

State Expert Appraisal Committee (SEAC)

Minutes of 392<sup>nd</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 14.07.2023 (Friday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building Construction Projects & Mining Projects

Confirmation of Earlier Minutes

The minutes of the 391<sup>st</sup> SEAC meeting held on 13.07.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minutes.

Agenda No: 392-01

(File No.10061/2023)

Proposed Gravel Quarry lease over an extent of 1.96.50 Ha in S.F.No. 209/2B, 209/2C, 209/3B, 209/3C, 209/4B, 209/4C, 209/4D, 209/4E, 223/3B, 223/3C, 223/3D and 223/2 of Mustakurichi Village, Kariyapatty Taluk, Virudhunagar District, Tamil Nadu by Thiru. P. Krishnamoorthy – For Environmental Clearance.  
(SIA/TN/MIN/430324/2023, dated:26.05.2023)

The proposal was placed for appraisal in the 392<sup>nd</sup> meeting of SEAC held on 14.07.2023. 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. P. Krishnamoorthy has applied for Environmental Clearance for the Proposed Gravel Quarry lease over an extent of 1.96.50 Ha in S.F.No. 209/2B, 209/2C, 209/3B, 209/3C, 209/4B, 209/4C, 209/4D, 209/4E, 223/3B, 223/3C, 223/3D and 223/2 of Mustakurichi Village, Kariyapatty Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. The project proponent has submitted a soil test report obtained from the College of Engineering, Guindy Campus, Chennai vide Job No. SM& FE 2041U/Soil Test/ Mustakurichi Village/ 2023 Dated:11.07.2023. According to the test report, the % of sand in the soil sample is 18% and the soil is classified as Silty Gravel (GM).

  
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1

  
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4. Assistant Director, Dept. of Geology and Mining, Virudhunagar District vide Rc.No.KV3/825/2021/Kanimam dated.19.06.2023 informed that .....

*"...the location of quarry site does not lie adjoining to the rivers, streams, canals, etc., and also does not come under any notified/ declared protected zones."*

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



File No	10061		Category	1(a)
	SIA/TN/MIN/430324/2023			B2
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. P. Krishnamoorthy, S/o. Periyasamy, Door No. 117/A, Kadaiveethi, Mutharasanallur Village, Srirangam taluk, Trichirappalli District – 620 101.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Gravel Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	209/2B, 209/2C, 209/3B, 209/3C, 209/4B, 209/4C, 209/4D, 209/4E, 223/3B, 223/3C, 223/3D and 223/2	
4.	Village in which situated	:	Mustakurichi	
5.	Taluk in which situated	:	Kariyapatty	
6.	District in which situated	:	Virudhunagar	
7.	Extent of quarry (in ha.)	:	1.96.50 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	09°44'53.07"N to 09°44'59.26"N 78°08'54.58"E to 78°09'00.56"E	
9.	Topo Sheet No.	:	58-K/02	
10.	Type of mining	:	Opencast method of shallow mining without drilling and blasting	

11.	Life of Project	:	3 years
	Lease Period	:	3 years
	Mining Plan Period	:	3 years
12.	Mining Plan Details	:	As per approved Mining Plan      As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	Gravel - 39,300m <sup>3</sup> Gravel - 31,000m <sup>3</sup>
	Minable Resources m <sup>3</sup> (RoM)	:	Gravel - 27,654m <sup>3</sup> Gravel - <del>23,376</del> 22,191 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Gravel - 9,218m <sup>3</sup> Gravel - <del>9,218</del> 7,397 m <sup>3</sup>
	Ultimate Depth in meters	:	2m below ground level      2m below ground level
13.	Depth of water table	:	30m below ground level
14.	Man Power requirement per day	:	7 Nos.
15.	Water requirement:		2.5 KLD
	1. Drinking Water & Domestic Purpose	:	0.5 KLD
	2. Dust suppression	:	1.0 KLD
	3. Green belt	:	1.0 KLD
16.	Power requirement		4610 Liters of HSD
17.	Precise area communication approved by the Assistant Director, Dept. of Geology and Mining with date	:	R.c.No.KV3/825/2021, Dated 26.11.2021
18.	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	:	R.c.No.KV3/825/2021, Dated 27.12.2021
19.	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date		R.c.No.KV3/825/2021, Dated 27.12.2021
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dated: 24.12.2021.

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21.	Project Cost (excluding EMP cost)	:	Rs.10,14,000/-
22.	EC Recommendation	:	Validity
			30 years subject to the following upper limits.
			Gravel
		:	Max Total RoM in m <sup>3</sup>
			23,376m <sup>3</sup> 22,191 m <sup>3</sup> 
		:	Annual Max RoM in m <sup>3</sup>
			9,218m <sup>3</sup> 7,397 m <sup>3</sup> 
		:	Max Depth in mtrs
			2m below ground level
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 19.09 Lakhs /- Recurring Cost – Rs. 10.38 Lakhs /-
24.	CER cost (in Rs. Lakh).	:	Rs. 3.8 lakhs /-

Based on the presentation and details furnished by the project proponent, SEAC decided to recommend the proposal for grant of Environmental Clearance for the revised production quantity production of <sup>22,191 m<sup>3</sup></sup> ~~23,376m<sup>3</sup>~~ of gravel for the period of 3 years with an ultimate depth of 2 m below Ground Level and annual peak production not exceeding <sup>7,397 m<sup>3</sup></sup> ~~9,218m<sup>3</sup>~~ of gravel, subject to the standard conditions & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The PP shall complete the quarrying operations within a period of 3 years from the date of execution of the lease.
2. The PP shall carry out the quarrying operations in the revised area of 1.55.0 Ha of Pit-I only due to the non-contiguous formation.
3. The PP shall carry out the plantations of 400 saplings in the area of 0.41.5 Ha under Pit-II and shall furnish the photographs & drone video showing the site conditions to the DEE/TNPCB at the time of obtaining CTO.
4. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
5. The PP shall carry out the required number of tree plantation as committed in the EMP without deviation before the execution of the lease.

  
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6. As accepted by the Project proponent, the CER cost is Rs.3.80 Lakhs and the amount shall be spent for the committed activities towards Panchayat Union Primary School, Kariyapatti Village before obtaining CTO from TNPCB.

Agenda No: 392-02

(File No.10068/2023)

Proposed Rough Stone and Gravel Quarry lease over an extent of 1.58.40 Ha in S.F.No. 211/4B1, 4B2, 4C, 4D, 4E, 741, 7A2, 7A3, 7C1, 7C2, 7D2 & 217/11A, 11B, 12A of Kalligudi Bit - 2 Village, Kalligudi Taluk, Madurai District, Tamil Nadu by Thiru. M. Praveen – For Environmental clearance. (SIA/TN/MIN/430731/2023, dated:25.05.2023)

The proposal was placed in the 392<sup>nd</sup> meeting of SEAC held on 14.07.2023. 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. M. Praveen has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry lease over an extent of 1.58.40 Ha in S.F.No. 211/4B1, 4B2, 4C, 4D, 4E, 741, 7A2, 7A3, 7C1, 7C2, 7D2 & 217/11A, 11B, 12A of Kalligudi Bit - 2 Village, Kalligudi Taluk, Madurai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.

File No	10068	Category	1(a)
	SIA/TN/MIN/430731/2023		B2
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. M. Praveen, S/o. Sri. P.M.T. Mohan, 5/758, Othaveedu, Andarkottaram Post, Madurai District – 625 020.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel Quarry
3.	S.F Nos. of the quarry site with area break-up	:	211/4B1, 4B2, 4C, 4D, 4E, 741, 7A2, 7A3, 7C1, 7C2, 7D2 & 217/11A, 11B, 12A

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5


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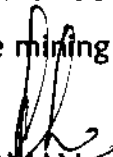
4.	Village in which situated	:	Kalligudi Bit - 2	
5.	Taluk in which situated	:	Kalligudi	
6.	District in which situated	:	Madurai	
7.	Extent of quarry (in ha.)	:	1.58.40 Ha	
8.	Latitude & Longitude of all corners the quarry site	:	09°41'15.3"N to 09°41'21.2"N 77°57'01.6"E to 77°56'57.9"E	
9.	Topo Sheet No.	:	58-G/ 14	
10.	Type of mining	:	Opencast Semi Mechanized mining	
11.	Life of Project	:	10 years	
	Lease Period	:	10 years	
	Mining Plan Period	:	10 years	
12.	Mining Plan Details	:	As per approved Mining Plan	
	Geological Resources m <sup>3</sup> (RoM)	:	Gravel + Rough Stone – 6,69,060 Cu.m	
	Minable Resources m <sup>3</sup> (RoM)	:	Gravel + Rough Stone – 1,94,994 Cu.m	
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone – 21,725 Cu.m	Rough Stone – 21,725 Cu.m
		:	Gravel – 4532 cu.m	Gravel – 4532 cu.m
Maximum Depth in meters	:	42m below ground level	42m below ground level	
13.	Depth of water table	:	45m to 50m below ground level	
14.	Man Power requirement per day:	:	9 Nos.	
15.	Water requirement:	:	2.6 KLD	
	4. Drinking Water & Domestic Purpose	:	1.0 KLD	
	5. Dust suppression	:	1.5 KLD	
	6. Green belt	:	1.0 KLD	
16.	Power requirement	:	No electricity required.	
17.	Precise area communication approved by the Assistant	:	R.c.No.1398/Kanimam/2022, Dated 30.03.2023.	

	Director(i/c), Dept. of Geology and Mining with date				
18.	Mining Plan approved by the Assistant Director(i/c), Dept.of Geology and Mining with date	:	R.c.No.1398/Mines/2022-1, Dated 12.04.2023.		
19.	500m cluster letter issued by the Assistant Director (i/c), Dept. of Geology and Mining with date		R.c.No.1398/Mines/2022-2, Dated 12.04.2023.		
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dated: 31.03.2023.		
21.	Project Cost (excluding EMP cost)	:	Rs. 62,99,120 /-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
		:	Max Total RoM in m <sup>3</sup>	1,74,600	20,394
		:	Annual Max RoM in m <sup>3</sup>	21,725	4532
		:	Max Depth in mtrs	42m below ground level	
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 17.34 Lakhs /- Recurring Cost – Rs. 14.07 Lakhs /-		
24.	CER cost (in Rs. Lakh).	:	Rs 5,00,000 /-		

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 21,725m<sup>3</sup> of rough stone & 4532m<sup>3</sup> of gravel by maintainin the ultimate depth of mining upto 42m below 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

  
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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 develop fencing all around the project area & around the abandoned pits situated near the proposed project area in order to ensure safety before the execution of the lease.
- 3) The proponent shall erect tall sheet fencing in the lease boundary of the proposed quarry abutting the road before the execution of the lease.
- 4) 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 / 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) 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) 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.

- 7) 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 Government primary School, Kunnuthupatti Village before obtaining CTO from TNPCB.

**Agenda No: 392-03**

**(File No: 10075/2023)**

**Proposed rough stone quarry lease over an extent of 3.00.0 Ha at S.F.No. 202/1 (Part-B) of Kondappanayanapalli Village, Krishnagiri Taluk, Krishnagiri District, Tamil Nadu by M/s. Shri Venkateshwara Blue Metals - For Terms of Reference.**

**(SIA/TN/MIN/431066/2023, Dated: 27.05.2023)**

The proposal was placed for appraisal in this 392<sup>nd</sup> meeting of SEAC held on 14.07.2023. 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, M/s. Shri Venkateshwara Blue Metals has applied for Terms of Reference for the Proposed rough stone quarry lease over an extent of 3.00.0 Ha at S.F.No. 202/1 (Part-B) of Kondappanayanapalli Village, Krishnagiri Taluk, Krishnagiri District, Tamilnadu.
2. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.

During the meeting, the Committee noted that the project proponent was absent and hence the subject was not taken up for discussion. Further, SEAC decided that the proponent shall furnish the reason for absence.

**Agenda No: 392-04**

**(File No: 10062/2023)**

**Proposed Rough stone and Gravel quarry lease over an extent of 2.00.00Ha at SF.No. 363/4(P), 364/1(P) & 364/2 (P) of Kadambankulam Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Thiru. T. Sathyamoorthy - for Environmental Clearance. (SIA/TN/MIN/430484/2023, Dated: 26.05.2023)**

The proposal was placed in 392<sup>nd</sup> meeting of SEAC held on 14.07.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

  
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The SEAC noted the following:

1. The Project Proponent, Thiru. T. Sathyamoorthy has applied for Environmental Clearance for the proposed Rough stone and Gravel quarry lease over an extent of 2.00.00Ha at SF.No. 363/4(P), 364/1(P) & 364/2 (P) of Kadambankulam Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu.
2. The PP has stated that the waste material lying on the ground of the proposed quarry site is the rejects from by the crusher unit.
3. The proposed quarry/activity is covered under Category "B2" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.

Based on the presentation made and the documents furnished by the Project proponent, SEAC directed the PP to submit the following additional details:

1. The PP shall furnish the letter obtained from the AD (Mines) stating that no quarrying has been commenced in the proposed quarry lease and the material dumped on the proposed quarry lease is the rejects received from the crusher unit.
2. PP shall remove the crusher material on the proposed site and submit evidence for the same.
3. The PP shall submit the details about the structures within 300 m as many structures are seen within 100m.

Agenda No: 392- 05

File.No.10069/2023

Proposed Construction of Residential Group Development at Old S.No. 77/6A1B1, 78/14A & 78/14B, T.S.No.33/2 of Block No: 21, Ward: G, Kamarajar Salai, Pammal Village, Pallavaram Taluk, Chengalpattu District, Tamil Nadu by M/s. Radiance Realty Developers India Limited - For Environmental Clearance.

(SIA/TN/INFRA2/430274/2023, Dated: 29.05.2023)

The proposal was placed in the 392<sup>nd</sup> SEAC meeting held on 14.07.2023. The details of the project furnished by the proponent are available in the website. (parivesh.nic.in). The SEAC noted the following:

Based on the documents submitted and presentation made by the project proponent along with the consultant, the following facts have emerged: -

  
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10

  
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1. The environmental clearance is sought for Construction Project at Plot No: Old S.No. 77/6A1B1, 78/14A & 78/14B, T.S.N.O.33/2 of Block No: 21, Ward: G, Kamarajar Salai, Pammal Village, Pallavaram Taluk, Chengalpattu District, Tamil Nadu by M/s. Radiance Realty Developers India Limited.
2. M/s. Globus Environment Engineering Services is the EIA Consultant for the project.
3. Total plot area of the project is 13476m<sup>2</sup> and built-up area is 40,299.34m<sup>2</sup> respectively.
4. Maximum number of floors will be B+S+S and maximum height of the building will be 18.3 m.
5. Total Saleable DU's (dwelling units) is 285 Nos.
6. The project proposal falls under Category-8(a) Building and Construction Project of EIA Notification, 2006 (as amended).
7. Salient features of the project as submitted by the project proponent:

PROJECT SUMMARY			
Sl. No.	Description	Total Quantity	Unit
<b>GENERAL</b>			
1	Plot Area	13476	SQMT
2	Proposed Built Up Area	40299.34	SQMT
3	Total no of Saleable DU's/Villas	285	Nos.
4	Max Height – (Height of tallest block)	18.3	M
5	No of Building Blocks (Residential + Community facilities)	3 Blocks	
6	Max No of Floors	5 floors	No.
7	Expected Population (Residential+ Floating)	Total 1749 (Residential – 1575 & Floating Population – 174)	No.
8	Total Cost of Project	76.2687	CR

9	Project Activity:	Proposed Construction of Residential Group Development	
<b>AREAS</b>			
10	Permissible Ground Coverage Area (%)	-	SQMT
11	Proposed Ground Coverage Area (%)	7898.33 Sq.m (58.61%)	SQMT
12	Permissible FAR Area	2.0	
13	Proposed FAR Area	2.208 (Premium FAR)	
14	Other Non-FAR Areas - including basement area etc.	0.781	
15	Proposed Total Built Up Area	40299.34	SQMT
<b>WATER</b>			
16	Total Water Requirement	218	KLD
17	Fresh water requirement	145	KLD
18	Treated Water Requirement	73	KLD
19	Wastewater Generation	173	KLD
20	Proposed Capacity of STP	230	KLD
21	Treated Water Available for Reuse	169	KLD
22	Treated Water Recycled	Toilet flushing – 73 Greenbelt – 12 Bike, Car, Solar Panel Washing – 5 Dust Suppression – 6	KLD
23	Surplus treated water to be discharged in Municipal Sewer with Prior permission	Avenue Plantation - 73	KLD
<b>RAINWATER HARVESTING</b>			
24	Rainwater Harvesting - Recharge Pits	21	No.

