

**State Expert Appraisal Committee (SEAC)**

Minutes of 400<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 11.08.2023 (Friday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Mining Projects.

**Confirmation of Earlier Minutes**

**The minutes of the 399<sup>th</sup> SEAC meeting held on 10.08.2023 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minute.**

**Agenda No: 400-01**

**(File No: 9134/2022)**

**Proposed Rough Stone, Jelly & Gravel quarry lease over an extent of 1.28.5 Ha at SF.Nos. 207/3A, 3B, 209/1A,1B, 210/1A1, 1A2, 1A3 & 211/3A1, 3A2 of Appayanaickenpatti Village, Vembakottai Taluk, Virudhunagar District Tamil Nadu by Thiru.S.Ramraj - for Environmental Clearance. (SIA/TN/MIN/429771/2023, Dated:22.05.2023)**

The proposal was placed in 400<sup>th</sup> meeting of SEAC held on 11.08.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).


The SEAC noted the following

1. The Project Proponent, Thiru. S.Ramraj has applied for Environmental Clearance for the proposed Rough Stone , Jelly & Gravel quarry lease over an extent of 1.28.5 Ha at SF.Nos.207/3A, 3B, 209/1A,1B, 210/1A1, 1A2, 1A3 & 211/3A1, 3A2 of Appayanaickenpatti Village, Vembakottai Taluk, Virudhunagar 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.

Based on the presentation & documents furnished by the PP, the SEAC noted the following:

1. An educational institution, namely, PSR Engineering College, with 5800 Nos. of students & 500 teachers, is located very close (within 500m) to the proposed quarry. Further, 1800 students are staying in the college hostel.

  
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2. It is also noted that based on the Writ Petitions filed in the Hon'ble High Court against operation of mines in the area, the Hon'ble High Court had appointed an Advocate Commissioner to inspect the site and give a report. The Commission appointed by the Court had inspected site and submitted detailed report to the Court stating, among others, that "...The staff of the college and the counsel for the college had shown several broken window glass panes and shown cracks in several buildings but without expertise and assistance of a structural engineer and other experts to gauge the effect of explosion and it's impact on the buildings it is not possible for me say anything on the subject, however on 09.07.2021 we could hear explosive noise between 5 pm to 6 pm while inspecting near the workshop building in PSR Engineering College".
3. There are considerable number of structures located nearby.
4. Besides, the proposed site is also surrounded by the presence of fireworks and Vaippar River.
5. The proposed mining activity involves blasting.

Hence, considering the above facts, the Committee decided not to recommend the proposal.

Agenda No: 400-02

(File No: 9295/2022)

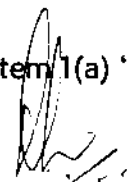
Proposed Rough Stone quarry lease over an extent of 2.00.0Ha at SF.No. 755(Part) of Panchakshipuram Village, Hosur Taluk, Krishnagiri District Tamil Nadu by Thiru.S.M.Harish - for Environmental Clearance. (SIA/TN/MIN/436536/2023, Dated: 13.07.2023)

The proposal was placed in 400<sup>th</sup> meeting of SEAC held on 11.08.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, Thiru.S.M.Harish has applied for Environmental Clearance for the proposed Rough Stone quarry lease over an extent of 2.00.0Ha at SF.No. 755(Part) of Panchakshipuram Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining

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

File No	9295/2022		Category	B1
	SIA/TN/MIN/436536/2023, Dated:13.07.2023			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru.S.M.Harish S/o. Muniraj D.No. 2/159, H-Settipalli J. Karupalli Post Denkanikottai Krishnagiri District	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone	
3.	S.F Nos. of the quarry site with area break-up	:	755(Part)	
4.	Village in which situated	:	Panchakshipuram	
5.	Taluk in which situated	:	Hosur	
6.	District in which situated	:	Krishnagiri	
7.	Extent of quarry (in ha.)	:	2.00.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°35' 17.41"N to 12°35'14.55"N 77°47'45.28"E to 77°47'40.35"E	
9.	Topo Sheet No.	:	57-H/14	
10.	Type of mining	:	Opencast semi-mechanized mining	
11.	Life of Project	:	10 years	
	Lease Period	:	10 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC

  
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		Rough Stone	Topsoil
	Geological Resources m <sup>3</sup>	: 9,06,756m <sup>3</sup>	19,374m <sup>3</sup>
	Minable Resources m <sup>3</sup>	: 3,21,022m <sup>3</sup>	17,964m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	: 1,54,414m <sup>3</sup>	19,374m <sup>3</sup>
	Ultimate Depth in meters	: 50m (9m AGL + 41m BGL)	
13.	Depth of water table	: 65m BGL	
14.	Man Power requirement per day:	: 18 Employees	
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	2.0 KLD 1.0 KLD : - 0.5 KLD 0.5 KLD	
16.	Power requirement	TNEB 410611 liters of HSD for the entire period of life	
17.	Precise area communication approved by the District collector, Department of G&M.	: Roc.No. 214/2019/mines, dated:13.06.2019	
18.	Mining Plan approved by Assistant director (Addl.charge), Department of G&M.	: Roc.No. 214/2019/mines, dated:11.11.2019	
19.	500m Cluster Letter approved by Assistant director (Addl.charge), Department of G&M.	: Roc.No. 214/2019/mines, dated:11.11.2019	
20.	VAO Certificate Regarding Structures within 300m Radius	: Letter dated:20.01.2022	
21.	Project Cost (excluding EMP cost)	: Rs.1,83,20,000/-	


  
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22.	EC Recommendation	: Validity	30 years subject to the following upper limits.	
			Rough Stone	Topsoil
		: Max Total in m <sup>3</sup>	3,08,472m <sup>3</sup>	17,964m <sup>3</sup>
		: Annual Max in m <sup>3</sup>	78,513m <sup>3</sup>	17,964m <sup>3</sup>
		: Max Depth in mtrs	46m	
23.	EMP cost (in Rs. Lakh).	: Rs.244.94 Lakhs		
24.	CER cost (in Rs. Lakh).	: Rs.5 Lakhs		
25.	EIA report submitted on	: Dated: 20.04.2023		
26.	ToR details	: Lr.No:SEIAA-TN/F.No.9295/SEAC/ToR-1241/2022, Dated: 29.08.2022.		
27.	Public hearing details	: Public hearing conducted on Dated:04.05.2023.		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 78,513m<sup>3</sup> of Rough stone by maintaining the ultimate depth of mining of 46m BGL, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

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

  
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- 2) The PP shall conserve the topsoil quantity of 17,964m<sup>3</sup> as estimated in the Approved Mining Plan for the utilization of greenbelt development only within the mine leasehold area which shall be distinctly shown in the proper records/registers maintained for the purposes.
- 3) Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to 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.
- 4) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 5) As a part of Ground Water Management, the PP shall carry out the scientific studies to assess the existing hydrogeological condition and impacts of the quarrying operation on the ground water level present in the core zone, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of

Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 6) As committed by the Project Proponent, the following activities will be completed before the commencement of quarrying operations in the school for the CER cost of Rs.5 lakh:

<b>CER Activities</b>	<b>Cost (Rs.)</b>
<b>Provision of Plumbing Work, Wash Basin, Environmental awareness books in Library for Students, Green belt development and Toilet rooms in Panchayath Union Middle School, J. Karupalli</b>	<b>5,00,000/-</b>
<b>Total</b>	<b>5,00,000/-</b>

Agenda No: 400-03

(File No: 9372/2022)

Proposed Rough Stone & Gravel quarry lease over an extent of 1.58.0Ha at SF.No. 151/1E(Part) of Arasampalayam Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Thiru. C.Ganesh - for Environmental Clearance. (SIA/TN/MIN/434160/2023, Dated:21.06.2023)

The proposal was placed in 400<sup>th</sup> meeting of SEAC held on 11.08.2023. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following

1. The Project Proponent, Thiru. C.Ganesh has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 1.58.0Ha at SF.No.151/1E(Part) of Arasampalayam Village, Kinathukadavu Taluk, Coimbatore 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.

  
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File No	9372/2022		Category	B1
	SIA/TN/MIN/434160/2023, Dated:21.06.2023			
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. C.Ganesh S/o. Chinnasamy No.28/2, Angammal Layout R.S. Puram Coimbatore - 641003	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone & Gravel	
3.	S.F Nos. of the quarry site with area break-up	:	151/1E(Part)	
4.	Village in which situated	:	Arasampalayam	
5.	Taluk in which situated	:	Kinathukadavu	
6.	District in which situated	:	Coimbatore	
7.	Extent of quarry (in ha.)	:	1.58.0Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	10°52' 21.04"N to 10°52'28.22"N 77°02'35.98"E to 77°02'38.95"E	
9.	Topo Sheet No.	:	58-F/01	
10.	Type of mining	:	Opencast mechanized 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	As modified by SEAC
		:	Rough Stone	Gravel
	Geological Resources m <sup>3</sup>	:	4,01,432m <sup>3</sup>	168m <sup>3</sup>



	Minable Resources m <sup>3</sup>	:	1,03,186m <sup>3</sup>	-
	Annual Peak Production in m <sup>3</sup>	:	22,716m <sup>3</sup>	-
	Ultimate Depth in meters	:	47m BGL	
13.	Depth of water table	:	70m in summer season - 65m in Rainy season	
14.	Man Power requirement per day:	:	16 Employees	
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	1.7 KLD 0.3 KLD - 1.0 KLD 0.4 KLD	
16.	Power requirement	:	TNEB 82544 liters of HSD will be utilized for Rough stone	
17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Na.Ka.No. 500/Kanimam/2020, dated:12.05.2022	
18.	Mining Plan approved by Assistant director, Department of G&M.	:	Rc.No. 500/Mines/2020, dated:08.06.2022	
19.	500m Cluster Letter approved by Assistant Director, Department of G&M,	:	Rc.No. 500/Mines/2020, dated:08.06.2022	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated:20.05.2022	
21.	Project Cost (excluding EMP cost)	:	Rs.30,29,000/-	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits. Rough Stone      Gravel

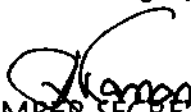
  
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		: Max Total in m <sup>3</sup>	84,610m <sup>3</sup>	-
		: Annual Max in m <sup>3</sup>	19,314m <sup>3</sup>	-
		: Ultimate Depth in mtrs	42m BGL	
23.	EMP cost (in Rs. Lakh).	: Rs.96 Lakhs		
24.	CER cost (in Rs. Lakh).	: Rs.5 Lakhs		
25.	EIA report submitted on	: Dated: 23.06.2023		
26.	ToR details	: Lr.No:SEIAA-TN/F.No.9372/SEAC/ToR-1287/2022, Dated: 08.10.2022.		
27.	Public hearing details	: Public hearing conducted on Dated:07.02.2023.		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 19,314m<sup>3</sup> of Rough stone by maintaining the ultimate depth of mining of 42m BGL, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of

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

- 3) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies to assess the slope stability of the benches and quarry wall when the depth of the quarry touches 30 m (or) after the completion of 3 years of operation whichever is earlier, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 4) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 5) As accepted by the Project Proponent the CER cost of Rs.5 lakh and the amount shall be spent for the committed activities at Government Higher Secondary School, Arasampalayam, Coimbatore before obtaining CTO from TNPCB.

