

**State Expert Appraisal Committee (SEAC)**

Minutes of 444<sup>th</sup> meeting of the State Expert Appraisal Committee (SEAC) held on 09.02.2024 (Friday) at SEIAA Conference Hall, 2<sup>nd</sup> Floor, Panagal Maligai, Saidapet, Chennai 600 015 for consideration of Building and construction project and Mining projects.

**Confirmation of Earlier Minutes**

The minutes of the 443<sup>rd</sup> SEAC meeting held on 08.02.2024 were circulated to the Members in advance and as there are no remarks, the Committee decided to confirm the minutes.

**Agenda No: 444-01**

**(File No: 8969/2023)**

**Proposed Rough Stone and Gravel Quarry over an extent of 2.09.5 Ha at S.F.Nos. 46/1 & 47 of Pachapalayam Village, Suler Taluk, Coimbatore District, Tamil Nadu by Thiru. R. K. Prabu - For Environmental Clearance. (SIA/TN/MIN/455834/2023, Dated:17.12.2023).**

The proposal was placed in the 444<sup>th</sup> Meeting of SEAC held on 09.02.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru. R. K. Prabu has applied for Environmental Clearance for the Proposed Rough Stone and Gravel Quarry over an extent of 2.09.5 Ha at S.F.Nos. 46/1 & 47 of Pachapalayam Village, Suler 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.
3. The salient features of the proposal are as follows:

File No	8969	Category	"B1" 1(a)
	SIA/TN/MIN/455834/2023, Dated:24.06.2023		EC

  
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Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.R.K.Prabu, No.13A, G.K.R.Nagar, Chinniyampalayam Post, Coimbatore District-641062.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel Quarry
3.	S.F Nos. of the quarry site with area break-up	:	46/1 & 47
4.	Village in which situated	:	Pachapalayam
5.	Taluk in which situated	:	Sulur
6.	District in which situated	:	Coimbatore
7.	Extent of quarry (in ha.)	:	2.09.5 Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10°52'54.01"N to 10°53'01.74"N 77°04'20.52"E to 77°04'25.29"E
9.	Topo Sheet No.	:	58 F/01
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
		:	Rough Stone – 8,38,000 m <sup>3</sup>
		:	Gravel – 41,900 m <sup>3</sup>

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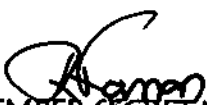
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	Mina ble Resources m <sup>3</sup> (RoM)	:	Rough Stone – 2,78,400 m <sup>3</sup>	Rough Stone – 2,78,400 m <sup>3</sup>
			Gravel – 31,648 m <sup>3</sup>	Gravel – 31,648 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone – 59,850 m <sup>3</sup>	Rough Stone – 59,850 m <sup>3</sup>
			Gravel – 12,212 m <sup>3</sup>	Gravel – 12,212 m <sup>3</sup>
	Maximum Depth in meters	:	42m BGL	
13.	Depth of water table	:	65m – 70m	
14.	Man Power requirement per day:	:	30 Nos.	
15.	Water requirement: 1. Drinking water & Domestic 2. Dust suppression 3. Green belt	:	3.5 KLD  1.0 KLD  1.5 KLD  1.0 KLD	
16.	Power requirement		TNEB  227990 Liters of HSD	
17.	Precise area communication approved by the Joint Director / Assistant Director(i/c), Department of Geology and Mining	:	Na.Ka.No.288/Kanimam/2021, dated: 16.09.2021	
18.	Mining Plan approved by Joint Director / Assistant	:	Rc.No.288/Mines/2021, dated: 29.10.2021	

  
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	Director(i/c), Department of Geology and Mining			
19.	Joint Director / Assistant Director(i/c), Department of Geology and Mining, 500m Cluster Letter		Rc.No.288/Mines/2021, dated: 29.10.2021	
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dated:12.02.2021	
21.	Project Cost (excluding EMP cost)	:	Rs. 70.76 Lakhs	
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
			Rough Stone	Gravel
		:	Max Total RoM in m³	2,78,400 m³ 31,648 m³
		:	Annual Max RoM in m³	59,850 m³ 12,212 m³
		:	Max Depth in mtrs	42m BGL
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 1920300/- recurring cost – Rs. 1783250/annum	
24.	CER cost (in Rs. Lakh).	:	Rs.5.0 Lakhs	
25.	Tor Issued		Lr.No.SEIAA-TN/F.No.8969/SEAC/ TOR-1137/2022 Dated:25.03.2022.	
26.	Public Hearing		18.04.2023	

  
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27.	EIA Report Submitted	21.12.2023.
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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 59,850 m<sup>3</sup> of rough stone & 12,212 m<sup>3</sup> of Gravel by maintaining the ultimate depth of mining upto 42m** 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) 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 mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 4) The Tipper Lorries/Trucks shall be covered with tarpaulin (or) any other mechanical means completely after completion of the loading the material before it is allowed in the public roads as committed by the Proponent.
- 5) The proponent shall shift the Tar mixing plant located with a safety distance of atleast 100 m from the boundary of the Lease area for ensuring the safety aspects.
- 6) The PP shall not employ any external agency for carrying out the blasting operation in the proposed quarry and he shall also install the temporary (or) permanent magazine approved by the concerned licensing authority **before the execution of the lease**, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.

  
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- 7) The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
- 8) The Blasting operation shall be carried out only in Day time between 12.00 -1:00 pm during the lunch period as committed by the Proponent.
- 9) **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 after obtaining necessary permission from the DMS/Chennai Region, 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 cluster of quarries located, 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.
- 10) As a part of monitoring the implementation of eco-friendly blasting operation, the PPs in the cluster shall regularly monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m (or) at any sensitive structures periodically once in a week through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 11) Considering the influence of the Cluster of quarries in operation, the PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' to be adopted in the cluster in the areas of drilling, blasting excavation, transportation and green belt development, in

  
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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.

- 12) **Since the waterbodies are situated nearby**, the PP shall prepare a Ground Water Management Programme based on the scientific studies carried out to assess the hydrogeological condition of the quarry within a period of one year from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 13) The PP shall carry out the amalgamation or the extraction of common boundary in accordance with the provisions of MMR 1961 after obtaining necessary statutory permission from the DMS/Chennai Region and the office of the concerned AD/DD (Mines).
- 14) 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 3<sup>rd</sup> year or when the depth of working touches 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.
- 15) The PPs in the cluster shall ensure that all the workmen have obtained the mandatory vocational training within a period of one month as per the provisions of Vocational Training Rules, 1966 after the lease execution in any

  
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one of the Group Vocational Training Centers (GVTC) located in Trichy, Salem, Chennai and Pandalgudi, operated under the guidance of DGMS, Chennai Region.

- 16) As accepted by the Project Proponent the CER cost is **Rs. 5 Lakhs** and the amount shall be spent towards Panchayat Union Middle School, Pachapalayam Panchayat for the activities as committed before obtaining CTO from TNPCB.

**Agenda No: 444 - 02**

**(File No.8979/2023)**

**Proposed Rough Stone and gravel quarry lease over an extent 3.10.0 Ha at S.F.Nos. 337/4A & 337/4B of Pachapalayam Village, Sulur Taluk, Coimbatore District, Tamil Nadu by Thiru. K. Raam Mohan - For Environmental Clearance.**


**(SIA/TN/MIN/455110/2023 dated: 11.12.2023)**

The proposal was placed for appraisal in the 444<sup>th</sup> Meeting of SEAC held on 09.02.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The project proponent, Thiru. K. Raam Mohan has applied for Environmental Clearance for the Proposed Rough Stone and gravel quarry lease over an extent 3.10.0 Ha at S.F.Nos. 337/4A & 337/4B of Pachapalayam Village, Sulur 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. It is an existing quarry which was previously operated by Thiru.K.P.Velusamy during the period 2011-16.
4. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.8979/SEAC/ToR-1138/2022, Dated: 25.03.2022 as the proposal falls under 'B1' category.
5. Public hearing was conducted on 18.04.2023.
6. Baseline monitoring period March – May 2022.
7. EIA Report submitted in the PARIVESH Portal on 11.12.2023.

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

File No		8979/2023	Category	B1
		455110/2023		1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru.K.Raam Mohan, S/o. R. Kanagasabapathy, No.13A, GKR Nagar, Chinniyampalayam Post, Coimbatore District - 641062.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone and Gravel Quarry	
3.	S.F Nos. of the quarry site	:	337/4A & 337/4B	
4.	Village in which situated	:	Pachapalayam	
5.	Taluk in which situated	:	Sulur	
6.	District in which situated	:	Coimbatore	
7.	Extent of quarry (in ha.)	:	3.10.0 ha	
8.	Latitude & Longitude of all corners of the quarry site	:	10°53'01.51"N to 10°53'11.66"N 77°04'48.90"E to 77°04'53.83"E	
9.	Topo Sheet No.	:	58 - F/01	
10.	Type of mining	:	Opencast- Mechanized Mining Method	
11.	Life of Projects	:	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 m³ (RoM)	:	Rough Stone – 7,01,181m³	-
		:	Gravel – 27,830m³	

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	Mina ble Resources m <sup>3</sup> (RoM)	Rough Stone m <sup>3</sup> – 2,90,377m <sup>3</sup>	-
		Gravel m <sup>3</sup> – 21,172m <sup>3</sup>	-
	Annual Peak Production in m <sup>3</sup>	Rough Stone - 59,577m <sup>3</sup>	-
		Gravel m <sup>3</sup> - 9,638m <sup>3</sup>	-
	Maximum Depth in meters	: 32m Below Ground Level (2m Gravel + 30m Rough Stone)	-
13.	Depth of water table	: 65m - 70m	
14.	Man Power requirement per day:	: 33 Nos.	
15.	Water requirement: 4. Drinking & Domestic 5. Dust suppression 6. Green belt	6.6 KLD 1.5 KLD 3.1 KLD 2.0 KLD	
16.	Power requirement	: 2,35,304 liters of HSD for the entire project life	
17.	Precise area communication approved by the Assistant Director, Dept. of G&M	: Na.Ka.No.187/Kanimam/2021, Dated: 22.09.2021.	
18.	Mining Plan approved by Assistant Director, Dept of Geology & Mining.	: Rc.No.187/Mines/2021, Dated: 29.10.2021.	
19.	500m cluster letter issued by the Assistant Director, Dept. of Geology and Mining with date	: Rc.No.187/Mines/2021, Dated: 29.10.2021.	

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20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 08.02.2024.		
21.	Project Cost (excluding EMP cost)	:	77,47,000/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
		:	Max Total RoM in m <sup>3</sup>	2,90,377m <sup>3</sup>	21,172m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>	59,577m <sup>3</sup>	9,638m <sup>3</sup>
		:	Max Depth in mtrs	32m Below Ground Level (2m Gravel + 30m Rough Stone)	
23.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 20,17,000/- Recurring Cost – Rs. 17,83,250/-		
24.	CER cost (in Rs. Lakhs).	:	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 59,577m<sup>3</sup> of Rough stone & 9638m<sup>3</sup> of gravel by restricting 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:

- 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) 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 mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 4) The PP shall furnish the Slope stability Action Plan with remedial measures including construction of benches & stabilization measures to the concerned AD (Mines) at the time of lease execution.
- 5) The Tipper Lorries/Trucks shall be covered with tarpaulin (or) any other mechanical means completely after completion of the loading the material before it is allowed in the public roads as committed by the Proponent.
- 6) The PP shall not employ any external agency for carrying out the blasting operation in the proposed quarry and he shall also install the temporary (or) permanent magazine approved by the concerned licensing authority **before the execution of the lease**, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 7) The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
- 8) The Blasting operation shall be carried out only in Day time between 12.00 -1:00 pm during the lunch period as committed by the Proponent.
- 9) **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 after obtaining necessary permission from the DMS/Chennai Region, to design the controlled blast parameters for

  
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reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the cluster of quarries located, 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.

- 10) As a part of monitoring the implementation of eco-friendly blasting operation, the PPs in the cluster shall regularly monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m (or) at any sensitive structures periodically once in a week through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 11) Considering the influence of the Cluster of quarries in operation, the PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' to be adopted in the cluster in the areas of drilling, blasting excavation, transportation and green belt development, 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.
- 12) **Since the waterbodies are situated nearby**, the PP shall prepare a Ground Water Management Programme based on the scientific studies carried out to assess the hydrogeological condition of the quarry within a period of one year from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras - Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG

  
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- Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 13) The PP shall carry out the amalgamation or the extraction of common boundary in accordance with the provisions of MMR 1961 after obtaining necessary statutory permission from the DMS/Chennai Region and the office of the concerned AD/DD (Mines).
- 14) 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 **within a period of six months form the date of lease execution** after obtaining prior permission from DMS/Chennai Region **for evaluating the slope stability monitoring mechanism for the existing quarry walls**, 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.
- 15) The PPs in the cluster shall ensure that all the workmen have obtained the mandatory vocational training within a period of one month as per the provisions of Vocational Training Rules, 1966 after the lease execution in any one of the Group Vocational Training Centers (GVTC) located in Trichy, Salem, Chennai and Pandalgudi, operated under the guidance of DGMS, Chennai Region. Within a period of six months from the commencement of mining operation, the PP shall install a Disaster Management Cell with prior approval obtained from the DMS/Chennai Region for carrying out the continuous monitoring activities in related to the slopes of the quarry walls and other mining components as observed by the DGMS, Chennai Region.
- 16) As accepted by the Project Proponent the CER cost is **Rs. 5 Lakhs** and the amount shall be spent towards Government School, Chinnagoundapuram Village for the

activities as committed before obtaining CTO from TNPCB.