  
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PARKING			
25	Total Parking Required as / Building Bye Laws	Car required – 207 Nos Car Provided – 323 Nos Two-Wheeler required – 154 Nos Two-Wheeler Provided – 195 Nos	ECS
26	Proposed Total Parking	10,279.9 Sq.m	ECS
27	Parking in Basements	10,031.40 Sq.m	ECS
GREEN AREA			
28	Proposed Green Area (Minimum 15.0% of plot area)	2023.66 (15%)	SQMT
	Total area	2023.66 (15%)	SQMT
	Existing trees on plot	-	
	Number of trees to be planted	170	Nos
	Number of trees to be transplanted/cut	-	
SOLID WASTE MANAGEMENT			
29	Total Solid Waste Generation	0.822	TPD
30	Organic waste	0.329	TPD
31	Quantity of E-Waste Generation- Kg/Day	5.27	KG/DAY
32	Quantity of Hazardous waste Generation	0.45	LPD
33	Quantity of Sludge Generated from STP	42	KG/DAY
POWER / GREEN POWER			
34	Total Power Requirement	2733	KVA
35	DG set backup	500	KVA
36	No of DG Sets	2 Nos of 250 KVA	Nos.
37	Solar Panels – Roof Coverage	40	%


  
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38	Hot Water Requirement	100	%
	Of which met by Solar Panels		

Population details:

POPULATION			
Residential	DU'S	POP/DU	TOTAL POPULATION
Total Saleable Du's	2BHK – 140	5	700
	3 BHK –140	6	840
	4 BHK - 5	7	35
<b>Total</b>	<b>285</b>	-	<b>1575</b>
Non-Residential	-	-	-
CLUB (Employees etc.)	-	-	-
Club	Area – 674 Sq.m	-	-
Commercial	-	-	-
Facility Management Staff	-	-	16
<b>Total</b>	-	-	<b>16</b>
Visitors	-	-	158
Residential	-	10% of Residential Population	-
Club/Community Hall	-	% of Residential Population	-
Commercial	-	-	-
<b>Total Visitors</b>	-	-	<b>158</b>
<b>Total Population</b>	-	-	<b>1749</b>

  
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## **RECOMMENDATION OF THE COMMITTEE**

The Committee discussed the matter and recommended a grant of environmental clearance for the project proposal as above and subject to the standard conditions as per the Annexure II of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

### **Additional Conditions:**

1. The construction shall comply with Green Building norms and shall get minimum IGBC Gold rating.
2. PP shall submit the commitment letter from the local body for supply of fresh water to SEIAA before issue of EC.
3. STP shall be installed on 10-year BOOT basis, so that the construction and maintenance are combined in one single responsibility.
4. The PP shall frame Environmental policy and Environmental management team and the same shall submitted to SEIAA before issue of EC.
5. The PP shall ensure that the land use is fit for construction.
6. The project proponent shall provide entry and exit points for the OSR area, play area as per the norms for the public usage and as committed. The PP shall construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
7. Project proponent is advised to explore the possibility and getting the cement in a closed container rather through the plastic bag to prevent dust emissions at the time of loading/unloading.
8. Project proponent should ensure that there will be no use of "Single use of Plastic" (SUP).

  
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9. The proponent should provide the sufficient electric vehicle charging points as per the requirements at ground level and allocate the safe and suitable place in the premises for the same.
10. The project proponent should develop green belt in the township as per the plan submitted and also follow the guidelines of CPCB/Development authority for green belt as per the norms.
11. Project proponent should invest the CSR amount as per the proposal and submit the compliance report regularly to the concerned authority/Directorate of environment.
12. Proponent should submit the certified compliance report of previous/present EC along with action taken report to the Regional office MoEF Lko/Director of Environment and other concerning authority regularly.
13. Proponent shall provide the dual pipeline network in the project for utilization of treated water of STP for different purposes and also provide the monitoring mechanism for the same. STP treated water not to be discharged outside the premises without the permission of the concerned authority.
14. The project proponent shall provide a measuring device for monitoring the various sources of water supply namely fresh water, treated waste water and harvested rain water.
15. The proponent should provide the MoU with STPs' owner/concerned department for getting the STPs treated water for construction use.
16. As accepted by the Project Proponent the CER cost is Rs.76 Lakhs and PP shall submit the details as committed before SEAC and an action plan to implement CER to SEIAA before issue of EC.

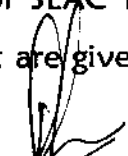
**Agenda No: 392-06**

**(File No: 10063/2023)**

**Proposed Rough Stone, Jelly and Gravel quarry lease area over an extent of 1.53.0 Ha at S.F.Nos. 129/1B3,1B4 & 130/1C,1D of Sengundrapuram Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Thiru. R. Nagendran - For Environmental Clearance. (SIA/TN/MIN/428330/2023, Dated: 12.05.2023)**

The proposal was placed for appraisal in this 392<sup>nd</sup> meeting of SEAC held on 14.07.2023. The details of the project furnished by the proponent are given in the

  
MEMBER SECRETARY  
SEAC -TN

  
CHAIRMAN  
SEAC- TN



website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Thiru. R. Nagendran has applied for Environmental Clearance for the Proposed Rough Stone, Jelly and Gravel quarry lease area over an extent of 1.53.0 Ha at S.F.Nos. 129/1B3,1B4 & 130/1C,1D of Sengundrapuram Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.

File No	10063 / 2023	Category	B2
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Thiru. R. Nagendran, S/o. Sri. Ramar, 4/560, Chinna Vallikulam, Villipathiri Post, Aruppukottai Taluk, Virudhunagar District - 626 001.
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone, Jelly and Gravel
3	S.F Nos. of the quarry site with area break-up	:	129/1B3,1B4 & 130/1C,1D
4	Village in which situated	:	Sengundrapuram
5	Taluk in which situated	:	Virudhunagar
6	District in which situated	:	Virudhunagar
7	Extent of quarry (in ha.)	:	1.53.0 Ha
8	Latitude & Longitude of all corners of the quarry site	:	9°36'03.5"N to 9°36'08.2"N 77°53'27.9"E to 77°52'24.9"E
9	Topo Sheet No.	:	58-G/14
10	Type of mining	:	Opencast Semi Mechanized Mining
11	Life of Project	:	5 years
	Lease Period	:	5 years
	Mining Plan Period	:	5 years

  
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SEAC -TN

  
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SEAC- TN

	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC		
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
		:	2,29,425 m <sup>3</sup>	1,22,360 m <sup>3</sup>	2,29,425 m <sup>3</sup>	1,22,360 m <sup>3</sup>
	Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
		:	81,685 m <sup>3</sup>	77,732 m <sup>3</sup>	81,685 m <sup>3</sup>	77,732 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone	Gravel	Rough Stone	Gravel
		:	19,800 m <sup>3</sup>	17,572 m <sup>3</sup>	19,800 m <sup>3</sup>	17,572 m <sup>3</sup>
12	Ultimate Depth in meters	:	23m from ground level			
13	Depth of water table	:	40m-45m bgl			
14	Man Power requirement per day:	:	9 Nos.			
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	2.4 KLD 0.5 KLD - 1.3 KLD 0.6 KLD			
16	Power requirement	:	No electricity required.			
17	Precise area communication approved by Assistant Director, Department of G&M.	:	Na.Ka.No:KV1/1309/2022-Kanimam, Dated:27.02.2023			
18	Mining Plan approved by Assistant Director, Department of G&M.	:	Roc.No:KV1/1309/2022, Dated: 13.03.2023			
19	500m Cluster Letter issued by Assistant Director, Department of G&M.	:	Roc.No:KV1/1309/2022, Dated: 13.03.2023			
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 01.03.2023			
21	Project Cost (excluding EMP cost)	:	Rs. 43,96,505/-			
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.		


  
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SEAC- TN

			Rough Stone	Gravel
		: Max Total RoM in m <sup>3</sup>	81,685 m <sup>3</sup>	77,732 m <sup>3</sup>
		: Annual Max RoM in m <sup>3</sup>	19,800 m <sup>3</sup>	17,572 m <sup>3</sup>
		: Max Depth in mtrs	23m from ground level	
23	EMP cost (in Rs. Lakh).	: Capital Cost – Rs. 17.13 lakhs Recurring Cost – Rs. 13.99 lakhs per annum		
24	CER cost (in Rs. Lakh).	: Rs. 5,00,000/-		

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 19,800m<sup>3</sup> of rough stone & 17,572m<sup>3</sup> of gravel by restricting 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) The PP shall not adopt the 'Deep-hole large diameter drilling and blasting' in the proposed quarrying operations.
- 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.

  
MEMBER SECRETARY  
SEAC -TN

  
CHAIRMAN  
SEAC- TN


- 4) Since the structures including a fire cracker unit 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 design parameters for reducing the blast-induced ground/air-vibrations and mitigating fly rock from the blasting operations carried out in the proposed quarry and to prepare the Code of Practice for carrying out the controlled blasting considering the habitations/structures located within 500 m from the lease boundary, 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) 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 Government Primary School, Kundalapatti Village before obtaining CTO from TNPCB.

**Agenda No. 392-07**

**File No. 10070/2023**

Expansion of Proposed construction of Residential Township at S.F.Nos. 89/1A1A, 3A2, 90/1A2, 1B, 2A, 2B2A1, 2B2A2, 2B2B, 91/1, 100/4,5,6,7, 105, 106/1A,1B, 2,3,4, 107/1, 110, 111/2B, 112/1, 2, 3, 4, 5, 6, 7, 113/3,4,5, 117/1A, 1B1, 1B2, 2, 3, 4, 123/1, 2, 124, 125/1A, 1B, 2A, 2B1, 2B2, 3, 127/1A, 1B, 2, 129/1, 2A, 2B, 3, 130/1, 2, 3, 4, 131, 132/1B1, 1B2, 1B3, 2A, 2B, 3A, 3B1, 3B2, 4, 133/1B1A, 1B1B, 145/1, 2, 3, 4, 146, 147/1A1, 1A2, 1B, 2A, 2B, 148/1, 2, 3, 4A, 4B, 5, 149, 150, 152/1, 2, 153/1A, 1B1, 1B2, 2, 154/1A, 1B, 2, 155/1, 2, 3, 172/1, 2, 173/1, 2A, 2B, 174/2, 3A, 3C, 175, 176/1, 2A, 2C, 3A, 3C, 4A, 4C, 5A, 5C, 177/1, 2A, 2C, 3, 178/1A, 1C, 2A, 2B1, 179, 180/1, 2A, 2B, 3A, 3C, 4A, 4C, 5A, 5B, 6, 181/1, 182/1, 2A, 183/1, 2, 3, 4, 5, 6A1, 184/1A1, 1A3, 3A, 185/1, 186, 187, 188, 189/1, 2A, 190/3A1, 196/5A, 198/1, 199/1A1, 1A3, 1B, 1C, 2, 3, 200, 201/1, 3, 202/1, 3, 203, 204, 205, 206/1, 2, 207/1, 2A, 2B, 208, 209/1, 2B, 211/2A, 2B, 212/1, 4, 213 of Padur Village, Tiruporur Taluk and S.F.Nos. 198/10, 199/5A1 & 5A2 of Pudupakkam Village, Vandalur Taluk, Chengalpattu District, Tamil Nadu by M/s. Pacifica Builders Pvt Ltd – For Terms of Reference (ToR).

(SIA/TN/INFRA2/429865/2023 Dt: 24.05.2023)

  
MEMBER SECRETARY  
SEAC -TN

20

  
CHAIRMAN  
SEAC- TN

The proposal was placed for appraisal in this 392<sup>nd</sup> meeting of SEAC held on 14.07.2023. 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, M/s. Pacifica Builders Pvt Ltd has applied for Terms of Reference (ToR) for the Expansion of Proposed construction of Residential Township at S.F.Nos. 89/1A1A, 3A2, 90/1A2, 1B, 2A, 2B2A1, 2B2A2, 2B2B, 91/1, 100/4.5.6.7, 105, 106/1A,1B, 2,3,4, 107/1, 110, 111/2B, 112/1, 2, 3, 4, 5, 6, 7, 113/3,4,5, 117/1A, 1B1, 1B2, 2, 3, 4, 123/1, 2, 124, 125/1A, 1B, 2A, 2B1, 2B2, 3, 127/1A, 1B, 2, 129/1, 2A, 2B, 3, 130/1, 2, 3, 4, 131, 132/1B1, 1B2, 1B3, 2A, 2B, 3A, 3B1, 3B2, 4, 133/1B1A, 1B1B, 145/1, 2, 3, 4, 146, 147/1A1, 1A2, 1B, 2A, 2B, 148/1, 2, 3, 4A, 4B, 5, 149, 150, 152/1, 2, 153/1A, 1B1, 1B2, 2, 154/1A, 1B, 2, 155/1, 2, 3, 172/1, 2, 173/1, 2A, 2B, 174/2, 3A, 3C, 175, 176/1, 2A, 2C, 3A, 3C, 4A, 4C, 5A, 5C, 177/1, 2A, 2C, 3, 178/1A, 1C, 2A, 2B1, 179, 180/1, 2A, 2B, 3A, 3C, 4A, 4C, 5A, 5B, 6, 181/1, 182/1, 2A, 183/1, 2, 3, 4, 5, 6A1, 184/1A1, 1A3, 3A, 185/1, 186, 187, 188, 189/1, 2A, 190/3A1, 196/5A, 198/1, 199/1A1, 1A3, 1B, 1C, 2, 3, 200, 201/1, 3, 202/1, 3, 203, 204, 205, 206/1, 2, 207/1, 2A, 2B, 208, 209/1, 2B, 211/2A, 2B, 212/1, 4, 213 of Padur Village, Tiruporur Taluk and S.F.Nos. 198/10, 199/5A1 & 5A2 of Pudupakkam Village, Vandalur Taluk, Chengalpattu District, Tamilnadu.
2. The project/activity is covered under category "B" of Item 8 (b) "Townships and Area Development Projects" of the schedule to the EIA Notification, 2006.
3. Total land area available is 2,92,993 Sqm. The total built-up area of the proposal is 11,27,617.75 Sqm.
4. Earlier EC issued by SEIAA-TN vide Letter No. SEIAA/TN/EC/8(b)/074/F-252/2010 Dt. 27.01.2010 for the Construction of Residential Township at S. No. 76, 77, 89/1A, 3A(Part), 90/1A, 1B, 2A, 2B, 2B2A, 91/1, 3, 92/1, 2, 3, 100/4, 5, 6, 7, 105, 106/1A, 1B, 2, 3, 4, 107/1, 110, 111/2B, 112, 113/3, 4, 5, 117, 123, 124, 125, 127/1A, 1B, 2, 129, 130, 131, 132/1B1, 1B2, 1B3, 2A, 2B, 3A, 3B1, 3B2, 4, 133/1B1, 145, 146, 147/1A, 1B, 2(Part), 148, 149, 150, 152, 153, 154, 155, 172, 173, 174/2, 3, 175, 176/1, 2, 3, 4, 5, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191/2, 3, 192, 193, 194/1, 2, 3, 4, 195, 196, 197, 198, 199, 200,

201, 202, 203, 204, 205, 206, 207, 208, 209, 211/2A, 2B, 212/1, 4, 213(Part) of Padur Village & 198/10, 199/5 of Pudupakkam Village, Chengalpattu Taluk, Kancheepuram District. Total built up area of 10,18,667 Sq.m and total plot area of 3,32,512.19 Sq.m in the name of M/s. **Pacifica (Chennai Project) Infrastructure Company Pvt. Ltd.**

5. Now, the proponent has submitted an application for the proposed expansion in built-up area for the construction of residential township in the name of M/s. **Pacifica Builders Private Limited.**

Based on the presentation made by the proponent and the documents furnished, SEAC decided to recommend the proposal for the grant of Terms of Reference (TOR), subject to the following TORs, in addition to the standard terms of reference for EIA study and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The proposal should achieve minimum of IGBC Platinum green building norms and shall obtain IGBC certificate.
2. The proponent shall furnish water commitment letter obtained from competent authority for supply of water.
3. The proponent shall furnish letter obtained from local panchayat for utilizing the treated wastewater for avenue plantation.
4. The EIA Report shall cover the details regarding the existing STP and Solid waste management facilities including their operation with proper documentary evidence for the existing block.
5. The EIA report shall include in detail about the implications of the project on the Padur Lake situated near the project site.
6. At least 50% of the roof area shall be covered with Solar panels and utilization of the solar energy should not be less than 10% of total energy utilization. Application of solar energy should be utilized maximum for illumination of common areas, street lighting etc. The proposal for utilization of at least 10% of Solar Energy shall be included in the EIA/EMP report.
7. The proponent shall furnish the design details of the STP treatment system.
8. The STP should be installed and maintained on BOT basis. It should be under the supervision and maintenance of the vendor for at least 10 years.