  
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Agenda No: 400-04

(File No: 8967/2022)

Proposed Rough Stone and Gravel quarry lease area over an extent of 0.99.0 Ha at S.F.Nos. 361/1A & 362/1 of Arasampalayam Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Tmt. M. Rasamani - For Environmental Clearance. (SIA/TN/MIN/434424/2023, Dated: 23.06.2023)

The proposal was placed for appraisal in this 400<sup>th</sup> meeting of SEAC held on 11.08.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Tmt. M. Rasamani has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease area over an extent of 0.99.0 Ha at S.F.Nos. 361/1A & 362/1 of Arasampalayam Village, Kinathukadavu Taluk, Coimbatore 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.
3. As per the precise area communication letter, the lease period is 5 years and mine plan period is 5 years. As per the approved mine plan, the annual peak production shall not exceed 14225 m<sup>3</sup> of Rough Stone for an ultimate depth of 41.5m below ground level.
4. Earlier, EC was accorded to the proponent vide Lr. No.SEIAA-TN/F.No.3649/1(a)/EC.No:2852/2015 dated:15.02.2016 for the quantity of 43730 cu.m of Rough Stone & 1346 cu.m of Gravel upto a depth of 26.5m.
5. CCR obtained from IRO(SEZ), MoEF&CC vide E.P./12.1/2023-24/SEIAA/42/TN/841 Dt:11.07.2023.
6. ToR along with Public Hearing issued vide Lr No.SEIAA-TN/F.No.8967/SEAC/ToR-1132/2021 Dated: 25.03.2022.
7. Earlier in the ToR issued, production should not exceed 68,150 m<sup>3</sup> of Rough Stone with an ultimate depth of 41.5m below ground level.
8. Public hearing conducted on 07.02.2023
9. EIA Report submitted on 07.07.2023
10. The salient features of the proposal are as follows:

  
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File No	8967 / 2022	Category	B / 1(a)								
Sl. No	Salient Features of the Proposal										
1	Name of the Owner/Firm	:	Tmt. M. Rasamani, W/o. K. Marimuthu, Karachery, Periyakuyilai Post, Chettipalayam Via, Coimbatore District - 641 201.								
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel								
3	S.F Nos. of the quarry site with area break-up	:	361/1A & 362/1								
4	Village in which situated	:	Arasampalayam								
5	Taluk in which situated	:	Kinathukadavu								
6	District in which situated	:	Coimbatore								
7	Extent of quarry (in ha.)	:	0.99.0 Ha								
8	Latitude & Longitude of all corners of the quarry site	:	10°52'28.50"N to 10°52'35.38"N 77°02'38.39"E to 77°02'42.13"E								
9	Topo Sheet No.	:	58 – F/01								
10	Type of mining	:	Opencast Mechanized 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	As modified by SEAC							
	Geological Resources m <sup>3</sup> (RoM)	:	<table border="1"> <thead> <tr> <th>Rough Stone</th> <th>Gravel</th> <th>Rough Stone</th> <th>Gravel</th> </tr> </thead> <tbody> <tr> <td>1,86,044 m<sup>3</sup></td> <td>6 m<sup>3</sup></td> <td>-</td> <td>-</td> </tr> </tbody> </table>	Rough Stone	Gravel	Rough Stone	Gravel	1,86,044 m <sup>3</sup>	6 m <sup>3</sup>	-	-
Rough Stone	Gravel	Rough Stone	Gravel								
1,86,044 m <sup>3</sup>	6 m <sup>3</sup>	-	-								

	Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
			68,150 m <sup>3</sup>	-	50,380 m <sup>3</sup>	-
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone	Gravel	Rough Stone	Gravel
			14,225 m <sup>3</sup>	-	12,000 m <sup>3</sup>	-
	Ultimate Depth in meters	:	41.5m bgl		-	
13	Depth of water table	:	70m-65m bgl			
14	Man Power requirement per day:	:	14 Nos.			
15	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	2.3 KLD 0.5 KLD - 1.0 KLD 0.8 KLD			
16	Power requirement	:	54,528 Liters of HSD			
17	Precise area communication approved by Assistant Director, Department of G&M.	:	Na.Ka.No.812/Kanimam/2021, Dated:29.10.2021			
18	Mining Plan approved by Assistant Director, Department of G&M.	:	Rc.No.812/Mines/2021, Dated:29.11.2021			
19	Department of G&M, Assistant Director 500m Cluster Letter	:	Rc.No.812/Mines/2021, Dated:29.11.2021			
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 29.11.2021			
21	Project Cost (excluding EMP cost)	:	Rs. 28,40,000/-			

22	EC Recommendation	:	Validity	30 years subject to the following upper limits.		
				Rough Stone	Gravel	
		:	Max Total RoM in m <sup>3</sup>	50,380 m <sup>3</sup>	-	
		:	Annual Max RoM in m <sup>3</sup>	12,000 m <sup>3</sup>	-	
		:	Max Depth in mtrs	41.5m bgl		
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 20,03,300/- Recurring Cost – Rs. 11,95,918/-			
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 not exceeding 12000m<sup>3</sup> of Rough Stone by maintaining the ultimate depth of mining up to 41.5m 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 complete the process of amalgamation coordinating with the PPs of all the other leases in the cluster to work as a single lease in accordance with the provisions of Mineral Concession Rules, 1960 and MM (D&R) Act, 1957, for ensuring the environmental sustainability.
3. Considering the quarrying operations in the cluster environment, the PP shall inform the Regional Inspector of Mines / Director of Mines Safety, DGMS-Chennai Region

  
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for appointing statutory competent persons as applicable and permitted in accordance with the Mines Act, 1952 before the execution of lease.

4. The PP shall not adopt the 'Deep-hole large diameter drilling and blasting' without obtaining the prior permission obtained from the Director of Mines Safety, DGMS-Chennai Region.
5. The PP shall furnish a Standard Operating Procedures (SoP) for handling the explosives and carrying out the blasting operations in the cluster environment following the provisions of MMR 1961 and the relevant Circulars issued by the DGMS to the concerned AD (Mines) at the time of execution of lease.
6. Considering the cluster environment, the PP shall carry out 50% of the blasting operations through usage of the digital detonators (electronic detonators) for precise timed delay in the blasting to reduce the environmental hazards such as ground vibration, noise, flyrock and to improve the fragmentation resulting in eliminating the production of oversized fragments (boulders) by involving the reputed institutes such as Central Institute of Mining & Fuel Research / Nagpur, Dept of Mining Engg., NIT Surathkal and Dept of Mining Engg., Anna University, Chennai.
7. Keeping the cluster environment in mind, the PP shall carry out the scientific studies to assess the impact of quarrying operations in the cluster environment on the hydrogeological condition of the area of 5 km radius, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
8. For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies coordinating with the PPs of other mines in the cluster to assess the slope stability of the benches and quarry wall after the completion of amalgamation

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

9. 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 the Panchayat Union Primary School, Arasampalayam, Coimbatore District, before obtaining CTO from TNPCB.

**Agenda No: 400-05**

**(File No: 9107/2022)**

**Proposed Rough Stone and Gravel quarry lease area over an extent of 1.43.0 Ha at S.F.Nos. 360/1B(P), 360/1E(P) & 360/1G of Arasampalayam Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Thiru. V. Somasundaram - For Environmental Clearance. (SIA/TN/MIN/435036/2023, Dated: 29.06.2023)**

The proposal was placed for appraisal in this 400<sup>th</sup> meeting of SEAC held on 11.08.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). **The SEAC noted the following:**

1. The project proponent, Thiru. V. Somasundaram has applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease area over an extent of 1.43.0 Ha at S.F.Nos. 360/1B(P), 360/1E(P) & 360/1G of Arasampalayam Village, Kinathukadavu Taluk, Coimbatore 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.
3. As per the precise area communication letter, the lease period is 5 years and mine plan period is 5 years. As per the approved mine plan, the annual peak production shall not exceed 10345 m<sup>3</sup> of Rough Stone (5<sup>th</sup> year) and 1350 m<sup>3</sup> of Gravel (1<sup>st</sup> year) for an ultimate depth of 32m below ground level.
4. Earlier, EC was accorded to the proponent vide Lr. No.SEIAA-TN/F.No.5439/1(a)/EC.No:3546/2016 dated: 10.08.2016 for the quantity of 24410 cu.m of Rough stone & 105 cu.m of Gravel upto a depth of 28m.

  
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5. CCR obtained from IRO(SEZ), MoEF&CC vide E.P./12.1/2022-23/SEIAA/52/TN/678 Dt:29.06.2022.
6. ToR along with Public Hearing issued vide Lr No.SEIAA-TN/F.No.9107/SEAC/ToR-1296/2022 Dated: 27.10.2022.
7. Public hearing conducted on 07.02.2023
8. EIA Report submitted on 30.06.2023
9. The salient features of the proposal are as follows:

File No	9107 / 2022	Category	B / 1(a)
Sl. No	Salient Features of the Proposal		
1	Name of the Owner/Firm	:	Thiru. V. Somasundaram, S/o. Velusamy, No.7/73, Karachery, Arasampalayam Village, Kinathukadavu Taluk, Coimbatore District - 641 201.
2	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel
3	S.F Nos. of the quarry site with area break-up	:	360/1B(P), 360/1E(P) & 360/1G
4	Village in which situated	:	Arasampalayam
5	Taluk in which situated	:	Kinathukadavu
6	District in which situated	:	Coimbatore
7	Extent of quarry (in ha.)	:	1.43.0 Ha
8	Latitude & Longitude of all corners of the quarry site	:	10°52'34.60"N to 10°52'39.50"N 77°02'50.32"E to 77°02'55.12"E
9	Topo Sheet No.	:	58 – F/01
10	Type of mining	:	Opencast Mechanized 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		As modified by SEAC	
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
		:	1,51,438 m <sup>3</sup>	2328 m <sup>3</sup>	-	-
	Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone	Gravel	Rough Stone	Gravel
		:	48,923 m <sup>3</sup>	1350 m <sup>3</sup>	46,623 m <sup>3</sup>	-
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone	Gravel	Rough Stone	Gravel
:		10,345 m <sup>3</sup>	1350 m <sup>3</sup>	10,240 m <sup>3</sup>	-	
	Ultimate Depth in meters	:	32m bgl		-	
13	Depth of water table	:	70m-65m bgl			
14	Man Power requirement per day:	:	14 Nos.			
15	Water requirement:	:	3.0 KLD			
	1. Drinking water	:	0.6 KLD			
	2. Utilized water	:	-			
	3. Dust suppression	:	2.0 KLD			
	4. Green belt	:	0.4 KLD			
16	Power requirement	:	39,366 Liters of HSD			
17	Precise area communication approved by Assistant Director, Department of G&M.	:	Na.Ka.No.856/Kanimam/2021, dated:01.02.2022			

18	Mining Plan approved by Assistant Director, Department of G&M.	:	Rc.No.856/Mines/2021. dated:15.02.2022			
19	Department of G&M, Assistant Director 500m Cluster Letter	:	Rc.No.856/Mines/2021. dated:15.02.2022			
20	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated 12.02.2022			
21	Project Cost (excluding EMP cost)	:	Rs. 32,74,000/-			
22	EC Recommendation	:	Validity	30 years subject to the following upper limits.		
				Rough Stone	Gravel	
			:	Max Total RoM in m <sup>3</sup>	46,623 m <sup>3</sup>	1350 m <sup>3</sup>
			:	Annual Max RoM in m <sup>3</sup>	10,240 m <sup>3</sup>	1350 m <sup>3</sup>
:	Max Depth in mtrs	32m bgl				
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 21,78,100/- Recurring Cost – Rs. 12,08,030/-			
24	CER cost (in Rs. Lakh).	:	Rs. 5,00,000/-			

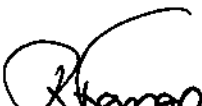
Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity not exceeding 10240m<sup>3</sup> of Rough Stone and 1350m<sup>3</sup> of Gravel by maintaining the ultimate depth of mining upto 32m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal

  
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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 complete the process of amalgamation coordinating with the PPs of all the other leases in the cluster to work as a single lease in accordance with the provisions of Mineral Concession Rules, 1960 and MM (D&R) Act, 1957, for ensuring the environmental sustainability.
3. Considering the quarrying operations in the cluster environment, the PP shall inform the Regional Inspector of Mines / Director of Mines Safety, DGMS-Chennai Region for appointing statutory competent persons as applicable and permitted in accordance with the Mines Act, 1952 before the execution of lease.
4. The PP shall not adopt the 'Deep-hole large diameter drilling and blasting' without obtaining the prior permission obtained from the Director of Mines Safety, DGMS-Chennai Region.
5. The PP shall furnish a Standard Operating Procedures (SoP) for handling the explosives and carrying out the blasting operations in the cluster environment following the provisions of MMR 1961 and the relevant Circulars issued by the DGMS to the concerned AD (Mines) at the time of execution of lease.
6. Considering the cluster environment, the PP shall carry out 50% of the blasting operations through usage of the digital detonators (electronic detonators) for precise timed delay in the blasting to reduce the environmental hazards such as ground vibration, noise, flyrock and to improve the fragmentation resulting in eliminating the production of oversized fragments (boulders) by involving the reputed institutes such as Central Institute of Mining & Fuel Research / Nagpur, Dept of Mining Engg., NIT Surathkal and Dept of Mining Engg., Anna University, Chennai.