**Agenda No: 444 - 03**

**(File No: 9138/2023)**

**Proposed Rough Stone Quarry Extent 2.66.0Ha S.F.Nos. 245/2A (Part), 246/1A (Part), 246/2, 248/2B and 248/5B Pachapalayam Village, Sulur Taluk, Coimbatore District Tamil Nadu by Thiru E. Ananthakumar- Environment Clearance.**

**(SIA/TN/MIN/455947/2023 dated 18.12.2023)**

The proposal placed in this 444<sup>th</sup> meeting of SEAC held on 08.02.2024. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru E. Ananthakumar has applied seeking Environmental Clearance for the proposed Rough Stone Quarry Extent: 2.66.0ha S.F.Nos. 245/2A (Part), 246/1A (Part), 246/2, 248/2B and 248/5B Pachapalayam Village, Sulur 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- Lr. No. SEIAA-TN/F.No. 4703/1(a)/EC.No.2688//2015 Dated 08.01.2016
4. SEIAA TOR Lr. No. SEIAA- TN /F. No .9138 / SEAC / TOR-1191/ 2022, Dated:06.07.2022 for the restricted depth of 43m BGL and for the production of 113630 cbm rough stone.
5. IRO(Chennai) CCR Lr. No: EP/12.1/2022-23/SEIAA/128/TN/1114, Dated: 20.10.2022
6. Existing Pits: Pit 1 - 153m (L) x 103m (W) x 30m (D) BGL  
Pit 2 - 97m (L) x 64m (W) x 23m (D) BGL
7. Public hearing conducted on 18.04.2023
8. Final EIA report submitted on 20.12.2023

File No	9103	Category	B1
	(SIA/TN/MIN/455727/2023)		

  
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Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.T. Eswara Gounder Ananthakumar, No:3/105, Malaiyadipalayam, Sulthan Pettai, Sulur Tauk, Coimbatore District.
2.	Type of quarrying (Ordinary Stone/Sand/Granite/ Limestone)	:	Rough Stone
3.	S.F Nos. of the quarry site with area break-up	:	S.F.Nos. 245/2A (Part), 246/1A (Part), 246/2, 248/2B and (248/5B)
4.	Village in which situated	:	Pachapalayam Village
5.	Taluk in which situated	:	Sulur Taluk
6.	District in which situated	:	Coimbatore
7.	Extent of quarry (in ha.)	:	2.66.0Ha
8.	Latitude & Longitude of all corners of the quarry site	:	10°53'00.20"N to 10°53'07.15"N 77°04'35.36"E to 77°04'41.56"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- 818686m <sup>3</sup> Gravel –

  
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			5232m <sup>3</sup>	
	Minal Resources in m <sup>3</sup> (RoM)	:	Rough Stone – 218175m <sup>3</sup>	Rough Stone – 201715m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone – 44895 m <sup>3</sup>	Rough Stone – 44425 m <sup>3</sup>
	Maximum Depth in meters	:	48 m BGL	43 m BGL
13.	Depth of water table	:	65-70m	
14.	Man Power requirement per day:	:	32 Nos.	
15.	Water requirement: 1. Drinking & domestic purposes (in kLD) 2. Dust suppression, Green Belt & Wet Drilling (in kLD)	:	6.6 kLD	
16.	Power requirement	:	TNEB & DG Set	
17.	Precise area communication approved by the Dept. of Geology & Mining	:	Rc.No.186/Mines/2022, Dated 14.02.2022	
18.	Mining Plan approved by Dept. of Geology & Mining	:	Rc.No.186/Mines/2022 Dated:01.03.2022.	
19.	500m Cluster Letter issued by the Dept. of Geology & Mining	:	Roc.No.186/Mines/2022 Dated:03.03.2022.	
20.	VAO Certificate regarding Structures within 300m Radius	:	Letter Dated:03.03.2022	
21.	Project Cost (excluding EMP cost)	:	Rs.87,70,000	

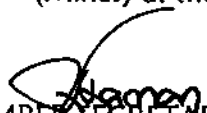
  
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22.	EC Recommendation	:	Validity	5 years' subject to the following upper limits.
		:		Rough Stone
		:	Max RoM in m <sup>3</sup>	201715
		:	Annual Max RoM in m <sup>3</sup>	44425
		:	Max Depth in m	43m BGL (restricted)
23.	EMP cost (in Rs. Lakh).	:	Total EMP: Rs.11,980,783/-	
24.	CER cost (in Rs. Lakh).	:	Rs. 5.0 Lakh as accepted by the PP	

Based on the presentation and documents furnished by the project proponent, **SEAC** decided to recommend the proposal for the grant of **Environmental Clearance** for the annual peak RoM production capacity not exceeding **44425 m<sup>3</sup>** of rough stone by maintaining the ultimate depth of mining of **43m 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) 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 furnish the Slope stability Action Plan with remedial measures including construction of benches & stabilization measures to the concerned AD (Mines) at the time of lease execution.

  
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- 4) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 5) The Tipper Lorries/Trucks shall be covered with tarpaulin (or) any other mechanical means completely after completion of the loading the material before it is allowed in the public roads as committed by the Proponent.
- 6) The PP shall not employ any external agency for carrying out the blasting operation in the proposed quarry and he shall also install the temporary (or) permanent magazine approved by the concerned licensing authority **before the execution of the lease**, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 7) The PP shall only carry out the **NONEL-based (or) Electronic Detonator based blasting operation with muffle blasting techniques** for controlling the environmental impacts.
- 8) The Blasting operation shall be carried out only in Day time between 12.00 - 2:00 pm during the lunch period as committed by the Proponent, with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such hilly area have taken proper shelter.
- 9) **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 **after obtaining necessary permission from the DMS/Chennai Region**, 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 cluster of quarries located, 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

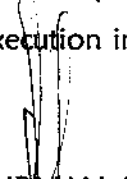
  
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SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

- 10) As a part of monitoring the implementation of eco-friendly blasting operation, the PPs in the cluster shall regularly monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m (or) at any sensitive structures periodically once in a week through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 11) Considering the influence of the Cluster of quarries in operation, the PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' to be adopted in the cluster in the areas of drilling, blasting excavation, transportation and green belt development, 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.
- 12) 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 from the commencement of mining operation** after obtaining prior permission from DMS/Chennai Region **for evaluating the slope stability monitoring mechanism for the existing quarry walls**, 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.
- 15) The PPs in the cluster shall ensure that all the workmen have obtained the mandatory vocational training within a period of one month as per the provisions of Vocational Training Rules, 1966 after the lease execution in any

  
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one of the Group Vocational Training Centers (GVTC) located in Trichy, Salem, Chennai and Pandalgudi, operated under the guidance of DGMS, Chennai Region.

- 16) As accepted by the Project Proponent the CER cost of **Rs.5.0 lakh** and the amount shall be spent for the following committed activities at Government School, Malaipalayam, Sulthanpettai Union, Coimbatore District before obtaining CTO from TNPCB.

**Agenda No: 444 - 04**

**(File No: 9103/2023)**

**Proposed Rough Stone Quarry over an Extent: 4.02.0Ha S.F.No.940/1 (Part-1) of Thiyanadurgam Village, Shoolagiri Taluk, Krishnagiri District Tamil Nadu by Thiru T. Kesava Moorthy- For Environment Clearance.**

**(SIA/TN/MIN/455727/2023 dated 16.12.2023)**

The proposal placed in this 444<sup>th</sup> meeting of SEAC held on 08.02.2024. The Project Proponent made a detailed presentation on the proposal. The details of the project furnished by the proponent are available on the PARIVESH web portal (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, has applied seeking Environment Clearance for the Proposed Rough Stone Quarry lease over an Extent of 4.02.0Ha S.F.No.940/1 (Part-1) of Thiyanadurgam Village, Shoolagiri Taluk, Krishnagiri District Tamil Nadu.
2. The proposed quarry/activity is covered under **Category "B1"** of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006, as amended.
3. SEIAA TOR Lr. No. SEIAA- TN /F. No .9103 /SEAC / TOR-1173/2022, Dated:14.06.2022 for the restricted depth of 41m AGL and for the production of 764625 Cbm rough stone.
4. Public hearing conducted on 18.08.2023
5. Final EIA report submitted on 22.12.2023

<b>File</b>	<b>9103</b>	<b>Category</b>	<b>B1</b>
<b>No</b>	<b>(SIA/TN/MIN/455727/2023)</b>		

  
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<b>Sl. No</b>	<b>Salient Features of the Proposal</b>		
1.	Name of the Owner/Firm	:	Thiru.T. Kesavamoorthy S/o Thimarayappa, D.No 2/38, Varaganapalli, Nagamangalam Post, Denkanikottai Taluk, 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	:	S.F.No.940/1 (Part-1)
4.	Village in which situated	:	Thiyanadurgam Village
5.	Taluk in which situated	:	Shoolagiri Taluk
6.	District in which situated	:	Krishnagiri
7.	Extent of quarry (in ha.)	:	4.02.0Ha
8.	Latitude & Longitude of all corners of the quarry site	:	12°36'17.33"N to 12°36'24.06"N 77°53'47.76"E to 77°53'58.80"E
9.	Topo Sheet No.	:	57 -H/14
10.	Type of mining	:	Opencast mechanized mining
11.	Life of Project	:	10 years
	Lease Period	:	10 years
	Mining Plan Period	:	10 years
12.	Mining Plan Details	:	As per approved Mining Plan
	Geological Resources m <sup>3</sup> (RoM)	:	Rough stone- 21,29,400m <sup>3</sup>
			As modified by SEAC

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	Minable Resources in m <sup>3</sup> (RoM)	:	Rough Stone – 18,50,770m <sup>3</sup>	-
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone – 236410 m <sup>3</sup>	-
	Maximum Depth in meters	:	76 m AGL	
13.	Depth of water table	:	65-70m	
14.	Man Power requirement per day:	:	46 Nos.	
15.	Water requirement: 3. Drinking & domestic purposes 4. Dust suppression, Green Belt & Wet Drilling	:	2.7 kLD 0.8 kLD  1.30 kLD & 0.60 kLD	
16.	Power requirement	:	TNEB & DG Set	
17.	Precise area communication approved by the Dept. of Geology & Mining	:	Rc.No.228/2019/Mines, Dated 13:06:2019	
18.	Mining Plan approved by Dept. of Geology & Mining	:	Roc.No.228/2019/Mines Dated:30.07.2019.	
19.	500m Cluster Letter issued by the Dept. of Geology & Mining	:	Roc.No.228/2019/Mines Dated:30.07.2019	
20.	VAO Certificate regarding Structures within 300m Radius	:	Letter Dated:26.11. 2021	
21.	Project Cost (excluding EMP cost)	:	Rs.2,68,00,000	

  
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22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.
				Rough Stone
		:	Max RoM in m <sup>3</sup> (10 YEARS)	1850770
		:	Annual Max RoM in m <sup>3</sup>	236410
		:	Max Depth in m	76m AGL
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs.37.86 Lakh Recurring cost – Rs. 32.78 Lakh + 5% of inflation cost every year	
24.	CER cost (in Rs. Lakh).	:	Rs 5 Lakh towards conservation measure at Cauvery North Wild Life Sanctuary)	

Based on the presentation and documents furnished by the project proponent, **SEAC** decided to recommend the proposal for the grant of **Environmental Clearance** for the annual peak RoM production capacity not exceeding 236410 m<sup>3</sup> of Rough stone by maintaining the ultimate depth of mining of 76m AGL, 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 proponent shall provide the particulars for carrying out the plantation of 2000 Nos. of tall saplings of native species within the proposed mining area as committed before obtaining CTO from TNPCB.
- 2) 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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- 3) 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.
- 4) The PP shall furnish the Slope stability Action Plan with remedial measures in the hilly terrain including construction of benches from top to downwards and not facing towards the village location/habitations with a proper haul road formation & construction of garland drainage with the precipitation tank located in regulating the streamline of water leading to the neighbouring waterbodies/tank to the concerned AD (Mines) at the time of lease execution.
- 5) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 6) The Tipper Lorries/Trucks shall be covered with tarpaulin (or) any other mechanical means completely after completion of the loading the material before it is allowed in the village roads as committed by the Proponent.
- 7) The PP shall not employ any external agency for carrying out the blasting operation in the proposed quarry and he shall also install the temporary (or) permanent magazine approved by the concerned licensing authority **before the execution of the lease**, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 8) The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
- 9) The Blasting operation shall be carried out only in Day time between 12.00 - 1:00 pm during the lunch period as committed by the Proponent.
- 10) **Since the structures are situated within a radial distance of 500 m in hilly terrain,** the PP shall carry out the scientific studies **within a period of six months** from the commencement of quarrying operations after obtaining necessary permission


  
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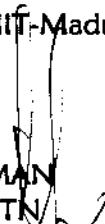
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from the DMS/Chennai Region, to design the controlled blast parameters for reducing the blast-induced ground/air- vibrations and eliminating the fly rock from the blasting operations carried out in the cluster of quarries located, by involving anyone 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.

- 11) As a part of monitoring the implementation of eco-friendly blasting operation, the PPs in the cluster shall regularly monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m (or) at any sensitive structures periodically once in a week through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 12) Considering the influence of the Cluster of quarries in operation in the hilly terrain, the PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' to be adopted in the cluster in the areas of drilling, blasting excavation, transportation and green belt development, 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.
- 13) **Since the waterbodies are situated nearby**, the PP shall prepare a Ground Water Management Programme based on the scientific studies carried out to assess the hydrogeological condition of the quarry within a period of one year from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras,

  
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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.

