3</sup>	69160m <sup>3</sup>	17920m <sup>3</sup>	Max Depth in mtrs	50mBGL	
			Rough Stone	Gravel										
		Max Total RoM in m <sup>3</sup>	328140 m <sup>3</sup>	31360m <sup>3</sup>										
Annual Max RoM in m <sup>3</sup>	69160m <sup>3</sup>	17920m <sup>3</sup>												
Max Depth in mtrs	50mBGL													
: Capital Cost - Rs.23.27 Lakhs Recurring Cost - Rs.21.15 Lakhs With 5% inflation for the recurring cost.														
: Rs.10 Lakhs														
23.	EMP cost (in Rs. Lakh).													
24.	CER cost (in Rs. Lakh).													

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production shall not exceed 69160m<sup>3</sup> of Rough Stone & 17920m<sup>3</sup> of Gravel

  
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by restricting the ultimate depth of mining upto 50m 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 transport the material by having alternative transportation route instead of passing through the villages with taking all required protective measures to avoid the spillage & dust pollution.
- 3) **Since the structures are situated within a radial distance of 500 m**, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. 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.
- 4) 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,

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

- 5) The PP shall give an affidavit to the concerned DEE/TNPCB at the time of obtaining the CTO that the conservative measures as stipulated in the Annexure to protect the Reserved Forest/Reserve Land existing at a distance of less than 1km from the project site are carried out without any deviation.
- 6) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 7) As accepted by the Project Proponent the CER cost of Rs.10 Lakhs and the amount of Rs. 5 Lakhs each shall be spent for the Panchayat Union Primary School, KeelamuthukaduVillage & Panchayat Union Primary School, Cauvery Nagar Village, Muthukkadu Panchayat, Kulathur Taluk, Pudukkottai District before obtaining CTO from TNPCB.

**Agenda No: 403-14**

**(File No: 10180/2023)**


**Proposed Rough Stone and Gravel Quarry over an extent of 1.91.00 Ha at S.F.Nos.353/1B, 353/2A, 367/2 & 368/1 of Madhavakurichi Village, Manur Taluk, Tirunelveli District, Tamil Nadu by Thiru.Asan Ibrahim -For Environmental Clearance. (SIA/TN/MIN/434185/2023, Dated:24.06.2023).**

The proposal was placed in this 403<sup>rd</sup> Meeting of SEAC held on 24.08.2023. 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:**

  
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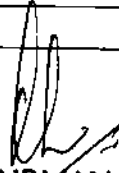
  
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1. The Project Proponent, Thiru.Asan Ibrahim has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry over an extent of 1.91.00 Ha at S.F.Nos.353/1B, 353/2A, 367/2 & 368/1 of Madhavakurichi Village, Manur Taluk, Tirunelveli 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. This area was earlier quarried by N. Ganesharaja for a period of 3 years vide District Collector proceedings RC. No. M3/78002/2000 dated 27.11.2000. The lease period was from 18.12.2000 to 17.12.2003. Further another lease was granted vide District Collector Proceedings Rc.No M2/27213/2004 dated 10.01.2005 for a period of 5 years from 21.02.2005 to 20.02.2010.
4. Existing pit-4m.
5. As per the mining plan the lease period is 5 years. The mining plan is for the period of Five years & production should not exceed 1,24,129 m<sup>3</sup> of Rough Stone & 31,842 m<sup>3</sup> of Gravel with ultimate depth of mining 23m BGL.
6. The salient features of the proposed project as follows

File No	10180	
	SIA/TN/MIN/434185/2023, Dated:24.06.2023	
Sl. No	Salient Features of the Proposal	
25.	Name of the Owner/Firm	: Thiru.Asan Ibrahim, S/o. Sahul Hameed, No.6, Collector Nagar, Jeya Nagar, Palayamkottai Taluk, Tirunelveli District. Pin Code-627011.
26.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	: Rough Stone and Gravel Quarry
27.	S.F Nos. of the quarry site with area break-up	: 353/1B, 353/2A, 367/2 & 368/1
28.	Village in which situated	: Madhavakurichi

  
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29.	Taluk in which situated	:	Manur	
30.	District in which situated	:	Tirunelveli	
31.	Extent of quarry (in ha.)	:	1.91.00 Ha	
32.	Latitude & Longitude of all corners of the quarry site	:	08°48'36.90"N to 08°48'45.00"N 77°38'52.85"E to 77°39'00.30"E	
33.	Topo Sheet No.	:	58 - H/9	
34.	Type of mining	:	Opencast Semi mechanized Mining	
35.	Life of Project	:	5 years	
	Lease Period	:	5 years	
	Mining Plan Period	:	5 years	
36.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone – 3,65,599 m <sup>3</sup>	Rough Stone – 3,65,599 m <sup>3</sup>
			Gravel – 48,729 m <sup>3</sup>	Gravel – 48,729 m <sup>3</sup>
	Mirable Resources m <sup>3</sup> (RoM)	:	Rough Stone – 1,24,129 m <sup>3</sup>	Rough Stone – 1,24,129 m <sup>3</sup>
			Gravel – 31,842 m <sup>3</sup>	Gravel – 31,842 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone – 26,764 m <sup>3</sup>	Rough Stone – 26,764 m <sup>3</sup>
			Gravel – 9,264 m <sup>3</sup>	Gravel – 9,264 m <sup>3</sup>
Maximum Depth in meters	:	23m BGL		
37.	Depth of water table	:	60m BGL	
38.	Man Power requirement per day:	:	10 Nos.	
39.	Water requirement: 4. Drinking water & Domestic 5. Dust suppression 6. Green belt	:	5.0KLD 1.0KLD 3.0KLD 1.0KLD	