  
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7. Keeping the cluster environment in mind, the PP shall carry out the scientific studies to assess the impact of quarrying operations in the cluster environment on the hydrogeological condition of the area of 5 km radius, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
8. For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies coordinating with the PPs of other mines in the cluster to assess the slope stability of the benches and quarry wall after the completion of amalgamation process, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, Division of Geotechnical Engineering/IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
9. 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 the Panchayat Union Primary School, Arasampalayam, Coimbatore District, before obtaining CTO from TNPCB.

Agenda No. 400 – 06.

(File No: 9393/2023)

Proposed Rough Stone and Gravel quarry lease over an extent of 4.26.72Ha at S.F.No.149/2B, 149/3A, 149/3B, 149/3C, 149/4A, 149/4B & 149/4C of Arasampalayam Village, Pollachi Taluk, Coimbatore District, Tamil Nadu by Tvl. Sree Mahalakshmi Blue Metals - For Environmental Clearance. (SIA/TN/MIN/434251/2023 Dt. 22.06.2023)

The proposal was placed in this 400<sup>th</sup> Meeting of SEAC held on 11.08.2023. The project proponent gave detailed presentation. The details of the project furnished by the

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

1. The project proponent, Tvl. Sree Mahalakshmi Blue Metals has applied for Environmental Clearance for the proposed Rough Stone and Gravel quarry lease over an extent of 4.26.72 Ha at S.F.No.149/2B, 149/3A, 149/3B, 149/3C, 149/4A, 149/4B & 149/4C of Arasampalayam Village, Pollachi Taluk, Coimbatore 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. ToR vide. Lr No. SEIAA-TN/F.No.9393/SEA C/ToR-1276/2022, Dated: 08.10.2022 for the production of 7,52,600 cu.m of Rough Stone & 61836 cu.m of Gravel and depth upto 37m.
4. Public Hearing Conducted on 07.02.2023.
5. EIA Received on 07.07.2023.
6. The precise area communication was issued for the period of 5 Years. The approved mining plan is for the period of 1<sup>st</sup> five years & production should not exceed 810600m<sup>3</sup> of Rough Stone & 61836m<sup>3</sup> of Gravel. The annual peak production is 164125m<sup>3</sup> of Rough Stone (4<sup>th</sup> Year) & 27802m<sup>3</sup> of Gravel (1<sup>st</sup> Year) The depth of mining is 42m BGL.

Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	Tvl. Sree Mahalakshmi Blue Metals (proprietor: V. Senthilkumar No. 924, Chettipalayam Madukkarai Coimbatore - 641032
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Lime stone)	Rough Stone and Gravel

  
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3.	S.F Nos. of the quarry site with area break-up	:	149/2B, 149/3A, 149/3B, 149/3C, 149/4A, 149/4B & 149/4C	
4.	Village in which situated	:	Arasampalayam	
5.	Taluk in which situated	:	Pollachi	
6.	District in which situated	:	Coimbatore	
7.	Extent of quarry (in ha.)	:	4.26.72Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	10°52'15.73"N to 10°52'22.58"N 77°02'22.96"E to 77°02'33.29"E	
9.	Topo Sheet No.	:	58 – F/01	
10.	Type of mining	:	Opencast Mechanized of Mining	
11.	Life of Project	:	5Years	
	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>	
	Mineable Resources m <sup>3</sup> (RoM)	:	1706880m <sup>3</sup>	85344m <sup>3</sup>
			Rough Stone	Gravel
	Annual Peak Production in m <sup>3</sup>	:	810600m <sup>3</sup>	61836m <sup>3</sup>
Rough Stone			Gravel	
Ultimate Depth in meters	:	164125m <sup>3</sup>	27802m <sup>3</sup>	
		42m		
13.	Depth of water table	:	70m-65m BGL	
14.	Man Power requirement per day:	:	79 Nos.	
15.	Water requirement:	:	1.5 KLD	
	1. Drinking water	:	0.3 KLD	
	2. Utilized water	:	0.7 KLD	
	3. Dust suppression	:	0.5 KLD	



	4. Green belt													
16.	Power requirement	TNEB												
17.	Precise area communication approved by the District Collector, with date	Rc.No.1241/Kanimam/2021, dt:06.05.2022												
18.	Mining Plan approved by Assistant Director, Department of Geology and Mining with date	Rc.No.1241/Mines/2021, dt:20.06.2022												
19.	Assistant Director, Department of Geology and Mining 500m cluster letter	Rc.No.1241/Mines/2021, dt:20.06.2022												
20	VAO certificate regarding 300m radius cluster	Letter dt: 17.06.2022												
21.	Project Cost (excluding EMP cost)	: Rs.170.86 Lakh												
22	EC Recommendation	1st Five Years as per approved mining plan												
		: <table border="1"> <thead> <tr> <th></th> <th>Rough Stone m<sup>3</sup></th> <th>Gravel m<sup>3</sup></th> </tr> </thead> <tbody> <tr> <td>Max Total RoM in m<sup>3</sup></td> <td>7,52,600</td> <td>61836</td> </tr> <tr> <td>Annual Max RoM in m<sup>3</sup></td> <td>164125</td> <td>27802</td> </tr> <tr> <td>Max Depth in mtrs</td> <td colspan="2">37 m</td> </tr> </tbody> </table>		Rough Stone m <sup>3</sup>	Gravel m <sup>3</sup>	Max Total RoM in m <sup>3</sup>	7,52,600	61836	Annual Max RoM in m <sup>3</sup>	164125	27802	Max Depth in mtrs	37 m	
			Rough Stone m <sup>3</sup>	Gravel m <sup>3</sup>										
		Max Total RoM in m <sup>3</sup>	7,52,600	61836										
		Annual Max RoM in m <sup>3</sup>	164125	27802										
Max Depth in mtrs	37 m													
: Max Total RoM in m <sup>3</sup>	7,52,600	61836												
: Annual Max RoM in m <sup>3</sup>	164125	27802												
: Max Depth in mtrs	37 m													
23	EMP cost (in Rs. Lakh).	: Capital Cost - Rs.42.11 Lakhs Recurring Cost - Rs. 33.68 Lakhs												


  
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		With 5% inflation for the recurring cost.
24	CER cost (in Rs. Lakh).	: Rs.15 Lakhs

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production shall not exceed 164125m<sup>3</sup> of Rough Stone & 27802 m<sup>3</sup> of Gravel by restricting the ultimate depth of mining upto 37m BGL and for the period five Years 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 complete the process of amalgamation coordinating with the PPs of all the other leases in the cluster to work as a single lease in accordance with the provisions of Mineral Concession Rules, 1960 and MM (D&R) Act, 1957, for ensuring the environmental sustainability.
- 3) Considering the quarrying operations in the cluster environment, the PP shall inform the Regional Inspector of Mines / Director of Mines Safety, DGMS-Chennai Region for appointing statutory competent persons as applicable and permitted in accordance with the Mines Act, 1952 before the execution of lease.
- 4) The PP shall not adopt the 'Deep-hole large diameter drilling and blasting' without obtaining the prior permission obtained from the Director of Mines Safety, DGMS-Chennai Region.
- 5) The PP shall furnish a Standard Operating Procedures (SoP) for handling the explosives and carrying out the blasting operations in the cluster environment following the provisions of MMR 1961 and the relevant Circulars issued by the DGMS to the concerned AD (Mines) at the time of execution of lease.

  
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- 6) Considering the cluster environment, the PP shall carry out 50% of the blasting operations through usage of the digital detonators (electronic detonators) for precise timed delay in the blasting to reduce the environmental hazards such as ground vibration, noise, flyrock and to improve the fragmentation resulting in eliminating the production of oversized fragments (boulders) by involving the reputed institutes such as Central Institute of Mining & Fuel Research / Nagpur, Dept of Mining Engg., NIT Surathkal and Dept of Mining Engg., Anna University, Chennai.
- 7) Keeping the cluster environment in mind, the PP shall carry out the scientific studies to assess the impact of quarrying operations in the cluster environment on the hydrogeological condition of the area of 5 km radius, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 8) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies coordinating with the PPs of other mines in the cluster to assess the slope stability of the benches and quarry wall after the completion of amalgamation process, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, Division of Geotechnical Engineering/IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

  
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- 9) The PP shall ensure that the provisions as stipulated in the Annexure for the existence of Reserved Forest/Reserve Land at a distance of less than 1km from the project site.
- 10) As accepted by the Project Proponent the CER cost of Rs.15 Lakhs and the amount shall be spent for the Government Higher Secondary School, Arasampalayam Village, Coimbatore District before obtaining CTO from TNPCB and Auditorium shall be built within 1 Year after obtaining CTO from TNPCB.

**Agenda No: 400 - 07**

**(File No: 9593/2023)**

**Proposed Rough Stone Quarry lease over an extent of 2.00.0Ha (Govt. Poramboke Land) S.F.No.220/1(Part-4), Gopanapalli Village, Hosur Taluk, Krishnagiri District by Thiru.J.Vijayakumar - For Environmental Clearance. (SIA/TN/MIN/433496/2023 Dt. 22.06.2022).**

The proposal was placed in this 400<sup>th</sup> Meeting of SEAC held on 11.08.2023. The project proponent gave detailed presentation. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The project proponent, Thiru. J. Vijayakumar has applied for Environmental Clearance for the proposed Rough Stone Quarry lease over an extent of 2.00.0Ha S.F.No.220/1(Part-4), 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. ToR vide. Lr No. SEIAA-TN/F.No.9593/SEAC/ToR-1334/2022 Dated: 10.02.2023 for the production of 2,57,243 cu.m of Rough Stone and depth upto 58m.
4. Public Hearing Conducted on 04.05.2023.
5. The precise area communication was issued for the period of 10 Years. The approved mining plan is for the period of 10 Years & production should not exceed 396263m<sup>3</sup> of Rough Stone & 29960m<sup>3</sup> of Topsoil. The annual peak production is 63973m<sup>3</sup> of Rough Stone & 16264m<sup>3</sup> of Topsoil. The depth of mining is 58m BGL.

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

1. The Modified Mining Plan estimating the revised Mineable reserves & Annual Production Volume after the inclusion of the bench geometry as per Regulation 106 2(b) of MMR, 1961, as committed by the PP for the total lease period of 10 years (or) the life of the project, duly approved by the concerned AD (Mines)/Competent Authority shall be furnished.

On receipt of the details sought the subject may be placed before the SEAC for further deliberations and to decide on future course of action.

**Agenda No. 400-08**

**(File No.9144/2023)**

**Proposed Rough stone and Garvel quarry over an extent of 2.51.5 Ha at S.F.Nos. 154/1B1B, 154/2A, 154/2B1, 154/3, 154/4, 154/5, 155/2A, 155/2B & 155/2C of Kundiyanthandalam Village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu by Thiru. N.Nagarajan – For Environmental Clearance (SIA/TN/MIN/429435/2023, Dated:19.05.2023).**

The proposal was placed in 400<sup>th</sup> Meeting of SEAC held on 11.08.2023. The details of the project furnished by the proponent are available in the website ([www.parivesh.nic.in](http://www.parivesh.nic.in)). The SEAC noted the following:

1. The Proponent, Thiru. N.Nagarajan, has applied for Environmental Clearance for the Proposed Rough stone and Garvel quarry over an extent of 2.51.5 Ha at S.F.Nos. 154/1B1B, 154/2A, 154/2B1, 154/3, 154/4, 154/5, 155/2A, 155/2B & 155/2C of Kundiyanthandalam Village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu.
2. The project/activity is covered under Category “B1” of Item 1(a) “Mining of Minerals Projects” of the Schedule to the EIA Notification, 2006.
3. As per the mining plan the lease period is 10 years. The mining plan is for the period of 5 years & production should not exceed 461025 cu.m. of Rough Stone and 38724 cu.m. of Gravel. The ultimate depth - 47 m.
4. ToR issued vide Lr.No.SEIAA-TN/F.No.9144/SEAC/ToR-1245/2022 Dated:07.09.2022.