  
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SEAC -TN

  
CHAIRMAN  
SEAC- TN

9. The PP shall explore construction of pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a structure which was crucial to the overall eco-system.
10. As per G.O. Ms. No. 142 approval from Central Ground Water Authority shall be obtained for withdrawal of water and furnish the copy of the same, if applicable.
11. Commitment letter from competent authority for supply of water shall be furnished.
12. Copy of the village map, FMB sketch and "A" register shall be furnished.
13. Detailed Evacuation plan during emergency/natural disaster/untoward accidents shall be submitted.
14. The space allotment for solid waste disposal and sewage treatment & grey water treatment plant shall be furnished.
15. Details of the Solid waste management plan shall be prepared as per solid waste management Rules, 2016 and shall be furnished.
16. Details of the E-waste management plan shall be prepared as per E-waste Management Rules,2016 and shall be furnished.
17. Details of the rain water harvesting system with cost estimation should be furnished.
18. A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains and sub-drains in accordance with the contour levels of the proposed project considering the flood occurred in the year 2015 and also considering the water bodies around the proposed project site & the surrounding development. The storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.

19. The layout plan shall be furnished for the greenbelt area earmarked with GPS coordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should not be less than 15% of the total land area of the project.
20. The proponent shall furnish the specific plan for the plantation.
21. Cumulative impacts of the Project considering with other infrastructure developments and industrial parks in the surrounding environment within 5 km & 10 km radius shall be furnished.
22. A detailed post-COVID health management plan for construction workers as per ICMR and MHA or the State Govt. guideline may be followed and report shall be furnished.
23. The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modeling for the ground water, emission, noise and traffic.
24. As per the MoEF&CC Office Memorandum F.No.22-65/2017-IA.II dated: 30.09.2020 and 20.10.2020, the proponent shall furnish the detailed EMP.

**Agenda No: 392-08**


**(File No: 10077/2023)**

**Existing Rough Stone quarry lease area over an extent of 1.00.0 Ha at S.F.No. 242/4 (Part) of Chennapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru. M. Selvakumar - For Environmental Clearance.**

**(SIA/TN/MIN/429907/2023, Dated: 23.05.2023)**

The proposal was placed for appraisal in this 392<sup>nd</sup> meeting of SEAC held on 14.07.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Thiru. M. Selvakumar has applied for Environmental Clearance for the Existing Rough Stone quarry lease area over an extent of 1.00.0 Ha at S.F.No. 242/4 (Part) of Chennapalli Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under category "B2" of Item 1 (a) "Mining of

  
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CHAIRMAN  
SEAC- TN



Minerals Projects” of the schedule to the EIA Notification, 2006.

3. PP has obtained EC in DEIAA vide Lr.No.03/DEIAA-KGI/EC No.58/2018 dated: 27.08.2018 for the production quantity of 3,36,700 m<sup>3</sup> upto depth of 50m. This EC issued by the DEIAA has been filed before the SEIAA-TN for reappraisal in compliance to the order of the Hon'ble NGT in O.A142 of 2022 as per the Guidelines stipulated in MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023

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

1. The project proponent shall submit a Certified Compliance Report as per the MoEF&CC O.M dated.08.06.2022 for the previous EC dated.27.08.2018.
2. The proponent shall furnish details on whether the conditions imposed by the competent authority in the lease proceedings were complied.
3. The proponent shall furnish a revised and approved scheme of mining plan for the development & production activities in the proposed quarrying operations during the next five years.
4. The PP shall furnish the letter of permission obtained from the office of the Director of Mines Safety, Chennai Region for having carried out the mining operations within 7.5 m of the common boundary to be maintained with the adjacent mines under Regulation 111 (3) of MMR, 1961 after the lease execution (OR) the letter of permission obtained from the office of the Director of Mines Safety, Chennai Region for having carried out the amalgamation of the adjacent quarries under Regulation 111 (1) of MMR 1961.
5. The PP shall obtain the letter from the concerned AD (Mines) after a field investigation to spell out the following information:
  - i. Existing pit dimension through precise mine surveying (DGPS)
  - 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 carried out in the proposed quarry site.

- vi. Violation in the quarry during the past working.
  - vii. Quantity of material mined out outside the mine lease area & working in the adjacent quarry lease lapsed in 2017.
  - viii. Condition of Safety zone/benches
  - ix. Approval extended to the Quantity of common boundary extraction / Quantity of extraction carried out after the amalgamation done with prior approval of DGMS by the PP.
6. 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.

On receipt of the same, further deliberations will be done.

**Agenda No: 392-09**

(File No: 10057/2023)

**Proposed Gravel Quarry over an extent of 3.55.0Ha SF.No.248/2, 248/3 and 250/5 of Sembanur Village, Karaikudi Taluk, Sivagangai District by Thiru. S. Subramanian - For Environmental Clearance. (SIA/TN/MIN/430653/2023 dt:24.05.2023)**

The proposal was placed in 392<sup>nd</sup> SEAC Meeting held on 14.07.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Thiru. S. Subramanian has applied for Environmental Clearance for the proposed Gravel Quarry over an extent of 3.55.0Ha SF.No.248/2, 248/3 and 250/5 of Sembanur Village, Karaikudi Taluk, Sivagangai District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Mineral Projects" of the Schedule to the EIA Notification, 2006.
3. The precise area communication has been issued for a period of 1 Year. The approved mining plan is approved for the period of 1Year with the production

  
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SEAC -TN

26

  
CHAIRMAN  
SEAC- TN

quantity of not to exceed 41696m<sup>3</sup> of Gravel and the depth of mining is 2.0m BGL.

**Salient features of the proposed project activity:**

Sl. No	Details of the Proposal	:	Data Furnished
1.	Name of the Owner/Firm	:	Thiru. S. Subramanian, S/o.Sethuraman No.1/331A, Peruchikoil, Kandaramanickam Post, Thirupathur Taluk, Sivagangai District.
2.	Type of quarrying (Savudu/Rough Stone/ Sand/ Granite)	:	Gravel
3.	S.F No. Of the quarry site with area break-up	:	248/2, 248/3 and 250/5
4.	Village in which situated	:	Sembanur
5.	Taluk in which situated	:	Karaikudi
6.	District in which situated	:	Sivagangai
7.	Extent of quarry (in ha.)	:	3.55.0Ha
8.	Latitude & Longitude of all corners of the quarry site	:	09°59'40.44"N to 09°59'48.48"N 78°37'18.47"E to 78°37'29.35"E
9.	Topo Sheet No.	:	58-K/9
10.	Type of mining	:	Opencast Mechanized of mining without drilling & blasting
11.	Period of quarrying proposed	:	1 Years
	Life of Project	:	1 Year
	Lease Period	:	1 Year
	Mining Plan Period	:	1Year
	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m <sup>3</sup> (RoM)	:	Gravel in m <sup>3</sup> 71000 m <sup>3</sup>
	Mineable Resources m <sup>3</sup> (RoM)	:	41696 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	41696 m <sup>3</sup>
12.	Ultimate Depth in meters	:	2m
13.	Depth of water table	:	16m to 18m BGL
14.	Man Power requirement per day:	:	16 Nos

15.	Source of Water Requirement		Water Vendors
16.	Water requirement: 1. Drinking & domestic purposes (in KLD) 2. Dust suppression, Green Belt & Wet Drilling (in KLD)	:	1.5 KLD 0.5 KLD 0.5 KLD 0.5 KLD
17.	Power requirement		TNEB
18.	Whether any habitation within 300m distance	:	No
19.	Precise area communication approved by the Assistant Director, Dept. of G&M with date	:	Na.Ka.No.1130/Kanimam/2022. dt: 24.03.2023
20.	Mining Plan approved by the Assistant Director/Deputy Director (i/c), Dept. of Geology and Mining with date	:	Rc.No.1130/Mines/2022, dt: 28.04.2023
21.	500m cluster letter issued by Assistant Director/Deputy Director (i/c), Dept. of Geology and Mining with date	:	Rc.No.1130/Mines/2022, dt: 02.05.2023
22.	Assistant Director/Deputy Director (i/c), Dept. of Geology and Mining with date in regard to Rivers, Streams, Canals, etc & protected areas letter	:	Rc.No.1130/Mines/2022, dt: 02.05.2023
23.	Soil Test Report	:	Lr. Dt:22.04.2023 from Dept. of Civil Engineering, NIT, Trichy, Chennai.
24.	VAO certificate regarding 300m radius cluster	:	Letter Dt:04.05.2023
25.	EC Recommendation	:	As per approved mining plan except pit -2 at SF No. 250/5
			Gravel in m <sup>3</sup>
		Max Total RoM in m <sup>3</sup>	32264 m <sup>3</sup>
		Annual Max RoM in m <sup>3</sup>	32264 m <sup>3</sup>

		Max Depth in mtrs	2m
25.	Project Cost	:	Rs. 27.96 Lakhs
26.	EMP cost	:	Rs. 8.07 Lakhs
27.	CER cost	:	Rs. 1.5 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the period of 1 Year and the quantity shall not exceed 32264 Cu.m of Gravel for an ultimate depth of 2m BGL only from the Pit-I (S.F. No: 248/2, 248/3) subject to the standard conditions & normal conditions stipulated by MOEF &CC and Annexure-I, in addition to the following specific conditions:

1. The PP shall complete the quarrying operations within a period of 1 year from the date of execution of the lease.
2. The PP shall carry out the quarrying operations in the revised area of extent given only in the S.F. No: 248/2, 248/3 of the Pit-I only considering the safety of Urani situated near to the proposed quarry site.
3. The PP shall carry out the plantations of 200 saplings in the area covering the S.F No: 250/5 in the Pit-II and shall furnish the photographs & drone video showing the site conditions to the DEE/TNPCB at the time of obtaining CTO.
4. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the spillage & dust pollution while transportation.
5. The PP shall carry out the required number of plantation as committed in the EMP without deviation in adjacent to the Urani as a part of the mitigation measures the before the execution of the lease.
6. As accepted by the Project proponent the CER cost is Rs. 1.5 lakhs and the amount shall be spent for the Government Higher Secondary School, Kunnuthupatti Village as committed, before obtaining CTO from TNPCB.

Agenda No: 392 - 10

(File No: 10064/2023)

Existing Rough Stone and Gravel Quarry over an extent of 4.95.0Ha SF.No.119/2 (P), 322 & 323 (P) of Kanuvakarai Village, Annur Taluk, Coimbatore District by Mr.S.K.Yoganathan - For Environmental Clearance.

  
MEMBER SECRETARY  
SEAC -TN

29

  
CHAIRMAN  
SEAC- TN

(SIA/TN/MIN/429031/2023 dt:23.05.2023/)


The proposal was placed in 392<sup>nd</sup> SEAC Meeting held on 14.07.2023. The project proponent gave detailed presentation. 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. K. Yoganathan has applied for Environmental Clearance for the existing Rough Stone and Gravel Quarry over an extent of 4.95.0Ha SF.No.119/2 (P), 322 & 323 (P) of Kanuvakarai Village, Annur Taluk, Coimbatore 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 five years & production should not exceed Rough stone 587977m<sup>3</sup>, Gravel 117975 m<sup>3</sup> and the annual peak Production shall not exceed Rough stone – 170190 m<sup>3</sup> (4<sup>th</sup>), Gravel – 70374 m<sup>3</sup> (2nd Year) & Depth - 25m (10m AGL & 25m BGL).
4. Certified Compliance obtained from IRO(SZ), MoEF&CC vide Lr. E.P./12.1/2023-24/SEIAA/46/TN/849 Dt: 13.07.2023 for earlier applicant Tvl. Chanakya Blue Metals.

Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	Mr. S. K. Yoganathan, S/o. (Late) Krishnasamy, 93, : Sellappagoundanvalasu, Pethampalayam Post, Perundurai, Erode District – 638116.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone )	: Rough Stone & Gravel
3.	S.F Nos. of the quarry site with area break-up	: 119/2 (P), 322 & 323 (P)
4.	Village in which situated	: Kanuvakarai
5.	Taluk in which situated	: Annur

  
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SEAC -TN

30

  
CHAIRMAN  
SEAC- TN

6.	District in which situated	:	Coimbatore		
7.	Extent of quarry (in ha.)	:	4.95.0Ha		
8.	Latitude & Longitude of all corners of the quarry site	:	11°20'5.83"N to 11°20'11.76"N 77°6'1.05"E to 77°6'1"E		
9.	Topo Sheet No.	:	58-E/03		
10.	Type of mining	:	Opencast 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>	
				833642m <sup>3</sup>	137739m <sup>3</sup>
	Mineable Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel	
				587977m <sup>3</sup>	117975m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone	Gravel	
			170190 m <sup>3</sup>	70374 m <sup>3</sup>	
	Maximum Depth in meters	:	25m (10m AGL & 25m BGL)		
13.	Depth of water table	:	70m to 65m BGL		
14.	Man Power requirement per day:	:	20 Nos		
15.	Water requirement:	:	4.5 KLD		
	1. Drinking water	:	0.5 KLD		
	2. Utilized water	:	1.0 KLD		
	3. Dust suppression	:	1.5 KLD		
	4. Green belt	:	1.5 KLD		
16.	Power requirement	:	TNEB		
17.	Precise area communication approved by the Assistant Director, Dept. of G&M with date	:	Na.Ka.No.1046/Kanimam/2022, dt: 23.02.2023		
18.	Mining Plan approved by the Assistant Director, Dept. of Geology and Mining with date	:	Rc.No.1046/Mines/2022, dt: 04.05.2023		

19.	500m cluster letter issued by Assistant Director, Dept. of Geology and Mining with date	Rc.No.1046/Mines/2022, dt: 04.05.2023		
20.	VAO Certificate Regarding Structures within 300m Radius	Letter Dt:09.05.2023		
21.	Project Cost (excluding EMP cost)	: Rs.141.31 Lakhs		
22.	EC Recommendation	: For 5 Years period as per approved mining plan		
			Rough Stone	Gravel
		: Max Total RoM in m <sup>3</sup>	587977 m <sup>3</sup>	117975 m <sup>3</sup>
		: Annual Max RoM in m <sup>3</sup>	170190 m <sup>3</sup>	70374 m <sup>3</sup>
	: Max Depth in mtrs	25m (10m AGL & 25m BGL)		
23.	EMP cost (in Rs. Lakh).	: Rs.272.92 Lakhs/ 5 Years including capital cost and Recurring cost with 5% inflation.		
24.	CER cost (in Rs. Lakh).	: Rs.7.30 Lakhs including cost of toilet cleaning and maintenance for 5 Years Rs.4 Lakhs for panchayat union Middle School, Kanuvakkarai Village.		

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 170190 m<sup>3</sup> of Rough Stone & 70374 m<sup>3</sup> of Gravel by maintaining the ultimate depth of mining up to 25m (10m AGL & 15m 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 provide tall sheet fencing all along the periphery of the proposed mining area before execution of the lease.
- 3) The proponent shall provide the particulars for carrying out the plantation of 1500 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.
- 4) To comply with the conditions laid in the certified compliance report issued by the MoEF & CC, 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.
- 5) As accepted by the Project Proponent the CER cost of Rs.7.30 Lakhs including cost of toilet cleaning and maintenance for 5 Years Rs.4 Lakhs and the amount shall be spent for the Panchayat Union Middle School, Kanuvakkarai Village before obtaining CTO from TNPCB.