- 14) The PP shall carry out the amalgamation or the extraction of common boundary in accordance with the provisions of MMR 1961 after obtaining necessary statutory permission from the DMS/Chennai Region and the office of the concerned AD/DD (Mines).
- 15) 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 **within a period of six months form the date of lease execution** after obtaining prior permission from DMS/Chennai Region **for evaluating the slope stability monitoring mechanism for the existing quarry walls**, 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.
- 16) The PPs in the cluster shall ensure that all the workmen have obtained the mandatory vocational training within a period of one month as per the provisions of Vocational Training Rules, 1966 after the lease execution in any one of the Group Vocational Training Centers (GVTC) located in Trichy, Salem, Chennai and Pandalgudi, operated under the guidance of DGMS, Chennai Region.
- 17) As accepted by the Project Proponent the **Rs 5 lakh** to be spent for conservation measures at **Cauvery North Wild Life Sanctuary** in consultation with the DFO before obtaining CTO from TNPCB.

Agenda No: 444 - 05

  
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(File No: 9104/2023)

Proposed Rough stone quarry lease over an extent of 4.24.5 Ha S.F.No.940/1 (Part-2), Thiyanadurgam Village, Shoolagiri Taluk, Krishnagiri District, Tamil Nadu by Thiru N. Narayanan- For Environmental Clearance. (SIA/TN/MIN/455538/2023, Dated: 14.12.2023)

The proposal was placed in 444<sup>th</sup> SEAC meeting held on 09.02.2024. The project proponent has given a detailed presentation. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Project Proponent, Thiru N. Narayanan has applied for Terms for Reference for the proposed rough stone quarry lease over an extent of 4.24.5 Ha S.F.No.940/1 (Part-2), Thiyanadurgam Village, Shoolagiri Taluk, Krishnagiri 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. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.9104/SEAC/ToR - 1177/2022, Dated: 13.06.2022.
4. Public hearing was conducted on 18.08.2023.
5. Final EIA report submitted on 22.12.2023.

The salient features of the proposal are as follows:

File No		9104/2023	Category	B1
		455538/2023		1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	N.Narayanan, S/o. Nallappa No.3/38, Sigkegoundanur Nagamangalam Post, Denkanikottai Taluk Krishnagiri District - 635 113.	

  
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2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough Stone Quarry	
3.	S.F Nos. of the quarry site with area break-up	:	940/1(Part-2)	
4.	Village in which situated	:	Thiyanadurgam	
5.	Taluk in which situated	:	Pollachi	
6.	District in which situated	:	Coimbatore	
7.	Extent of quarry (in ha.)	:	4.24.5 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	12°36'14.45"N to 12°36'21.97"N 77°53'57.46"E to 77°54'07.76"E	
9.	Topo Sheet No.	:	57 H/14	
10.	Type of mining	:	Opencast Mechanized Mining	
11.	Life of Project	:	10 years	
	Lease Period	:	10Years	
	Mining Plan Period	:	5 Years (Two spell)	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone	Rough Stone
		:	20,27,750m <sup>3</sup>	
	Minaable Resources m <sup>3</sup> (RoM)	:	Rough Stone	Rough Stone
		:	10,12,320m <sup>3</sup>	
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone	Rough Stone
		:	1,56,000m <sup>3</sup>	
13.	Maximum Depth in meters	:	76m (66m – AGL + 10m – BGL)	
		:		
13.	Depth of water table	:	70m BGL	
14.	Man Power requirement per day:	:	51 Nos	

  
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15.	Water requirement: 7. Drinking & utilized water 8. Dust suppression 9. Green belt	:	2.5 KLD 0.4 KLD 0.6 KLD 1.5 KLD
16.	Power requirement	:	TNEB 203 Litres of HSD per day
17.	Precise area communication approved by District Collector, Geology & Mining	:	Na. Ka No.229/2019/Kanimam, dated: 13.06.2019
18.	Mining Plan approved by Deputy Director, Dept of Geology & Mining.	:	Roc.No.229/2019/Mines, dated: 09.11.2023.
19.	Department of G&M, Deputy Director, 500m Cluster Letter	:	Roc.No.229/2019/Mines, dated: 30.07.2019.
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 24.02.2023
21.	Project Cost (excluding EMP cost)	:	Rs. 1,75,98,000
22.	EC Recommendation	:	Validity 30 years subject to the following upper limits. Rough Stone Quarry
		:	Max Total RoM in m <sup>3</sup> 10,12,320m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup> 1,56,000m <sup>3</sup>
		:	Max Depth in mtrs 76m (66m – AGL + 10m – BGL)


  
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23.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 37,43,150 Recurring Cost – Rs. 26,31,856
24.	CER cost (in Rs. Lakhs).	:	Rs. 5,00,000

Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding **1,56,000m<sup>3</sup> of rough stone** by **maintaining the ultimate depth of mining up to 76m (66m – AGL + 10m – 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) 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 furnish the Slope stability Action Plan with remedial measures in the hilly terrain including construction of benches from top to downwards and not facing towards the village location/habitations with a proper haul road formation & construction of garland drainage with the precipitation tank located in regulating the streamline of water leading to the neighbouring waterbodies/tank to the concerned AD (Mines) at the time of lease execution.
- 4) The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.

  
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- 5) The Tipper Lorries/Trucks shall be covered with tarpaulin (or) any other mechanical means completely after completion of the loading the material before it is allowed in the village roads as committed by the Proponent.
- 6) The PP shall not employ any external agency for carrying out the blasting operation in the proposed quarry and he shall also install the temporary (or) permanent magazine approved by the concerned licensing authority **before the execution of the lease**, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 7) The PP shall only carry out the NONEL-based (or) Electronic Detonator based blasting operation for controlling the environmental impacts with keeping the security guards at a radial distance of 500 m by ensuring that all persons within such area have taken proper shelter.
- 8) The Blasting operation shall be carried out only in Day time between 12.00 - 1:00 pm during the lunch period as committed by the Proponent.
- 9) **Since the structures are situated within a radial distance of 500 m in hilly terrain**, the PP shall carry out the scientific studies **within a period of six months** from the commencement of quarrying operations after obtaining necessary permission from the DMS/Chennai Region, 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 cluster of quarries located, 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.
- 10) As a part of monitoring the implementation of eco-friendly blasting operation, the PPs in the cluster shall regularly monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m (or) at any sensitive structures

  
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periodically once in a week through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.

- 11) Considering the influence of the Cluster of quarries in operation in the hilly terrain, the PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' to be adopted in the cluster in the areas of drilling, blasting excavation, transportation and green belt development, 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.
- 12) **Since the waterbodies are situated nearby**, the PP shall prepare a Ground Water Management Programme based on the scientific studies carried out to assess the hydrogeological condition of the quarry within a period of one year from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 13) The PP shall carry out the amalgamation or the extraction of common boundary in accordance with the provisions of MMR 1961 after obtaining necessary statutory permission from the DMS/Chennai Region and the office of the concerned AD/DD (Mines).
- 14) 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 **within a period of six months form the date of lease execution** after obtaining prior permission from DMS/Chennai Region **for evaluating the slope**

  
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**stability monitoring mechanism for the existing quarry walls**, 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.

15. The PPs in the cluster shall ensure that all the workmen have obtained the mandatory vocational training within a period of one month as per the provisions of Vocational Training Rules, 1966 after the lease execution in any one of the Group Vocational Training Centers (GVTC) located in Trichy, Salem, Chennai and Pandalgudi, operated under the guidance of DGMS, Chennai Region.

16. As accepted by the Project Proponent, an amount of Rs. 5 Lakhs shall be spent for the activities as committed towards mitigation cost / conservation cost for the Cauvery North Wildlife Sanctuary in consultation with the DFO concerned and the same shall be included in the EMP cost.

**Agenda No: 444-06**

**(File No: 9549/2022)**

**Existing Grey Granite quarry over an extent of 3.19.5 Ha at S.F.Nos. 347/1, 347/2, 347/4, 347/5, 348/4, 348/5, 348/6B1, 348/6C and 348/6D1 of Jagadevipalayam Village, Bargur Taluk, Krishnagiri District, Tamil Nadu by M/s. Everking Granites - For Environmental Clearance. (SIA/TN/MIN/454002/2023, Dated: 02.12.2023)**

The proposal was placed for appraisal in this 444<sup>th</sup> meeting of SEAC held on 09.02.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). **The SEAC noted the following:**

1. The project proponent, M/s. Everking Granites has applied for Environmental Clearance for the Existing Grey Granite quarry over an extent of 3.19.5 Ha at S.F.Nos. 347/1, 347/2, 347/4, 347/5, 348/4, 348/5, 348/6B1, 348/6C and

  
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348/6D1 of Jagadevipalayam Village, Bargur Taluk, Krishnagiri 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. Earlier, the project proponent has obtained EC from DEIAA vide Lr.No.36/DEIAA-KGI/EC No.25/2018 dated: 27.02.2018 for the Grey Granite quarry over an extent of 3.19.5 Ha at S.F.Nos. 347/1, 347/2, 347/4, 347/5, 348/4, 348/5, 348/6B1, 348/6C and 348/6D1 of Jagadevipalayam Village, Bargur Taluk, Krishnagiri District, Tamil Nadu, for the production quantity of 52,459 m<sup>3</sup> of Grey Granite upto the depth of 30m.
4. The precise area communication was issued for the period of 20 years. The approved mining plan is for 5 Years. The annual peak production shall not exceed 20,130 m<sup>3</sup> ROM which includes 6039 m<sup>3</sup> of Grey Granite Recovery (@30%) & 14,091 m<sup>3</sup> of Granite Rejects (@70%) for an ultimate depth of 30m.
5. ToR along with Public Hearing issued vide Lr No. SEIAA-TN/F.No.9549/SEAC/ToR-1513/2023 Dated: 01.08.2023
6. Public hearing conducted on 26.10.2023
7. EIA Report submitted on 15.12.2023

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

1. The PP shall obtain Certified Compliance Report (CCR) from Integrated Regional Office, MoEF&CC, Chennai for the earlier Environmental Clearance obtained from DEIAA.

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

**Agenda No: 444-07**

**File No: 9550/2024**

  
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**Existing Grey Granite Quarry lease over an extent 1.56.5 Ha at S.F.Nos.353/2A1B, 2A7, 2B, 2C1 & 2E1A, Jagadevipalayam Village Bargur Taluk, Krishnagiri District, Tamil Nadu by Thriu E. Jagadeesan – For Environmental clearance (SIA/TN/MIN/454104/2022 Dt:02.12.2023)**

The details of the proposed project are given in the website (parivesh.nic.in).


**The SEAC noted the following:**

1. Earlier, EC was issued vide DEIAA Lr. No. 03/DEIAA-KGI/EC No.104/2018 Dt: 27.08.2018 valid upto 26.08.2023 for Grey Granite Quarry lease over an extent 1.56.5 Ha at S.F.Nos. 353/2A1B, 2A7, 2B, 2C1 & 2E1A, Jagadevipalayam Village Bargur Taluk, Krishnagiri District, Tamil Nadu and production of 9374 Grey Granite & Ultimate depth upto 6m.
2. The project proponent, Thriu E. Jagadeesan has applied for Environmental Clearance for the Existing Grey Granite Quarry lease over an extent 1.56.5 Ha at S.F.Nos.353/2A1B, 2A7, 2B, 2C1 & 2E1A, Jagadevipalayam Village Bargur Taluk, Krishnagiri District, Tamil Nadu.
3. The project/activity is covered under category “B1” of Item 1 (a) “Mining of Minerals Projects” of the schedule to the EIA Notification, 2006.
4. ToR vide. Lr No. SEIAA-TN/F.No.9550/ToR-1514/2022 Dated:01.08.2023.
5. Public Hearing Conducted on 26.10.2023.
6. EIA Received on 14.12.2023.
7. The Mining Lease was issued for the period of 20 Years. The approved current scheme mining plan for the period of 5 Years & production should not exceed RoM: 51764m<sup>3</sup>, Grey Granite (30% recovery) - 15529 m<sup>3</sup>, Granite Waste (70%)- 36235 m<sup>3</sup>, Topsoil - 1131m<sup>3</sup> & Weathered Rock - 4484 m<sup>3</sup> with the Ultimate depth shall not exceed 19m. The annual peak production shall not exceed 1040 m<sup>3</sup>(4<sup>th</sup> year)

Based on the presentation and documents furnished by the project proponent, SEAC decided to defer and seek additional particulars

- i) Certified compliance Report obtained from IRO(SZ), MoEF&CC.

  
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- ii) Photographs of fencing and green belt plantation with native tree saplings with highest carbon sequestration potential (like Peepal Tree (or) Ficus Religiosa) in the proposed mining area.

iii) AD/DD letter in regard to Pit dimension and last transport receipt.