  
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5. Earlier in the ToR issued, the depth was restricted to 42m.
6. Minutes of Public Hearing Conducted on 23.02.2023.
7. EIA Report Submitted on 22.05.2023.
8. The salient features of the proposed project as follows,


File No	9144		Category	1(a) – B1
	Online Proposal: SIA/TN/MIN/429435/2023, Dated:19.05.2023			EC
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. N.Nagarajan. No. H24/F,Manthoppu Colony, 8th Avenue, Ashok Nagar, Chennai - 600 083.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Lime stone)	:	Rough Stone and gravel	
3.	S.F Nos. of the quarry site with area break-up	:	154/1B1B, 154/2A, 154/2B1, 154/3, 154/4, 154/5, 155/2A, 155/2B & 155/2C	
4.	Village in which situated	:	Kundiyanthandalam	
5.	Taluk in which situated	:	Vembakkam	
6.	District in which situated	:	Tiruvannamalai	
7.	Extent of quarry (in ha.)	:	2.51.5 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°44' 19.79"N to 12°44'26.97"N 79°43'15.24"E to 79°43'20.47"E	
9.	Topo Sheet No.	:	57-P/10	
10.	Type of mining	:	Opencast semi-Mechanized mining	
11.	Life of Project	:	10 years	
	Lease Period	:	10 years	
	Mining Plan Period	:	05 years	

	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
12.	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone- 11,30,085 m <sup>3</sup>	Rough Stone- 11,30,085 m <sup>3</sup>
			Gravel 50,226 m <sup>3</sup>	Gravel 50,226 m <sup>3</sup>
	Mirable Resources m <sup>3</sup> (RoM)	:	Rough Stone - 4,61,025 m <sup>3</sup>	Rough Stone - 4,61,025 m <sup>3</sup>
			Gravel 38,724 m <sup>3</sup>	Gravel 38,724 m <sup>3</sup>
	Annual Peak Production in m3	:	Rough Stone - 93235 m <sup>3</sup>	Rough Stone - 93235 m <sup>3</sup>
			Gravel 20708 m <sup>3</sup>	Gravel 20708 m <sup>3</sup>
Ultimate Depth in meters	:	47m BGL	42m BGL	
13.	Depth of water table	:	60m	
14.	Man Power requirement per day:	:	24 Nos.	
15.	Water requirement:		3.0 KLD	
	1. Drinking water		2.0 KLD	
	2. Dust suppression		0.5 KLD	
	3. Green belt		0.5KLD	
16.	Power requirement		TNEB	
17.	Precise area communication approved by the Deputy Director, Department of G&M Mines	:	Rc.No.1046/kanimam/2021, dated:03.03.2022	
	Mining Plan approved by Deputy Director, Department of G&M Mines	:	Rc.No. 1046/kanimam/2021, dated:10.03.2022	

19.	Deputy Director, Department of G&M Mines 500m Cluster Letter	Rc.No. 1046/kanimam/2021, dated:10.03.2022		
20.	VAO Certificate Regarding Structures within 300m Radius	28.12.2021		
21.	Project Cost (excluding EMP cost)	: Rs. 79,26,000/-		
22.	EC Recommendation	: Validity	30 years subject to the following upper limits.	
			Rough Stone	Gravel
		: Max Total RoM in m <sup>3</sup>	4,44,630 m <sup>3</sup>	38724 m <sup>3</sup>
		: Annual Max RoM in m <sup>3</sup>	93235 m <sup>3</sup>	20708 m <sup>3</sup>
		: Max Depth in mtrs	42m BGL	
23.	EMP cost (in Rs. Lakh).	: Capital –Rs. 25.9 Lakhs : Recurring-Rs.23.60 Lakhs/annum Recurring For 10 years –Rs. 313.50 Lakhs		
24.	CER cost (in Rs. Lakh).	: Rs. 5,00,000 /- as accepted by the PP		
25.	Tor Issued	Lr.No.SEIAA-TN/F.No.9144/SEAC/ToR-1245/2022 Dated:07.09.2022.		
26.	Public Hearing	23.02.2023		
27.	EIA Report Submitted	22.05.2023		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 93235 m<sup>3</sup> of rough stone & 20708 m<sup>3</sup> of Gravel by maintaining the ultimate depth of mining up to 42m BGL and subject

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

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The proponent shall develop fencing around the abandoned pit operated earlier by the same PP, situated near the proposed project area in order to ensure safety before the execution of the lease.
3. Since the structures are situated within a radial distance of 500 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
4. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
5. Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of six months from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical

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

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, Kundiyanthandalam Village before obtaining CTO from TNPCB.


**Agenda No: 400-09**

**(File No: 8963/2023)**

**Proposed Rough stone & gravel quarry lease over an extent of 4.80.0 Ha in S.F.No. 420/1(P) & 421/1(P) of Perungudi Part-1 Village, Radhapuram Taluk, Tirunelveli District, Tamil Nadu by M/s. Panchamee Engineering Construction - For Environment Clearance. (SIA/TN/MIN/434786/2023, dt 29.06.2023)**

The proposal was placed in this 400<sup>th</sup> meeting of SEAC held on 11.08.2023. 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, M/s. Panchamee Engineering Construction has applied seeking Environment Clearance for the proposed Rough stone & gravel quarry

  
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lease over an extent of 4.80.0 Ha in S.F.No. 420/1(P) & 421/1(P) of Perungudi Part-1 Village , Radhapuram Taluk, Tirunelveli 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, as amended.
3. ToR issued vide Lr No. SEIAA-TN/ F.No. 8963 / SEAC/ ToR- 1135/ 2022 Dated: 25.03.2022.
4. Public Hearing conducted on 12.01.2023. During public hearing the local people have opposed the proposed project activity.
5. Many windmills and physical structures are located near the project site.

Based on the documents submitted and presentation made by the project proponent along with the consultant, the SEAC decided to call for the following additional details/documents:

1. As the windmills are located near the project site, the Project Proponent shall submit duly approved Modified Mining Plan leaving a minimum buffer of 150m on all sides.
2. As KWLS is within a distance of 10 km, the PP shall indicate conservation measures in consultation with the DFO concerned.

On receipt of the details sought the subject may be placed before the SEAC for further deliberations and to decide on future course of action.

**Agenda No: 400-10**

**(File No: 9033/2023)**

**Proposed Rough Stone and Gravel quarry lease over an extent of 1.43.5 Ha in S. F. Nos. 410/1A and 410/1B of Mooduthurai Village, Mettupalayam Taluk, Coimbatore District, Tamil Nadu by Thiru. M. Shanmugam - For Environment Clearance. (SIA/TN/MIN/432375/2023 dt 06.06.2023)**

The proposal was placed in this 400<sup>th</sup> meeting of SEAC held on 11.08.2023. The Project Proponent made a detailed power point presentation about the proposed project. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, Thiru. M. Shanmugam, has applied seeking Environment Clearance for the proposed Rough Stone over an extent of of

  
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1.43.5 Ha in S. F. Nos. 410/1A and 410/1B of Mooduthurai Village, Mettupalayam Taluk, Coimbatore 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, as amended.
3. EC issued vide Lr. No. SEIAA-TN/F.No.5065/1(a)/EC.No.3220/2016 dated 06.07.2016.
4. CCR Lr. No. E.P/12.1/2022-23/SEIAA/226/TN/71 dated 13.01.2023 issued by the IRO, MoEF&CC for the existing quarry.
5. Two existing pits of dimensions 62m x 75m x 17m (Pit 1) and 74m x 62m x 22m (Pit 2) reported in the approved mining plan.
6. ToR vide. Lr No. SEIAA-TN/F.No.9033/SEAC/ToR- 1155/2022 Dated: 06.06.2022.
7. Satyamangalam Tiger reserve is located at a distance of 9.7 km from the project site.

File No	9033 EIA	Category	B1
	SIA/TN/MIN/432375/2023		EC
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. M. Shanmugam S/o. Muthusamy Gounder No.36, Kaithemillath Street Mathampalayam Road Punjai Puliampatti Post Sathiyamangalam Taluk Erode – 638459
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel
3.	S.F Nos. of the quarry site with area break-up	:	S. F. Nos. 410/1A and 410/1B
4.	Village in which situated	:	Mooduthurai
5.	Taluk in which situated	:	Mettupalayam

6.	District in which situated	:	Coimbatore
7.	Extent of quarry (in ha.)	:	1.43.5 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	11° 22' 15.20"N to 11° 22' 21.24"N 77° 07' 23.77"E to 77° 07' 27.77"E
9.	Topo Sheet No.	:	58E/03
10.	Type of mining	:	Opencast mechanized method
11.	Life of Project	:	5 years
	Lease Period	:	5 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m <sup>3</sup> (RoM)	:	As modified by SEAC
		:	409432 m <sup>3</sup> of Rough stone, 8068 m <sup>3</sup> of Gravel
	Mifiable Resources m <sup>3</sup> (RoM)	:	-
		:	95546 m <sup>3</sup> of Rough stone, 2294 m <sup>3</sup> of Gravel
	:	89742 m <sup>3</sup> of Rough stone, 2294 m <sup>3</sup> of Gravel	
	:	20720 m <sup>3</sup> of Rough stone, 814 m <sup>3</sup> of Gravel	
	:	19370 m <sup>3</sup> of Rough stone, 814 m <sup>3</sup> of Gravel	
	Maximum Depth in m	:	44m
13.	Depth of water table	:	70m-65m
14.	Man Power requirement:	:	15 Nos.
15.	Water requirement:	:	2.0 kLD
	1. Drinking water	:	0.3 kLD
	2. Utilized water	:	1.1 kLD

	3. Dust suppression 4. Green belt	0.6 kLD		
16.	Power requirement	TNEB		
17.	Precise area communication approved by the Department of G&M.	Rc.No.978/Mines/2021, Dated: 03.01.2022		
18.	Mining Plan approved by Department of G&M.	Rc.No.978/Mines/2021, Dated: 25.01.2022		
19.	Department of G&M, Deputy Director 500m Cluster Letter	Rc.No.978/Mines/2021, Dated: 21.10.2022		
20.	VAO Certificate regarding habitation within 300m radius	Letter dated: 20.01.2022		
21.	Project Cost (excluding EMP cost)	Rs.23,95,000/-		
22.	EC Recommendation	: Validity	30 years subject to the following upper limits.	
			Rough Stone	Gravel
		: Max Total RoM in m <sup>3</sup>	89742	2294
		: Annual Max RoM in m <sup>3</sup>	19370	814
		: Max Depth in m	40	2
23.	EMP cost (in Rs. Lakh).	: <ul style="list-style-type: none"> <li>Capital cost – Rs.22.01 Lakh</li> <li>Recurring cost/Annum – Rs. 13.35 Lakh + 5% inflation cost</li> </ul>		

  
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		<ul style="list-style-type: none"> <li>• Rs.5.0 Lakh as a conservation measure to the Field Director, Sathyamangalam Tiger Reserve</li> </ul>
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Based on the presentation and documents furnished by the project proponent, **SEAC** decided to recommend the proposal for the grant of **Environmental Clearance** for the annual peak production capacity of not exceeding **19370 m<sup>3</sup> of Rough stone and 814m<sup>3</sup> of Gravel** by maintaining the ultimate depth of mining of **44m BGL** and subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by **MOEF &CC**, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The proponent shall provide the particulars for carrying out the plantation of 1000 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.
- 3) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of six months from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

  
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- 4) Since few habitations are situated within 500 m, the PP shall carry out the scientific studies within a period of six months from the date of lease execution, to optimize the blast design parameters for controlling the blast-induced ground/air- vibrations and fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 5) 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 30 m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 6) The PP shall furnish the Standard Operating Procedures (SoP) for carrying out the blasting operations in the proposed quarry to the AD (Mines) at the time of lease execution.
- 7) As accepted by the Project Proponent, an amount of **Rs.5.0 Lakh** shall be remitted as a conservation measure (as part of EMP) to the Field Director, Sathyamangalam Tiger Reserve before obtaining CTO from TNPCB.