Agenda No: 392 - 11

(File No: 10071/2023)

Proposed Rough Stone Quarry over an extent 1.50.0 Ha at S.F.Nos.381 (Part-2) of Gopanahalli Village, Hosur Taluk, Krishnagiri District and Tamil Nadu by Thiru. C Dhivakar- For Terms of Reference. (SIA/TN/MIN/431204/2023, dt:28/05/2023)

The proposal was placed in 392<sup>nd</sup> SEAC Meeting held on 14.07.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Thiru. C. Dhivakar has applied for Terms of Reference for the proposed Rough Stone Quarry lease over an extent of 1.50.00Ha

  
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SEAC -TN

  
CHAIRMAN  
SEAC- TN

S.F.No.381 (Part-2), Gopanapalli Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.

2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per the precise area communication the lease period is for 10 Years. The approved mining plan is for the period of 10 Years & production should not exceed Rough stone 305319 m<sup>3</sup> and the annual peak Production shall not exceed Rough stone – 55517 m<sup>3</sup> & Depth - 58m (10m AGL + 48m BGL).
4. It has been observed that the bench geometry of bench height of 7 m with bench width of 5 m is provided in the approved Mining Plan which is not in consistent with the legal requirements of the MMR 1961 and further, the PP has not obtained the permission for the relaxation of the bench dimensions from the Director of Mines Safety, Chennai Region.

Based on the presentation and details furnished by the project proponent. SEAC after considering safety aspects and sustainable mining, decided to grant Terms of Reference (TOR) with Public Hearing for the depth up to 50m only (10m AGL + 40m BGL) subject to the following Specific TOR conditions, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC and Additional ToR conditions as given in ANNEXURE-I are to be included in EIA/EMP Report:

1. As per Metalliferous Mines Regulation 1961, under Chapter XI, 106 (2) (a)  
*"..... the face shall be benched and the sides shall be sloped at an angle of not more than 60 degrees from the horizontal. The height of any bench shall not exceed six meters and the breadth thereof shall not be less than the height. ...."*  
Hence, the proponent shall revise the Mining Plan with bench height and width as per the Metalliferous Mines Regulation 1961 and a revised mining plan/scheme of mining approved by the concerned Assistant Director of Dept. of Geology & Mining shall be submitted with a bench geometry of not less than 6m height x 6m width.

Considering the safety aspects and sustainability, the PP shall obtain Modified Mining Plan duly approved by the competent authority for the bench geometry

of 5 m height & 5 m width from the bench height of 7m to 5m as committed before public hearing.

2. The PP shall submit photographs of fencing, greenbelt and garland drain installed in the proposed mine.
3. 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 waterbody, Wells, Worship, industries, factories, sheds, etc.
4. The PP shall obtain the details in regard to distance of Reserve Forest and Protected Areas/WLS from the DFO concerned. If the proposed site falls within the 10km of the PA/WLS, then PP shall include conservation measures in the EMP in consultation with DFO concerned.


#### Agenda No-392-12

(File No: 10078/2023)

Proposed Rough Stone Quarry over an extent of 3.00.0Ha (Government Poramboke Land) SF.No.652 (Part) of Mallapadi Village, Bargur Taluk, Krishnagiri District by Thiru. S. Janarthanan - For Environmental Clearance. (SIA/TN/MIN/430194/2023 dt: 23.05.2023)

The proposal was placed in 392<sup>nd</sup> SEAC Meeting held on 14.07.2023. The project proponent gave detailed presentation. 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 EC from DEIAA vide Lr. No. DEIAA-KGI/ECNo.76/2018 Dt:27.08.2018. This EC issued by the DEIAA has been filed before the SEIAA-TN for reappraisal in compliance to the order of the Hon'ble NGT in O.A142 of 2022 as per the Guidelines stipulated in MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023
2. The project proponent, Thiru. S. Janarthanan has applied for Environmental Clearance for the Rough Stone Quarry over an extent of 3.00.0Ha SF.No.652 (Part) (Government Poramboke Land) of Mallapadi Village, Bargur Taluk, Krishnagiri District, Tamil Nadu.
3. The project/activity is covered under category "B2" of Item 1 (a) "Mining of

  
MEMBER SECRETARY  
SEAC -TN

35

  
CHAIRMAN  
SEAC-TN

Minerals Projects” of the schedule to the EIA Notification, 2006.

4. The precise area communication was issued for the period of 5 Years (2018). The approved mining plan is for the period of five years & production should not exceed 1056206m<sup>3</sup> of Rough Stone & 13756m<sup>3</sup> of Topsoil. The annual peak production is 254331m<sup>3</sup> of Rough Stone (5th Year) & 10720m<sup>3</sup> of Topsoil (1st Year). The depth of mining is 84m (15m AGL & 69m BGL).
5. It has been observed that the bench geometry of bench height of 7 m with bench width of 5 m is provided in the approved Mining Plan which is not in consistent with the legal requirements of the MMR 1961 and further, the PP has not obtained the permission for the relaxation of the bench dimensions from the Director of Mines Safety, Chennai Region.

Based on the presentation and documents furnished by the project proponent, SEAC directed the PP to provide the additional particulars as stipulated below:


1. As per Metalliferous Mines Regulation 1961, under Chapter XI, 106 (2) (a)

*“..... the face shall be benched and the sides shall be sloped at an angle of not more than 60 degrees from the horizontal. The height of any bench shall not exceed six meters and the breadth thereof shall not be less than the height. ....”*

Hence, the proponent shall revise the Mining Plan with bench height and width as per the Metalliferous Mines Regulation 1961 and a revised mining plan/scheme of mining approved by the concerned Assistant Director of Dept. of Geology & Mining shall be submitted with a bench geometry of not less than 6m height x 6m width.

Considering the safety aspects and sustainability, the PP shall obtain the Modified Mining Plan duly approved by the competent authority for accommodating the bench geometry designed with 5 m height & 5 m width, without affecting the provisions of MMR 1961.

2. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which include the following information:
  - i. Original pit dimension of the existing quarry
  - ii. Quantity achieved Vs EC Approved Quantity
  - iii. Balance Quantity as per Mineable Reserve calculated.

  
MEMBER SECRETARY  
SEAC -TN

  
CHAIRMAN  
SEAC- TN

- iv. Mined out Depth as on date Vs EC Permitted depth
  - v. Details of illegal/illicit mining carried out, if any
  - vi. Violation in the quarry during the past working.
  - vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
  - viii. Existing condition of Safety zone/benches
  - ix. Details of any penalties levied on the PP for any violation in the quarry operation
3. The Project Proponent shall furnish the revised EMP for remaining life of the mine in the format prescribed by the SEAC.
  4. Photographs of greenbelt, fencing and details of mitigation measures completed/proposed in regard to reduce the impact of mining on the environmental setting.
  5. 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.

On receipt of the same, further deliberations will be done.

Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.

**Agenda No: 392-13**

**(File No: 10058/2023)**

**Proposed Rough Stone Quarry over an extent of 1.33.5Ha at S.F. No: 327/3 of Gopanapalli Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by M/s. Victory Rocks-For Terms of Reference. (SIA/TN/MIN/430765/2023, Dated:25/05/2023).**

  
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SEAC -TN

  
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SEAC- TN

The proposal was placed in this 392<sup>nd</sup> Meeting of SEAC held on 14.07.2023. 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. Victory Rocks has applied for Terms of Reference for the Proposed Rough Stone Quarry over an extent of 1.33.5Ha at S.F. No: 327/3 of Gopanapalli Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. 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 280511 m<sup>3</sup> of Rough Stone with ultimate depth of mining 50m (22m AGL +28m BGL).
4. Earlier, the PP has obtained EC from District Level Environmental Impact Assessment Authority, Krishnagiri vide Lr.No.03/DEIAA-KGI/EC.No.89/2018 dated:27.08.2018 for the quantity of 280511 cu.m of Rough Stone upto a depth of 50m. This EC issued by the DEIAA has been filed before the SEIAA-TN for reappraisal in compliance to the order of the Hon'ble NGT in O.A142 of 2022 as per the Guidelines stipulated in MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.
5. It is an Existing quarry lease area. The lease deed was executed on 23.03.2020 and lease period is upto 22.03.2030.
6. The PP has furnished last permit details and transported quantity upto 30.01.2023 is 74,640 cu.m of Rough Stone.
7. It has been observed that the bench geometry of bench height of 7 m with bench width of 5 m is provided in the approved Mining Plan which is not in consistent with the legal requirements of the MMR 1961 and further, the PP has not obtained the permission for the relaxation of the bench dimensions from the Director of Mines Safety, Chennai Region.

Based on the presentation made by the proponent, SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing, subject to the following specific TOR conditions, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC and additional ToR

  
MEMBER SECRETARY  
SEAC -TN

  
CHAIRMAN  
SEAC- TN

conditions given in ANNEXURE-I are to be included in EIA/EMP Report:

1. As per Metalliferous Mines Regulation 1961, under Chapter XI, 106 (2) (a)  
*"..... the face shall be benched and the sides shall be sloped at an angle of not more than 60 degrees from the horizontal. The height of any bench shall not exceed six meters and the breadth thereof shall not be less than the height. ...."*  
Hence, the proponent shall revise the Mining Plan with bench height and width as per the Metalliferous Mines Regulation 1961 and a revised mining plan/scheme of mining approved by the concerned Assistant Director of Dept. of Geology & Mining shall be submitted with a bench geometry of not less than 6m height × 6m width.
2. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which include the following information:
  - i. Original pit dimension of the existing quarry
  - 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 carried out, if any
  - vi. Violation in the quarry during the past working.
  - vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
  - viii. Existing condition of Safety zone/benches
2. Details of any penalties levied on the PP for any violation in the quarry operation
3. The PP shall submit Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai and appropriate mitigating measures for the non-compliance items, if any.
4. The Project Proponent shall furnish the revised EMP for remaining life of the mine in the format prescribed by the SEAC.
5. 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.

**Agenda No: 392-14**

**(File No: 10065/2023)**

**Proposed Rough Stone and Gravel Quarry over an extent of 1.28.50 Ha at S.F. No: 150/2C, 150/2D & 150/2F of Olagalampoondi Village, Vikravandi Taluk, Villupuram District, Tamil Nadu by Tmt. V. Sasikala -For Environmental Clearance. (SIA/TN/MIN/428652/2023, Dated:23.05.2023).**

The proposal was placed in this 392<sup>nd</sup> Meeting of SEAC held on 14.07.2023. 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, Tmt. V. Sasikala has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry over an extent of 1.28.50 Ha at S.F. No: 150/2C, 150/2D & 150/2F of Olagalampoondi Village, Vikravandi Taluk, Villupuram 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 73259 m<sup>3</sup> of Rough Stone & 17396 m<sup>3</sup> of Gravel with an ultimate depth of mining 15m BGL.

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

1. During the presentation, SEAC noted that from the KML file uploaded by the proponent in PARIVESH portal, it is construed that the proposed site has been quarried up to a depth of 2m to 3m. Further, the precise area communication letter and mine plan approval letter have not mentioned about the quarrying activity carried out. Hence, the PP shall furnish the details regarding the existing pits operated earlier which shall be duly certified by the concerned AD (Mines).
2. A letter from AD mines reporting the current environmental conditions of the

  
MEMBER SECRETARY  
SEAC -TN

  
CHAIRMAN  
SEAC- TN



project site and details/status/work carried out during earlier period. AD mines shall also clarify whether the proposal comes under violation category or not.

3. The Project Proponent shall submit the revised mining plan duly approved by the concerned AD (Mines), incorporating the 'Production & Development Plan' by drawing the plan and sections legitimately fulfilling the provisions of Reg. 60 of MMR 1961.
4. Besides, the PP shall enumerate the structures within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m with details such as dwelling houses with number of occupants, places of worship, industries, factories, sheds, etc.

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

Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.

**Agenda No: 392- 15**

**(File No: 10072/2023)**

**Proposed Rough Stone and Gravel Quarry over an extent of 1.62.17 Ha at S.F. No: 84/2C1, 2D1, 2E1, 2C2, 2D2A, 2E2, 2J, 2K & 2L of Kallanai Village, Kalligudi Taluk, Madurai District, Tamil Nadu by Thiru. S. Rathinam -For Terms of Reference. (SIA/TN/MIN/430841/2023, Dated:25.05.2023).**

The proposal was placed in this 392<sup>nd</sup> Meeting of SEAC held on 14.07.2023. 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. S. Rathinam has applied for Terms of Reference for the Proposed Rough Stone and Gravel Quarry over an extent of 1.62.17 Ha at S.F. No: 84/2C1, 2D1, 2E1, 2C2, 2D2A, 2E2, 2J, 2K & 2L of Kallanai Village, Kalligudi Taluk, Madurai District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 10 years. The mining plan is for the period of 10 years & production should not exceed 2,42,467.5 m<sup>3</sup> of Rough

  
MEMBER SECRETARY  
SEAC -TN

41

  
CHAIRMAN  
SEAC- TN

Stone and 26,325 m<sup>3</sup> of Gravel with an ultimate depth of mining 47m BGL. Based on the- presentation made by the proponent, SEAC decided to recommend for grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. During the presentation, SEAC noted that from the KML file uploaded by the proponent in PARIVESH portal, it is construed that the proposed site has been quarried. Further, the precise area communication letter and mine plan approval letter have not mentioned about the quarrying activity carried out. Hence, the PP shall furnish a letter obtained from AD/DD Mine & Geology at the time of EIA appraisal indicating whether any quarrying activities are carried out previously in the proposed quarry site, the depth of such quarrying operation, period of the operation, quantity of minerals mined out and permit details for quarrying & transportation of material.
2. The PP shall submit a comprehensive hydrological report indicating the impact of proposed quarrying operations on Kallanai Kanmoi exists at 120 m (E), and 'Kundaru' situated at 30m from the proposed quarry site and also on the other waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry. The studies shall also spell out the monitoring & mitigating measures for such hydrological
3. 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.
4. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.

Agenda No: 392-16

(File No: 10079/2023)

Proposed Red Earth & Pebbles Quarry over an extent of 2.49.0 Ha at S.F. No'S : 23/2, 23/3, 34/12A, 34/12B, 35/16B & 35/17 of Vannampattu Village, Ulundurpet Taluk, Kallakurichi District, Tamil Nadu by Thiru.K.Ravichandran -For Environmental Clearance. (SIA/TN/MIN/430903/2023, Dated:27.05.2023).

  
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The proposal was placed in this 392<sup>nd</sup> Meeting of SEAC held on 14.07.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru. K. Ravichandran has applied for Environmental Clearance for the Proposed Red Earth & Pebbles Quarry over an extent of 2.49.0 Ha at S.F. No'S : 23/2, 23/3, 34/12A, 34/12B, 35/16B & 35/17 of Vannampattu Village, Ulundurpet Taluk, Kallakurichi 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 2 years. The mining plan is for the period of Two years & production should not exceed 13,147 m<sup>3</sup> of Red Earth @50% & 13,147 m<sup>3</sup> of Pebbles @50% with an ultimate depth of mining 2m BGL.
4. The PP had submitted a letter from the Deputy Director, Department of Geology and Mining dated: 13.07.2023 stating that  
*"... it is informed that one stream is situated on the Eastern side adjacent to the lease applied area. Further there is no notified/ declared protected zones situated adjacent to the applied area..."*

File No	10079	Category	"B2" 1(a)
	SIA/TN/MIN/430903/2023, Dated:27.05.2023		EC
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. K. Ravichandran, S/o. Kaliyaperumal, No.52, Periyar Street, Kattugudalur Village post, Cuddalore District-607805.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Red Earth & Pebbles Quarry
3.	S.F Nos. of the quarry site with area break-up	:	23/2, 23/3, 34/12A, 34/12B, 35/16B & 35/17

4.	Village in which situated	:	Vannampattu
5.	Taluk in which situated	:	Ulundurpet
6.	District in which situated	:	Kallakurichi
7.	Extent of quarry (in ha.)	:	2.49.0 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	11°40'45.53"N to 11°40'51.64"N 79°23'57.02"E to 79°24'3.37"E
9.	Topo Sheet No.	:	58 M/06
10.	Type of mining	:	Opencast Semi mechanized method
11.	Life of Project	:	2 years
	Lease Period	:	2 years
	Mining Plan Period	:	2 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m <sup>3</sup> (RoM)	:	As modified by SEAC
		:	Red Earth @50% 24886 m <sup>3</sup>
	Mirable Resources m <sup>3</sup> (RoM)	:	Red Earth @50% 13147 m <sup>3</sup>
		:	Pebbles @50% 24886 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Pebbles @50% 13147 m <sup>3</sup>
		:	Red Earth @50% 6584 m <sup>3</sup>
Maximum Depth in meters	:	Pebbles @50% 6584 m <sup>3</sup>	
13.	Depth of water table	:	2m BGL
14.	Man Power requirement per day:	:	35m in Summer Season-30m in Rainy Season
		:	7 Nos.