**Agenda No: 444-08**

**(File No:9067/2023)**

**Proposed Rough Stone & Gravel quarry lease over an extent of 4.98.0 Ha in S.F.Nos.28/1, 29/1, 29/2, 30/1A1, 30/1A2, 30/1B, 30/1C1, 30/1C2, 30/2A, 30/2B, 30/3D, 31/1A, 31/1B, 31/2A, 47/10C, 48/4A, 48/4B & 48/4C, Chettipillayarnatham Village, Thirumangalam Taluk, Madurai District, Tamil Nadu by Thiru.P. Kandavelu - For Environmental Clearance. (SIA/TN/MIN/454109/2023 Dt:02.12.2023).**


The proposal was placed in this 444<sup>th</sup> Meeting of SEAC held on 09.02.2024. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, Thiru. P. Kandavelu has applied for applied for Environmental Clearance for the Proposed Rough Stone and Gravel quarry lease area over an extent of 4.98.0 Ha in S.F.Nos.28/1, 29/1, 29/2, 30/1A1, 30/1A2, 30/1B, 30/1C1, 30/1C2, 30/2A, 30/2B, 30/3D, 31/1A, 31/1B, 31/2A, 47/10C, 48/4A, 48/4B & 48/4C, Chettipillayarnatham Village, Thirumangalam Taluk, Madurai 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. The salient features of the proposal are as follows:

File No	9067	Category	"B1" 1(a)
	SIA/TN/MIN/454109/2023 Dt:02.12.2023		EC
Sl. No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Thiru.P.Kandavelu, S/o. K.Palanisamy,

  
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			Yadavar street, Iravathanallur, Madruai District – 625 009.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Rough stone & Gravel	
3.	S.F Nos. of the quarry site with area break-up	:	28/1, 29/1, 29/2, 30/1A1, 30/1A2, 30/1B, 30/1C1, 30/1C2, 30/2A, 30/2B, 30/3D, 31/1A, 31/1B, 31/2A, 47/10C, 48/4A, 48/4B & 48/4C	
4.	Village in which situated	:	Chettipillayarnatham	
5.	Taluk in which situated	:	Thirumangalam	
6.	District in which situated	:	Madurai	
7.	Extent of quarry (in ha.)	:	4.98.0 Ha	
8.	Latitude & Longitude of all corners of the quarry site	:	09°47'15.78"N to 09°47'27.56"N 77°57'58.92"E to 77°58'07.43"E	
9.	Topo Sheet No.	:	58 – G/13	
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
	Geological Resources m <sup>3</sup> (RoM)	:	Rough Stone – 19,92,000 m <sup>3</sup>	Rough Stone – 19,92,000 m <sup>3</sup>
		:	Gravel – 99,600 m <sup>3</sup>	Gravel – 99,600 m <sup>3</sup>


	Mina ble Resources m <sup>3</sup> (RoM)	:	Rough Stone – 8,64,680 m <sup>3</sup>	Rough Stone – 8,64,680 m <sup>3</sup>
			Gravel – 80,820 m <sup>3</sup>	Gravel – 80,820 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	Rough Stone – 90,400 m <sup>3</sup>	Rough Stone –90,400 m <sup>3</sup>
			Gravel – 42,432 m <sup>3</sup>	Gravel – 42,432 m <sup>3</sup>
	Maximum Depth in meters	:	42m BGL	
13.	Depth of water table	:	65m – 70m	
14.	Man Power requirement per day:	:	49 Nos.	
15.	Water requirement: 10. Drinking water & Domestic 11. Dust suppression & 3. Green belt	:	2.1 KLD 0.7 KLD 0.5 KLD 0.9 KLD	
16.	Power requirement	:	TNEB 368302 Liters of HSD	
17.	Precise area communication approved by the Joint Director / Assistant Director(i/c), Department of Geology and Mining	:	Na.Ka.No.668/Kanimam/2020, dt:24.09.2021	
18.	Mining Plan approved by Joint Director / Assistant Director(i/c), Department of Geology and Mining	:	Rc.No.668/Mines/2020, dt:03.11.2021	

  
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19.	Joint Director / Assistant Director(i/c), Department of Geology and Mining, 500m Cluster Letter		Rc.No.668/Mines/2020, dt:20.01.2022		
20.	VAO Certificate Regarding Structures within 300m Radius		Letter dt: 01.12.2021		
21.	Project Cost (excluding EMP cost)	:	Rs.96.30 Lakh		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
		:	Max Total RoM In m³	8,53,375 m³	78,300 m³
		:	Annual Max RoM In m³	90,400 m³	42,432 m³
		:	Max Depth in mtrs	42m BGL	
23.	EMP cost (in Rs. Lakh).	:	Capital cost – Rs. 3827600/- recurring cost – Rs. 2467444/-		
24.	CER cost (in Rs. Lakh).	:	Rs. 5.0 lakhs		
25.	Tor Issued	:	Lr No. SEIAA-TN/F.No.9067/SEAC/ TOR-1179/2022 Dated:13.06.2022.		
26.	Public Hearing	:	22.08.2023.		
27.	EIA Report Submitted	:	14.09.2006.		

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

  
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annual peak production capacity of not **exceeding 90,400 m<sup>3</sup> of rough stone & 42,432 m<sup>3</sup> of Gravel by maintaining the ultimate depth of mining up to 42m** 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) 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 mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
- 4) The PP shall install the Mines Office & Rest Shelter with adequate toilet facilities in the small ledge placed at the right bottom of the leasehold area as shown in the approved Mining Plan and it shall not be utilized for the quarrying activities.
- 5) The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
- 6) **Since the structures are situated within a radial distance of 500 m**, the PP shall carry out the scientific studies **within a period of six months** from the commencement of quarrying operations after obtaining prior permission from the DMS/Chennai Region, 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 quarry, by involving anyone of these


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

- 7) The PP shall furnish an affidavit indicating the Standard Operating Procedures (SoP) for carrying out the 'Best Mining Practices' in the cluster in the areas of drilling, blasting excavation, transportation and green belt development, 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.
- 8) As a part of monitoring the implementation of eco-friendly blasting operation, the PPs in the cluster shall regularly monitor the blast-induced ground & air vibration (noise) by installing the DGMS approved 'Vibration Monitoring System (VMS)' at a distance of 300m, 500m, 750 m (or) at any sensitive structures periodically once in a week through a statutory person appointed for the purposes. A copy of such post-monitoring report shall be submitted to the AD/Mines-DGM, Director of Mines Safety / Chennai Region, the SEIAA-TN, and the IRO/MoEF, as a part of Environmental Compliance without any deviation.
- 9) 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 3<sup>rd</sup> year or when the depth of working touches 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.
- 10) As accepted by the Project Proponent the CER cost is **Rs. 5 Lakhs** and the amount

  
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shall be spent towards Panchayat Union Middle School, Rayapalayam for the activities as committed before obtaining CTO from TNPCB.

**Agenda No: 444-09**

**(File No: 9276/2023)**

Existing Rough Stone & Gravel quarry lease over an extent of 4.68.5 Ha at S.F.No.51/1A, 51/1B, 51/3A, 51/3B1, 51/3B2, 51/3B3, 51/3C, 51/4A1, 51/4A2, 51/4B1, 51/4B2, 51/5A, 74/1A1, 74/1A2, 74/1A3, 74/1A4, 74/1A5, 74/2, 75/4B, 75/5, 75/6, 75/8A, 75/8B, 75/9, 75/10A, 75/10B, 75/11, 75/12, 75/13A&75/13B Chettipillayarnatham Village, Thirumangalam Taluk, Madurai District, Tamil Nadu by Thiru. P. Shanmugam - For Environmental Clearance. (SIA/TN/MIN/454393/2023, Dt. 05/12/2023)

The details of the proposed project are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. Earlier, EC was issued vide SEIAA Lr. No.SEIAA-TN/F.No.2534/EC/1(a)/1782/2014 dated: 27.03.2015 valid up to 26.03.2020 for the proposed Rough Stone Quarrying over an extent of 4.41.0ha at S.F No.51/2A, 2B, 2C, 3A, 3B1, 3B2, 3B3, 3C, 4A1, 4A2, 4B1, 4B2, 5A, 5B, 6A, 6B, 74/1A1, 1A2, 1A3, 1A4, 1A5, 1A6, 1A7, 1A8, 2, 4A, 10, 11, 73/4, 6, 7, 75/11, Chettipillayarnatham Village, Thirumangalam Taluk, Madurai District by Thiru P. Kanthavelu for production of 263245 m3 of Rough Stone & 44016 of Gravel & Ultimate depth up to 22m.
2. The project proponent, Thiru. P.Shanmugam has applied for Environmental Clearance for the existing Rough Stone & Gravel quarry lease over an extent of 4.68.5 Ha at S.F.No.51/1A, 51/1B, 51/3A, 51/3B1, 51/3B2, 51/3B3, 51/3C, 51/4A1, 51/4A2, 51/4B1, 51/4B2, 51/5A, 74/1A1, 74/1A2, 74/1A3, 74/1A4, 74/1A5, 74/2, 75/4B, 75/5, 75/6, 75/8A, 75/8B, 75/9, 75/10A, 75/10B, 75/11, 75/12, 75/13A&75/13B Chettipillayarnatham Village, Thirumangalam Taluk, Madurai District, Tamil Nadu.
3. The project/activity is covered under category "B1" of Item 1 (a) "Mining of Minerals Projects" of the schedule to the EIA Notification, 2006.

  
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4. 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 724757 m<sup>3</sup> of Rough Stone and 12938m<sup>3</sup> of Gravel. The annual peak production is 168310m<sup>3</sup> of Rough Stone (5<sup>th</sup> year) and 10168m<sup>3</sup> of gravel (3<sup>rd</sup> year). The depth of mining is 47m BGL.
5. ToR vide. Lr No. SEIAA-TN/F.No.9276/SEAC/ToR-1209/2022 Dated:14.07.2022 for production of 647327 m<sup>3</sup> of Rough Stone and 12938m<sup>3</sup> of Gravel & restricted ultimate depth upto 42m.
6. Public Hearing Conducted on 22.08.2023.
7. EIA Received on 14.12.2023.

Based on the presentation and documents furnished by the project proponent, SEAC decided to defer and seek additional particulars

- i) Certified compliance Report obtained from IRO(SZ), MoEF&CC.
- ii) Photographs of fencing and green belt plantation with native tree saplings with highest carbon sequestration potential (like Peepal Tree (or) Ficus Religiosa) in the proposed mining area.
- iii) AD/DD letter in regard to Pit dimension and last transport receipt.

**Agenda No: 444 - 10**

**(File No.9848/2023)**


**Proposed Multi colour Granite quarry lease over an extent 2.31.5 Ha at S.F.No.1/1 (Part) & 1/2B(Part) of Thangayur Village, Edappadi Taluk, Salem District, Tamil Nadu by Thiru. B. Venkatesh - For Environmental Clearance.**

**(SIA/TN/MIN/456164/2023 dated: 21.12.2023)**

The proposal was placed for appraisal in the 444th Meeting of SEAC held on 09.02.2023. 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. B. Venkatesh has applied for Environmental Clearance for the Proposed Multi colour Granite quarry lease over an extent 2.31.5 Ha at S.F.No. 1/1 (Part) & 1/2B (Part) of Thangayur Village, Edappadi

  
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Taluk, Salem 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. The lessee has obtained Environmental Clearance from the SEIAA, Tamil Nadu vide Lr. No. SEIAA-TN/F.No. 5016/1(a)/EC.No.3309//2016 Dated 15.07.2016.
4. CCR File No: EP/12.1/2022-23/SEIAA/296/TN/576, Dated: 27.05.2023.
5. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.9848/SEAC/ToR-1439/2023, Dated: 21.04.2023 as the proposal falls under 'B1' category.
6. Public hearing was conducted on 20.08.2023.
7. Final EIA Report submitted on 21.12.2023.

The salient features of the proposal are as follows:

File No		9848/2023	Category	B1
		456164/2023		1(a)
Sl. No	Salient Features of the Proposal			
1.	Name of the Owner/Firm	:	Thiru. B. Venkatesh Shivasakthi No.255, Kanakapura Main Road, 7 <sup>th</sup> Block, Jayanagar, Bengaluru, Karnataka – 560070.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	:	Multi colour Granite Quarry	
3.	S.F Nos. of the quarry site	:	1/1 (Part) & 1/2B (Part)	
4.	Village in which situated	:	Thangayur	
5.	Taluk in which situated	:	Edappadi	
6.	District in which situated	:	Salem	
7.	Extent of quarry (in ha.)	:	2.31.5 ha	

  
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8.	Latitude & Longitude of all corners of the quarry site	:	11°33'40.25"N to 11°33'44.42"N 77°51'06.75"E to 77°51'15.15"E	
9.	Topo Sheet No.	:	58 - E/14	
10.	Type of mining	:	Opencast Semi - Mechanized Mining Method	
11.	Life of Project	:	7 years	
	Lease Period	:	20 years	
	Mining Plan Period	:	5 years	
12.	Mining Plan Details	:	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	:	ROM m <sup>3</sup> – 5,84,140m <sup>3</sup>	ROM m <sup>3</sup> –
		:	Recovery @60% m <sup>3</sup> – 3,50,484m <sup>3</sup>	Recovery @40% m <sup>3</sup> –
		:	Granite waste @ 40% - 2,33,656m <sup>3</sup>	Granite waste @60% -
	Mina ble Resources m <sup>3</sup> (RoM)	:	ROM m <sup>3</sup> – 1,79,035m <sup>3</sup>	ROM m <sup>3</sup> –
		:	Recovery @ 60% m <sup>3</sup> – 1,07,421m <sup>3</sup>	Recovery @ 40% m <sup>3</sup> –
		:	Granite waste @ 40% - 71,614m <sup>3</sup>	Granite waste @ 60% -
	Annual Peak Production in m <sup>3</sup>	:	ROM m <sup>3</sup> – 24,920m <sup>3</sup>	ROM m <sup>3</sup> –
		:	Recovery @ 60% m <sup>3</sup> – 14,952m <sup>3</sup>	Recovery @ 40% m <sup>3</sup> –
		:	Granite waste @ 40% - 9,968m <sup>3</sup>	Granite waste @ 60% -
	Maximum Depth in meters	:	66m (8m AGL + 58m BGL) [Existing	