  
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40.	Power requirement		TNEB		
41.	Precise area communication approved by the Joint Director / Assistant Director(i/c), Department of Geology and Mining	:	Rc.No. M2/32897/2019 Dated; 03.01.2023		
42.	Mining Plan approved by Joint Director / Assistant Director(i/c), Department of Geology and Mining	:	Rc.No. M2/32897/2019 Dated; 31.01.2023		
43.	Joint Director / Assistant Director(i/c), Department of Geology and Mining, 500m Cluster Letter		Rc.No. M2/32897/2019 Dated; 31.01.2023		
44.	VAO Certificate Regarding Structures within 300m Radius		Letter Dated: 23.01.2023		
45.	Project Cost (excluding EMP cost)	:	Rs. 46,03,000/-		
46.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
			Max Total RoM in m <sup>3</sup>	1,24,129 m <sup>3</sup>	31,842 m <sup>3</sup>
			Annual Max RoM in m <sup>3</sup>	26,764 m <sup>3</sup>	9,264 m <sup>3</sup>
		:	Max Depth in mtrs	23m BGL	
47.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 18.44 lakhs recurring cost – Rs. 14.91 lakhs/annum		
48.	CER cost (in Rs. Lakh).	:	Rs. 7,00,000 /- 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 the

  
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annual peak production capacity of not exceeding 26,764 m<sup>3</sup> of rough stone & 9,264 m<sup>3</sup> of Gravel by maintaining the ultimate depth of mining upto 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. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. 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.
3. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations to the concerned AD (Mines) at the time of execution of lease.
4. The PP shall transport the material by having alternative transportation route instead of passing through the villages with taking all required protective measures to avoid the spillage & dust pollution.
5. As accepted by the Project Proponent the CER cost of Rs. 7 Lakhs and the amount shall be spent for the activities as committed towards Government Panchayat Primary School, Rasta Village before obtaining CTO from TNPCB.

Agenda No: 403-15

  
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(File No: 10186/2023)

Proposed Multi Colour Granite Quarry over an extent of 1.33.5Ha at S.F.Nos. 536/2A2, 536/3 & 536/4B of Kalugur Village, Kulithalai Taluk, Karur District, Tamil Nadu by Thiru.M.Gandhi-For Environmental Clearance. (SIA/TN/MIN/430234/2023, Dated:22.05.2023).

The proposal was placed in this 403<sup>rd</sup> Meeting of SEAC held on 24.08.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru.M.Gandhi has applied for Environmental Clearance for the Proposed Multi Colour Granite Quarry over an extent of 1.33.5Ha at S.F.Nos. 536/2A2, 536/3 & 536/4B of Kalugur Village, Kulithalai Taluk, Karur District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. The quarry lease was granted for a period of Twenty years. The quarry lease deed was executed on 14.11.2006 and the lease period is valid upto 13.11.2026.
4. Earlier, the project proponent has obtained EC from DEIAA vide Lr.No.DEIAA-DIA/TN/MIN/17861/2018-KRR/EC.No.19/2018/Mines dated: 09.10.2018 for the period of 5 years from 2016-17 to 2020-21 with respect to lease period.
5. Certified Compliance Report (CCR) obtained from IRO(SZ); MoEF&CC vide Lr. EP/12.1/2022-23/SEIAA/152/TN/1202 Dt:15.11.2022.
6. The mining plan is for the period of Five years (2021-22 to 2025-26) & production should not exceed 35709 m<sup>3</sup> of ROM & 17855 m<sup>3</sup> of Recovery@50% & 17855m<sup>3</sup> of Granite Waste @50% with ultimate depth of mining 37m.
7. The salient features of the proposed project as follows

File No	10186	Category	"B2" 1(a)
	SIA/TN/MIN/430234/2023, Datrd:22.05.2023		EC

  
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Sl. No	Salient Features of the Proposal			
25.	Name of the Owner/Firm	:	Thiru.M.Gandhi, S/o . Masanam, Karattupatti Village , Andipatti Taluk, Theni District - 625562.	
26.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Multi Colour Granite Quarry	
27.	S.F Nos. of the quarry site with area break-up	:	536/2A2, 536/3 & 536/4B	
28.	Village in which situated	:	Kalugur	
29.	Taluk in which situated	:	Kulithalai	
30.	District in which situated	:	Karur	
31.	Extent of quarry (in ha.)	:	1.33.5Ha	
32.	Latitude & Longitude of all corners of the quarry site	:	10° 44' 47.62" N to 10° 44' 51.76" N 78° 23' 28.52" E to 78° 23' 35.05" E	
33.	Topo Sheet No.	:	58- J/06	
34.	Type of mining	:	Opencast mechanized Mining	
35.	Life of Project	:	9 years	
	Lease Period	:	20 years (14.11.2006 to 13.11.2026)	
	Mining Plan Period	:	5 years (2021-22 to 2025-26)	
36.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
		Geological Resources m <sup>3</sup> (RoM)	:	ROM 401414 m <sup>3</sup>
	:		Recovery @50% 200707 m <sup>3</sup>	Recovery @50% 200707 m <sup>3</sup>
	:		Granite Waste @50% 200707m <sup>3</sup>	Granite Waste @50% 200707m <sup>3</sup>
	Minaible Resources m <sup>3</sup> (RoM)	:	ROM 63040 m <sup>3</sup>	ROM 63040 m <sup>3</sup>
		:	Recovery 50% 31520m <sup>3</sup>	Recovery 50% 31520m <sup>3</sup>
		:	Granite Waste 50% 31520m <sup>3</sup>	Granite Waste 50% 31520m <sup>3</sup>