  
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15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	1.5 KLD 0.3 KLD 0.5 KLD 0.7 KLD		
16.	Power requirement	:	TNEB 7008 Liters of HSD		
17.	Precise area communication approved by the Assistant Director(i/c), Dept. of Geology & Mining.	:	Roc.No.A/G&M/02/2023, dated: 10.05.2023		
18.	Mining Plan approved by Assistant Director(i/c), Dept. of Geology & Mining.	:	Roc.No.B/G&M/02/2023, dated: 16.05.2023		
19.	Assistant Director(i/c), Dept. of Geology & Mining 500m Cluster Letter	:	Roc.No.B/G&M/02/2023, dated: 16.05.2023		
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 17.05.2023		
21.	Project Cost (excluding EMP cost)	:	Rs. 25.78,400/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
		:	Max Total RoM in m <sup>3</sup>	13147 m <sup>3</sup>	13147 m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>	6584 m <sup>3</sup>	6584 m <sup>3</sup>
		:	Max Depth in mtrs	2m BGL	
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 5.29 Lakhs recurring cost – Rs. 1.37 Lakhs		
24.	CER cost (in Rs. Lakh).	:	Rs. 2,00,000 /- as accepted by the PP		

Based on the presentation and details furnished by the project proponent, SEAC recommended to grant of Environmental Clearance for the Annual Peak Production Capacity of 6584 m<sup>3</sup> of Red Earth and 6584 m<sup>3</sup> of Pebbles Earth for the maximum

  
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SEAC -TN

  
CHAIRMAN  
SEAC- TN

period of 2 years only with maintaining an ultimate depth of 2 m below Ground Level, subject to the standard conditions & normal conditions stipulated by MOEF & CC and Annexure-I, in addition to the following specific conditions:

1. The PP shall not carry out the drilling and blasting activities in the quarry.
2. The PP shall ensure that the proposed quarry operation will not affect the drainage pattern of the area and accordingly, the PP shall install the special protective mitigation measures such as construction of embankment with plantation for non-disturbance of the odai situated nearby.
3. The PP shall install a Bio-toilet for the persons employed in the quarry before obtaining the CTO from the TNPCB.
4. The PP shall ensure that Red Earth & Pebbles will be covered with Tarpaulin during Transportation to control the dust emission.
5. As accepted by the Project proponent, the CER cost is Rs. 2.0 lakhs and the amount shall be spent for the committed activities towards Government High School, Nadiyappattu Village before obtaining CTO from TNPCB.

**Agenda No: 392-17**

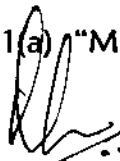
**(File No: 10059/2023)**

**Existing Rough stone lease over an extent of 4.00.0 Ha (Government Porampoke Land) at S.F.Nos.629 (Part), Nagamangalam Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by Thiru. K. Madhusudhanan, – Provision of Terms of Reference for the Reappraisal of EC granted by the DEIAA. (SIA/TN/MIN/430754/2023 dated 25.05.2023)**

The proposal was placed for appraisal in this 392<sup>nd</sup> meeting of SEAC held on 14.07.2023. The Project Proponent made a detailed power point presentation about the proposed project. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, Thiru. K. Madhusudhanan has applied seeking Terms of Reference for the existing Rough stone quarry lease over an extent of 4.00.0 Ha (Government Porampoke Land) at S.F.Nos.629 (Part) Nagamangalam Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nādu.
2. The project/activity is covered under Category “B1” of Item 1(a) “Mining

  
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SEAC -TN

  
CHAIRMAN  
SEAC- TN

Projects” of the Schedule to the EIA Notification, 2006 as amended.

3. DEIAA EC Lr. No. 03/DEIAA-KGI/EC. No. 97/2018 dated 27.08.2018. This EC issued by the DEIAA has been filed before the SEIAA-TN for reappraisal in compliance to the order of the Hon'ble NGT in O.A142 of 2022 as per the Guidelines stipulated in MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.
4. It has been observed that the bench geometry of bench height of 7 m with bench width of 5 m is provided in the approved Mining Plan which is not in consistent with the legal requirements of the MMR 1961 and further, the PP has not obtained the permission for the relaxation of the bench dimensions from the Director of Mines Safety, Chennai Region.

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

1. As per Metalliferous Mines Regulation 1961, under Chapter XI, 106 (2) (a)

*“..... the face shall be benched and the sides shall be sloped at an angle of not more than 60 degrees from the horizontal. The height of any bench shall not exceed six meters and the breadth thereof shall not be less than the height. ....”*

Hence, the proponent shall revise the Mining Plan with bench height and width as per the Metalliferous Mines Regulation 1961 and a revised mining plan/scheme of mining approved by the concerned Assistant Director of Dept. of Geology & Mining shall be submitted with a bench geometry of not less than 6m height × 6m width.

2. For the existing quarry, the PP shall obtain a letter from the concerned AD (Mines) which include the following information:

- i. Original pit dimension of the existing quarry
- 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 carried out, if any
  - vi. Violation in the quarry during the past working.
  - vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
  - viii. Existing condition of Safety zone/benches
3. Details of any penalties levied on the PP for any violation in the quarry operation
  4. The PP shall submit Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai and appropriate mitigating measures for the non-compliance items, if any.
  5. The Project Proponent shall furnish the revised EMP for remaining life of the mine in the format prescribed by the SEAC.
  6. 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.
  7. As the Cauvery North WLS is within 10 km of the proposed site, PP shall consult the DFO concerned for contributing towards conservation measures in the WLS and include the same in the EMP.

**Agenda No: 392-18**


**(File No: 10066/2023)**

**Existing Rough stone lease over an extent of 4.40.0 Ha at S.F.Nos. 63 (Part-B) Bargur Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by Thiru. N. Arumugam- Provision of Terms of Reference for the Reappraisal of EC granted by the DEIAA.**

**(SIA/TN/MIN/429870/2023 dated 23.05.2023)**

The proposal is placed for appraisal in this 392<sup>nd</sup> meeting of SEAC held on 14.07.2023.

The Project Proponent made a detailed power point presentation about the proposed

  
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SEAC -TN

  
CHAIRMAN  
SEAC- TN



project. 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. N. Arumugam has applied seeking Terms of Reference for the Existing Rough stone quarry lease over an extent of 4.40.0 Ha at S.F.Nos.63 (Part-B) Bargur Village, Bargur Taluk, Krishn District, Tamil Nādu.
2. The project/activity is covered under Category “B1” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006 as amended.
3. DEIAA EC Lr. No. Roc. 174/2018/Mines dated 27.11.2018. This EC issued by the DEIAA has been filed before the SEIAA-TN for reappraisal in compliance to the order of the Hon’ble NGT in O.A142 of 2022 as per the Guidelines stipulated in MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.
4. The PP has obtained the CTO vide F.1837HSR/RS/DEE/TNPCB/HSR/W&A/2018 Dated 27/09/2018, valid up to November 26, 2023.

Based on the presentation and the documents furnished by the proponent, SEAC had noted the following information from the KML file of the existing quarry site:

1. From the Google map it is observed that there is a river stream and a check dam abutting the proposed site and PP had obstructed and diverted river water to his site and using it for his mining operations.
2. The PP have not provided the statutory distance of 50 m (minimum) from the boundary of the lease to the canal/odai situated nearby as per the conditions laid in the EC granted by the DEIAA under the provision of MMR 1961 and TNMMCR 1959.

From the “Indicative Guidelines for Restoration of Water Bodies” prepared by the CPCB in compliance to Hon’ble NGT Order dated 10.05.2019 in M.A.No. 26/2019 in OA.No. 325 of 2015, it is stated that

*“....Adequate availability of water of required quality is pre-requisite for survival and quality of human life. Surface water bodies like lakes, ponds, reservoirs, tanks and rivers were treated as community resource or asset over the centuries.*

  
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SEAC -TN

  
CHAIRMAN  
SEAC- TN

*In turn, these water bodies have been catering the local human and livestock populations. Therefore, management of water resources has assumed great importance.*


*Mushrooming urban, industrial and infrastructure development has further changed the status of these water bodies from community resources to a mere dumping ground or sink for solid wastes, construction debris, domestic sewage, industrial effluents, religious offering etc. resulting in severe degradation in the quality of such resources.*

*Further, the Standing Committee on Water Resources (2012-13) in their 16th Report on 'Repair, Renovation and Restoration (RRR) of Water Bodies' also substantiated that encroachment on water bodies is threatening the existence of a large number of water bodies and throwing consequent challenges of depleting ground water resources, occurrence of devastating floods in urban areas as well as water scarcity. Aforesaid Committee suggested steps required to remove encroachment and to restore the water bodies....."*

Further, the MoEF & CC OM No. Z-11013/57/2014-IA.II (M), dated. 29.10.2014 states that

*"....2 (b) The natural water bodies and or streams which are flowing in and around the village should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period....."*

1. Therefore, the SEAC have decided to seek the following additional details/documents from the Project Proponent:
  - i) The Assistant Director, PWD, Ground Water Division, Dharmapuri, shall inspect the quarry site and offer their remarks on (1) whether the quarrying activities abutting the aforesaid water course/River stream/check dam are carried out in by the PP, (2) whether the PP has encroached the water course or any poramboke land other than the leased area and (3) whether the PP is illegally diverting water from river stream/check dam to his site to benefit his mining operations/crusher.
  - ii) As per Metalliferous Mines Regulation 1961, under Chapter XI, 106 (2) (a)

  
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SEAC -TN

50

  
CHAIRMAN  
SEAC- TN

*“..... the face shall be benched and the sides shall be sloped at an angle of not more than 60 degrees from the horizontal. The height of any bench shall not exceed six meters and the breadth thereof shall not be less than the height. ....”*

Hence, the proponent shall revise the Mining Plan with bench height and width as per the Metalliferous Mines Regulation 1961 and a revised mining plan/scheme of mining approved by the concerned Assistant Director of Dept. of Geology & Mining shall be submitted with a bench geometry of not less than 6m height x 6m width.

- iii) For the existing quarry, the concerned AD (Mines) shall inspect the quarry site and he shall authentically provide the following information with necessary evidence and photographs:
- 1) Original pit dimension of the existing quarry.
  - 2) Quantity achieved Vs EC Approved Quantity.
  - 3) Balance Quantity as per Mineable Reserve calculated.
  - 4) Mined out Depth as on date Vs EC Permitted depth.
  - 5) Details of illegal/illicit mining carried out, if any.
  - 6) Violation in the quarry during the past working.
  - 7) Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
  - 8) Existing condition of Safety zone/benches.
- (iv) The AD (Mines) shall provide the details of payment of compensation under Section 21(5) of the MMDR Act for allegedly operating (or) any penalties levied on the PP for any violation caused in the quarry operation under the Common Cause judgment.
- (v) The PP shall submit Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai and appropriate mitigating measures for the non-compliance items, if any.
- (vi) The concerned DEE/TNPCB shall inspect the quarry site to give a detailed report on the functioning of the crusher unit located adjacent to the quarry which impacting the water body and also whether the water was

extracted from the canal for the crushing & cleaning of the stones in the crusher.

2. The PP shall provide the explanation for not adhering to the conditions imposed in the earlier EC, Approved Mining Plan and the Lease deed executed.

On receipt of the details sought above, the SEAC will further deliberate and decide on future course of action. The Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.

**Agenda No: 391-19**

**(File No: 10073/2023)**

**Proposed Lateritic soil lease over an extent of 1.58.0 Ha at S.F.No.31/3,32/1, & 33/2 in Kondalangkuppam Village, Vanur Taluk, Vilupuram District, Tamil Nadu by Thiru.M.Rajesh,- For Environment Clearance. (SIA/TN/MIN/431227/2023 dt 28.05.2023)**

The proposal was placed in this 392<sup>nd</sup> meeting of SEAC held on 14.07.2023. The Project Proponent made a detailed power point presentation about the proposed project. 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.M.Rajesh has applied seeking Environment Clearance for the proposed Lateritic soil lease over an extent of 1.58.0 Ha at S.F.No.31/3,32/1, & 33/2 in Kondalangkuppam Village, Vanur Taluk, Vilupuram 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.

Based on the presentation and documents furnished by the project proponent, SEAC decided to seek the following additional details/documents from the PP:

- a. The Modified Mining Plan duly approved by the Competent Authority for the quantity demarcated in the restricted mine lease area of extent covering 1.22 Ha in the S.F. No. 31/3, 32/1.
- b. The Soil composition report obtained from anyone of these approved Laboratories in the prescribed format shall be furnished in accordance with the

  
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SEAC -TN

  
CHAIRMAN  
SEAC- TN

directions issued by the Director of Geology and Mining Lr. No. 7240/MM6/2019, dated. 30.07.2021.

Sl. No	Name of the Laboratory
1.	Department of Civil Engineering, Division of Soil mechanics and foundation Engineering, Anna University, Guindy, Chennai -25.
2.	Department of Civil Engineering, National Institute of Technology, Trichy-620015.
3.	Govt College of Engineering, Karuppur, Salem – 636011.

On receipt of the details sought above, the SEAC will further deliberate and decide on future course of action.

Hence, the Proponent is advised to submit the additional documents/information as sought above within the period of 30 days failing which your proposal will automatically get delisted from the PARIVRESH portal.

**Agenda No: 392 - 20**

**(File No: 10060/2023)**

**Proposed Colour Granite quarry lease area over an extent of Extent 2.55.69 Ha at S. F. No. 219/1, 219/4, 219/6 & 219/7A of Kunnathur Village, Uthangarai Taluk, Krishnagiri District, Tamil Nadu by Thiru. S.L. Govindaraj - For Environmental Clearance.**

**(SIA/TN/MIN/430513/2023, Dated: 25.05.2023)**

The proposal was placed in 392<sup>nd</sup> SEAC meeting held on 14.07.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru. S.L. Govindaraj has applied for Environmental Clearance for the Proposed Colour Granite quarry lease area over an extent of Extent 2.55.69 Ha at S.F.No. 219/1, 219/4, 219/6 & 219/7A of Kunnathur Village, Uthangarai Taluk, Krishnagiri District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 20 years. The production for 5 years not to exceed RoM – 27,265 m<sup>3</sup>, Recovery @ 35% – 9,543 m<sup>3</sup> and 17,722 m<sup>3</sup> of Rejects with an annual peak production of RoM – 5880m<sup>3</sup> and Recovery @ 35% - 2058 m<sup>3</sup> with an ultimate depth of Mining

  
MEMBER SECRETARY  
SEAC -TN

53

  
CHAIRMAN  
SEAC- TN


32m below ground level.

4. Environmental Clearance obtained from DEIAA vide Lr. No. 25/DEIAA-KGI/EC No.21/2018 Dated: 27.02.2018. This EC issued by the DEIAA has been filed before the SEIAA-TN for reappraisal in compliance to the order of the Hon'ble NGT in O.A142 of 2022 as per the Guidelines stipulated in MoEF &CC OM F.No. IA3-22/11/2023-IA.III (E-208230), dated. 28.04.2023.

Based on the presentation and documents furnished by the proponent, SEAC decided to call for the following additional details.