  
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		depth – 41m (8m AGL + 33m BGL)]	
13.	Depth of water table	:	64m - 69m
14.	Man Power requirement per day:	:	41 Nos
15.	Water requirement: 1. Drinking & Domestic 2. Dust suppression 3. Green belt	:	2.0 KLD 0.5 KLD 0.8 KLD 0.7 KLD
16.	Power requirement	:	2,00,352litres of HSD
17.	Precise area communication approved by the Industries (MMB.2) Department	:	G.O. (3D) No.15, Dated: 19.03.2010.
18.	Mining Plan approved by Commissioner, Dept of Geology & Mining.	:	Rc.No.7862/MM4/2022, Dated: 05.01.2023.
19.	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining with date	:	Roc.No.1029/2019/Mines-A, Dated: 20.01.2023.
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 09.01.2023.
21.	Project Cost (excluding EMP cost)	:	3,60,67,000/-
22.	EC Recommendation	:	Validity
			30 years subject to the following upper limits.
			Multi Colour Granite

  
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		:	Max Total RoM in m <sup>3</sup>	ROM - 74,350m <sup>3</sup> , Recovery @ 60% - 44,610m <sup>3</sup> & Granite waste @ 40% - 29,740m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>	ROM - 24,920m <sup>3</sup> , Recovery @ 40% - 14,952m <sup>3</sup> & Granite waste @ 60% - 9,968m <sup>3</sup>
		:	Max Depth in mtrs	66m (8m AGL + 58m BGL) [Existing depth – 41m (8m AGL + 33m BGL)]
23.	EMP cost (in Rs. Lakhs).	:	Capital Cost – Rs. 32,42,050 Recurring Cost – Rs. 11,90,880	
24.	CER cost (in Rs. Lakhs).	:	Rs. 5,00,000 /-	

Based on the presentation and documents furnished by the project proponent, SEAC noted the following

- A. Memo issued by Collectorate, Dept. of Geology and Mining, Salem vide Roc. No.45/2019/CG-24/Mines-A Dated: 06.03.2020 under para 5 states as follows  
*"...Hence, it is instructed to pay 100% cost of the mineral lifted for the period from 15.01.2016 to 14.07.2016 is amounting (Rs. 1,84,91,543/- Rupees One Crore Eighty-Four Lakh Ninety-One Thousand Five Hundred Fourty Three Only) towards the cost of mineral and that may be paid to the State Government in the following head of account."*
- B. The lessee has obtained Environmental Clearance from the SEIAA, Tamil Nadu vide Lr. No. SEIAA-TN/F.No. 5016/1(a)/EC.No.3309//2016 Dated 15.07.2016.

  
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C. The proponent has filed a case before Hon'ble High Court of Madras in the matter of W.P.Nos.17214, 17218, 17230 and 17414 of 2020 etc., with the prayer as follows

- (i) Prayer in W.P.No.17214 of 2020: Petition under Article 226 of the Constitution of India seeking issuance if a writ of certiorarified mandamus to call for the impugned Memorandum of the fourth respondent issued in Roc.No.45/2019/CG-23/Mines – A dated: 22.11.2019 and quash the same as issued in contravention of the principles of natural justice and further direct the fourth respondent to approve the mining scheme submitted by the petitioner in respect of 3.74.5 hectares in S.F.Nos. 100/2A (Part) and 100/2B Part in Devannagoundanur Village, Sankari Taluk, Salem District.
- (ii) Prayer in W.P.No.17218 of 2020: Petition under Article 226 of the Constitution of India seeking issuance if a writ of certiorari to call for the impugned Memorandum of the third respondent issued in Roc.No.45/2019/CG-25/Mines – A dated: 30.06.2020 relating to the petitioner's granite quarry in respect of 3.74.5 hectares in S.F.Nos. 100/2A (Part) and 100/2B Part in Devannagoundanur Village, Sankari Taluk, Salem District and quash the same as issued contrary to the principle of natural justice.
- (iii) Prayer in W.P.No.17230 of 2020: Petition under Article 226 of the Constitution of India seeking issuance if a writ of certification clarified mandamus to call for the impugned Memorandum of the fourth respondent issued in Roc.No.45/2019/CG-22/Mines – A dated: 22.11.2019 and quash the same as issued in contravention of the principles of natural justice and further direct respondents 2 to 4 to issue the transport permits to the petitioner to remove and transport the granite blocks quarried from the granite quarrying bearing in S.F.No.1/1(P), 1/2B admeasuring 2.31.5 hectares in Thangayur Village, Edapaddy Taluk, Salem District on payment of the applicable seigniorage fees.

  
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(iv) Prayer in W.P.No.17414 of 2020: Petition under Article 226 of the Constitution of India seeking issuance of a writ of certiorari to call for the impugned Memorandum of the third respondent issued in Roc.No.45/2019/CG-24/Mines – A dated: 30.06.2020 relating to the petitioner's granite quarry in respect of 3.74.5 hectares in S.F.Nos. 1/1(P), 1/2B admeasuring 2.31.5 hectares in Thangayur Village, Edapaddy Taluk, Salem District and quash the same as issued contrary to the principle of natural justice.


D. Subsequently, a common order dated: 21.12.2023 in the above-mentioned case is as follows

*"... In some of these writ petitions, the State accepts that environmental clearances are obtained, whereas in some of the matters, it is stated by the State that the environmental clearances are not obtained, however the demand is required to be revised.*

*2. As, according to the respondents, the demands may be required to be revised and/or the grant of environmental clearance, wherever it is granted will have to be considered, the impugned demands are, as such, set aside with liberty to the respondent authorities to issue show cause notices to these petitioners in respect of the revised demand, if any. After receipt of the show cause notices, the petitioners can file their reply along with all relevant documents raising all possible grounds and defences available, which certainly would be considered by the respondent authorities before raising final demand.*

*3. With the aforesaid observations and directions, the writ petitions are disposed of. There will be no order as to costs. Consequently, connected miscellaneous petitions are closed."*

Based on the above facts and document furnished by the proponent, committee decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding **ROM quantity of 24,920m<sup>3</sup> by maintaining the ultimate depth of mining up to 66m (8m AGL + 58m BGL)** and subject to the

  
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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 ensure that the plantation shall be carried out in a phase manner as a part of mine closure activities spelt out in the progressive mine closure plan.
3. The PP shall install the Environmental Management Cell headed by the statutory (I/II Class) Mines Manager of the concerned mine and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
4. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
5. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained properly. A report on the compliance of this condition shall be sent once in every six months to the DEE/TNPCB, IRO/MoEF & CC, Chennai without fail.
6. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
7. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the dust pollution while transportation.

  
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8. The PP shall annually carry out an Occupational Health Survey (OHS) in accordance with the guidelines & period of examination laid in the DGMS (Tech.) (S&T) Circular No. 01 of 2011, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952 by actively involving State Government officials and Non-Government Organizations (NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual compliance certificate shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
9. The PP shall install the tall wind sheets around the lease boundary directing the village/structures located nearby and water shall be sprayed frequently so as to arrest the dust pollution.
10. The PP shall adopt only non-explosive technique (Rock Breaking Compounds) for the fracturing of granite blocks ensuring the eco-friendly mining operation in the proposed quarry.
11. To ensure the conditions of occupational safety, health & welfare status of persons working in the mine, the PP shall annually conduct occupational health survey to determine prevalence of Noise Induced Hearing Loss (NIHL) due to the operation of Diamond Wire Saw cutting & other HEMMs deployed in the mine and to prepare a plan for hearing conservation programme by involving anyone of the reputed institutes - Regional Occupational Health Centre (Southern) of ICMR-National Institute of Occupational Health, Bengaluru, National Institute of Miners' Health, Nagpur and Anna University, Chennai.
12. 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.
13. 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.

14. 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.
15. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
16. As accepted by the Project Proponent the CER cost is Rs. 10 Lakhs, out of which Rs. 5 lakhs shall be spent to Panchayat Union Primary School, Puttamanai Malangadu village, Sankari Union, Salem District as per the commitment given by the PP in Public hearing action plan and in addition to that an amount of Rs. 5 Lakhs shall be spent for the activities as committed towards Panchayat Union Primary School, Oruvappatty, Chittoor Post, Idappadi, Salem District before obtaining CTO from TNPCB.

**Agenda No: 444 - 11**

**(File No.9855/2023)**

**Proposed Multi colour Granite quarry lease over an extent 3.12.0 Ha at S.F.Nos. 1/2B(Part) & 1/3B(Part) of Thangayur Village, Edappadi Taluk, Salem District, Tamil Nadu by Thiru. B. Venkatesh - For Environmental Clearance.**

**(SIA/TN/MIN/456431/2023 dated: 22.12.2023)**

The proposal was placed for appraisal in the 444<sup>th</sup> Meeting of SEAC held on

  
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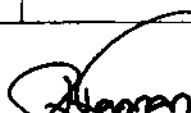
  
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09.02.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent, Thiru. B. Venkatesh has applied for Environmental Clearance for the Proposed Multi-colour Granite quarry lease over an extent 3.12.0 Ha at S.F.Nos. 1/2B(Part) & 1/3B(Part) of Thangayur Village, Edappadi Taluk, Salem 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. Earlier, EC was issued to the project proponent vide Lr.No. SEIAATN/F.No.3049/EC/1(a)/2662/2015, dated: 04.01.2016.
4. The proponent submitted a Certified Compliance Report EP/12.1/2022-23/SEIAA/298/TN/583, Dated: 27.05.2023.
5. ToR was issued to the project proponent vide Lr.No.SEIAA-TN/F.No.9855/ToR-1435/2023, Dated: 24.04.2023 as the proposal falls under 'B1' category.
6. Public hearing was conducted on 12.10.2023.
7. Baseline monitoring period March – May 2023.
8. EIA Report submitted in the PARIVESH Portal on 22.12.2023.
9. The Commissioner, Dept. of Geology & Mining, in his letter dated.05.01.2023 as stated as follows while approving the Mining Plan:  
*"...vi. The scheme of mining is verified along with the filed condition and found correct. The cost of mineral Rs.40,23,769/- has been imposed as penalty for EC violation vide District Collector, Salem memo Rc.No.45/2018/CG-28 dt.30.06.2020. Against the penalty amount a Writ Petition no.17350/2020 filed by Thiru. B. Venkatesh and interim stay granted on 06.01.2021..."*
10. The salient features of the proposal are as follows:

File No	9855/2023	Category	B1
	456431/2023		1(a)
Sl. No	Salient Features of the Proposal		

  
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1.	Name of the Owner/Firm	Thiru.B. Venkatesh Shivasakthi No.255, Kanakapura Main Road, 7 <sup>th</sup> Block, Jayanagar, Bengaluru, Karnataka – 560070.	
2.	Type of quarrying (Ordinary Stone/Sand/Granite/Limestone)	Multi-colour Granite Quarry	
3.	S.F Nos. of the quarry site	1/2B(Part) & 1/3B(Part)	
4.	Village in which situated	Thangayur	
5.	Taluk in which situated	Edappadi	
6.	District in which situated	Salem	
7.	Extent of quarry (in ha.)	3.12.0 ha	
8.	Latitude & Longitude of all corners of the quarry site	11°33'41.03"N to 11°33'46.32"N 77°51'10.02"E to 77°51'20.75"E	
9.	Topo Sheet No.	58 - E/14	
10.	Type of mining	Opencast Semi - Mechanized Mining Method	
11.	Life of Projects	11 years	
	Lease Period	20 years (2016-2036)	
	Mining Plan Period	5 years	
12.	Mining Plan Details	As per approved Mining Plan	As modified by SEAC
	Geological Resources m <sup>3</sup> (RoM)	ROM – 9,38,535m <sup>3</sup>	-
		Recovery @40% – 3,75,414m <sup>3</sup>	-
		Granite waste @ 60% - 5,63,121m <sup>3</sup>	-
	Minal Resources m <sup>3</sup> (RoM)	ROM – 4,10,870m <sup>3</sup>	-
		Recovery @ 40% – 1,64,348m <sup>3</sup>	-

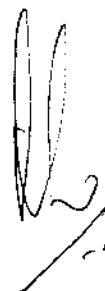
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		Granite waste @ 60% - 2,46,522m <sup>3</sup>	-
		ROM – 38,240m <sup>3</sup>	-
	Annual Peak Production in m <sup>3</sup>	Recovery @ 40% – 15,296 <sup>3</sup>	-
		Granite waste @ 60% - 22,944m <sup>3</sup>	-
	Ultimate Depth in meters	38m Below Ground Level	-
13.	Depth of water table	: 64m - 69m	
14.	Man Power requirement per day:	: 41 Nos.	
15.	Water requirement: 4. Drinking & Domestic 5. Dust suppression 6. Green belt	2.0 KLD 0.5 KLD 0.8 KLD 0.7 KLD	
16.	Power requirement	: 3,01,328 liters of HSD	
17.	Quarry lease approved by the Additional Chief Secretary to Govt. Industries (MMB.2) Department	: G.O. (3D) No.18, Dated: 08.02.2016.	
18.	Mining Plan approved by the Commissioner, Dept. of Geology & Mining.	: Rc.No.7861/MM4/2022, Dated: 05.01.2023.	
19.	500m cluster letter issued by the Deputy Director, Dept. of Geology and Mining with date	: Roc.No.1029/2019/Mines-A, Dated: 20.01.2023.	