  
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			31520m <sup>3</sup>	
	Annual Peak Production in m <sup>3</sup>	:	ROM 7650 m <sup>3</sup>	ROM 7650 m <sup>3</sup>
		:	Recovery 50% 3825 m <sup>3</sup>	Recovery 50% 3825 m <sup>3</sup>
		:	Granite Waste 50% 3825m <sup>3</sup>	Granite Waste 50% 3825m <sup>3</sup>
	Maximum Depth in meters	:	37m	
37.	Depth of water table	:	63m depth in summer and 58m in rainy season BGL	
38.	Man Power requirement per day:	:	42 Nos.	
39.	Water requirement: 5. Drinking water 6. Dust suppression 7. Green belt	:	2.0KLD 0.5KLD 0.8KLD 0.7KLD	
40.	Power requirement	:	TNEB 57,136 liters of HSD	
41.	Precise area communication approved by the Commissioner Geology & Mining.	:	G.O. (3D). No. 75 Industries (MME-2) Department, Dated 2.11.2006	
42.	Mining Plan approved by Commissioner Geology & Mining.	:	Rc. No. 4903/MM2/2021, Dated:16.09.2022 (2021-22 to 2025-26)	
43.	Deputy Director, Dept. of Geology & Mining 500m Cluster Letter	:	Rc.No. 287/Mines/2021 Dated: 10.10.2022	
44.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 16.05.2023	
45.	Project Cost (excluding EMP cost)	:	Rs. 2,74,38,000/-	
46.	EC Recommendation	:	Validity	30 years subject to the following upper limits. Multi Colour Granite

  
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		:	Max Total RoM in m <sup>3</sup>	35,709 m <sup>3</sup> of ROM & 17,855 m <sup>3</sup> of Recovery @50% & 17,855m <sup>3</sup> of Granite Waste @50%
		:	Annual Max RoM in m <sup>3</sup>	7650 m <sup>3</sup> of ROM & 3825 m <sup>3</sup> of Recovery 50% & 3825 m <sup>3</sup> of Granite Waste 50%
		:	Max Depth in mtrs	37m BGL
47.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 3061450/- recurring cost – Rs. 1154620/-annum	
48.	CER cost (in Rs. Lakh).	:	Rs. 7,00,000 /- 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 the annual peak production capacity of not exceeding 7650 m<sup>3</sup> of ROM by restricting the ultimate depth of mining upto 37m 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 carry out the required number of plantations as committed in the EMP around the periphery of the lease boundary without deviation before the execution of the lease.
3. The PP shall appoint a Geologist for carrying out the quarrying operations scientifically before the execution of lease in the office of District Magistrate.
4. The PP shall ensure that the safety provisions as stipulated in the DGMS Circulars for protecting the workmen during the operation of Diamond wire saw cutting machine in the quarry.

  
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5. As accepted by the Project Proponent the CER cost of **Rs. 7 Lakhs** and the amount shall be spent for the activities as committed towards Government Higher Secondary School, Thogaimalai Village before obtaining CTO from TNPCB.

**Agenda No: 403-16**

**(File No: 10138/2023)**

**Proposed Rough Stone Quarry over an extent of 0.71.0Ha at S.F.No: 4/1 of Ganapathipatti Village, Harur Taluk, Dharmapuri District, Tamil Nadu by M/s. Sri Amman Blue Metals -For Environmental Clearance. (SIA/TN/MIN/433309/2023, Dated:14/06/2023).**

The proposal was placed in this 403<sup>rd</sup> Meeting of SEAC held on 24.08.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, M/s. Sri Amman Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone Quarry over an extent of 0.71.0Ha at S.F.No: 4/1 of Ganapathipatti Village, Harur Taluk, Dharmapuri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 10 years. The mining plan is for the period of Five years & production should not exceed 24109 m<sup>3</sup> of Rough Stone with ultimate depth of mining 19m BGL.
4. The PP had earlier submitted an online application **SIA/TN/MIN/413314/2023, Dated 06.01.2023 (9726/2022)** to obtain Environmental Clearance. This proposal was placed in the 372<sup>nd</sup> SEAC meeting held on 27.04.2023. During presentation, PP has submitted Lr. Dt:27.04.2023 stating that they have decided to withdraw the proposal in view of the Circular Memo No. T1/TNPCB/F.002953/Rough Stone/ SPR/2023 Dt:24.04.2023. Based on the above, SEAC has decided to recommend to SEIAA to accept the request of PP to withdraw the proposal No. SIA/TN/MIN/413314/2023, dt: 06.01.2023. Subsequently, this proposal was placed in the 619<sup>th</sup> Meeting of Authority held on

  
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18.05.2023. The Authority after detailed discussion decided to defer and to seek justification from the PP for withdrawal of this said proposal seeking EC

5. The quarry lease was granted for a period of ten years. The quarry lease deed was executed on 12.02.2018 and the lease period is valid upto 11.02.2028.
6. Earlier, the project proponent has obtained EC from DEIAA vide Lr.No.DEIAA-DIA/TN/MIN/17861/2018-KRR/EC.No.19/2018/Mines dated: 09.10.2018 in the name of Thiru.K.Lakshmanan for the period of 5 years from 2016-17 to 2020-21 with respect to lease period.
7. Certified Compliance Report (CCR) obtained from IRO(SZ); MoEF&CC vide Lr. EP/12.1/2022-23/SEIAA/247/TN/144 Dt:01.02.2023 states that  
*"...During the site visit, it was also observed that they have removed rough stone beyond the boundary line. In this regard, Government of Tamil Nadu imposed fine of Rs. 25000/- for excess of removing rough stone".*

Based on the presentation and documents furnished by the project proponent, SEAC decided to **grant of Terms of Reference (TOR) under Violation category, subject to the following TORs**, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants. **The grant of Terms of Reference (TOR) under Violation category does not entail EC which is subject to the outcome of the final orders of the Hon'ble High Court of Madras in the matter of W.P.(MD) No. 11757 of 2021.**

1. The PP shall furnish an Independent Chapter 13 as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017 prepared by the accredited consultants within a period of one year from the issue of this specific ToR, comprises of assessment of ecological damage for the project activities carried out during the violation period, and the remediation plan and natural & community resource augmentation plan corresponding to the ecological damage assessed and economic benefit derived due to violation as a condition of Environmental Clearance.