1. The PP shall submit Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai and appropriate mitigating measures for the non-compliance items, if any.
2. For the existing quarry, the concerned AD (Mines) shall inspect the quarry site and he shall authentically provide the following information with necessary evidences and photographs:
  - i. Original pit dimension of the existing quarry
  - 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 carried out, if any
  - vi. Violation in the quarry during the past working.
  - vii. Quantity of material mined out outside the mine lease area (or) in the adjacent quarry/land.
  - viii. Existing condition of Safety zone/benches
3. The AD (Mines) shall provide the details of payment of compensation under Section 21(5) of the MMDR Act for allegedly operating (or) any penalties levied on the PP for any violation caused in the quarry operation under the Common Cause judgment.
4. The proponent shall complete fencing and submit photographic/videographic evidence.

On receipt of the details sought above, the SEAC will further deliberate and decide on future course of action. The proponent is advised to submit the additional documents/

  
MEMBER SECRETARY  
SEAC -TN

54

  
CHAIRMAN  
SEAC- TN

information as sought above within a period of 30 days failing which your proposal will automatically get delisted from the PARIVESH portal.

**Agenda No: 392 - 21**

**(File No: 10067/2023)**

**Proposed Rough stone & Gravel quarry lease area over an extent of Extent 2.15.00 Ha at S. F. No. 2/5, 2/8, 3/1 & 3/2 of Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu by Tmt. R. Boopathi - For Terms of Reference. (SIA/TN/MIN/430383/2023, Dated: 25.05.2023)**

The proposal was placed in 392<sup>nd</sup> SEAC meeting held on 14.07.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Tmt. R. Boopathi has applied for Terms of Reference for the Proposed Rough stone & Gravel quarry lease area over an extent of Extent 2.15.00 Ha at S.F.No. 2/5, 2/8, 3/1 & 3/2 of Kottaiyur Village, Virudhunagar Taluk, Virudhunagar District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is for 5 years. The production for 5 years not to exceed 3,02,715m<sup>3</sup> of Rough stone and 69,156m<sup>3</sup> of Gravel with an ultimate depth of Mining 39m below ground level.

During the presentation, it was found that the proponent was absent for the meeting. Hence, the subject was not taken up for appraisal.

**Agenda No. 392-22**

**File No: 6440/2017**

**Proposed construction of Tuna Fishing Harbour with net fish handling capacity of 69,000TPA at S.F.No. 7/4, 39, 40, 41, 42 & 49, Thiruvottiyur Kuppam Village, Ennore Taluk, Thiruvallur District, Tamil Nadu by Department of Fisheries, Government of Tamil Nadu, Fishing Harbour Project Division – For amendment in Environmental Clearance. (SIA/TN/MIS/43388/2015, dated: 27.09.2019)**

Earlier, this proposal was placed in the 383<sup>rd</sup> meeting of SEAC held on 15.06.2023. The details of the project furnished by the proponent are available on the PARIVESH

  
MEMBER SECRETARY  
SEAC -TN

55

  
CHAIRMAN  
SEAC- TN

web portal (parivesh.nic.in). The SEAC noted the following:

1. The SEIAA has issued the Terms of Reference (ToR) to carryout Environment Impact Assessment (EIA) and Public hearing meeting, vide their Lr. No. SEIAA-TN/F.No.6440/SEAC-C/7(e) ToR-301/2017 dated:22.01.2018.
2. SEIAA has granted Environmental Clearance (EC) vide their Letter No. SEIAA-TN/F.No.6440/EC/7(e)/75/ 2020 dated 05.08.2020.
3. In the meantime, anticipating the Environmental Clearance and considering the importance of Welfare schemes, only casting of Tetra pods and placing of Granite stones on the existing groynes were started by the PP.
4. Subsequently, in Hon'ble NGT an Original Application OA No.28/2020 was filed by the Meenava Thanthai K.R. Selvaraj Kumar, Meenava Nala Sangam rep. by its President M.R. Thiyagarajan against the Construction of Tuna Fishing harbour in CRZ Zone at Thiruvottriyur, Thiruvallur District. The Application was filed before the National Green Tribunal as the Department of Fisheries, is alleged commenced the works without getting permissions.
5. The Hon'ble National Green Tribunal (NGT) in OA No.28/2020 has given the directions. As per the Hon'ble court direction the work was stopped from 10.02.2020. The Tamil Nadu Environmental Impact Assessment Authority granted Environmental Clearance (EC) on 05.08.2020. Based on the Hon'ble NGT direction work has been resumed from 21.09.2020 and now the work has been completed 94% and as per court order further onshore works are in progress.
6. After so many hearings, the Hon'ble NGT judgment in Original Application No.28/2020 as well as the Appeal No.28/2020 dated: 28.09.2022 are as follows.
7. The claim of the appellant that the baseline data collected prior to the ToR and the consideration of the project after three years of the collection of baseline data which will vitiate and not conducting the public hearing after further details submitted by the project proponent as directed by the SEAC – Tamil Nadu in its 141st meeting will vitiate the issuance of Environmental Clearance (EC) are rejected for the reasons discussed above in the Judgment.

  
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SEAC -TN


56

  
CHAIRMAN  
SEAC- TN



8. There is no necessity to set aside the Environmental Clearance (EC) as claimed by the appellant, but suspending the Environmental Clearance (EC) to the extent of directing the project proponent not to commission the project but permitting to undertake the project work in onshore area only till such time further studies are completed and further conditions are to be imposed, if any, by the SEIAA – Tamil Nadu will be sufficient and for that purpose, following directions are issued:


- i. The project proponent is directed to conduct a study of sediment deposit and sediment erosion including predicting the locations and suitable environment management plan for reducing the same on the basis of the ToR issued and the directions issued by the SEAC – Tamil Nadu in their 141st meeting.
- ii. The project proponent is also directed to conduct a study on impact of spillage of fuel or engine oil, lubricant from the construction site and source of other pollution and impacts and suitable precautionary methods to be taken to avoid pollution and trap the spillage should be conducted.
- iii. A detailed marine biodiversity management plan prepared through NIOT or any other institute of repute on marine, brackish water and freshwater ecologically and biodiversity and must be submitted to and implemented to the satisfaction of the State Biodiversity Board and the CRZ authority. The report shall be based on the study of the impact of the project activities on intertidal biotopes, corals and coral communities (if any) in the area, molluscs, sea grasses, sea weeds, sub-tidal habitats, fishes and other marine and aquatic micro, macro and mega flora and fauna including benthos, planktons, turtles, birds, etc. as also the productivity. The data collection and impact assessment shall be as per standards survey methods and include underwater photography in tune with the recommendations made by the SEAC – Tamil Nadu while recommending the project.


  
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SEAC- TN

- iv. The study must be conducted by the project proponent and prepare a biodiversity management plan and in consultation with biodiversity board and the CRZ authority.
  - v. After conducting studies and getting report through accredited agency, then the same shall be placed before the SEAC – Tamil Nadu for consideration and on receipt of the same, the SEIAA– Tamil Nadu shall place the same before the SEAC – Tamil Nadu and they shall consider the sufficiency or otherwise of the same and on that basis, if any, further conditions are to be imposed to protect the marine environment then they shall impose the same and recommend the project or pass appropriate findings and forward the same with recommendation / findings to the SEIAA – Tamil Nadu and on receipt of the same, the SEIAA – Tamil Nadu shall appraise the same and take appropriate decision imposing additional conditions or otherwise on the basis of the findings of the SEAC – Tamil Nadu and incorporate the same in the Environmental Clearance (EC) granted.
9. The project proponent is directed to complete the studies within a period of 6 (Six) months and on submission of the report by the project proponent, the SEAC / SEIAA – Tamil Nadu are directed to complete the process of further appraisal as directed by this Tribunal within a further period of 3 (Three) months and issue necessary further conditions or modifications or findings in accordance with law.
  10. Once the SEIAA – Tamil Nadu imposed further conditions, then the project proponent is directed to carry out those conditions as well while proceeding with the project.
  11. The Environmental Clearance (EC) granted will be subject to the further orders to be passed by the SEAC and SEIAA – Tamil Nadu as directed by this Tribunal. Considering the circumstances, parties are directed to bear their respective costs in the respective cases.

Based on this Appeal No.28/2022 (SZ) the marine biodiversity management plan prepared through Centre of Advanced Study in Marine Biology Faculty of Marine Sciences, Parangipettai - Annamalai University and submitted by the PP.

  
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SEAC -TN

  
CHAIRMAN  
SEAC- TN

During the meeting, SEAC decided to defer the proposal and take it up in the ensuing meeting.

The proposal was again placed in the 385<sup>th</sup> SEAC Meeting held on 22.06.2023. Based on the presentation made by the proponent SEAC decided to defer the proposal, since the PP has requested more time to furnish the additional details.

Now, this proposal was again placed in this 392<sup>nd</sup> SEAC Meeting held on 14.07.2023.

During the meeting, the representatives from TN Fisheries Department and Annamalai University gave a detailed presentation. Based on the deliberations and documents furnished, SEAC noted that Hon'ble NGT vide order dated.28.07.2022 has stated that

*"...A detailed marine biodiversity management plan prepared through NIOT or any other institute of repute on marine, brackish water and freshwater ecologically and biodiversity and must be submitted to and implemented to the satisfaction of the State Biodiversity Board and the CRZ authority...."*

This is also part of the recommendation made by SEAC earlier. Hence, the SEAC decided that the Biodiversity Management Plan (BMP) prepared shall be presented before the State Biodiversity Board, obtain their remarks, revise the BMP and submit the details to SEAC for further consideration.

Agenda No: 392 – TA – 01

(File No: 6251/2017)

Existing Limestone mine lease over an extent of 1.70.0 Ha at S.F.No. 693/1,2,3,4 & 7, Sirugudi Village, Natham Taluk, Dindigul District, Tamil Nadu by M/s. Sivam Mines – for Environmental Clearance under violation category.

(SIA/TN/MIN/419011/2023, Dt.20/02/2023)

Earlier, the proposal was placed in this 369<sup>th</sup> SEAC meeting held on 20.04.2023. The details of the project furnished by the proponent are available on the web portal (parivesh.nic.in). The project proponent gave a detailed presentation.

The SEAC noted the following:

1. The Project Proponent, M/s. Sivam Mines has applied for Environmental Clearance under violation category for the Existing Limestone mine lease over an extent of 1.70.0 Ha at S.F.No. 693/1,2,3,4 & 7, Sirugudi Village, Natham Taluk,

  
MEMBER SECRETARY  
SEAC -TN

59

  
CHAIRMAN  
SEAC- TN

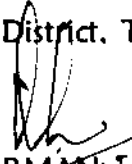
Dindigul District, Tamil Nadu.

2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. ToR issued under violation category vide Lr No. SEIAA-TN/F.No.6251/ToR-419/2018, dated: 22.05.2018.
4. As per the Hon'ble High Court of Madras order dated 13.10.2017 in W.P.No.11189 of 2017, amendment in the ToR was issued vide Letter No. SEIAA-TN/F – 6251/SEAC- CXVIII/TOR- 419 (A)/2018 Dt.30.07.2018.
5. Extension of validity of ToR issued vide Lr. No. SEIAA-TN/F.No. 6251/TOR-419/A/ dated: 30.10.2021 and Letter No. SEIAA-TN/F.No.6251/ToR-419/Ext/2018/ dated: 21.12.2022
6. The PP has furnished the EIA Report under violation on 23.02.2023. Based on the presentation made and documents furnished by the project proponent, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment whether it is being carried out in accordance with CPCB Guidelines, remediation plan, natural resource augmentation and community resource augmentation. After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category. SEAC also decided to request SEIAA-TN to initiate action under Sec. 19 of the Environment (Protection) Act, to be taken for violation cases, in accordance with law.

The proposal was placed in this 392<sup>nd</sup> SEAC meeting held on 14.07.2023 where the Sub-Committee report was deliberated and its observations & conclusions are given as below:

The mining lease for limestone mining was granted to Thiru. S. Asaialangaram, Dindigul District vides G.O. Ms.No. 1691, Dated: 04.12.1982 for a period of 3 years 28.02.1983 to 27.02.1986. The lease was first renewed for a period of 10 years with effect from 28.02.1986 to 27.02.1996 vides G.O.Ms. No.1439/Inds, Dated: 13.12.1990 in Patta Land over an extent of 1.70.0 at Sirugudi Village, Natham Taluk, Dindigul District, Tamil

  
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Sl. No.	Particulars	Details
1	Method of mining	Non- Conventional Opencast Method of Mining (using jack hammer drilling, Controlled blasting and using Excavator)
2	Geological reserve	5,29,865 Tonnes of ROM 3,06,413 Tonnes of Limestone @ 60% Recovery
3	Mineable reserve available- As on 20.12.2019	74,277 Tonnes of ROM 44,566 Tonnes of Limestone @ 60% Recovery
4	Proposed production (Peak production)	13,406 tonnes ROM 8,043 Tonnes of Limestone @ 60% Recovery
5	Elevation range of the mine site	Top RL 229 m
6	Bench height	4.0m
7	Bench width	6 m
8	Bench slope	45° to 60° to vertical
9	Proposed Depth of mining	22 m BGL
10	Life of mine	5.6 years

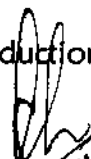
Second renewal was granted vide G.O.(3D).No.83, Industries (MMA2) Department, Dated:09.10.1996 for a period of 20 years from 28.02.1996 to 27.02.2016 and the lease deed was executed on 17.01.1997.

Sl. No.	Mining Plan/Scheme	Plan Period	Approval vide IBM Letter Reference
1	Mining Plan	1995- 96 to 1999-2000	TN/D-Anna/MP/LST-825-MDS, dated: 12.07.1995
2	1 <sup>st</sup> Scheme of Mining	2000-2001 to 2004-2005	TN/DN/LST/MS/114/MDS, dated 14.02.2002.
3	2 <sup>nd</sup> Scheme of Mining	2005-06 to 2009-10	TN/DGL/LST/MS-457MDS, dated 10.09.2007.
4	3 <sup>rd</sup> Scheme of Mining	2010-11 to 2014-15	TN/DGL/LST/MS-776.Mds, dated: 28.03.2013
5	Modified Mining plan	2015-16 to 2019-20	TN/DGL/MP/LST-1969.Mds, dated: 30.03.2016
6	Review of mining plan	2020-21 to 2024-25	Lr.No. TN/DGL/LST/ROMP-1584-.MDS, dated: 10.01.2020

**STATUS OF MINING OPERATION**

The mining activities were stopped from 10.01.2017 and there was no production from

  
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this Mine since then.


### MINING PLAN APPROVALS

The Regional Controller of Mines, Indian Bureau of Mines (IBM), Chennai has accorded its Approval periodically for Mining Plans/Schemes. For recent Review of Mining Plan (ROMP) for the Period 2020-21 to 2024-25 vide Letter No. TN/DGL/LST/ROMP-1584-.MDS, dated: 10.01.2020.

Apart from operating the Mine without required EC after 15.01.2016, it has been observed that the mine was operated without obtaining the CTO from the TNPCB. Further, M/s. Sivam Mines received the Demand Notice from the District Collector, Trichy for 100% cost of Mineral value of Limestone quantity produced i.e., 3,000 Tonnes without EC vide Rc. No. 618/2019 (Mines) dated 06.08.2019 for Rs.13,87,500/- . Sivam Mines Not remitted the amount to Department of Geology and Mining.

### OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION

1. The Sub Committee has inspected Limestone Mine belongs to M/s. Sivam Mines covering mining lease vide G.O.No.83 over an extent of 1.70.0 Hectares in Sirugudi Village, Natham Taluk, Dindigul District to comprehend the over all mining scenario.
2. As per Amended MMDR Act 2015, validity of the Lease is upto 27.02.2046. Since the validity of lease has been extended under deemed extension as it was informed by the competent authority vide Rc.No. 90IMines/2023. dated: 02.05.2023 and it has been noted that
  - i. The District Collector has not granted 'No Mining Dues Certificate' for the above lease.
  - ii. Latest Review of Mining Plan was approved by IBM vide letter no. TN/DGL/LST/ROMP-1584-.MDS, dated: 10.01.2020 as the lease is fit for extension of validity.
3. There were no mining activities carried out in the Pit.
4. Fencing has been made and security guard was available.
5. There are few habitations within 300-meter radius area from the mining lease boundary.