Agenda No: 400-11

(File No: 9061/2023)


Proposed Rough stone & gravel quarry lease over an extent of 0.99.0Ha in S.F.Nos.48/2A, 48/2B & 49/1, Aladipatti Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu by Tmt S. Meenakshi - For Environment Clearance. (SIA/TN/MIN/434786/2023 dt 29.06.2023)

The proposal was placed in this 400<sup>th</sup> meeting of SEAC held on 11.08.2023. 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, Tmt S. Meenakshi has applied seeking Environment Clearance for the proposed Rough stone & gravel quarry lease over an extent of 0.99.0Ha in S.F.Nos.48/2A, 48/2B & 49/1, Aladipatti Village, Aruppukottai Taluk, Virudhunagar District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B1" of Item I(a) "Mining Projects" of the Schedule to the EIA Notification 2006, as amended.
3. ToR issued vide. Lr No. SEIAA-TN/F.No.9061/SEAC/ToR- 1180/2022 Dated: 13.06.2022.
4. Public Hearing Conducted on 17.03.2023

File No	9061 EIA	Category	BI
	SIA/TN/MIN/ 434786 /2023		EC
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Tmt. S. Meenakshi W/o. Sri.Selvakumar, 2/171, North Street, Ulakkudi, Thiruchuli Taluk, Virudhunagar District- 626607
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone & gravel

  
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3.	S.F Nos. of the quarry site with area break-up	:	48/2A, 48/2B & 49/1
4.	Village in which situated	:	Aladipatti
5.	Taluk in which situated	:	Aruppukottai
6.	District in which situated	:	Virudhunagar
7.	Extent of quarry (in ha.)	:	0.99.0Ha
8.	Latitude & Longitude of all corners of the quarry site	:	09°29'16.5"N to 9°29'18.7"N 78°11'28.8"E to 78°11'31.6"E
9.	Topo Sheet No.	:	58 – K/3
10.	Type of mining	:	Opencast Semi- Mechanized Mining
11.	Life of Project	:	5 years
	Lease Period	:	5 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m <sup>3</sup> (RoM)	:	As modified by SEAC 297000 m <sup>3</sup> of Rough stone, 59400 m <sup>3</sup> of Gravel
	Minable Resources m <sup>3</sup> (RoM)	:	64842 m <sup>3</sup> of Rough stone, 39250.5m <sup>3</sup> of Gravel
	Annual Peak Production in m <sup>3</sup>	:	19090.5 m <sup>3</sup> of Rough stone, 12946.5m <sup>3</sup> of Gravel
	Ultimate Depth in meters	:	36m
13.	Depth of water table	:	40m-45m BGL

14.	Man Power requirement:	:	9 Nos															
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	6.0 kLD 1.0 kLD 4.0 kLD 1.0 kLD															
16.	Power requirement	:	TNEB															
17.	Precise area communication approved by the Department of G&M.	:	Rc.No.KV1/1059/2021Kanimam, dt:06.01.2022															
18.	Mining Plan approved by Department of G&M.	:	Rc.No.KV1/1059/2021, dt:20.01.2022															
19.	Department of G&M, Deputy Director 500m Cluster Letter	:	Rc.No.KV1/1059/2021, dt:20.01.2022															
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dt: 01.12.2021															
21.	Project Cost (excluding EMP cost)	:	Rs.301.6 Lakh															
22.	EC Recommendation	:	<table border="1"> <tr> <td>Validity</td> <td colspan="2">30 years subject to the following upper limits.</td> </tr> <tr> <td></td> <td>Rough Stone</td> <td>Gravel</td> </tr> <tr> <td>Max Total RoM in m<sup>3</sup></td> <td>64842</td> <td>3925</td> </tr> <tr> <td>Annual Max RoM in m<sup>3</sup></td> <td>19090.5</td> <td>1294</td> </tr> <tr> <td>Max Depth in m</td> <td colspan="2">30m</td> </tr> </table>	Validity	30 years subject to the following upper limits.			Rough Stone	Gravel	Max Total RoM in m <sup>3</sup>	64842	3925	Annual Max RoM in m <sup>3</sup>	19090.5	1294	Max Depth in m	30m	
Validity	30 years subject to the following upper limits.																	
	Rough Stone	Gravel																
Max Total RoM in m <sup>3</sup>	64842	3925																
Annual Max RoM in m <sup>3</sup>	19090.5	1294																
Max Depth in m	30m																	
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.14.65 Lakh Recurring cost/Annum – Rs. 9.95 Lakh + 5% inflation cost															

24	CER cost (in Rs. Lakh).	:	Rs. 5.0 lakh
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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 19090.5 m<sup>3</sup> of Rough stone and 12946.5m<sup>3</sup> of Gravel by maintaining the restricted ultimate depth of mining of 30m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O. 1807(E) dated 12.04.2022.
- 2) The proponent shall provide the particulars for carrying out the plantation of 1000 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.
- 3) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of six months from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 4) Since habitations are situated nearby, 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

  
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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) 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 30 m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 6) The PP shall not carry out the deep-hole & larger diameter blasting operations in the proposed quarry.
- 7) As accepted by the Project Proponent the CER cost is Rs. 5.0 lakh and the amount shall be spent for the committed activities in Village Government School.


**Agenda No: 400-12**

**(File No: 9243/2023)**

**Proposed Rough Stone and Gravel Quarry lease over an extent of 1.40.0Ha in S.F.Nos. 355/2A (P), 355/2C (P) & 355/2DIA (P) of Arasampalayam Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Thiru. K.Ravikumar - For Environment Clearance. (SIA/TN/MIN/436035/2023 dt 08.07.2023)**

The proposal was placed in this 400<sup>th</sup> meeting of SEAC held on 11.08.2023. The Project Proponent made a detailed power point presentation about the proposed project. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

  
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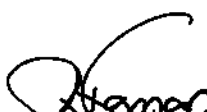
  
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1. The Project Proponent, Thiru. S. K.Ravikumar, has applied seeking Environment Clearance for the proposed Rough Stone over an extent of 1.40.0Ha Ha in S.F.Nos. 355/2A (P), 355/2C (P) & 355/2D1A (P) of Arasampalayam Village, Kinathukadavu Taluk, Coimbatore 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, as amended.
3. EC issued vide Lr. No. SEIAA-TN/F.No.3652/1(a)/EC.No.2849/2015 dated 15.02.2016.
4. CCR Lr. No. E.P/12.1/2022-23/SEIAA/226/TN/71 dated 13.01.2023 issued by the IRO, MoEF&CC for the existing quarry.
5. Two existing pits of dimensions 125m x 85m x 34m (Pit 1) and 45m x 55m x 22m (Pit 2) are observed in the approved mining plan.
6. ToR vide. Lr No. SEIAA-TN/F.No.9243/SEAC/ToR-1239/2022 Dated: 29.08.2022.
7. Public Hearing conducted on 07.02.2023

File No	9243 EIA		Category	B1
	SIA/TN/MIN/436035/2023			EC
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. K.Ravikumar, S/o. R.Kumarasamy, No. 7/68, West Garden, Karacheri, Periyakuyili Post, Chettipalayam Via, Coimbatore District – 641 201	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel	
3.	S.F Nos. of the quarry site with area break-up	:	355/2A (P), 355/2C (P) & 355/2D1A (P)	
4.	Village in which situated	:	Arasampalayam	

5.	Taluk in which situated	:	Kinathukadavu
6.	District in which situated	:	Coimbatore
7.	Extent of quarry (in ha.)	:	1.40.0Ha (Patta land)
8.	Latitude & Longitude of all corners of the quarry site	:	10°52'38.84"N to 10°52'45.00"N 77°02'55.09"E to 77°02'59.84"E
9.	Topo Sheet No.	:	58 - F/01
10.	Type of mining	:	Opencast mechanized method
11.	Life of Project	:	5 years
	Lease Period	:	5 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m <sup>3</sup> (RoM)	:	406492 m <sup>3</sup> of Rough stone, 240 m <sup>3</sup> of Gravel
	Minable Resources m <sup>3</sup> (RoM)	:	77631 cu.m of Rough stone
	Annual Peak Production in m <sup>3</sup>	:	20300 cu.m of Rough stone
	Ultimate Depth in m	:	52m BGL
13.	Depth of water table	:	65-70m
14.	Man Power requirement:	:	14Nos.
15.	Water requirement:	:	1.5 kLD
	1. Drinking water & Utilized water	:	0.3 kLD
	2. Dust suppression&	:	1.2 kLD

Green belt			
16.	Power requirement	TNEB 62,096 Liters of HSD will be utilized for entire project life	
17.	Precise area communication approved by the Department of G&M.	Na.Ka.No. 797/Kanimam/2021 : Dated: 17.03.2022	
18.	Mining Plan approved by Department of G&M.	Rc.No.797/Mines/2021, Dated: : 24.03.2022	
19.	Department of G&M, Deputy Director 500m Cluster Letter	Rc.No. 797/Mines/2021 Dated: 24.03.2022	
20.	VAO Certificate Regarding Structures within 300m Radius	Letter dated 18.07.2022	
21.	Project Cost (excluding EMP cost)	: Rs.36,62,000 /-	
22.	EC Recommendation	: Validity	30 years subject to the following upper limits.
			Rough Stone      Gravel
		: Max Total RoM in m <sup>3</sup>	48241      -
		: Annual Max RoM in m <sup>3</sup>	20300      -
		: Max Depth in m	40m BGL
23.	EMP cost (in Rs. Lakh).	Capital cost – Rs.21.95 Lakh : Recurring cost/Annum – Rs. 12.11 Lakh + 5% inflation cost	
24.	CER cost (in Rs. Lakh).	: Rs 5.00 Lakh	

  
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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 20300 m<sup>3</sup> of Rough stone by maintaining the ultimate depth of mining of 40m BGL and subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

- 1) The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
- 2) The proponent shall provide the particulars for carrying out the plantation of 1000 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.
- 3) Since the waterbodies are situated nearby, the PP shall carry out the scientific studies to assess the hydrogeological condition of the quarry within a period of six months from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 4) Since habitations are situated nearby, 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,

  
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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) 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 30 m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg. Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 6) As accepted by the Project Proponent the CER cost is Rs. 5.0 lakh and the amount shall be spent for the committed activities in Village Government School.

**Agenda No: 400-13**

**(File No: 9334/2023)**

**Proposed Rough Stone and Gravel Quarry lease over an extent of 3.85.5Ha (Patta Land) in S.F.Nos.364 of Arasampalayam Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu by Thiru.S. Abdul Jabbar - For Environment Clearance. (SIA/TN/MIN/436035/2023 dt 08.07.2023)**

The proposal was placed in this 400<sup>th</sup> meeting of SEAC held on 11.08.2023. The Project Proponent made a detailed power point presentation about the proposed project. The details of the project furnished by the proponent are available in the website (parivesh.nic.in). The SEAC noted the following:

1. The Project Proponent, Thiru. S. Abdul Jabbar, has applied seeking Environment Clearance for the proposed Rough Stone quarry over an extent of 3.85.5Ha (Patta Land) in S.F.Nos.364 of Arasampalayam Village, Kinathukadavu Taluk, Coimbatore District, Tamil Nadu.