  
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2. The proponent shall withdraw the pending EC application **SIA/TN/IMN/413314/2023, Dated 06.01.2023 (9726/2022)** from PARIVESH Portal.
3. As a part of procedural formalities as per the MoEF & CC Violation Notification – S.O. 804 (E), dated. 14.03.2017, the action will be initiated by the competent authority under section 15 read with section 19 of the Environment (Protection) Act, 1986 against violation.
4. Copy of valid mining lease approval obtained from the competent Authority.
5. Letter stating that the quarry lease deed has not been cancelled or terminated and is subsisting as on date.
6. Copy of approved review of scheme of mining plan by the competent authority of the Dept of Geology and Mining.
7. Copy of 'No Objection Certificate' for the total penalty levied by the concerned AD/DD, Dept of Geology and Mining, and copy of remittance of total penalty by PP.
8. Details of habitations and fireworks around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
9. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
10. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.
11. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.

  
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12. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
13. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
14. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
15. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
  - i. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
  - ii. Quantity of minerals mined out.
  - iii. Highest production achieved in any one year
  - iv. Detail of approved depth of mining.
  - v. Actual depth of the mining achieved earlier.
  - vi. Name of the person already mined in that leases area.
  - vii. If EC and CTO already obtained, the copy of the same shall be submitted.
  - viii. Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
16. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).



17. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
18. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
19. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working
20. methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
21. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
22. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
23. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
24. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution,

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

  
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implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.

34. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
35. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
36. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
37. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the
38. 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.
39. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
40. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
41. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.


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

**Agenda No: 403- TA**

  
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**File No.6240/2017**

**Existing limestone quarry over an extent of 5.05.0 Ha in S.F.No 249/5, 249/6 & 253/1B at Uthappanaickkanur Village, Usilampatti Taluk, Madurai District by Thiru. K.R.Karuppasamy-For Environment Clearance under Violation category.**

**(SIA/TN/MIN/62101/2017 dated 28.01.2017)**

The proposal was earlier placed in the 139<sup>th</sup> meeting of SEAC held on 22.11.2019. The Proponent made a detailed presentation regarding the proposed project. The details of the project furnished by the proponent are available on the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The proposal is for Environmental Clearance (under violation category) preferred by Thiru K.R. Karuppasamy for existing Lime stone quarry project over an extent of 5.05.0 Ha -Patta land at S.F.No. 249/5, 249/6 & 253/1B, Uthappanaickkanur Village, Usilampatti Taluk, Madurai District.
2. The proposed quarry/activity is covered under Category "B" – "Under Violation Category" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. ToR (violation category) accorded vide Letter No. SEIAA – TN/F.No.6240/SEAC/ToR-409/2018 dated 14.05.2018.

Based on the presentation made by the proponent and the documents furnished, the SEAC decided to make an on - the - spot inspection to assess the present status of the site by the sub-committee constituted by the SEAC since the project proponent applied under violation category under the notification of MoEF&CC dated 14/03/2017 and 8/03/2018. The Sub-Committee inspected the site on 02.02.2020, held discussions with the Authorities regarding the proposal seeking Environment Clearance for the Proposed Limestone quarry over an Extent of 5.05.0 Ha in S.F.No. 249/5, 249/6 & 253/1B, at Uthappanaickkanur Village, Usilampatti Taluk, Madurai District of Tamil Nadu.

During inspection of the site, the following were observed.

1. It was observed that proposed site was an existing pit with a mined-out depth up to a depth of 15m.

  
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2. Nearby land owners/farmers complained about mining waste dumping and dust emissions.
3. No fencing arrangement was provided around the periphery of the mining site.
4. The site was surrounded by the forest area in the Western side.


The inspection report of the sub- committee was placed in this 144<sup>th</sup> meeting of SEAC held on 17.02.2020. After detailed deliberations, the SEAC decided to defer the proposal till the next SEAC meeting.

Subsequently the subject was placed in the 164<sup>th</sup> meeting of SEAC held on 20.07.2020. After detailed deliberations, the SEAC noted that Uthappanaickkanur Village, Usilampatti Taluk, Madurai District falls under the HACA area as per the G.O.MS.No.49 dated 24.03.2003 and hence directed the project proponent to submit the HACA clearance for the mining activity to SEIAA. After receipt of the above details further course of action would be taken on the proposal.

The Project proponent furnished the above said details to SEIAA-TN on 05.04.2021. The subject was placed in the 209<sup>th</sup> meeting of SEAC held on 09.04.2021. After detailed discussions, the committee informed that the letter submitted by the project proponent is not acceptable and only the HACA Authority shall issue NOC. Hence directed the project proponent to submit the HACA clearance for the mining activity to SEIAA. After receipt of the above details further course of action would be taken on the proposal.

The Proponent furnished the copy of MoEF&CC letter dated 14.06.2022 addressed to Member Secretary, SEIAA TN wherein it is stated that HACA clearance is not required as per the provisions given under EIA Notification, 2006 as amended.

Meanwhile the Proponent requested via PARIVESH for withdrawal of the application and hence the subject was placed before the Authority in its meeting held on 15.10.2022. The Authority deferred the subject to a later date.