  
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SEAC -TN

  
CHAIRMAN  
SEAC- TN

6. The PP have got Approved Mining Plan from IBM for the Project from time to time without any break with sending the draft copy of the Mining Plan well in advance to the competent authority.
7. Rain water accumulated in part of bottom bench of Pit is noticed.
8. During Violation Period, mechanised systematic mining activities, wet-drilling and controlled blasting were carried out in the Lease.
9. The waste rocks generated during mining was dumped within the mining lease area. The abandoned part of waste dumps outside mining lease area was found with adequate natural vegetation.
10. No Ground Water-table intersection or seepage was noticed in the existing benches.
11. The transportation of mineral was carried out through village road (even during the Violation Period). PP informed there were few habitations then along the road since beginning of mine. However, habitations developed near to road in few areas in recent past was observed.
12. Green Belt was developed along the periphery of Mine Pits including in Safety Barriers.
13. Garland Drains are provided along the periphery but its maintenance has to be enhanced after the commencement of mining operations.
14. Additional plantation as per the proposals given in EIA shall be developed.
15. No extensive Mineral exploration activities were subsequently carried out by the proponent to prove the existence of Limestone beyond the current Mining Plan depth.
16. No Hydrogeology study was carried out to determine the environmental effects due to limestone mining.
17. The PP have shown the avenue plantation activities are being currently carried out outside the mine lease along the haul roads leading to the villages.
18. The PP have informed that the pit / mine water is basically an accumulation of seasonal rain water and it is being used exclusively for the mine related activities such dust control, etc and mine water will be pumped outside the lease area after proper treatment for surrounding agricultural activities.

  
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SEAC- TN

19. The PP have shown the Sub-Committee in surrounding the mine lease on the agricultural activities being carried out in the surrounding villages through well-water irrigation which justifies that the ground water table is not being affected by the mining activities.

20. The PP have also shown the Sub-Committee regarding the greenbelt development activities implemented in the past in inactive areas and exposed the proposed plantation activities in the berm of existing quarry.

The Sub-Committee have carefully examined all the replies furnished by the PP during the discussions and satisfied with the responses furnished by the PP.

Based on the inspection of the project site and other documents furnished by project proponent, M/s. Sivam Mines, SEAC Sub-Committee recommends the following Estimation made towards the Ecological remediation cost, Natural resources augmentation cost and Community resources augmentation cost under violation category for the concerned Limestone Mine covering mining lease vide G.O.Ms.No.83 over an extent of 1.70.0 Ha in Sirugudi Village, Natham Taluk, Dindigul District, following the SEAC & CPCB Guidelines.

**SUB-COMMITTEE RECOMMENDATIONS:**

As the Proposal falls in Low Level Ecological Damage and EMP measures were in place during the Violation Period, the Sub-Committee is of the opinion that the higher Environmental Compensation value has been arrived based on the CPCB Guidelines is Rs.11,10,000/- which is higher than the other Environmental Compensation estimated values of Rs. 1,06,500/- based on the revised EIA Model (as proposed by the Proponent) and Rs. 1,61,500/- arrived on SEAC-TN model. Therefore, the value of Rs. 11,10,000/- shall be compensated for Ecological Remediation, Natural Resource Augmentation and Community Resource Augmentation Plans in accordance with the MoEF & CC Guidelines accordingly.

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	5,00,000
2	Natural Resource Augmentation Plan	3,00,000

  
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3	Community Resource Augmentation Plan	3,10,000
<b>Grand Total</b>		<b>11,10,000</b>

The Project Cost is Rs.75.47 Lakhs. CER Budget is Rs 5,00,000/- as accepted by the project proponent during appraisal.

**CER activities for the Past Mining Operation**

S.No	Activities	Beneficiaries	Cost (Rs.)
1	Providing school uniforms and books to school children	Govt Boys Primary School, Sirugudi	50,000
3	Providing colour coded dustbins to school to promote recycling		10,000
4	Distribution of Environmental related books		30,000
5	Plantation around the school		10,000
	<b>Total</b>		<b>1,00,000</b>

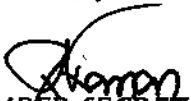
**CER activities for the Proposed Mining Operation**


The Project Cost is Rs.75.47 Lakhs. CER Budget is Rs 5,00,000/- as accepted by the project proponent during appraisal as it will cater the needs in the nearby Government school for the proposed mining operation.

S.No	Activities	Beneficiaries	Cost (Rs.)
1	Tree Plantation	Govt HSS School, Sirugudi	50,000
2	Toilet Renovation & Maintenance		2,50,000
3	Class rooms repairing, tiles work		2,00,000
	<b>Total</b>	<b>5,00,000</b>	

**STATUTORY PROCEDURES TO BE FOLLOWED:**

1. The Bank Guarantee for Rs. 11,10,000/- must be given to TNPCB for successful implementation of the Schemes in a period of two years. The Bank Guarantee

  
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SEAC- TN

will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.

2. CER fund of Rs.1,00,000/- has to be spent by M/s. Sivam Mines directly and receipt has to be produced to SEAC/SEIAA-TN.
3. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.


Based on the documents submitted by the PP and the Sub-Committee Report, the SEAC have observed that the Mining of Limestone in an extent of 1.70.0 Ha for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the SEAC decided to recommend grant of Environmental Clearance for Mining of Limestone in an extent of 1.70.0 Ha (G.O. No. 83) of M/s. Sivam Mines for the Annual Peak Production Capacity of not exceeding 13406 tonnes of ROM for the life of the project subject to the following conditions in addition to the normal 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 amount prescribed for Ecological remediation (Rs. 5.00 Lakhs), natural resource augmentation (Rs. 3.00 lakhs) & community resource augmentation (Rs. 3.10 Lakhs), totaling Rs. 11.10 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 11.10 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
3. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of two years. If not, the bank guarantee will be forfeited to TNPCB without further notice.

4. The amount committed by the Project proponent for CER activities for the violation period (Rs. 1.00 lakhs) shall be remitted in the form of DD to the beneficiary for the activities as committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN before grant of the EC.
5. Further, the PP shall allocate the budget of Rs. 5,00,000/= as CER activities to cater the needs in the nearby Government school for the proposed mining operations and it shall be spent within a period of one year after the execution of lease deed. A copy of receipt from the beneficiary shall be submitted to the concerned DEE/TNPCB and the SEIAA.
6. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac, 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
7. The PP shall produce the 'No Dues Certificate' obtained from the State Government i.e. Department of Geology & Mining to the SEIAA before grant of EC, if already not produced.
8. The PP shall send the 'Notice of Opening' to the Director of Mines Safety/Regional Inspector of Mines, DGMS/Chennai Region within 30 days after the execution of the lease deed.
9. The proposed action plan for green belt development shall be maintained in the dumps and haul roads of the overall project area.
10. As discussed with the Sub-Committee during the inspection, Bio remediation using microorganisms shall be carried out at the end of the mining to restore the soil environment to enable carbon sequestration.
11. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
12. The PP shall carry out the scientific studies to assess the slope stability of the quarry wall benches and the stability of the waste dumps with prescribing the

necessary stabilization measures within one year of the commencement of the mining operations, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Nagpur, NIRM-Bangaluru, IIT Madras – Division of Geotechnical Engineering, 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.

13. Within one year from the commencement of mining operations, the PP shall carry out the scientific studies comprising all the operating leases located in a cluster situation, on 'Optimisation of Controlled Blast Techniques for reducing the cumulative impact of blast-induced ground & air vibrations and flyrock caused due to the blasting operations' using of both NONEL and Electronic initiation systems to evaluate its performance for the implementation, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining and Fuel Research / Nagpur, NIRM-Bangaluru, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
14. The PP shall carry out the comprehensive hydrogeological studies within a period of two years from the commencement of the mining operations to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving anyone of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM-Bangaluru, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras - Centre for Environmental Sciences (CES), Chennai. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
15. The Project Proponent shall ensure that the funds earmarked for environmental

  
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CHAIRMAN  
SEAC- TN

- protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
  17. As per the MoEF & CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished for the life of the project.
  18. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

**Agenda No: 392 -TA2.**

**(File No: 6252/2018)**

**Existing Lime stone Mine Lease over an extent of 0.94.5Ha at S.F.No.630/1A, 1B, 2, 631/10 & 631/11 of Sirungudi Village, Natham Taluk, Dindigul District, Tamil Nadu by M/s. Sivam Mines Represented by Thiru. S. Ilangovan (Managing Partner) – For Environmental Clearance under Violation Category. (SIA/TN/MIN/421326/2023, Dated. 08.03.2023)**

Earlier, this proposal was placed in this 369<sup>th</sup> SEAC Meeting held on 20.04.2023. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in). The Project Proponent gave a detailed presentation.

**The SEAC noted the following:**

1. The Proponent, M/s. Sivam Mines represented by Thiru. S. Ilangovan (Managing Partner) has applied for Environmental Clearance under Violation Category for the Existing Lime stone Mine Lease over an extent of 0.94.5Ha at S.F.No.630/1A, 1B, 2, 631/10 & 631/11 of Sirungudi Village, Natham Taluk, Dindigul District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006, as amended.

  
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SEAC -TN

69

  
CHAIRMAN  
SEAC- TN

3. ToR issued under violation by SEIAA-TN vide Lr.No. SEIAA-TN/F.No.6252/TOR- 417/2018 Dated: 22.05.2018.
4. ToR Amendment issued vide Letter No. SEIAA-TN/F – 6252/SEAC-CXVIII/TOR-417(A)/2018 Dated: 30.07.2018.
5. ToR Extension issued vide SEIAALr. No. SEIAA-TN/F.No.6252/ToR-417/2018/A/ dated: 30.10.2021.
6. ToR Extension under violation Lr. No. SEIAA-TN/F.No.6252/ToR-417/2018/Extn/ dated:26.11.2022.
7. Public Hearing - As per MoEF & CC Notification Dt: 01.07.2016 & Office Memorandum – F.No.22-28/2020.IA.III Dated: 12.11.2020; Point No.5.
8. As per MMDR Amendment Act 2015 lease period is granted 17.04.1996 valid up to 16.04.2046.
9. Review of mining plan approved by IBM vide TN/DGL/LST/ ROMP -1653 – MDS, Dt:21.06.2021 for the period 2021 -2022 to 2025 -2026.
10. Production 20,415 Tonnes of ROM & 12,249 Tonnes of lime stone (60% recovery) and depth of mining 16m.

Based on the presentation made and documents furnished by the project proponent, the SEAC decided to constitute a SUB COMMITTEE to make an on-site inspection to assess the present status of the project site and environmental settings as the proposal falls under violation category and submit the report along with the recommendations to the Committee.

Further the Committee called for the following additional details:

1. A letter from the Project Proponent justifying that the project activity is covered under Category “B2” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006, as amended.
2. Valid mine plan approved by the competent authority for the proposed period of quarrying.
3. The PP shall furnish the copy of receipt of the penalty levied by the Dept of Geology and Mining for the exploitation of mineral without prior EC.
4. The PP shall obtain NOC from DFO, Dindigul District in regard to Kadavur Slender Loris Sanctuary.

  
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SEAC -TN

  
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SEAC- TN

Meanwhile, the SEAC decided to constitute a sub-committee to make on-site inspection to assess the present status of the proposed project, environmental settings and to assess ecological damage assessment whether it is being carried out in accordance with CPCB Guidelines, remediation plan, natural resource augmentation and community resource augmentation.

After the receipt of the additional details from the proponent and the evaluation report by the Sub-committee, the SEAC will deliberate on the issue of Environmental Clearance under violation category. SEAC also decided to request SEIAA-TN to initiate action under Sec. 19 of the Environment (Protection) Act, to be taken for violation cases, in accordance with law.

The proposal was again placed in 392<sup>nd</sup> SEAC Meeting held on 14.07.2023 and the Sub Committee submitted the site inspection report on 14.07.2023 as detailed below:

The mining lease for limestone mining was granted to Thiru. S. Ilangovan, Dindigul District vides G.O. 3 (D).No. 318, Industries (MMA 2) Department, Dated 26.10.1995 for a period of 20 years and the lease deed was executed on 17.04.1996 in Partially Patta & Government Land over an extent of 0.94.5 at Sirugudi Village, Natham Taluk, Dindigul District, Tamil Nadu State.

Then the lease was transferred to M/s. Sivam Mines., 6/209, Main Road, Sirugudi Post, Natham (Tk), Dindigul District vide G.O.(D) No.170 Industries (MMA1) Department, Dated: 03.11.2014.

Sl. No.	Particulars	Details
1	Method of mining	Non- Conventional Opencast Method of Mining (using jack hammer drilling, Controlled blasting and using Excavator)
2	Geological reserve	1,46,324 Tonnes of ROM 87,794 Tonnes of Limestone @ 60% Recovery
3	Mineable reserve available-As on 20.12.2019	21,975 Tonnes of ROM 13,185 Tonnes of Limestone @ 60% Recovery
4	Proposed production (Peak production)	21,975 tonnes ROM 13,185 Tonnes of Limestone @ 60% Recovery
5	Elevation range of the mine site	Top RL 220 m

  
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SEAC -TN

71

  
CHAIRMAN  
SEAC- TN

6	Bench height	4.0m
7	Bench width	6 m
8	Bench slope	45° to 60° to vertical
9	Proposed Depth of mining	20 m BGL
10	Life of mine	5 years

Apart from operating the Mine without required EC after 15.01.2016, and it has been observed that the mine was operated without CTO there. M/s. Sivam Mines received the Demand Notice from the District Collector, Trichy for 100% cost of Mineral value of Limestone quantity produced i.e., 4,600 Tonnes without EC vide Rc. No. 618/2019 (Mines) dated 06.08.2019 for Rs.8,11,200/-. Sivam Mines Not remitted the amount to Department of Geology and Mining.

The Regional Controller of Mines, Indian Bureau of Mines (IBM), Chennai has accorded its Approval periodically for Mining Plans/Schemes. For recent Review of Mining Plan (ROMP) for the Period 2021-22 to 2025-26 vide Letter No. TN/DGL/LST/ROMP-1653-MDS, Dated: 21.06.2021.

As per the Review of Mining Plan approved by Indian Bureau of Mines vide Letter No. Lr.No. TN/DGL/LST/ROMP-1653-MDS, Dated: 21.06.2021, the proposed production is as follows.

Year	ROM(Ts)	Limestone @ 60% (Ts)	Mineral Rejects @ 40% (Ts)	Side burden (Ts)	Total Waste (Mineral Rejects @ 40% + Side burden) Ts	Topsoil (Ts)	Ore waste ratio
2021-22	4160	2496	1664	-	1664	-	1:0.66
2022-23	4087	2452	1635	-	1635	-	1:0.66
2023-24	4267	2560	1707	3026	4733	1840	1:0.66
2024-25	4290	2574	1716	3120	4836	-	1:0.66
2025-26	3611	2167	1445	1061	2506	-	1:0.66
<b>Total</b>	<b>20415</b>	<b>12249</b>	<b>8167</b>	<b>7207</b>	<b>16374</b>	<b>1840</b>	<b>1:0.66</b>

### OBSERVATIONS OF THE SEAC SUB-COMMITTEE DURING THE PROJECT SITE INSPECTION

1. The Sub Committee has inspected Limestone Mine belongs to M/s. Sivam Mines covering mining lease vide G.O.No.83 over an extent of 0.94.5 Ha in Sirugudi Village, Natham Taluk, Dindigul District to comprehend the over all mining scenario.
2. As per Amended MMDR Act 2015, validity of the Lease is upto 11.01.2045. Since the validity of lease has been extended under deemed extension as it was

  
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CHAIRMAN  
SEAC- TN



informed by the competent authority vide Rc.No. 90IMines/2023, dated: 02.05.2023 and it has been noted that

- iii. The District Collector has not granted 'No Mining Dues Certificate' for the above lease.
  - iv. Latest Review of Mining Plan was approved by IBM vide letter no. TN/DGL/LST/ROMP-1653-MDS, Dated: 21.06.2021 as the lease is fit for extension of validity.
3. There were no mining activities carried out in the Pit.
  4. Fencing has been made and security guard was available.
  5. There are few habitations within 300-meter radius area from the mining lease boundary.
  6. The PP have got Approved Mining Plan from IBM for the Project from time to time without any break with sending the draft copy of the Mining Plan well in advance to the competent authority.
  7. Rain water accumulated in part of bottom bench of Pit is noticed.
  8. During Violation Period, mechanised systematic mining activities, wet-drilling and controlled blasting were carried out in the Lease.
  9. The waste rocks generated during mining was dumped within the mining lease area. The abandoned part of waste dumps outside mining lease area was found with adequate natural vegetation.
  10. No Ground Water-table intersection or seepage was noticed in the existing benches.
  11. The transportation of mineral was carried out through village road (even during the Violation Period). PP informed there were few habitations then along the road since beginning of mine. However, habitations developed near to road in few areas in recent past was observed.
  12. Green Belt was developed along the periphery of Mine Pits including in Safety Barriers.
  13. Garland Drains are provided along the periphery but its maintenance has to be enhanced after the commencement of mining operations.
  14. Additional plantation as per the proposals given in EIA shall be developed.