  
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20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Dated: 09.01.2023.
21.	Project Cost (excluding EMP cost)	:	4,01,47,000/-
22.	EC Recommendation	:	Validity
			30 years subject to the following upper limits. Multi Colour Granite
		:	Max Total RoM in m <sup>3</sup>
			ROM - 1,48,860m <sup>3</sup> which includes Granite Recovery @ 40% - 59,544m <sup>3</sup> & Granite waste @ 60% - 89,316m <sup>3</sup>
		:	Annual Max RoM in m <sup>3</sup>
			ROM - 38,240m <sup>3</sup> which includes Granite Recovery @ 40% - 15,296m <sup>3</sup> & Granite waste @ 60% - 22,944m <sup>3</sup>
		:	Max Depth in mtrs
			38 m Below Ground Level
23.	EMP cost (in Rs. Lakhs).	:	Capital Cost - Rs. 35,30,400/- Recurring Cost - Rs. 13,41,952/-
24.	CER cost (in Rs. Lakhs).	:	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

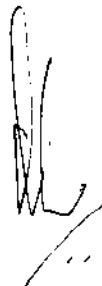
  
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**Annual Peak production not exceeding 38,240m<sup>3</sup> of RoM by maintaining an ultimate pit depth of 38m BGL, subject to the standard conditions as per the Annexure I of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:**

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.
2. The PP shall adhere to the final decision taken by the Hon'ble court of Judicature at Madras to be disposed in W.P.17350/2020 filed by the PP against the District Collector Memo Rc.No.45/2018/CG-28 dt.30.06.2020 without any deviation.
3. The PP shall ensure that the plantation shall be carried out in a phase manner as a part of mine closure activities spelt out in the progressive mine closure plan.
4. The PP shall install the Environmental Management Cell headed by the statutory (I/II Class) Mines Manager of the concerned mine and the cell shall include a dedicated full-time Environmental Engineer exclusively to look into the effective implementation of Environmental Management Plan besides the reviewing the compliance reports with the regulatory authorities.
5. The PP shall strictly adhere with the safety provisions as laid for the operation of Diamond Wire Saw machines and use of Cranes vide DGMS Tech Circulars No: 02 of 29.11.2019 & No. 10 of 19.07.2002 respectively.
6. The PP shall ensure that the Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from soil, OB and mineral reject (Granite waste) dumps. The water so collected in such sump should be utilized for watering the mine area, roads, green belt development, etc. The drains should be regularly de-silted and maintained properly. A report on the compliance of this condition shall be sent once in every six months to the DEE/TNPCB, IRO/MoEF & CC, Chennai without fail.

  
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7. The PP shall mark the DGPS reference pillars painted with blue & white colour indicating the safety barrier of 7.5 m to be left under the Rule 13 (1) of MCDR, 1988 within the lease boundary and protective bunds, before obtaining the CTO from the TNPCB.
8. The PP shall ensure that the loaded trucks are covered with a tarpaulin cover to avoid the dust pollution while transportation.
9. The PP shall annually carry out an Occupational Health Survey (OHS) in accordance with the guidelines & period of examination laid in the DGMS (Tech.) (S&T) Circular No. 01 of 2011, on OHS of the persons working in mines prone to generate the airborne dust, under Section 9A of Mines Act, 1952 by actively involving State Government officials and Non-Government Organizations(NGO) working in the Occupational Health Survey (Medical Examination). A copy of such annual compliance certificate shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
10. The PP shall install the tall wind sheets around the lease boundary directing the village/structures located nearby and water shall be sprayed frequently so as to arrest the dust pollution.
11. The PP shall adopt only non-explosive technique (Rock Breaking Compounds) for the fracturing of granite blocks ensuring the eco-friendly mining operation in the proposed quarry.
12. To ensure the conditions of occupational safety, health & welfare status of persons working in the mine, the PP shall annually conduct occupational health survey to determine prevalence of Noise Induced Hearing Loss (NIHL) due to the operation of Diamond Wire Saw cutting & other HEMMs deployed in the mine and to prepare a plan for hearing conservation programme by involving anyone of the reputed institutes - Regional Occupational Health Centre (Southern) of ICMR-National Institute of Occupational Health, Bengaluru, National Institute of Miners' Health, Nagpur and Anna University, Chennai.


  
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13. 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.
14. 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.
15. 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.
16. The Project Proponent shall ensure that the funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year-wise expenditure should be reported to the MoEF & CC Ministry and its Integrated Regional Office (IRO) located in Chennai.
17. As accepted by the Project Proponent the CER cost of Rs. 5 Lakhs shall be spent for the activities as committed towards Panchayat Union Primary School, Oruvappatty, Chittoor Post, Edappadi, and Rs. 5 lakhs towards the Puttamanai, Manankadu Panchayat Union primary school before obtaining CTO from TNPCB.

**Agenda No: 444- 12**

**(File No: 9534/2022)**

  
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**Proposed Rough Stone & Gravel quarry lease over an extent of 2.85.0Ha at SF.Nos. 6/1, 7/2, 7/3 and 7/4 of Enthoor Village, Marakkanam Taluk, Viluppuram District, Tamil Nadu by Tvl. Thirupathi Blue Metal & M.Sand - For Environmental Clearance.**  
**(SIA/TN/MIN/453718/2023, Dated:29.11.2023)**

The proposal was placed in 444<sup>th</sup> meeting of SEAC held on 09.02.2024. 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, Tvl.Thirupathi Blue Metal & M.Sand has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 2.85.0Ha at SF.Nos. 6/1, 7/2, 7/3 and 7/4 of Enthoor Village, Marakkanam Taluk, Viluppuram 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.

File No	9534/2022	Category	B1
	SIA/TN/MIN/453718/2023, Dated:29.11.2023		
Sl.No	Salient Features of the Proposal		
1.	Name of the Owner/Firm	:	Tvl. Thirupathi Blue Metal & M.Sand No.32, Bajanai Kovil Street, Natham Kariyacherry Village, Mullikolathur Post, Thirukazhukundram Taluk, Kancheepuram District.
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	:	6/1, 7/2, 7/3 and 7/4
4.	Village in which situated	:	Enthoor
5.	Taluk in which situated	:	Marakkanam

  
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6.	District in which situated	:	Viluppuram
7.	Extent of quarry (in ha.)	:	2.85.0Ha
8.	Latitude & Longitude of all corners of the quarry site	:	12°13' 17.9159"N to 12°13'29.3407"N 79°47'13.2559"E to 79°47'19.9500"E
9.	Topo Sheet No.	:	57 P/16
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	:	<b>As per approved Mining Plan</b>
			<b>Rough Stone</b> <b>Gravel</b>
	Geological Resources m <sup>3</sup>	:	10,01,221 m <sup>3</sup> 54,758 m <sup>3</sup>
	Minable Resources m <sup>3</sup>	:	2,61,972 m <sup>3</sup> 27,878 m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	:	65,366 m <sup>3</sup> 11,996 m <sup>3</sup>
	Maximum Depth in meters	:	37m BGL (2m Gravel+ 35m Rough stone)
13.	Depth of water table	:	51m in summer season – 47m in rainy season
14.	Man Power requirement per day	:	34 Employees
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	1.5 KLD 0.4 KLD 0.6 KLD 0.5 KLD
16.	Power requirement	:	TNEB 2,14,234Liters of HSD will be utilized for entire project life.
17.	Precise area communication approved by the Assistant Director(I/c), Department of G&M.	:	Rc.No.B/G&M/678/2019, Dated:29.04.2022.


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Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Environmental Clearance for the annual peak production capacity of not exceeding **65,366m<sup>3</sup> of Rough stone and 11,996m<sup>3</sup> of Gravel by maintaining the ultimate depth of mining up to 37m BGL** subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a **maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.**
2. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
3. The PP shall not carry out the deep hole blasting operations in the proposed mine.
4. **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.

  
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5. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
6. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
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 walls **within a period of one year** from the commencement of mining operations **after obtaining the prior permission from the DMS/Chennai Region for evaluating the slope stabilization & protective measures of the 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. 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. The PP shall install a retaining wall around the toe of the dump so as to avoid any failure of slope or fall of rock from the dump slope, within a period of six months.
9. **Since the waterbodies are situated nearby**, the PP shall prepare a Ground Water Management Programme based on the scientific studies carried out to assess the hydrogeological condition of the quarry within a period of one year from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras,

  
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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.

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 Panchayat Union Primary School, Ariyanthangal Village, Marakkanam Taluk, Viluppuram District before obtaining CTO from TNPCB.

**Agenda No: 444- 13**

**(File No: 9668/2022)**

**Proposed Rough Stone & Gravel quarry lease over an extent of 8.00.05Ha at SF.Nos. 2/1B, 2/2, 2/3 (P), 2/5, 3, 4/1 & 4/2 of Enthoor Village, Marakkanam Taluk, Viluppuram District, Tamil Nadu by Tvl.Thirupathi Blue Metal & M. Sand - For Environmental Clearance.**

**(SIA/TN/MIN/453954/2023, Dated:01.12.2023)**

The proposal was placed in 444<sup>th</sup> meeting of SEAC held on 09.02.2024. 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, Tvl.Thirupathi Blue Metal & M. Sand has applied for Environmental Clearance for the proposed Rough Stone & Gravel quarry lease over an extent of 8.00.05Ha at SF.Nos. 62/1B, 2/2, 2/3 (P), 2/5, 3, 4/1 & 4/2 of Enthoor Village, Marakkanam Taluk, Viluppuram 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.

File No	9668/2022	Category	B1
	SIA/TN/MIN/453954/2023, Dated:01.12.2023		
Sl.No	Salient Features of the Proposal		

  
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1.	Name of the Owner/Firm	Tvl.Thirupathi Blue Metal & M. Sand No.5, M.K. Complex, : Narasankuppam Road, Anupuram, Kalpakkam, Chengalpattu District – 603 102.
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	: 2/1B, 2/2, 2/3 (P), 2/5, 3, 4/1 & 4/2
4.	Village in which situated	: Enthoor
5.	Taluk in which situated	: Marakkanam
6.	District in which situated	: Viluppuram
7.	Extent of quarry (in ha.)	: 8.00.05Ha
8.	Latitude & Longitude of all corners of the quarry site	: 12°13' 24.51"N to 12°13'39.06"N 79°47'19.52"E to 79°47'30.78"E
9.	Topo Sheet No.	: 57 P/16
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	: <b>As per approved Mining Plan</b>
		<b>Rough Stone</b> <b>Gravel</b>
	Geological Resources m <sup>3</sup>	: 42,37,138m <sup>3</sup> 1,59,892m <sup>3</sup>
	Minal Resources m <sup>3</sup>	: 24,07,748m <sup>3</sup> 1,40,744m <sup>3</sup>
	Annual Peak Production in m <sup>3</sup>	: 2,41,984m <sup>3</sup> 94,008m <sup>3</sup>
	Maximum Depth in meters	: 55m BGL (2m Gravel+ 53m Rough stone)
13.	Depth of water table	: 68m in summer season – 53m in rainy season

  
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14.	Man Power requirement per day	:	48 Employees		
15.	Water requirement: 1. Drinking water 2. Dust suppression 3. Green belt	:	4.0 KLD 0.6 KLD 3.0 KLD 0.4 KLD		
16.	Power requirement	:	TNEB 9,89,140Liters of HSD will be utilized for entire project life.		
17.	Precise area communication approved by the Deputy Director, Department of G&M.	:	Rc.No.B/G&M/164/2022, Dated:18.10.2022.		
18.	Mining Plan approved by Deputy Director, Department of G&M.	:	Rc.No.B/G&M/164/2022, Dated:17.11.2022.		
19.	500m Cluster Letter approved by Deputy Director, Department of G&M,	:	Rc.No.B/G&M/164/2022, Dated:17.11.2022.		
20.	VAO Certificate Regarding Structures within 300m Radius	:	Letter Furnished Dated: Nil.		
21.	Project Cost (excluding EMP cost)	:	Rs. 5,70,44,000/-		
22.	EC Recommendation	:	Validity	30 years subject to the following upper limits.	
				Rough Stone	Gravel
			Max Total in m <sup>3</sup>	11,55,048m <sup>3</sup>	1,40,744m <sup>3</sup>
			Annual Max in m <sup>3</sup>	2,41,984m <sup>3</sup>	50,828m <sup>3</sup>

  
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		Max : Depth in mtrs	45m BGL
23.	EMP cost (in Rs. Lakh).	:	Rs.649 Lakhs
24.	CER cost (in Rs. Lakh).	:	Rs.5 Lakhs
25.	EIA report submitted on	:	Dated:11.12.2023
26.	ToR details	:	Lr.No.SEIAA- TN/F.No.9668/SEAC/ToR- 1351/2022,Dated:16.02.2023.
27.	Public hearing details	:	Public hearing conducted on Dated:21.09.2023.


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 **2,41,984m<sup>3</sup> of rough stone and 50,828m<sup>3</sup> of Gravel** by maintaining the ultimate depth of mining up to 45m BGL subject to the standard conditions as per the **Annexure I** of this minutes & normal conditions stipulated by MOEF &CC, in addition to the following specific conditions:

1. The prior Environmental Clearance granted for this mining project shall be valid for the project life including production value as laid down in the mining plan approved and renewed by competent authority, from time to time, subject to a **maximum of thirty years, whichever is earlier, vide MoEF&CC Notification S.O, 1807(E) dated 12.04.2022.**
2. The PP shall obtain necessary permission from the DMS, DGMS/Chennai Region for the extraction of the common boundary existing adjacent to the mine lease area in accordance with the provisions of MMR 1961 within one year from the commencement of the mining operations.

  
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3. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
4. **Since the quarry is proposed in the cluster situation**, the PP shall carry out the scientific studies **within a period of six months** from the commencement of quarrying operations after obtaining the prior permission from the DMS/Chennai, 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 cluster of quarries, by involving anyone of these reputed Research and Academic Institution such as CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
5. The PP shall furnish a Standard Operating Procedures (SoP) for carrying out the blasting operations in securing the safety of the persons living within a radial distance of 500 m (danger zone) to the concerned AD (Mines) at the time of lease execution.
6. The PP shall not employ any external agency for carrying out the blasting operation and he shall also install the temporary magazines approved by the concerned licensing authority before the execution of the lease, for storing the authorized explosives & detonators separately in accordance with the Explosive Rules, 2008.
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 walls **during the 4<sup>th</sup> year from the commencement of mining operations** after obtaining the prior permission from the **DMS/Chennai Region for evaluating**

  
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the slope stability of the 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. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.