  
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The proposal was taken up for appraisal in the 335<sup>th</sup> meeting of SEAC held on 06.12.2022. Based on the presentation made by the proponent and the documents furnished, the Committee decided to make an on - the - spot inspection to assess the present status of the site by the sub-committee constituted by the SEAC since the project proponent applied under violation category with the following directions to the Project Proponent:

1. PP shall ensure the online application is in complete shape and shall upload all the mandatory documents, EIA report, Public Hearing minutes, ToR compliance at once.
2. PP shall submit valid revised approved mine plan.
3. Exact area and survey numbers of the proposed project site shall be furnished.
4. The PP obtain letter from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.

Meanwhile the sub-committee constituted by the SEAC inspected the site on 22.03.2023 and submitted the interim report to the committee in this 403<sup>rd</sup> meeting of SEAC held on 24.08.2023 seeking additional particulars from the PP: The committee held detailed discussions and decided to call for the following additional particulars from the PP:

1. Copy of lease validity extension obtained from the Competent Authority.
2. Copy of 3<sup>rd</sup> scheme of mining obtained from the Competent Authority.
3. Details of penalty levied by the Department of Geology and Mining, if any, and the payment details.

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## ANNEXURE-I

### SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED WITHIN 1 KM FROM THE RESERVE FORESTS

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

  
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9. The PP shall not perform secondary breakage involving the drilling & blasting in the quarrying operations and it can be replaced with non-conventional methods such as noise-controlled rock breakers, usage of non-explosive expansive materials/chemicals, Hydraulic Splitting based on the suitable scientific studies carried out by any reputed scientific and academic institutions.
10. The PP shall take adequate steps to control the air pollution due to fines, dust, smoke or gaseous emissions during the quarrying operations within 'Permissible Limits' specified under the environmental laws.
11. The Quarrying and Mining activities shall be restricted in the Eco-sensitive Zone of 60 m from the boundary of the Reserved area and hence the PP shall not even indulge in constructing the haul roads in these areas.
12. No development on existing steep hill slopes or slopes with a high degree of erosion shall be permitted. Hence, the PP shall not carry out the quarrying on steep hill slopes with a gradient of 20° or more or areas with a high degree of erosion on forestland.
13. The PP shall give an affidavit at the time of lease execution that there will be no felling of trees (or) any encroachment will not be made on these Reserved Forest lands and also within the Eco-sensitive Zone of 60 m without the prior permission of the State Government in case of reserve forest land as per the procedures laid down by the State Government.
14. The PP shall not use plastic carry bags within the quarry area.
15. The PP shall ensure that all the haul roads within the quarry lease shall be provided with adequate number of road side drains and these drains shall be kept free from blockage for runoff disposals. This run off from the road side drainage shall relate to the natural drainage system in the area.
16. The PP shall adhere to the provisions of the MoEF had issued Notification No. S.O. 1545 dated 25th June 2009 regulating certain activities in the eco-sensitive zone to conserve and protect the reserved forest area from ecological and environmental point of view.

  
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### GRAVEL / RED EARTH & PEBBLES QUARRY – GENERAL CONDITIONS

1. The proponent shall mandatorily appoint the statutory competent persons and commence the quarry operations within the purview of Mines Act 1952.
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. No change in basic mining proposal shall 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. 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.
6. 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.
7. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.

  
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8. 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.
9. 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.
10. **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.
11. 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.
12. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
13. 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

  
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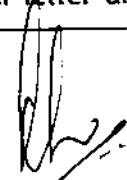
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IRC Guidelines with respect to complying with traffic congestion and density.

14. 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.
15. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
16. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
17. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
18. 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.
19. 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.
20. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the

  
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Precise area communication letter issued by concerned District Collector should be strictly followed.

21. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
22. 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.
23. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.

  
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### ROUGH STONE/JELLY/BLUE METAL QUARRY

- 1) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 2) 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.
- 3) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 4) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry including all the contractual employees/truck drivers shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy / Salem / Hosur.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) The proponent shall install 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,

  
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11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.

- 8) The Proponent shall submit a conceptual 'Slope Stability Action Plan' incorporating the benches & accessible haul road approved by the concerned AD (Mines) for the proposed quarry to the DEE/TNPCB at the time of obtaining the CTO.
- 9) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are undergoing the initial/periodical medical examination in the DGMS approved OHS Clinics/Hospitals as per the DGMS Circular No. 01 of 2011 before they are engaged in mining activities.
- 10) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are provided with adequate PPEs before engaged in mining operations.
- 11) The PP shall meticulously carry out the mitigation measures as spelt out in the approved EMP.
- 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 should be adopted by considering the wind direction.
- 13) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 14) The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.
- 15) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.

  
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- 16) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.
- 17) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.
- 18) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.
- 19) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
- 20) Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. 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.
- 21) **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.



- 22)The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.
- 23)The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.
- 24) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.
- 25)The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.
- 26)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.
- 27)The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan& the approved Mine Closure Plan.
- 28)Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.
- 29)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


  
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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.

- 30) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
- 31) 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.
- 32) 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.
- 33) 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.
- 34) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
- 35) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.

  
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36)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.

37)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.

38)That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.


39)As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

40) 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.

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


  
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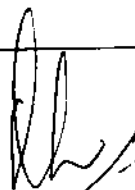
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**SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED IN CLOSE PROXIMITY TO THE WINDMILLS**

Sl. No	Existing (or) Virgin Quarry	
	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m Up to 500 m
1.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR 1961.
2.	Special precautions are to be taken during blasting within danger zone such as posting guards, etc.	Blast design parameters should be mentioned in mining plan/scheme. and may be reviewed by a competent mining engineer.
3.	Blast design parameters should be mentioned in mining plan/scheme.	MCPD and total charge should be fixed such that it should not exceed 1.3 kg and 26.50 kg respectively.
4.	The recommendations of scientific organisation need to be incorporated in the mining plan/scheme before its approval.	Fresh scientific study may be conducted if mine management wants to increase the MCPD and total explosive charge above the quantity of 1.30 kg and 26.50 kg respectively. Continuous monitoring using seismograph should also be done in such cases by the mine management.
5.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.	Engagement of blasting in-charge having Diploma/Degree in mining engineering for day-to-day blasting.
6.	Training of the blasting crew on controlled blasting practices before engaged in operation.	Training of the blasting crew on controlled blasting practices before engaged in operation.