  
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2. The proposed quarry/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification 2006, as amended.
3. EC issued vide Lr. No. SEIAA-TN/F.No.5529/1(a)/EC.No.3539/2016 dated 10.08.2016.
4. Presence of an existing pit of dimensions 232m x 156m x 12m is reported in the approved mining plan.
5. ToR vide. Lr No.SEIAA-TN/F.No.9334/SEAC/ToR- 1240/2022 Dated: 30.08.2022.
6. Public Hearing Conducted on 07.02.2023

File No	9334 EIA	Category	B1
	SIA/TN/MIN/436035/2023		EC
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru. S. Abdul Jabbar, S/o. Shand Mohammed Rawther, No.3/33, Vadachithur Post, Kinathukadavu Taluk, Coimbatore- 641 202
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel
3.	S.F Nos. of the quarry site with area break-up	:	364
4.	Village in which situated	:	Arasampalayam
5.	Taluk in which situated	:	Kinathukadavu
6.	District in which situated	:	Coimbatore
7.	Extent of quarry (in ha.)	:	3.85.5Ha (Patta land)
8.	Latitude & Longitude of all corners of the quarry site	:	10° 52' 20.79"N to 10° 52' 28.84"N 77° 02' 40.22"E to 77° 02' 46.34"E
9.	Topo Sheet No.	:	58- F/01

10.	Type of mining	:	Opencast mechanized method
11.	Life of Project	:	5 years
	Lease Period	:	5 years
	Mining Plan Period	:	5 years
12.	Mining Plan Details	:	As per approved Mining Plan As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	1585473 m <sup>3</sup> of Rough stone, 1404 m <sup>3</sup> of Gravel -
	Mifiable Resources m <sup>3</sup> (RoM)	:	599537 m <sup>3</sup> of Rough stone -
	Annual Peak Production in m <sup>3</sup>	:	36850 m <sup>3</sup> of Rough stone -
	Maximum Depth in meters	:	47m BGL 42m BGL
13.	Depth of water table	:	60m-65m
14.	Man Power requirement:	:	23Nos.
15.	Water requirement: 1. Drinking water 2. Utilized water 3. Dust suppression 4. Green belt	:	3.0 KLD
16.	Power requirement	:	TNEB 223 Lit/day.
17.	Precise area communication approved by the Department of G&M.	:	Rc.No.911/Mines/2021, Dated: 05.04.2022
18.	Mining Plan approved by Department of G&M.	:	Rc.No.911/Mines/2021, Dated: 22.04.2022

19.	Department of G&M, Deputy Director 500m Cluster Letter	Rc.No.911/Mines/2021, Dated: 22.04.2022		
20.	VAO Certificate Regarding Structures within 300m Radius	Letter dated: 19.04.2022		
21.	Project Cost (excluding EMP cost)	: Rs.72,22,000/-		
22.	EC Recommendation	: Validity	30 years subject to the following upper limits.	
			Rough Stone	Gravel
		: Max Total RoM in m <sup>3</sup>	153100	-
		: Annual Max RoM in m <sup>3</sup>	36850	-
		: Max Depth in m	42m BGL	
23.	EMP cost (in Rs. Lakh).	: Capital cost – Rs.32.9 Lakh : Recurring cost/Annum – Rs. 16.21 Lakh + 5% inflation cost		
24.	CER cost (in Rs. Lakh).	: Rs 10.00 Lakh		

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 36850 m<sup>3</sup> of Rough stone by maintaining the restricted ultimate depth of mining of 42m 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

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

- 2) The PP shall complete the process of amalgamation coordinating with the PPs of all the other leases in the cluster to work as a single lease in accordance with the provisions of Mineral Concession Rules, 1960 and MM (D&R) Act, 1957, for ensuring the environmental sustainability.
- 3) Considering the quarrying operations in the cluster environment, the PP shall inform the Regional Inspector of Mines / Director of Mines Safety, DGMS-Chennai Region for appointing statutory competent persons as applicable and permitted in accordance with the Mines Act, 1952 before the execution of lease.
- 4) The PP shall not adopt the 'Deep-hole large diameter drilling and blasting' without obtaining the prior permission obtained from the Director of Mines Safety, DGMS-Chennai Region.
- 5) The PP shall furnish a Standard Operating Procedures (SoP) for handling the explosives and carrying out the blasting operations in the cluster environment following the provisions of MMR 1961 and the relevant Circulars issued by the DGMS to the concerned AD (Mines) at the time of execution of lease.
- 6) Considering the cluster environment, the PP shall carry out 50% of the blasting operations through usage of the digital detonators (electronic detonators) for precise timed delay in the blasting to reduce the environmental hazards such as ground vibration, noise, flyrock and to improve the fragmentation resulting in eliminating the production of oversized fragments (boulders) by involving the reputed institutes such as Central Institute of Mining & Fuel Research / Nagpur, Dept of Mining Engg., NIT Surathkal and Dept of Mining Engg., Anna University, Chennai.
- 7) Keeping the cluster environment in mind, the PP shall carry out the scientific studies to assess the impact of quarrying operations in the cluster environment on the hydrogeological condition of the area of 5 km radius, within 2 years from the commencement of mining operations, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-

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

- 8) For securing the safety of persons employed in the mine, the PP shall carry out the scientific studies coordinating with the PPs of other mines in the cluster to assess the slope stability of the benches and quarry wall after the completion of amalgamation process, by involving anyone of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM, Division of Geotechnical Engineering/IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus, etc. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 9) As accepted by the Project Proponent the CER cost is Rs. 10.0 lakh and the amount shall be spent for the committed activities including the construction of Auditorium in Village Government Schools.

**Agenda No: 400 - 14**

**File No: 9426/2023**

**Proposed Rough Stone & Gravel quarry lease over an extent of 3.48.0 ha in S.F. No. 67/1, 68 at Myleripalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu by Tmt.M.Sarojini - For Environmental Clearance. (SIA/TN/MIN/426915/2023, Dated: 21.04.2023)**

The proposal was placed in this 400<sup>th</sup> SEAC meeting held on 11.08.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation. SEAC noted the following:

1. The Project Proponent, Tmt.M.Sarojini has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 3.48.0 ha in S.F. No. 67/1, 68 at Myleripalayam Village, Madukkarai Taluk, Coimbatore District, Tamil Nadu.

  
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2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 10 years. The mining plan is for 5 years & production should not exceed 3,04,716m<sup>3</sup> of Rough Stone & 1,350m<sup>3</sup> of Gravel. The annual peak production 62,905m<sup>3</sup> of Rough Stone & 15,276m<sup>3</sup> of Gravel. The ultimate depth of mining is 32m BGL.
4. Subsequently, the proponent had obtained vide Lr.No.SEIAA-TN/F.No.9426/SEAC/ToR - 1285/2022, Dated: 08.10.2022.
5. Public hearing was conducted on 30.01.2023.

Now, the proposal was placed in the 400<sup>th</sup> SEAC meeting held on 11.08.2023. During the presentation, SEAC noted the following

1. As per MOEF&CC Office Memorandum vide F. No. IA3-22/10/2022-IA.III, dated: 08.06.2022 regarding Standardizing the validity of baseline data and public consultation reports for submission of proposal within the validity period of Terms of Reference (ToR) under the provisions of EIA Notification, 2006.

Under Para 6

*"The aforesaid matter has been examined in the Ministry. In order to address this issue in a practical manner and to bring uniformity in handling such proposals, the following standard procedures shall be followed with immediate effect:*

- i. Baseline data used for preparation of EIA/EMP reports may be collected at any stage of the EC process or even before the grant of ToR.*
- ii. Public consultation shall be conducted after the grant of ToR. The Public consultation conducted after the expiry of ToR shall not be accepted by the Regulatory Authority.*
- iii. The baseline data and Public Hearing shall not be more than three years old at the time of submission of application for consideration of EC.*
- iv. At the time of application for EC, in case baseline data is older than three years, but less than five years old in the case of River valley and HEP Projects, or less than four years old in the case of other projects, the same shall be considered, subject to the condition that it is revalidated with one*



*season fresh non-monsoon data collected after three years of the initial baseline data...*”

2. As per the EIA report submitted by the PP in Parivesh Portal, under Chapter 1.5: - Methodology of EIA study, it was ascertained that, Baseline data was considered between Oct 1<sup>st</sup> 2019 to Dec 31<sup>st</sup> 2019 which is more than 3 years old at the time of submission of application for EC.

Hence, in the view of the above, SEAC decided that PP shall revalidate the Baseline data collected as per the direction given in the sub-para (iv) of Para 6 in the above-mentioned OM.

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 a period of 30 days failing which your proposal will automatically get delisted from the PARIVESH portal.

Agenda No: 400 - 15

File No: 9443/2023

Proposed Multi Colour Granite quarry lease over an extent of 1.91.5 ha in S.F. No. 1124/7(P), 1130/7(P), 1131/7 & 1131/8 at Irudukottai Village, Denkanikottai Taluk, Krishanagiri District, Tamil Nadu by Tvl. S.V. Granites - For Environmental Clearance. (SIA/TN/MIN/434116/2023, Dated: 21.06.2023)

The proposal was placed in this 400<sup>th</sup> SEAC meeting held on 11.08.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation. SEAC noted the following:

1. The Project Proponent, Tvl. S.V. Granites has applied for Environmental Clearance for the Proposed Multi Colour Granite quarry lease over an extent of 1.91.5 ha in S.F. No. 1124/7(P), 1130/7(P), 1131/7 & 1131/8 at Irudukottai Village, Denkanikottai Taluk, Krishanagiri District, Tamil Nadu.
2. The project/activity is covered under Category “B1” of Item 1(a) “Mining Projects” of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 20 years vide G.O No. 2666/MME.2/2022-1, dated. 04.05.2022 and the Mining Plan has been

  
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prepared in complying with the conditions as stipulated in the G.O. (Ms) No.79, Industries (MMC.1) Department, dated. 06.04.2015 for a period of 20 years.

4. From the presentation & AMP, previously quarried old pit with boulder removal of dimension of 90 m<sup>2</sup> are with 5 m depth has been noticed and no recent quarrying activities are observed.
5. Subsequently, the proponent had obtained Terms of Reference vide Lr. No. SEIAA-TN/F.No.9443/SEAC/ToR - 1297/2022, Dated: 28.10.2022.
6. Public hearing was conducted on 05.04.2023.

The proposal is for mining of Multi Colour Granite Quarry and the salient features of the proposal are as follows:

File No	9443/2023		Category	B1
	434116/2023			1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Tvl.S.V.Granites No.17B/3, Vellakottai 1st street, Chennai Salai, Krishnagiri – 635001.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Multi Colour Granite quarry	
3.	S.F Nos. of the quarry site with area break-up	:	1124/7(P), 1130/7(P), 1131/7 & 1131/8	
4.	Village in which situated	:	Irudukottai	
5.	Taluk in which situated	:	Denkanikottai	
6.	District in which situated	:	Krishnagiri	
7.	Extent of quarry (in ha.)	:	1.91.50 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°25'41.1003"N to 12°25'36.5229"N 77°50'03.8947"E to 77°49'57.9786"E	
9.	Topo Sheet No.	:	57 - H/15	
10.	Type of mining	:	Opencast Semi-Mechanized Mining	

11.	Life of Project	:	21 years	
	Lease Period		20 years	
	Mining Plan Period	:	20 years	
12.	Development & Production Plan Details for the first five years	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	ROM	ROM
			4,97,010 m <sup>3</sup>	
			Recoverable reserve @ 60 %	Recoverable reserve @ 60 %
			2,98,206m <sup>3</sup>	
			Granite Waste @ 40%	Granite Waste @ 40%
			1,98,804m <sup>3</sup>	
	Mirable Resources m <sup>3</sup> (RoM)	:	ROM	ROM
			1,55,325m <sup>3</sup>	
			Recoverable reserve @ 60 %	Recoverable reserve @ 60 %
			93,195m <sup>3</sup>	
			Granite Waste @ 40%	Granite Waste @ 40%
			62,130m <sup>3</sup>	
	Annual Peak Production in m <sup>3</sup>	:	ROM	ROM
			7,650m <sup>3</sup>	
			Recoverable reserve @ 60 %	Recoverable reserve @ 60 %
			4,590 m <sup>3</sup>	
			Granite Waste @ 40%	Granite Waste @ 40%
3,060 m <sup>3</sup>				

  
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	Ultimate Depth in meters	:	38m depth	
13.	Depth of water table	:	60m BGL	
14.	Man Power requirement per day:	:	18 Nos	
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	3.0 KLD 1.0 KLD 1.0 KLD 1.0 KLD	
16.	Power requirement	:	TNEB 16 Ltrs of HSD/hour	
17.	Precise area communication approved by the industries (MME.2) Department, Secretariat.	:	Letter No. 2666/MME.2/2022-1, dated: 03.03.2022	
18.	Mining Plan approved by Commissioner, Department of G&M.	:	Rc.No.73/MM4/2022, dated: 25.07.2022	
19.	Department of G&M, Deputy Director, 500m Cluster Letter	:	Roc.No.754/2021/Mines, dated: 28.07.2022	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Furnished	
21.	Project Cost (excluding EMP cost)	:	Rs. 1,24,90,000	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
			Annual Peak RoM in m <sup>3</sup>	Production Granite Waste 7,650m <sup>3</sup> 3,060 m <sup>3</sup>

  
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		:	Ultimate Depth in mtrs	38m BGL
23	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 21,86,050 Recurring Cost – Rs. 3,02,280	
24	ToR Issued Details	:	Lr.No. SEIAA- TN/F.No.9443/SEAC/ToR-1297/2022 Dated: 28.10.2022.	
25	Public Hearing Conducted on	:	05.04.2023	

Now, the proposal is placed in the 400<sup>th</sup> SEAC meeting held on 11.08.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding an annual peak production of **7,650m<sup>3</sup> of multi Coloured granite by maintaining the ultimate depth of mining up to 38m 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 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 around the abandoned pits situated near the proposed project area in order to ensure safety before the execution of the lease.
3. The PP shall ensure the safety provisions as stipulated in the DGMS Circular No:02, dated. 29.11.2019 while using the Diamond Wire Saw machines in the proposed quarry operation.