15. No extensive Mineral exploration activities were subsequently carried out by the proponent to prove the existence of Limestone beyond the current Mining Plan depth.
16. No Hydrogeology study was carried out to determine the environmental effects due to limestone mining.
17. The PP have shown the avenue plantation activities are being currently carried out outside the mine lease along the haul roads leading to the villages.
18. The PP have informed that the pit / mine water is basically an accumulation of seasonal rain water and it is being used exclusively for the mine related activities such dust control, etc and mine water will be pumped outside the lease area after proper treatment for surrounding agricultural activities.
19. The PP have shown the Sub-Committee in surrounding the mine lease on the agricultural activities being carried out in the surrounding villages through well-water irrigation which justifies that the ground water table is not being affected by the mining activities.
20. The PP have also shown the Sub-Committee regarding the greenbelt development activities implemented in the past in inactive areas and exposed the proposed plantation activities in the berm of existing quarry.

The Sub-Committee have carefully examined all the replies furnished by the PP during the discussions and satisfied with the responses furnished by the PP.

#### **STATUS OF MINING OPERATION**

The mining activities were stopped from 10.01.2017 and there was no production from this Mine since then.

#### **PENALTY FOR VIOLATION**

M/s. Sivam Mines has received Demand Notice from the District Collector, Trichy for 100% cost of Mineral value of Limestone quantity of 4,600 Tonnes produced without EC vide Rc. No. 618/2019(Mines) dated 06.08.2019 for 8,11,200/-. Sivam Mines Not remitted the amount to Department of Geology and Mining.

#### **DAMAGE COST CALCULATION**

Based on the inspection of the project site and other documents furnished by project proponent, M/s. Sivam Mines, SEAC Sub-Committee recommends the following

  
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SEAC- TN

Estimation made towards the Ecological remediation cost, Natural resources augmentation cost and Community resources augmentation cost under violation category for the concerned Limestone Mine covering mining lease vide G.O.Ms.No.03 over an extent of 0.94.5 Ha in Sirugudi Village, Natham Taluk, Dindigul District, following the SEAC Guidelines after discussing the following related legal provisions made from time to time by various agencies/courts.

**SUB-COMMITTEE RECOMMENDATIONS:**

As the Proposal falls in Low Level Ecological Damage and EMP measures were in place during the Violation Period, the Sub-Committee is of the opinion that the higher Environmental Compensation value has been arrived based on the CPCB Guidelines is Rs. 10,26,000/- which is higher than the other Environmental Compensation estimated values of Rs. 75,000/- based on the revised EIA Model (as proposed by the Proponent) and Rs. 1,13,400/- arrived on SEAC-TN model. Therefore, the value of Rs. 10,26,000/- shall be compensated for Ecological Remediation, Natural Resource Augmentation and Community Resource Augmentation Plans in accordance with the MoEF & CC Guidelines accordingly.

Sl. No.	Activity Proposed	Total, Rs.
1	Cost of Ecological Damage Remediation Plan	5,00,000
2	Natural Resource Augmentation Plan	2,50,000
3	Community Resource Augmentation Plan	2,76,000
<b>Grand Total</b>		<b>10,26,000</b>


The Project Cost is Rs.80 Lakhs. CER Budget is Rs 5,00,000/ - as accepted by the project proponent during appraisal.

**CER Budget**

As suggested by the Sub-Committee, based on the needs, the CER budget is revised and given below (during the violation period):

**CER activities for the Past Mining Operation**

S.No	Activities	Beneficiaries	Cost (Rs.)
1	Providing school uniforms and books to school children	Govt School, Sirugudi	50,000
3	Providing colour coded dustbins to school to promote recycling		10,000

  
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SEAC -TN

4	Distribution of Environmental related books		30,000
5	Plantation around the school		10,000
	Total		1,00,000

**CER activities for the proposed Mining Operation:**

S.No	Activities	Beneficiaries	Cost (Rs.in Lakhs)
1	Tree Plantation	Govt HSS School, Sirugudi	0.50
2	Toilet Renovation & Maintenance		2.50
3	Class rooms repairing, tiles work		2.00
	Total		5.00

**STATUTORY PROCEDURES TO BE FOLLOWED:**


1. The Bank Guarantee for Rs. 10,26,000/- must be given to TNPCB for successful implementation of the Schemes in a period of two years. The Bank Guarantee will be released after successful implementation of the Remediation Plan and Natural and Community Resource Augmentation Plan.
2. CER fund of Rs.1,00,000/- has to be spent by M/s. Sivam Mines directly and receipt has to be produced to SEAC/SEIAA-TN.
3. Credible Action under Section 19 of the E(P) Act shall also be complied for awarding the EC.

**RECOMMENDATIONS**

SEAC carefully examined the proposal and the remarks and the recommendations made by the Sub-Committee. The SEAC have observed that the Mining of Limestone in an extent of 1.70.0 Ha for Environmental Clearance under violation comes under the "Low level Ecological damage category" as per the SEAC Violation norms. Hence, the SEAC decided to recommend grant of Environmental Clearance for Mining of Limestone in an extent of 0.94.5 Ha (G.O. No. 3) of M/s. Sivam Mines may be recommended for the Annual Peak Production Capacity of not exceeding 4290 tonnes of ROM for the life of the project subject to the following conditions in addition to the normal 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

  
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CHAIRMAN  
SEAC- TN

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 amount prescribed for Ecological remediation (Rs. 5.00 Lakhs), natural resource augmentation (Rs. 2.50 lakhs) & community resource augmentation (Rs. 2.76 Lakhs), totaling Rs. 10.26 Lakhs. Hence the SEAC decided to direct the project proponent to remit the amount of Rs. 10.26 Lakhs in the form of bank guarantee to Tamil Nadu Pollution Control Board and submit the acknowledgement of the same to SEIAA-TN. The funds shall be utilized for the remediation plan, Natural resource augmentation plan & Community resource augmentation plan as indicated in the EIA/EMP report.
3. The project proponent shall carry out the works assigned under ecological damage, natural resource augmentation and community resource augmentation within a period of two years. If not, the bank guarantee will be forfeited to TNPCB without further notice.
4. The amount committed by the Project proponent for CER activities for the violation period (Rs. 1.00 lakhs) shall be remitted in the form of DD to the beneficiary for the activities as committed by the proponent. A copy of receipt from the beneficiary shall be submitted to SEIAA-TN before grant of the EC.
5. Further, the PP shall allocate the budget of Rs. 5,00,000/= as CER activities to cater the needs in the nearby Government school for the proposed mining operations and it shall be spent within a period of one year after the execution of lease deed. A copy of receipt from the beneficiary shall be submitted to the concerned DEE/TNPCB and the SEIAA.
6. The project proponent shall submit the proof for the action taken by the state Government/TNPCB against project proponent under the provisions of Section 19 of the Environment (Protection) Ac. 1986 as per the EIA Notification dated: 14.03.2017 and amended 08.03.2018.
7. The PP shall produce the 'No Dues Certificate' obtained from the State Government i.e. Department of Geology & Mining to the SEIAA before grant of EC, if already not produced.

  
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CHAIRMAN  
SEAC- TN

8. The PP shall send the 'Notice of Opening' to the Director of Mines Safety/Regional Inspector of Mines, DGMS/Chennai Region within 30 days after the execution of the lease deed.
9. The proposed action plan for green belt development shall be maintained in the dumps and haul roads of the overall project area.
10. As discussed with the Sub-Committee during the inspection, Bio remediation using microorganisms shall be carried out at the end of the mining to restore the soil environment to enable **carbon sequestration**.
11. The PP shall install the Environmental Management Cell headed by the statutory Mines Manager of the concerned mine under violation category and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
12. The PP shall carry out the scientific studies to assess the slope stability of the quarry wall benches and the stability of the waste dumps with prescribing the **necessary stabilization measures** within one year of the commencement of the mining operations, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Nagpur, NIRM-Bangaluru, IIT Madras – Division of Geotechnical Engineering, 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.
13. Within one year from the commencement of mining operations, the PP shall carry out the scientific studies comprising all the operating leases located in a cluster situation, on '**Optimisation of Controlled Blast Techniques** for reducing the cumulative impact of blast-induced ground & air vibrations and flyrock caused due to the blasting operations' using of both NONEL and Electronic initiation systems to evaluate its performance for the implementation, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining and Fuel Research / Nagpur, NIRM-Bangaluru, NIT-

Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus shall be carried out before the commencement of mining operations. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.

14. The PP shall carry out the **comprehensive hydrogeological studies** within a period of two years from the commencement of the mining operations to assess the quality & quantity of the ground water due to impacts of quarrying operation by involving anyone of the reputed Research and Academic Institution such as CSIR-Central Institute of Mining and Fuel Research / Dhanbad, NIRM-Bangaluru, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, Anna University Chennai-Dept of Geology, CEG Campus, and University of Madras - Centre for Environmental Sciences (CES), Chennai. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and DMS, Chennai as a part of Environmental Compliance.
15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF& CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
16. The Project Proponent shall send a copy of the clearance letter marked to concerned Panchayat from whom any suggestion/representation has been received while processing the proposal.
17. As per the MoEF & CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished for the life of the project.
18. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

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## 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.



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.

### 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.

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 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 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, 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.
- 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 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.
- 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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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.

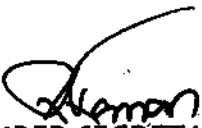
  
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## TERMS OF REFERENCE (ToR) FOR GRANITE / ROUGH STONE QUARRY

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 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.
4. 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.

5. 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.
6. 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.
7. 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.
8. 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.
9. 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,
10. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
11. 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.

  
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12. 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).
13. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc.,
14. 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.
15. 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.
16. 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.
17. 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.



18. 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.
19. 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.
20. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
21. 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.
22. 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.
23. 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.
24. 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.

25. Impact on local transport infrastructure due to the Project should be indicated.
26. 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.
27. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
28. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
29. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
30. Taller/one year old Saplings raised in appropriate size of bags, preferably 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
31. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
32. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.

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

## 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

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.
  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).
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.
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.

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 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.
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.

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

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



40	<i>Premna mollissima</i>	Munnai	முள்ளை
41	<i>Premna serratifolia</i>	Narumunnai	நடு முள்ளை
42	<i>Premna tomentosa</i>	Malajpoovarasu	மலை பூங்க
43	<i>Prosopis cinerea</i>	Vanni maram	வள்ளி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேள்வாங்கை
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Putranjiva roxburghii</i>	Karipala	கரிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊதா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிபுற்கள் சோபுகாய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxtomia</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாள் கெட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாண்டி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேள் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூங்க
59	<i>Walsuratrifoliata</i>	valsura	வால்குரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்பூசி

Appendix -III

Display Board


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

-----சாரங்கம்

ஏங்கங்களில் குவாஜி செயல்பாடுகளுக்கான கற்றுத்தழல் அனுமதி கிறகண்ட நிபந்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEIAA/\_\_\_\_, தேதி\_\_\_\_, கற்றுத்தழல் அனுமதி \_\_\_\_\_ தேதி வரையில் செயல்படுத்தக்கூடாது உள்ளது.

பலமை பகுதி வளர்ச்சி மேம்பாட்டுக்கான ஏங்கத் திட்டம்	குவாஜியின் எல்லைகளைக் கற்றி வேலி அமைக்க வேண்டும் ஏங்கப்பள்ளத்தின் ஆழம் தராமட்டித்திலிருந்து _____ மீட்டர்க்கு கிளமம் இருக்க வேண்டும் காற்றில் மாசு ஏற்படாதவாறு ஏங்க பள்ளத்தை மேற்படுத்த வேண்டும்.
நட்புமட்டு பராமதிக்கப்பட்ட வேண்டிய மரங்கள் எண்ணிக்கை:	வாகைக்கல் செல்லும் பாதையில் மாசு ஏற்படாத அளவிற்கு தண்ணீர் முறையாக தண்ணீர் வசதிகளைக் குலமாக அமைப்பதற்கு தெரிக்க வேண்டும். இனதர்சல் அமைவைப் ஓரி மாசுபாட்டையும் குறைப்பதற்காக குவாஜியின் எல்லைகளை கற்றி அடத்திலுள்ள பலமை பகுதியை ஏற்படுத்த வேண்டும்.
ஏங்கத்தில் வெடி வைக்கும்பொழுது நிலத்திடுக்கள் ஏற்படாதவாறு மற்றும் கற்கள் பறக்காதவாறு பாதாளப் புடவாக்கககளை உண்மீப்பாக செயல்படுத்தப்பட வேண்டும்	
ஏங்கத்தில் இருந்து ஏற்படும் இனதர்சல் அமை 85 செ.மீ.யல் (85A) அளவிற்கு மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற் கொள்ள வேண்டும்.	
ஏங்க சட்ட விதிகள் 1988 கீழ் ஏங்கத்தில் உள்ள பள்ளத்திற்கு தகுந்த பாதாளப் புடவாக்க கருவிகள் வழங்குவதற்கு கைதாழமுள்ள வழிபாடு வசதிகளை செய்ய தர வேண்டும்.	
கிராம அல்லது பஞ்சாயத்து வழிபாடு வாகைக்கல் செல்லும் சாலைகளை தெடர்ந்து தங்கு பராமதிக்க வேண்டும்.	
ஏங்கப்பள்ளத்தை அடரில் உள்ள விவசாயப் பள்ளிகள் மற்றும் தீர்நிலைகள் பாதிக்கப்படக் கூடாது.	
நீர்நிலைகள் பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வகையில் நிலத்தடி நீர் தரத்தினை தெடர்ந்து கண்ணிக்க வேண்டும்.	
ஏங்கத்திலிருந்து கவிட பொருட்களை எடுத்துச் செல்லு கிராம மக்களுக்கு எந்தத் கிரமத்தினையும் ஏற்படுத்தாதவாறு பாதுகாப்பும் மற்றும் கற்றுத்தழல் பாதிக்கவாத வகையில் வாகைக்கலை இயக்க வேண்டும்.	
ஏங்கப்பள்ளிகள் முடிக்கப்பட்டவுடன் ஏங்க முடல் திட்டத்தில் உள்ளவாறு ஏங்கத்தினை முட வேண்டும்.	
ஏங்க நடவடிக்கககளை முடித்தபின்னர் ஏங்கப் பகுதி மற்றும் ஏங்க நடவடிக்கககளை இடைபுறு ஏற்படக்கூடிய வேறு எந்தப் பகுதியையும் மறுகட்டுமானம் செய்ய தாவாய்கல் விவங்குகல் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பலமைப்பகுதியை உருவாக்க வேண்டும்.	
முழுமையான நிபந்தனைகளை அறிப பாதிவேல் ( <a href="http://parish.in">http://parish.in</a> ) க்க்கிற இணையதளத்தைப் பார்க்கவிரிவுப் மேலும் கற்றகிற கற்றுத்தழல் சாத்த பளர்களுக்கு சென்னைவில் உள்ள கற்றுத்தழல் மற்றும் வள அமைக்கத்தின் ஒருக்கிணைத்த வட்டள அலுவலகம்: 044 - 2822325 (அல்லது) தமிருதாடு மாசு கட்டுப்பாடு வாரியத்தின் மாசுட்ட கற்றுத்தழல் செயலியணை அலுவலகம்	

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MEMBER SECRETARY  
SEAC - TN

  
CHAIRMAN  
SEAC - TN