  
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7.	Submission of monthly report on blast design pattern and detailed explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, PESO or SPCB.	Submission of monthly report on blast design pattern and detailed explosive consumption as well as volume of rock excavation to a statutory body viz. DGMS, DMG, SPCB. Report of recorded ground vibration need to be added in monthly report.
8.	Report of recorded ground vibration need to be added in monthly report which shall be sent to all the statutory body viz. DGMS, DMG, SPCB.	Report of recorded ground vibration need to be added in monthly report which shall be sent to all the statutory body viz. DGMS, DMG, SPCB.
9.	Small diameter emulsion cartridge of 25 mm diameter (125 gm weight per cartridge) shall be used. However, ANFO explosives may also be used as main explosive charge.	Small diameter emulsion cartridge of 25 mm diameter (125 gm weight per cartridge) shall be used. However, ANFO explosives may also be used as main explosive charge.
10.	Electronic (or) Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.	Non-electric detonators (Nonel) shall be used in all the blasts for in-hole explosive initiation and surface hole-to-hole firing.
11.	Max. number of holes in a round: 30.	Max. number of holes in a round: 40 to 60.


  
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### TERMS OF REFERENCE (ToR) FOR GRANITE / ROUGH STONE QUARRY

1. In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following:
  - (i) Original pit dimension
  - (ii) Quantity achieved Vs EC Approved Quantity
  - (iii) Balance Quantity as per Mineable Reserve calculated.
  - (iv) Mined out Depth as on date Vs EC Permitted depth
  - (v) Details of illegal/illicit mining
  - (vi) Violation in the quarry during the past working.
  - (vii) Quantity of material mined out outside the mine lease area
  - (viii) Condition of Safety zone/benches
  - (ix) Revised/Modified Mining Plan showing the benches of not exceeding 6 m height and ultimate depth of not exceeding 50m.
2. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
4. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry.
5. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.

  
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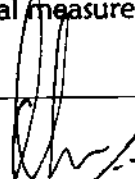
6. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall the PP shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC.
8. However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.

  
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12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
13. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
14. Quantity of minerals mined out.
  - Highest production achieved in any one year
  - Detail of approved depth of mining.
  - Actual depth of the mining achieved earlier.
  - Name of the person already mined in that leases area.
  - If EC and CTO already obtained, the copy of the same shall be submitted.
  - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
15. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc.,
17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same.

  
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19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds, etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to

  
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- encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
  26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
  27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
  28. Impact on local transport infrastructure due to the Project should be indicated.
  29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc..) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
  30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
  31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
  32. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate

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

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

  
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39. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
41. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.
42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

  
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## Annexure II


### Standard Environmental Clearance Conditions prescribed by MoEF&CC for Construction Projects.

#### 1. Statutory Compliance:

1. The project proponent shall obtain all necessary clearance/ permission from all relevant agencies including town planning authority before commencement of work. All the construction shall be done in accordance with the local building byelaws.
2. The approval of the Competent Authority shall be obtained for structural safety of buildings due to earthquakes, adequacy of firefighting equipment etc as per National Building Code including protection measures from lightning etc.
3. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
4. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
5. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.
6. The project proponent shall obtain the necessary permission for drawing of ground water / surface water required for the project from the competent authority.
7. A certificate of adequacy of available power from the agency supplying power to the project along with the load allowed for the project should be obtained.
8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department and Civil Aviation

  
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Department shall be obtained, as applicable, by project proponents from the respective competent authorities.

9. The provisions of the Solid Waste (Management) Rules, 2016, e-Waste (Management) Rules, 2016, and the Plastics Waste (Management) Rules, 2016 shall be followed.
10. The project proponent shall follow the ECBC/ECBC-R prescribed by Bureau of Energy Efficiency, Ministry of Power strictly.

**2. Air quality monitoring and preservation:**

1. Notification GSR 94(E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities for projects requiring Environmental Clearance shall be complied with.
2. A management plan shall be drawn up and implemented to contain the current exceedance in ambient air quality at the site.
3. The project proponent shall install a system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g., PM10 and PM25) covering upwind and downwind directions during the construction period.
4. Construction site shall be adequately barricaded before the construction begins. Dust, smoke & other air pollution prevention measures shall be provided for the building as well as the site. These measures shall include screens for the building under construction, continuous dust/ wind breaking walls all around the site (at least 3-meter height). Plastic/tarpaulin sheet covers shall be provided for vehicles bringing in sand, cement, murrum and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
5. Sand, murrum, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.
6. Wet jet shall be provided for grinding and stone cutting.

  
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7. Unpaved surfaces and loose soil should be adequately sprinkled with water to suppress dust.
8. All construction and demolition debris shall be stored at the site (and not dumped on the roads or open spaces outside) before they are properly disposed. All demolition and construction waste shall be managed as per the provisions of the Construction and Demolition Waste Rules 2016.
9. The diesel generator sets to be used during construction phase shall be low Sulphur diesel type and shall conform to Environmental (Protection) prescribed for air and noise mission standards.
10. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. The location of the DG set and exhaust pipe height shall be as per the provisions of the Central Pollution Control Board (CPCB) norms.
11. For indoor air quality the ventilation provisions as per National Building Code of India.