  
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4. The proponent shall erect tall sheet fencing in the lease boundary of the proposed quarry abutting the road before the execution of the lease and the PP shall obtain the necessary relaxation for maintaining higher benches of more than 6 m with vertical face angle from the Director of Mines Safety, Chennai Region as per the Reg. 106 (2) (b) of the MMR 1961.
5. **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 & noise** from the blasting operations carried out in the overburden/side-burden formation of 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.
6. The PP shall properly provide all the required welfare amenities near quarry such as Drinking water, Rest Shelter, Canteen, Toilets, etc for the persons to be employed in the proposed quarry before the execution of lease, in accordance with the provisions of the Mines Rules, 1955.
7. 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 4<sup>th</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.

  
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8. As accepted by the Project Proponent, Rs. 10 Lakhs shall be included in the EMP and the amount shall be spent for the activities as committed towards Wildlife protection activities - fund for the DFO, Krishnagiri for Cauvery North Wildlife Sanctuary before obtaining CTO from TNPCB.

Agenda No: 400 - 16

File No: 9111/2023

Proposed Rough Stone & Gravel quarry lease over an extent of 1.70.0 ha in S.F. No. 91/4A, 92/3F, 92/3G, 92/3H, 92/3I, 92/3J, 92/3K, 92/3L & 91/4B at Girijapuram Village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu by Tvl. Sri Elumalaiyan Blue Metals - For Environmental Clearance. (SIA/TN/MIN/429619/2023, Dated: 19.05.2023)

The proposal was placed in this 400<sup>th</sup> SEAC meeting held on 11.08.2023. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The project proponent gave detailed presentation. SEAC noted the following:

1. The Project Proponent, Tvl. Sri Elumalaiyan Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone & Gravel quarry lease over an extent of 1.70.0 ha in S.F. No. 91/4A, 92/3F, 92/3G, 92/3H, 92/3I, 92/3J, 92/3K, 92/3L & 91/4B at Girijapuram Village, Vembakkam Taluk, Tiruvannamalai District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per mining plan, the lease period is for 10 years. The mining plan is for 5 years & production should not exceed 1,84,625m<sup>3</sup> of Rough Stone & 23,916m<sup>3</sup> of Gravel. The annual peak production 37,715m<sup>3</sup> of Rough Stone & 15,276m<sup>3</sup> of Gravel. The ultimate depth of mining is 37m BGL.
4. Subsequently, the proponent had obtained vide Lr.No.SEIAA-TN/F.No.9111/SEAC/ToR - 1187/2022, Dated: 06.07.2022.
5. Public hearing was conducted on 23.02.2023.

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

File No	9111/2023		Category	B1
	429619/2023			1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Tvl.Sri Elumalaiyan Blue Metals Thiru. D.Raji No.168/3, Kelnaickanpalayam Vembakkam Taluk Tiruvannamalai - 631 702	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone & Gravel Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	91/4A, 92/3F, 92/3G, 92/3H, 92/3I1, 92/3I2, 92/3J, 92/3K1, 92/3L1 & 91/4B	
4.	Village in which situated	:	Girijapuram	
5.	Taluk in which situated	:	Vembakkam	
6.	District in which situated	:	Tiruvannamalai	
7.	Extent of quarry (in ha.)	:	1.70.0Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°44'13.83"N to 12°44'21.13"N 79°42'07.35"E to 79°42'12.57"E	
9.	Topo Sheet No.	:	57 - P/10	
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	As modified by SEAC
		:	Rough Stone	Rough Stone



	Geological Resources m <sup>3</sup> (RoM)		5,94,615 m <sup>3</sup>	-
			Gravel	Gravel
			33,978m <sup>3</sup>	-
	Minable Resources m <sup>3</sup> (RoM)	:	Rough Stone	Rough Stone
			1,84,625m <sup>3</sup>	1,82,675m <sup>3</sup>
			Gravel	Gravel
			23,916m <sup>3</sup>	23,916m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone	Rough Stone
			37,715m <sup>3</sup>	37,715m <sup>3</sup>
			Gravel	Gravel
			15,288 m <sup>3</sup>	15,288 m <sup>3</sup>
	Ultimate Depth in meters	:	37m depth	32m depth
13.	Depth of water table	:	55m in rainy season & 58m in summer season	
14.	Man Power requirement per day:	:	23 Nos	
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	10.0 KLD 1.0 KLD 8.0 KLD 1.0 KLD	
16.	Power requirement	:	TNEB	
17.	Precise area communication approved by the Assistant Director, Department of G&M.	:	Rc.No.974/Kanimam/2021, dated: 25.01.2022	
18.	Mining Plan approved by Assistant Director, Department of G&M.	:	Rc.No.974/Kanimam/2021, dated: 03.03.2022	
19.	Department of G&M, Assistant Director, 500m Cluster Letter	:	Rc.No.974/Kanimam/2021, dated: 03.03.2022	

  
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20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 07.03.2022		
21.	Project Cost (excluding EMP cost)	:	Rs. 61,30,000		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
			Max Total RoM in m <sup>3</sup>	1,82,675m <sup>3</sup>	23,916 m <sup>3</sup>
			Annual Max RoM in m <sup>3</sup>	37,125m <sup>3</sup>	15,276 m <sup>3</sup>
		:	Ultimate Depth in mtrs	32m BGL	
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 16,91,000 Recurring Cost – Rs. 15,78,800		
24.	CER cost (in Rs. Lakh).	:	Rs. 5,00,000		
25.	ToR Issued Details	:	Lr.No. SEIAA- TN/F.No.9111/SEAC/ToR-1187/2022 Dated: 06.07.2022.		
26.	Public Hearing Conducted on	:	23.02.2023		

Now, the proposal was placed in the 400<sup>th</sup> SEAC meeting held on 11.08.2023. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding 37,125m<sup>3</sup> of rough stone & 15,276 m<sup>3</sup> of gravel by maintaining the ultimate depth of mining up to 32m 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:

  
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1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The proponent shall erect tall sheet fencing in the lease boundary of the proposed quarry abutting the road and abandoned quarry, if exist nearby before the execution of the lease.
3. Since the structures are situated within a radial distance of 300 m, the PP shall carry out the scientific studies within a period of six months from the commencement of quarrying operations, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the proposed quarry, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
4. 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.

  
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5. The PP shall develop the green belt with two to three rows of thick trees around the crusher unit which is located near to the quarry mouth, before obtaining the CTO from the TNPCB.
6. The PP shall ensure that the vehicles carrying the mineral are not overloaded and properly covered with tarpaulin with not passing through the village roads.
7. The PP shall ensure that the roads leading to the village & habitation from the lease boundary of the quarry are frequently water sprinkled to control the dust at the source.
8. The PP shall frame the SoP for carrying the safe blasting operations before obtaining the CTO from the TNPCB and keep the guards at the sensitive places including the school premises for avoiding the presence of any person within 500 m radial distance from the place of blasting in the quarry.
9. The PP shall carry out the scientific studies to assess the hydrogeological condition of the core zone due to mining operations in the existing quarry after the completion of 2 years from the commencement of quarrying operation, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, and AD/Mines-DGM as a part of Environmental Compliance without any deviation.
10. 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 Higher secondary School, Menallur Village before obtaining CTO from TNPCB.

Agenda No: 400 - 17

(File No.9445/2023)

**Proposed Multi-Colour Granite Quarry lease (Patta Land) over an extent of 2.30.0 ha in S.F.Nos. 60/2B & 60/3B of Karandapalli Village, Denkanikottai Taluk, Krishnagiri District, Tamil Nadu by M/s. Naveena Granites – For Environmental clearance. (SIA/TN/MIN/426725/2023, dated:15.05.2023)**

  
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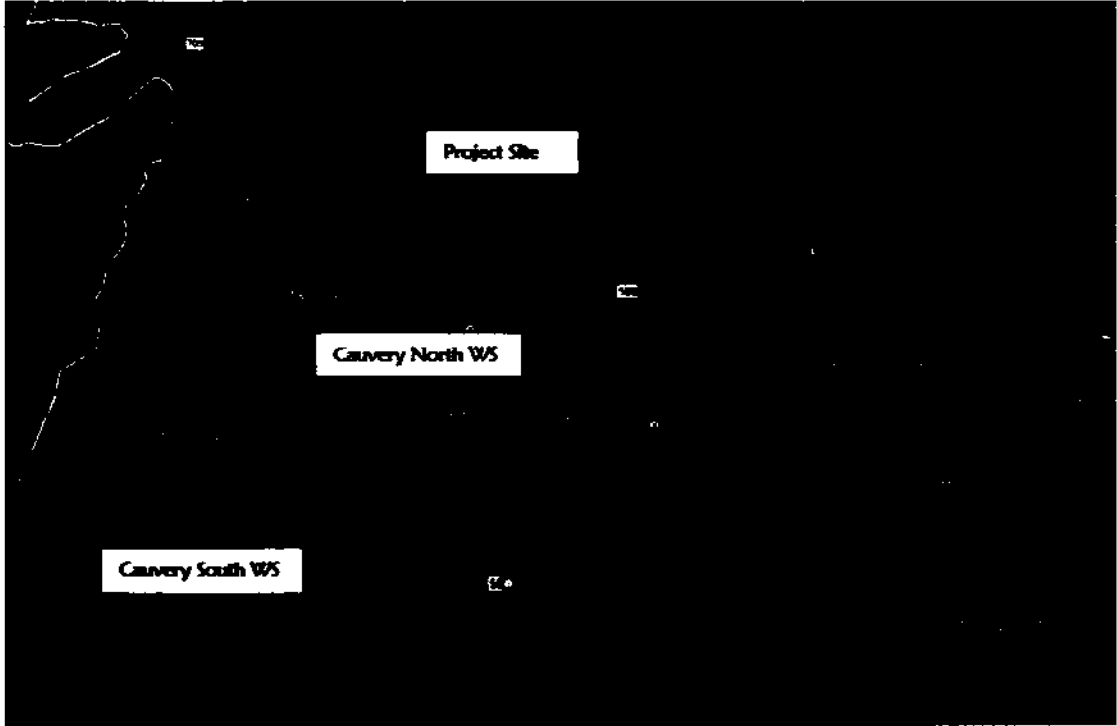
  
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The proposal was placed in the 400<sup>th</sup> meeting of SEAC held on 11.08.2023. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). The SEAC noted the following:

1. The Proponent, M/s. Naveena Granites has applied for Environmental Clearance for the Proposed Multi Colour Granite Quarry lease (Patta Land) over an extent of 2.30.0 ha in S.F.Nos. 60/2B & 60/3B of Karandapalli Village, Denkanikottai 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. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.9445/TOR-1292/2022 dated 28.10.2022.
4. Public Hearing was conducted on 05.04.2023.
5. Based on the KML file submitted by the proponent in PARIVESH portal and google imagery, it is ascertained that the proposed site is approximately 1.28 Km from Cauvery North Wildlife Sanctuary and 7.1 Km from Cauvery South Wildlife Sanctuary.
6. SEAC noted that the Cauvery North Wildlife Sanctuary is situated in between the Cauvery South Wildlife Sanctuary and the proposed site. Further, the Cauvery North Wildlife Sanctuary has been notified and the proposed mine site is beyond the Eco Sensitive Zone of the Cauvery North Wildlife Sanctuary. Hence, SEAC decided that the proposal doesn't warrant prior clearance from National Board for Wildlife (NBWL).