8. Since the waterbodies are situated nearby, the PP shall prepare a Ground Water Management Programme based on the scientific studies carried out to assess the hydrogeological condition of the quarry within a period of one year from the date of lease execution, by involving any one of the reputed Research and Academic Institution - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, University of Madras – Centre for Environmental Studies, and Anna University Chennai-Dept of Geology, CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
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 Panchayat Union Primary School, Enthoor Village, Brahmadesam, Marakkanam Taluk, Viluppuram District before obtaining CTO from TNPCB.

**Agenda No:444 - 14**

**(File No: 10573/2023)**

**Proposed Integrated 4GW Solar cell and Module Manufacturing plant at SF. Nos: 1641 pt, 1474 pt, 1475, 1476, 1477 pt, 1478 pt, 1479, 1480, 1481 pt, 1495 pt, 1642 pt, 1901 pt, 1903 pt, 1904 pt, 1905 pt, 1906 pt, 1907 pt, 1908, 1909, 1910 pt, 1911, 1912 pt, 1913 pt, 1914 pt, 1915 pt, 1916 pt, 1917 pt, 1922 pt, 1923 pt, 1924 pt, 1925 pt, 1926 pt, 1927 pt, 1931 pt, 1919 pt, 1921 pt (Plot No. A104, A105, A106, A107 & A108, A109) at SIPCOT**

  
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**Industrial park of Gangaikondan Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by M/s. TP Solar Limited- For Terms of Reference.**

**(SIA/TN/INFRA2/454338/2023, Dated:05.12.2023)**

Earlier the proposal was placed in the 432<sup>nd</sup> SEAC meeting held on 20.12.2023. The SEAC noted that the project proponent has not attended the meeting. Hence the subject was not taken up for discussion and the project proponent shall furnish the reason for his absence.

The details of the project furnished by the proponent are available in the website. (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, M/s. TP Solar Limited has applied for Terms of Reference for the Proposed Integrated 4GW Solar cell and Module Manufacturing plant at SF. Nos: 1641 pt, 1474 pt, 1475, 1476, 1477 pt, 1478 pt, 1479, 1480, 1481 pt, 1495 pt, 1642 pt, 1901 pt, 1903 pt, 1904 pt, 1905 pt, 1906 pt, 1907 pt, 1908, 1909, 1910 pt, 1911, 1912 pt, 1913 pt, 1914 pt, 1915 pt, 1916 pt, 1917 pt, 1922 pt, 1923 pt, 1924 pt, 1925 pt, 1926 pt, 1927 pt, 1931 pt, 1919 pt, 1921 pt (Plot No. A104, A105, A106, A107 & A108, A109) at SIPCOT Industrial park of Gangaikondan Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu.
2. The project activity is covered under Category "B1" of Item 8(b) "Township & Area Development projects" of the Schedule to the EIA Notification, 2006.
3. Complaints received against the unit regarding illegally commenced its new industry construction in Gangaikondan postal limit, Tirunelveli District without obtaining prior EC from SEIAA.
4. Hon'ble Madras High Court Judgement dated 28.11.2023 in its W.M.P (MD) No. 26531 of 2023 stated that,

*"M/s.T.P.Solar Limited shall within one week from today apply to the State Level Environmental Assessment Authority for environmental clearance and the said State Level Environmental Assessment Authority shall take a decision on the application of the respondent M/s.T.P.Solar Limited for environmental clearance within four weeks from the date of receipt of the application".*

  
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5. Based on the above judgement, the PP applied ToR to SEIAA.

The proposal was again placed in the 436<sup>th</sup> SEAC Meeting held on 29.12.2023. The SEAC noted the PP requested time. Hence the committee decided to defer the proposal. Subsequently, the proposal was placed in the 437<sup>th</sup> SEAC Meeting held on 04.01.2024. The SEAC noted the PP has requested for additional time. Hence the Committee decided to defer the proposal.

Now the proposal was placed in the 444<sup>th</sup> SEAC Meeting held on 09.02.2024. The EIA coordinator stated that the PP request to withdraw this application (File No: 10573). Hence the committee decided to recommend to SEIAA to accept the withdrawal request made by the PP.

**Agenda No: 444-15**

**(File No: 10654/2024)**

**Expansion of existing Solar Module Manufacturing Facility** at Plot No. A-104, A-107, A-108 Gangaikondan SIPCOT & Survey Nos. 1924pt, 1925pt, 1926pt, 1927pt, 1474pt, 1475, 1476, 1477pt, 1478pt, 1479, 1480, 1481pt, 1495pt, 1641pt, Gangaikondan Village, Tirunelveli Taluk & District, Tamil Nadu by **M/s. TP Solar Power Limited (Unit I)** - Terms of Reference for EIA study. (SIA/TN/INFRA2/458736/2024 dated: 15.01.2024)

The proposal was placed in this 444<sup>th</sup> meeting of SEAC held on 09.02.2024. The project proponent made a detailed presentation. 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. TP Solar Power Limited (Unit I)** has applied seeking Terms of Reference for EIA study for the **Expansion of existing Solar Module Manufacturing Facility** at Plot No. A-104, A-107, A-108 Gangaikondan SIPCOT & Survey Nos. 1924pt, 1925pt, 1926pt, 1927pt, 1474pt, 1475, 1476, 1477pt, 1478pt, 1479, 1480, 1481pt, 1495pt, 1641pt, Gangaikondan Village, Tirunelveli Taluk & District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 8(b) "Township and Area Development Projects" of the Schedule to the EIA Notification, 2006 as amended.

  
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3. Total plot area is ~~547257~~ (472206) Sqm and total built up area is 158612.92 Sqm (Existing: 138825.3 Sqm and Proposed 19787.62 Sqm).
4. The project proponent has obtained prior consent from TNPCB for the establishment of the unit.

The Committee further noted that the Hon'ble High Court of Madras (Madurai Bench) vide order dated 28.11.2023 in W.P.(MD) No.27958 and 26531 of 2023 has issued inter alia the following direction to SEIAA:

*16. M/s.T.P.Solar Limited shall within one week from today apply to the State Level Environmental Assessment Authority for environmental clearance and the said State Level Environmental Assessment Authority shall take a decision on the application of the respondent M/s.T.P.Solar Limited for environmental clearance within four weeks from the date of receipt of the application.*

Further the PP has furnished notarized affidavit stating the following:

We wish to inform you that we have executed the lease deed with SIPCOT for a land extent of 547257 Sq.m. (54.7 Hectares). Out of this land area, our plant development activities will be carried in a land extent of 472206 Sq.m (i.e.. Developmental Area - 47.2 Hectares). The remaining land extent of 75,051 Sq.m is classified by us as "No Development Area" and the same will be maintained as greenbelt area with appropriate plantation.

We commit to SEIAA that all our project activities of the Solar Module Manufacturing Unit (existing as well as proposed activities) will be carried out within the above said Developmental Area within a land extent of 472206 Sq.m (47.2 Hectares). The demarcated boundary of our "Developmental Area" is enclosed as Annexure to this affidavit. The latitude and longitude details of the demarcated boundary are furnished below:

Reference point in the	Latitude	Longitude

  
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Demarcated Boundary Line		
1	8°51'1.95"N	77°46'5.31"E
2	8°50'59.84"N	77°46'3.52"E
3	8°50'52.85"N	77°46'1.95"E
4	8°50'36.88"N	77°45'44.55"E
5	8°50'25.23"N	77°45'54.65"E
6	8°50'29.01"N	77°45'57.68"E
7	8°50'29.06"N	77°46'6.14"E
8	8°50'27.91"N	77°46'9.55"E
9	8°50'35.95"N	77°46'15.25"E
10	8°50'47.17"N	77°46'11.27"E
11	8°50'50.63"N	77°46'6.28"E
12	8°50'54.59"N	77°46'9.62"E

We are aware that the we can be prosecuted under relevant Act and Rules, if we do not adhere to the above commitment.

The PP informed the Committee that they have already initiated the collection of base line data for the project.

  
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Based on the Hon'ble Court direction, documents submitted and the presentation made, the SEAC decided to **recommend for the grant of Terms of Reference (ToR)** subject to the following ToRs, in addition to the standard terms of reference for EIA study for Township and Area Development Projects:

1. The PP shall furnish the MSDS data of all the chemicals used in the manufacturing process.
2. To study the implication of the project activity on the Gangaikondan Spotted Deer Sanctuary located across the project site.
3. The PP shall report the conservative measures required for the Gangaikondan Spotted Deer Sanctuary in consultation with the DFO.
4. PP to explore the possibility of providing ARHC facility for the work force at the project site.
5. The source of fresh water supply shall be furnished along with the copy of approval.
6. PP shall explore replacing DG sets with gas powered generators.
7. The PP shall furnish the roadmap for achieving Net Zero waste.
8. The Company shall submit the environmental policy duly approved by the Board of Directors.
9. The PP shall furnish action plan for harnessing 50% solar energy or shall purchase 50% renewable green energy from TNEB to meet the energy requirement.
10. Land requirement for the facility including its break up for various purposes, its availability and optimization.
11. Details of proposed layout clearly demarcating various activities such as security. Details on flue gas emissions discharge through stack analysis of toxic pollutants and proposed pollution control technologies.
12. Details on residue/ash generation and management.
13. Details on type and quantity of hazardous waste generated from the operation, area storage of hazardous waste, in case of maintenance flow of waste of detail action plan shall be part at EIA study.
14. Details of the proposed overall safety and health protection measures.

15. Details of the existing access road(s)/walkways to the designed operations in the site and its layout.
16. Land use map based on satellite imagery including location specific sensitivities such as national parks / wildlife sanctuary, villages, industries, etc.
17. Surface water quality of nearby water bodies.
18. Details on proposed groundwater monitoring wells, locations, frequency of monitoring, parameters, etc.
19. Action plan for the greenbelt development in accordance with CPCB published guidelines. The PP shall no fruit bearing trees developed as part of green belt.
20. Details on pollution control technologies and online monitoring equipments.
21. Details of the emergency preparedness plan and on-site & off-site disaster management plan.
22. The proponent shall explore the possibility for use of green technology.
23. The proponent shall conduct Socio-economic and health survey.
24. A detailed incinerator design needs to be submitted on the likelihood of emission, possible types of gases coming out of the process and its measures and mitigation.
25. The proponent shall furnish SOP for the process.
26. The proponent shall conduct a detailed study on water, land and Air quality.
27. Proponent shall furnish the letter received from DFO concerned stating the proximity details of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
28. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report.
29. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to proposed activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data

  
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- and documentation in this regard may be provided.
30. 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.
31. The Proponent shall carry out the Cumulative impact study due to project activity 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 proposed site and the surrounding habitations in the mind.
32. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
33. 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.
34. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for proposed operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB should be secured and furnished to the effect that the proposed project activities could be considered.
35. 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.
36. Impact on local transport infrastructure due to the Project should be indicated.
37. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) at the project site.

  
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38. 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.
39. The purpose of Greenbelt 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-1** in consultation with the DFO, & Tamil Nadu 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.
40. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
41. A Disaster management Plan and Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report.
42. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the project site area may be detailed.
43. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
44. The Socio-economic studies should be carried out within a 5 km buffer zone from the project site. Measures of socio-economic significance and influence to the

  
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local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.

45. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
46. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
47. The Proponent shall prepare the EMP for the entire life of project and also furnish the sworn affidavit stating to abide the EMP for the entire life of project.
48. 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.
49. PP shall furnish the details of raw material storage and handling and ware house details.
50. The proponent shall furnish the detailed sewage treatment technology proposed for this proposal and also furnish the design details of the STP treatment system.
51. The proponent shall ensure the existing development meets green building norms and shall obtain a minimum of IGBC Gold ranking.
52. The proposal to construct a pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a device which was crucial to the overall eco-system.
53. The treated/untreated sewage water shall not be let-out from the unit premises accordingly revised water balance shall be incorporated.





- 54.As per G.O. Ms. No. 142 approval from Central Ground Water Authority shall be obtained for withdrawal of water and furnish the copy of the same, if applicable.
- 55.Commitment letter from competent authority for supply of water shall be furnished.
- 56.Copy of the village map, FMB sketch and "A" register shall be furnished.
- 57.Detailed Evacuation plan during emergency/natural disaster/unfavorable accidents shall be submitted.
- 58.The space allotment for solid waste disposal and sewage treatment & grey water treatment plant shall be furnished.
- 59.Details of the Solid waste management plan shall be prepared as per solid waste management Rules, 2016 and shall be furnished.
- 60.Details of the E-waste management plan shall be prepared as per E-waste Management Rules, 2016 and shall be furnished.
- 61.Details of the Rain water harvesting system with cost estimation should be furnished.
- 62.A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains and sub-drains in accordance with the contour levels of the proposed project considering the water bodies around the proposed project site & the surrounding development. The storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.
- 63.The OSR area should not be included in the activity area and not be taken in to account for the green belt area.
- 64.The layout plan shall be furnished for the greenbelt area earmarked with GPS co- ordinates by the project proponent on the periphery of the site and the same shall be submitted for CMDA/DTCP approval. The green belt width should be at least 3m wide all along the boundaries of the project site. The green belt area should not be less than 15%of the total land area of the project.

  
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65.Cumulative impacts of the Project considering with other infrastructure developments and industrial parks in the surrounding environment within 5 km & 10 km radius shall be furnished.

66.A detailed post-COVID health management plan for construction workers as per ICMR and MHA or the State Govt. guideline may be followed and report shall be furnished.

67.The project proponent shall furnish detailed baseline monitoring data with prediction parameters for modelling for the ground water, emission, noise and traffic.