### **3. Water Quality Monitoring and Preservation:**

1. The natural drain system should be maintained for ensuring unrestricted flow of water. No construction shall be allowed to obstruct the natural drainage through the site, on wetland and water bodies. Check dams, bio-swales, landscape, and other sustainable urban drainage systems (SUDS) are allowed for maintaining the drainage pattern and to harvest rainwater.
2. Buildings shall be designed to follow the natural topography as much as possible. Minimum cutting and filling should be done.
3. Total freshwater use shall not exceed the proposed requirement as provided in the project details.
4. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).

  
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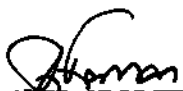
  
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5. A certificate shall be obtained from the local body supplying water, specifying the total annual water availability with the local authority, the quantity of water already committed, the quantity of water allotted to the project under consideration and the balance water available. This should be specified separately for ground water and surface water sources, ensuring that there is no impact on other users.
6. At least 20% of the open spaces as required by the local building byelaws shall be pervious. Use of Grass pavers, paver blocks with at least 50% opening, landscape etc. would be considered as pervious surface.
7. Installation of dual pipe plumbing for supplying fresh water for drinking, cooking and bathing etc and other for supply of recycled water for flushing, landscape irrigation car washing, thermal cooling, conditioning etc. shall be done.
8. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
9. Use of water saving devices/ fixtures (viz. low flow flushing systems; use of low flow faucets tap aerators etc) for water conservation shall be incorporated in the building plan.
10. Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.
11. The local bye-law provisions on rainwater harvesting should be followed. If local byelaw provision is not available, adequate provision for storage and recharge should be followed as per the Ministry of Urban Development Model Building Byelaws, 2016. Rainwater harvesting recharge pits/storage tanks shall be provided for ground water recharging as per the CGWB norms.
12. A rainwater harvesting plan needs to be designed where the recharge bores of minimum one recharge bore per 5,000 square meters of built-up area and storage capacity of minimum one day of total freshwater requirement shall



be provided. In areas where ground water recharging is not feasible, the rainwater should be harvested and stored for reuse. The ground water shall not be withdrawn without approval from the Competent Authority.

13. All recharges should be limited to shallow aquifer.
14. No ground water shall be used during construction phase of the project.
15. Any ground water dewatering should be properly managed and shall conform to the approvals and the guidelines of the CGWA in the matter. Formal approval shall be taken from the CGWA for any ground water abstraction or dewatering.
16. The quantity of freshwater usage, water recycling and rainwater harvesting shall be measured and recorded to monitor the water balance as projected by the project proponent. The record shall be submitted to the Regional Office, MoEF&CC along with Half Yearly Compliance Reports (HYCR).
17. Sewage shall be treated in the STP with tertiary treatment. The treated effluent from STP shall be recycled/re-used for flushing, AC make up water and gardening. As proposed, not related water shall be disposed into municipal drain.
18. No sewage or untreated effluent water would be discharged through storm water drains.
19. Onsite sewage treatment of capacity of treating 100% wastewater to be installed. The installation of the Sewage Treatment Plant (STP) shall be certified by an independent expert and a report in this regard shall be submitted to the Ministry before the project is commissioned for operation. Treated wastewater shall be reused on site for landscape, flushing, cooling tower, and other end-uses. Excess treated water shall be discharged as per statutory norms notified by Ministry of Environment, Forest and Climate Change. Natural treatment systems shall be promoted.
20. Periodical monitoring of water quality of treated sewage shall be conducted. Necessary measures should be taken to mitigate the odor problem from STP.

  
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21. Sludge from the onsite sewage treatment, including septic tanks, shall be collected, conveyed and disposed as per the Ministry of Urban Development, Centre Public Health and Environmental Engineering Organization (CPHEEO) Manual on Sewerage and Sewage Treatment Systems, 2013.

**4. Noise Monitoring and Prevention:**

1. Ambient noise levels shall conform to residential area/commercial area/industrial area/silence zone both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality shall be closely monitored during construction phase. Adequate measures shall be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by CPCB / SPCB.
2. Noise level survey shall be carried out as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of Half Yearly Compliance Report (HYCR).
3. Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.

**5. Energy Conservation Measures:**

1. Compliance with the Energy Conservation Building Code (ECBC) of Bureau of Energy Efficiency shall be ensured. Buildings in the States which have notified their own ECBC, shall comply with the State ECBC.
2. Outdoor and common area lighting shall be LED.
3. The proponent shall provide solar panels covering a minimum of 50% of terrace area as committed.
4. Concept of passive solar design that minimize energy consumption in buildings by using design elements, such as building orientation, landscaping, efficient building envelope, appropriate fenestration, increased day lighting

design and thermal mass etc. shall be incorporated in the building design. Wall, window, and roof u-values shall be as per ECBC specifications.

5. Energy conservation measures like installation of CFLs/ LED for the lighting the area outside the building should be integral part of the project design and should be in place before project commissioning.
6. Solar, wind or other Renewable Energy shall be installed to meet electricity generation equivalent to 1% of the demand load or as per the state level/ local building byelaws requirement, whichever is higher.
7. Solar power shall be used for lighting in the apartment to reduce the power load on grid. Separate electric meter shall be installed for solar power. Solar water heating shall be provided to meet 20% of the hot water demand of the commercial and institutional building or as per the requirement of the local building byelaws, whichever is higher. Residential buildings are also recommended to meet its hot water demand from solar water heaters, as far as possible.

**6. Waste Management:**

1. A certificate from the competent authority handling municipal solid wastes, indicating the existing civic capacities of handling and their adequacy to cater to the M.S.W. generated from project shall be obtained.
2. Disposal of muck during construction phase shall not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
3. Separate wet and dry bins must be provided in each unit and at the ground level for facilitating segregation of waste. Solid waste shall be segregated into wet garbage and inert materials.
4. Organic waste compost/ Vermiculture pit/ Organic Waste Converter within the premises with a minimum capacity of 0.3 kg /person/day must be installed.