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

File No	9445	Category	1(a)
	SIA/TN/MIN/426725/2023		B1
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	M/s. Naveena Granites, No.5/5, MGR Colony, 5 <sup>th</sup> Ward, Tharamangalam, Salem District – 636 502.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Multi-Colour Granite Quarry
3.	S.F Nos. of the quarry site with area break-up	:	60/2B & 60/3B
4.	Village in which situated	:	Karandapalli
5.	Taluk in which situated	:	Denkanikottai
6.	District in which situated	:	Krishnagiri
7.	Extent of quarry (in ha.)	:	2.30.0 ha

  
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8.	Latitude & Longitude of all corners of the quarry site	:	12°27'34.5177"N to 12°27'41.8012"N 77°42'48.0329"E to 77°42'53.4764"E
9.	Topo Sheet No.	:	57H/11
10.	Type of mining	:	Open cast Mining Method
11.	Life of Project	:	20 years
	Lease Period	:	20 years
	Mining Plan Period	:	20 years
12.	Development & Production Plan Details as given in the Mining Plan for the first 5 years	:	As per approved Mining Plan As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	RoM – 4,97,824m <sup>3</sup> which includes Granite recovery - 2,98,694 m <sup>3</sup> (@60%) & Granite Waste 40% - 1,99,130 m <sup>3</sup>
		:	Weathered rock – 46,620m <sup>3</sup>
		:	Top Soil - 46,620m <sup>3</sup>
	Mirable Resources m <sup>3</sup> (RoM)	:	RoM – 2,15,323m <sup>3</sup> which includes Granite recovery- 1,29,194 m <sup>3</sup> (@60%) & Granite Waste - 86,129m <sup>3</sup>
		:	Weathered rock – 35,952m <sup>3</sup>
		:	Top Soil - 35,952m <sup>3</sup>

  
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	Annual Peak Production in m3	:	RoM – 11,165m <sup>3</sup> which includes Granite recovery – 6699m <sup>3</sup> (@60%) & Granite Waste - 4466m <sup>3</sup>	-
	Ultimate Depth in meters	:	35m (10m AGL + 25m BGL)	-
13.	Depth of water table	:	65m - 70m	
14.	Man Power requirement per day:	:	27 Nos.	
15.	Water requirement: 1. Drinking Water & Domestic purpose 2. Dust suppression 3. Green belt	:	3.3 KLD 1.3 KLD 1.0 KLD 1.0 KLD	
16.	Power requirement	:	51,840 Liters of HSD for five years	
17.	Precise area communication approved by the Additional Chief Secretary to Government	:	Rc.No.1048/MME.2/2022-1, Dated 11.03.2022.	
18.	Mining Plan approved by the Commissioner, Dept. of Geology and Mining with date	:	Rc.No.1447/MM4/2019, Dated.23.07.2022.	
19.	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining with date	:	Rc.No.1362/2018/Mines, Dated.28.07.2022.	
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter dated: 27.07.2022.	
21.	Project Cost (excluding EMP cost)	:	Rs. 52,89,344/-	

  
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22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
		:		Granite
		:	Max Total RoM in m <sup>3</sup>	RoM – 53,998m <sup>3</sup> which includes 32,399m <sup>3</sup> of granite recovery (@60%) & 21,599m <sup>3</sup> of granite waste
		:	Annual Max RoM in m <sup>3</sup>	RoM – 11,165m <sup>3</sup> which includes 6699m <sup>3</sup> of granite recovery (@60%) & 4466m <sup>3</sup> of granite waste
		:	Max Depth in mtrs	35m (10mAGL + 25m BGL)
23.	EMP cost (in Rs. Lakh).	:	Capital Cost – Rs. 111.73 Lakhs /- Recurring Cost – Rs. 11.75 Lakhs /-	
24.	ToR details	:	ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.9445/TOR-1292/2022 dated 28.10.2022.	
25.	Public hearing details	:	Public Hearing was conducted on 05.04.2023.	


Based on the presentation and details furnished by the project proponent, SEAC decided to recommend the proposal for grant of Environmental Clearance for the annual peak RoM not exceeding 11,165m<sup>3</sup> of Multi-Coloured granite and 18190 m<sup>3</sup> of weathered

  
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rock by maintaining a pit to an ultimate depth of 35m (10m above ground level + 25m below ground level), subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier.
2. Tree plantation & fencing and installation of garland drainage with siltation tank around the mine lease area shall be completed before execution of the mine lease.
3. The PP shall ensure the safety provisions as stipulated in the DGMS Circular No:02, dated. 29.11.2019 while using the Diamond Wire Saw machines in the proposed quarry operation.
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 & noise from the blasting operations carried out in the overburden/side-burden formation of 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. 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 4th 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


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

6. As accepted by the Project proponent, **Rs. 10 Lakhs** shall be included in the EMP and the amount shall be spent for the conservation measures in Cauvery North and South Wildlife Sanctuary in consultation with the concerned DFO before obtaining CTO from TNPCB.

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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.	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.	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.	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.	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.	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.	Training of the blasting crew on controlled blasting practices before engaged in operation.

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

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

1. In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following:
  - (i) Original pit dimension
  - (ii) Quantity achieved Vs EC Approved Quantity
  - (iii) Balance Quantity as per Mineable Reserve calculated.
  - (iv) Mined out Depth as on date Vs EC Permitted depth
  - (v) Details of illegal/illicit mining
  - (vi) Violation in the quarry during the past working.
  - (vii) Quantity of material mined out outside the mine lease area
  - (viii) Condition of Safety zone/benches
  - (ix) Revised/Modified Mining Plan showing the benches of not exceeding 6 m height and ultimate depth of not exceeding 50m.
2. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.
4. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry.
5. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
6. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.

7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall the PP shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC.
8. However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.
9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.
11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
13. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?

14. Quantity of minerals mined out.
- Highest production achieved in any one year
  - Detail of approved depth of mining.
  - Actual depth of the mining achieved earlier.
  - Name of the person already mined in that leases area.
  - If EC and CTO already obtained, the copy of the same shall be submitted.
  - Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
15. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc..
17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.
18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same.
19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.

20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds, etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
23. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.

26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
28. Impact on local transport infrastructure due to the Project should be indicated.
29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc..) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
32. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along

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

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

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

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

  
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## Annexure II

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

#### 1. Statutory Compliance:

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

  
MEMBER SECRETARY  
SEAC -TN

  
CHAIRMAN  
SEAC- TN

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	மஞ்சள, ஆனைக்குன்றிமணி
3	<i>Albizia lebbeck</i>	Vaagai	வாடை
4	<i>Albizia anara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	கட்டும்மா
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	சர்க்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	புரச மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjaillavu	கோங்கு, மஞ்சள் இலை
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூளி
18	<i>Creteva adansonii</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	கருங்காவி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகனை
23	<i>Ficus amphissima</i>	Kallitchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	அற்றுப்பாரசு
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	வில்லா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	பிசிம்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழ்மரம்
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	எச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்

40	<i>Premna mollissima</i>	Munnai	முள்ளை
41	<i>Premna serratifolia</i>	Naruminnai	நடு முள்ளை
42	<i>Premna tomentosa</i>	Malapoovarasu	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	வேண்டாங்க
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Putranjiva roxburghii</i>	Karipala	கரிபலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புங்கள் சோப்புக்காய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxdomic</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தாள் கொட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாந்தி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேன் மருது
57	<i>Toona ciliate</i>	Sandhana vembu	சந்தாள் வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூங்க
59	<i>Walsuratrifoliata</i>	valsura	வால்குரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithocellobium dulce</i>	Kodukkapuli	கொடுக்காபுளி

Appendix -III

Display Board

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

-----சாரங்கம்

சாரங்கத்தில் சுவாமி செயல்பாடுகளுக்கான கற்றுத்தழல் அனுமதி கிறகளை நித்தனைகளுக்கு உட்பட்டு வழங்கப்பட்டுள்ளது SEAAV, தேதி: 11/11/2023. கற்றுத்தழல் அனுமதி தேதி வரை செல்லத்தக்கதாக உள்ளது.

பகைம பகுதி வளர்ச்சி செயல்பாட்டுக்கான அங்கத் திட்டம்	சுவாமிநின் எல்லையைத் கற்றி வேலி அமைக்க வேண்டும் சாரங்கப்பள்ளத்தின் ஆழம் தளமாட்டத்திலிருந்து மீட்டத்த மிகமம் இருக்க வேண்டும். காற்றில் மாக ஏற்படாதவாறு அங்கம் பணிகளை மேற்கொள்ள வேண்டும்.
நட்பாட்டு பராமதிக்கப்பட வேண்டிய மரங்கள் எண்ணிக்கை:	வாகைக்கல் செல்லும் பாதையில் மாக ஏற்படாத அடைந்த தள்ளின முறைகளாக தள்ளி வாகைக்கல் மூலமாக அடையப்போது தெளிக்க வேண்டும். இளஞ்செல் அடைவையும் தூசி மாகபட்டையும் சுவாமிநின் எல்லையை கற்றி அடத்திடவான பகைம பகுதியை ஏற்படுத்த வேண்டும்.
அங்கத்தில் வெடி அடைவையும் சுவாமிநின் எல்லையை ஏற்படாதவாறு மற்றும் கற்கள் பற்க்காதவையும் பாதுகாப்பு நடவடிக்கைகளை உண்டிப்பாக செயல்படுத்தப்பட வேண்டும்	
அங்கத்தில் இருந்து ஏற்படும் இளஞ்செல் அடை 25 செ.மீ.யில் (25A) அடைந்தே மேல் ஏற்படாதவாறு தகுந்த கட்டுப்பாடுகளை மேற்கொள்ள வேண்டும்.	
அங்கம் சட்ட விதிகள் 1988 கிற அங்கத்தில் உள்ள பணியைகளுக்கு தகுந்த பாதுகாப்பு கருவிகள் வழங்கவதொடு கைதளமுள்ள கற்றிப்பாறு வாதிகளை செய்ய தூ வேண்டும்.	
கிராமம் அடவது பத்சவத்து வறியாக வாகைக்கல் செல்லும் சாலைகளை தெளத்து தங்க பராமதிக்க வேண்டும்.	
அங்கப்பணிகளை அடையில் உள்ள விவசாய பணிகள் மற்றும் தீத்தினைகளை பாதிக்கப்படக் கூடாது.	
தீத்தினைகளை பாதிக்கப்படாமல் இருப்பதை உறுதி செய்யும் வாகைக்கல் நிலத்தா தீதின் தத்தினை தெளத்து கைகாணிக்க வேண்டும்.	
அங்கத்தில் இருந்து கைம பாகுக்களை எடுத்துச் செல்லு கிராம மக்களுக்கு எத்த கிரகத்தினைகள் ஏற்படுத்தாதவாறு பாதுகாப்போடும் மற்றும் கற்றுத்தழல் பாதிக்கவாத வாகைக்கல் வாகைக்களை இயக்க வேண்டும்.	
அங்கப்பணிகள் முடிக்கப்பட்டவுடன் அங்கம் மூடல் திட்டத்தில் உள்ளவாறு அங்கத்தினை மூட வேண்டும்.	
அங்கம் நடவடிக்கைகளை முடித்தபின்னர் அங்கம் பகுதி மற்றும் அங்கம் நடவடிக்கைகளை இடப்பாறு ஏற்படக்கூடிய வேறு எத்தப் பகுதியையும் மறுகட்டுமணம் செய்ய தாவங்கள் விவங்குகள் ஆகியவற்றின் வளர்ச்சிக்கு ஏற்ற வகையில் பகைமப்பகுதியை உருவாக்க வேண்டும்.	
முழுமைபான நித்தனைகளை அறிய பாரிவேஷ ( <a href="http://parivesh.nic.in">http://parivesh.nic.in</a> ) என்சிற இணையதளத்தைப் பார்க்கவியல் மேறும் எத்தவித கற்றுத்தழல் சாத்த பகைகளுக்கு சென்னைகில் உள்ள கற்றுத்தழல் மற்றும் வள அமைச்சகத்தின் ஒருக்கிணைத்த வட்டா அலுவலகம்: 044 - 28222325 (அல்லது) தமித்தாடு மாக கட்டுப்பாடு வாகைக்கல் மாகவட்ட கற்றுத்தழல் செயற்பாணை அனுமகள்	

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