  
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5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
6. Any hazardous waste generated during construction phase shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
7. Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.
8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September 1999 and amended from time to time. Ready mixed concrete must be used in building construction.
9. Any wastes from construction and demolition activities related thereto shall be managed to strictly conform to the Construction and Demolition Rules, 2016.
10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.

**7. Green Cover:**

1. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
2. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.

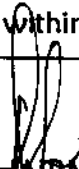
3. Where the trees need to be cut with prior permission from the concerned local authority, compensatory plantation in the ratio of 1:10 (i.e. planting of 10 trees for every 1 tree that is cut) shall be done and maintained. Plantations to be ensured species (cut) to species (planted). Area for green belt development shall be provided as per the details provided in the project document.
4. Topsoil should be stripped to a depth of 20 cm from the areas proposed for buildings, roads, paved areas, and external services. It should be stockpiled appropriately in designated areas and reapplied during plantation of the proposed vegetation on site.
5. A wide range of indigenous plant species should be planted as given in the Appendix-I, in consultation with the Government Forest/Horticulture Departments and State Agriculture University.

**8. Transport:**

1. A comprehensive mobility plan, as per MoUD best practices guidelines (URDPFI), shall be prepared to include motorized, non-motorized, public, and private networks. Road should be designed with due consideration for environment, and safety of users. The road system can be designed with these basic criteria.
  - a. Hierarchy of roads with proper segregation of vehicular and pedestrian traffic.
  - b. Traffic calming measures.
  - c. Proper design of entry and exit points.
  - d. Parking norms as per local regulation.
2. Vehicles hired to bring construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards be operated only during non-peak hours.
3. A detailed traffic management and traffic decongestion plan shall be drawn up to ensure that the current level of service of the roads within a 05 kms

  
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radius of the project is maintained and improved upon after the implementation of the project. This plan should be based on cumulative impact of all development and increased habitation being carried out or proposed to be carried out by the project or other agencies in this 05 Kms radius of the site in different scenarios of space and time and the traffic management plan shall be duly validated and certified by the State Urban Development department and the P.W.D./ competent authority for road augmentation and shall also have their consent to the implementation of components of the plan which involve the participation of these departments.

**9. Human Health Issues:**

1. All workers working at the construction site and involved in loading, unloading, carriage of construction material and construction debris or working in any area with dust pollution shall be provided with dust mask.
2. For indoor air quality the ventilation provisions as per National Building Code of India.
3. Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
4. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
5. Occupational health surveillance of the workers shall be done on a regular basis.
6. A First Aid Room shall be provided in the project both during construction and operations of the project.

**10. Corporate Environment Responsibility:**

1. The PP shall complete the CER activities, as committed, before obtaining CTE.


2. The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of Half Yearly Compliance Report (HYCR).
3. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Half Yearly Compliance Report (HYCR).

**11. Miscellaneous:**

1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in Tamil language within seven days indicating that the project has been accorded environment clearance and the details of MoEFCC/SEIAA website where it is displayed.
2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.

  
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3. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.
4. The project proponent shall submit Half Yearly Compliance Reports (HYCR) on the status of the compliance of the stipulated environmental conditions on the website of the Ministry of Environment, Forest and Climate Change at environment clearance portal.
5. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
6. The project proponent shall inform the Authority (SEIAA) of the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the project.
7. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.
8. The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report and also during their presentation to the State Expert Appraisal Committee.
9. No further expansion or modifications to the plant shall be carried out without prior approval of the Authority (SEIAA).
10. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
11. The Authority (SEIAA) may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. The Authority reserves the right to stipulate additional conditions if found necessary. The Company in a time-bound manner shall implement these conditions.



13. The Regional Office of the MoEF&CC Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

14. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

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

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Apple marmelos</i>	Vilvam	விவம்
2	<i>Adenanthera pavonina</i>	Manjadi	மஞ்சள், அழகாக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாளை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	அத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Pani	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax ceiba</i>	Ilavu, Sevvilavu	இலை
12	<i>Calophyllum inophyllum</i>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொண்டை
14	<i>Cassia roxburghii</i>	Senpondrai	செங்கொண்டை
15	<i>Chloroxylon swietenia</i>	Purasamaram	புரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjallavu	கோங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvai	நடுவழி
18	<i>Cretova adansoni</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sbenum</i>	Karungali	கருங்காலை
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகளை
23	<i>Ficus amplissima</i>	Kallachi	கல் இச்சி
24	<i>Hibiscus tiliacera</i>	Aastuvaccasa	அத்திப்பாசா
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயில் மரம், ஆயிலி
27	<i>Lansia coromandelica</i>	Odhiam	ஒடியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கெட்டிமரம் மரம்
30	<i>Limonia acidissima</i>	Vila maram	வில்லா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிளிப்பை. பிளிப்பைமரம்
32	<i>Madhuca longifolia</i>	Illupai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பழை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	காடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுனா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுனா
38	<i>Phoenix sylvestris</i>	Eachai	ஈச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

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40	<i>Premna mollissima</i>	Munnai	முச்சினை
41	<i>Premna serratifolia</i>	Narumunnai	59 முச்சினை
42	<i>Premna tomentosa</i>	Malipoovarasu	மலைப் பூங்கா
43	<i>Prosopis cinerea</i>	Vanni maram	வானி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேணாங்கை
46	<i>Pterospermum xylocarpum</i>	Polavu	பூங்கா
47	<i>Puthranjiva roxburghii</i>	Karipala	கரிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	உகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிபுண்டி சோபுகை
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Strobilus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxtomia</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேர்தாங்கு கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாந்திரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேன் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூங்கா
59	<i>Walsuratrifoliata</i>	valsura	வால்சுரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்பழி

  
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