68.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 furnish the detailed EMP mentioning all the activities as directed by SEAC in the CER and furnish the same.

Further the Committee has accepted the request of the PP to withdraw the earlier application no. 454338(File No.10573) filed seeking Environmental Clearance for the project.

**Agenda No: 444 - 16**

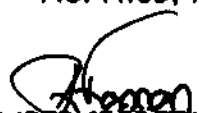
**(File No.10656/2024)**

**Proposed Expansion of Solar Cell Manufacturing Facility at Plot No. A105, A106, A109 Gangaikondan SIPCOT & Survey Nos. 1641pt, 1901pt, 1903pt, 1904pt, 1905pt, 1906pt, 1907pt, 1908, 1909, 1910pt, 1911pt, 1912pt, 1913pt, 1914pt & 1915pt, 1916pt, 1917pt, 1919pt, 1921pt, 1922pt, 1923pt, 1924pt, 1925pt, 1931pt of Gangaikondan Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu by M/s. TP Solar Limited (Unit - 2) – For Terms of Reference. (SIA/TN/INFRA2/458750/2023, dated: 15.01.2024)**

The proposal was placed for appraisal in the 444<sup>th</sup> Meeting of SEAC held on 09.02.2024. 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. TP Solar Limited (Unit - 2) has applied for Terms of Reference for the Proposed Expansion of Solar Cell Manufacturing Facility at Plot No. A105, A106, A109 Gangaikondan SIPCOT & Survey Nos. 1641pt, 1901pt,

  
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1903pt, 1904pt, 1905pt, 1906pt, 1907pt, 1908, 1909, 1910pt, 1911pt, 1912pt, 1913pt, 1914pt & 1915pt, 1916pt, 1917pt, 1919pt, 1921pt, 1922pt, 1923pt, 1924pt, 1925pt, 1931pt of Gangaikondan Village, Tirunelveli Taluk, Tirunelveli District, Tamil Nadu.

2. The project/activity is covered under Category "B1" of Item 8(b) "Area and Township Development Projects" of the Schedule to the EIA Notification, 2006.
3. The project involves a Plot area of 48.73 Ha with a built-up area of 1,84,176.35 sq.m (Existing – 1,44,308.95 Sq.m & Proposed – 39,867.40 Sq.m). The associated latitudes and longitudes are as follows:

Latitude	Longitude
8°50'53.19"N	77°45'28.32"E
8°50'28.02"N	77°45'50.90"E
8°50'25.26"N	77°45'42.31"E
8°50'21.21"N	77°45'36.42"E
8°50'22.69"N	77°45'35.71"E
8°50'23.31"N	77°45'36.30"E
8°50'29.03"N	77°45'25.10"E
8°50'30.28"N	77°45'24.50"E
8°50'29.69"N	77°45'22.40"E
8°50'43.42"N	77°45'18.93"E
8°50'44.16"N	77°45'20.17"E
8°50'47.62"N	77°45'20.48"E
8°50'47.64"N	77°45'22.39"E
8°50'53.18"N	77°45'23.07"E

4. The total cost of the project is Rs.3754.60 crores.
5. The proponent informed during the meeting that he has already started the process of collecting baseline data.


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

1. The proposal to achieve minimum of IGBC Gold green building norms and shall obtain IGBC certificate.
2. The proponent shall provide justification with evidences that the two units proposed are administratively separate units.
3. The project proponent shall furnish details of similar unit of the proponent located in Bangalore.
4. The proponent shall furnish complete details of toxic and hazardous chemicals/ materials involved in the project, if any.
5. Since Gangaikondan Deer Sanctuary is located near the project site, the proponent shall provide details on the impact of the project activity on the Sanctuary and the relevant conservation measures in consultation with the DFO.
6. The proponent shall conduct a detailed traffic study and the impact of the proposed project on the current traffic and furnish the report.
7. The proponent shall explore the possibilities of providing Affordable Rental Housing Complexes (ARHC) for the workers of the company.
8. The proponent shall explore the possibility of strengthening and beautifying the Gangaikondan lake situated near the project lake under Corporate Environment Responsibility.
9. The proponent shall explore the possibilities of using alternative fuel for DG set such as CNG, etc.
10. At least 25% of the buses used for the transportation of workers should be electrically operated.
11. The proponent shall include the proposal for Corporate Environment Responsibility in the EIA Report. The CER proposal may include providing solar panels, toilet facilities with maintenance, green belt, libraries and laboratories to all the Government schools in Tirunelveli district.

12. At least 50% of the total energy consumption should be met through green/renewable energy sources.
13. The proponent shall explore the possibilities of using food waste from canteen for the generation of biogas.
14. The proponent shall furnish the details of film extraction system used.
15. The proponent shall furnish details of carbon footprint and a detailed action plan to become Net Zero Carbon company.
16. The PP shall explore construction of pond of appropriate size in the earmarked OSR land in consultation with the local body. The pond should be modelled like a temple tank with parapet walls, steps, etc. The pond is meant to play three hydraulic roles, namely (1) as a storage, which acted as insurance against low rainfall periods and also recharges groundwater in the surrounding area, (2) as a flood control measure, preventing soil erosion and wastage of runoff waters during the period of heavy rainfall, and (3) as a structure which was crucial to the overall eco-system.
17. Commitment letter from competent authority for supply of water shall be furnished.
18. Copy of the village map, FMB sketch and "A" register shall be furnished.
19. Detailed Evacuation plan during emergency/natural disaster/untoward accidents shall be submitted.
20. The space allotment for solid waste disposal and sewage treatment & grey water treatment plant shall be furnished.
21. Details of the Solid waste management plan shall be prepared as per solid waste management Rules, 2016 and shall be furnished.
22. Details of the E-waste management plan shall be prepared as per E-waste Management Rules, 2016 and shall be furnished.
23. Details of the rain water harvesting system with cost estimation should be furnished.
24. A detailed storm water management plan to drain out the storm water entering the premises during heavy rains period shall be prepared including main drains

  
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and sub-drains in accordance with the contour levels of the proposed project considering the flood occurred in the year 2015 and also considering the water bodies around the proposed project site & the surrounding development. The storm water drain shall be designed in accordance with the guidelines prescribed by the Ministry of Urban Development.

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

**Agenda No: 444 - 17**

**(File No: 10032/2023)**

**Environmental Clearance accorded to Thiru. K. Kothandan for the Proposed Rough Stone and gravel quarry lease area over an extent of Extent 3.07.5 Ha at S.F. No. 225/1, 2, 8B, 8C, 8D, 241/3H, 31, 5, 6, 7, 8 & 242/9 (P) of Pazhayaseevaram-A Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu – for remarks based on Power Grid letter.**

The proposal was placed in 444<sup>th</sup> SEAC meeting held on 09.02.2024. The details of the

  
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project furnished by the proponent are given in the website (parivesh.nic.in).

**The SEAC noted the following:**

1. The Project Proponent, **Thiru. K. Kothandan** had been accorded **Environmental Clearance vide Lr. No. SEIAA-TN/F.No.10032/1(a)/EC. No: 6184/2023, dated: 07.11.2023** for the Proposed Rough Stone and gravel quarry lease area over an extent of Extent 3.07.5 Ha at S.F. No. 225/1, 2, 8B, 8C, 8D, 241/3H, 3I, 5, 6, 7, 8 & 242/9 (P) of Pazhayaseevaram-A Village, Walajabad Taluk, Kancheepuram District, Tamil Nadu.
2. The project/activity is covered under Category "B2" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
3. Meanwhile, a complaint was received from Power Grid vide Letter dated 04.01.2024 received by O/o SEIAA on 06.01.2024 with certain details called for and action to be taken from SEIAA which inter alia states as below

*".... We request your kind intervention in the matter and arrange to clarify us regarding any such mining permission issued. In case such mining permission is already issued, we request you to kindly consider our plea and cancel such permission so that the national power transmission assets stay protected and don't get affected due to any such blasting / mining activity. A reply clarifying our query would be appreciated."*

Hence, in the view of the above, Authority after detailed deliberation decided that

- (i) The above complaint received from Power Grid shall be forwarded to SEAC and the same shall be examined and furnish the remarks to SEIAA in order to take further course of action.

Based on the above, the subject was placed in 444<sup>th</sup> SEAC meeting held on 09.02.2024.

1. The committee carefully examined the letter received from Power Grid vide Letter dated 04.01.2024 received by O/o SEIAA on 06.01.2024 pointing out amendment made in Central Electricity Authority Notification No. CEA-PS-16/1/2021-CEI Division dt 08.07.2023, Clause 67.
2. In this case, Environmental Clearance has already been issued vide Lr. No. SEIAA-

  
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TN/F.No.10032/1(a)/EC. No: 6184/2023, dated: 07.11.2023.

The SEAC has examined the Conditions stipulated in the prior EC granted to the PP as given below:

- (a) Under Standard Condition, Part – B – General Condition, point no. 16 (Pg. No. 37 of EC)

*"...16) The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities."*

- (b) Further, it has been clearly stated in Conditions imposed by SEAC, point no. 44 (Pg. No. 25 of EC)

*"...44) 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."*

Based on the above, Committee decided that no further action is required to be taken at this stage. However, the SEIAA may communicate to the concerned District Collector where the lease is executed and the Commissioner of Geology & Mining, Chennai for taking the appropriate actions with a copy marked to the office of the Power Grid.

**Agenda No: 444- 18**

**(File No: 10090/2023)**

**Proposed Rough stone quarry lease over an extent of 3.35.0Ha at SF. No. 588(Part) of Alur Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by Thiru. S. Prasanth Kumar - For Environmental Clearance.**

**(SIA/TN/MIN/431139/2023, Dated: 27.05.2023)**

The SEAC noted the following:

1. The Project Proponent, Thiru. S. Prasanth Kumar has applied for Environmental Clearance for the proposed Rough stone quarry lease over an extent of 3.35.0Ha at SF. No. 588(Part) of Alur Village, Hosur Taluk, Krishnagiri District, Tamil Nadu.
2. The proposed quarry/activity is covered under Category "B2" of Item (a)

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

3. Prior EC issued by DEIAA vide Lr.No.03/DEIAA-KGI/Ec.No.86/2018 Dated :27.08.2018.

Earlier, the proposal was placed in 393<sup>rd</sup> meeting of SEAC held on 20.07.2023. Based on the presentation made by the proponent, SEAC noted that there are considerable number of poultry farm houses / structures and few habitations/dwellings within 300 m. Besides, the proposed quarrying site is also an elevated mound with agricultural activities all around. Hence, the Committee noted that the proposed rough stone quarrying operation in this area will also affect the waterflow direction & volume coming from such elevated places. **Hence the Committee decided not to recommend the proposal.**

Subsequently, the proposal was placed in the 643<sup>rd</sup> Authority meeting held on 01.08.2023. The Authority noted that this proposal was placed for appraisal in 393<sup>rd</sup> meeting of SEAC held on 20.07.2023 and the Committee has not recommended the proposal. In view of the above, SEIAA accepts the decision of SEAC and granted rejection letter vide No SEIAA – TN / F. No 10090/2023 dated on 07.08.2023 to the proponent and the Authority rejected, closed and recorded the file.

Meanwhile, the project proponent has resubmitted the file requesting for re-appraisal of file before SEIAA-TN vide letter dated on 23.08.2023. In view of the above, it was informed to the project proponent that the rejected proposals will not be re-considered for appraisal at SEIAA/ Tamil Nadu vide letter No SEIAA – TN /F.No.10090/2023 dated on 19.09.2023.

Under these circumstances, the PP approached the NGT court against the decision of SEAC/SEIAA – TN and obtained order dated stating that,

*“.....We are of the view that the impugned order dated 07.08.2023 and subsequent rejection order dated 19.09.2023 are set aside and the matter is remitted back to the 1<sup>st</sup>*

  
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*respondent for fresh consideration of the proposal and pass appropriate order by granting a opportunity of personal hearing to the appellant”.*

Now, the PP has requested for re-appraisal of file vide letter dated 10.01.24 stating NGT (SZ) court order (Appeal No. 36 of 2023). The request was placed in the 689<sup>th</sup> Authority meeting held on 12.01.2024.

In the view of the above, Authority after detailed deliberation decided to forward the court direction to SEAC further course of action and direction.

**Now the proposal was placed in the 444<sup>th</sup> SEAC Meeting held on 09.02.2024.** Based on the presentation and details furnished by the project proponent, **SEAC decided to defer and call for additional particulars as follows,**

1. The PP shall carry out the field studies involving any one of the Govt reputed Research Institutes – NGCM Lab, GSI-Southern Unit, Chennai; Department of Environmental and Agricultural Sciences, Tamil Nadu Agricultural University, Coimbatore and CSIR-NML, Chennai regarding the following areas:
  - (i) impact of proposed mining activities on the surroundings including the assessment of health risk caused by geogenic and anthropogenic reasons for the management of health issues within 1 km radius from the existing quarry.
  - (ii) The PP shall furnish a comprehensive study report on the impact of proposed mining activity on fauna & flora in nearby areas.
  - (iii) To enumerate agricultural activities within 1km radius of the proposed activity and the implication of mining activities on Agriculture by determining the presence of Macro Nutrient and Micro Nutrients **before and after** the commencement of quarrying operations.
  - (iv) The PP shall furnish a report on Geo-environmental assessment of soil, surface water and groundwater contamination of the area exists within 1 km radial distance from the lease boundary.
  - (v) The PP shall carry out the evaluation of Environmental impacts caused due to mining, transportation of the mined material and around the

  
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informal dumping and to evaluate the sediment / soil, water quality through chemical data values.

2. The PP shall report on exact distance from the proposed site to the outer limit of nearest habitations / village using DGPS along with ground truthing.
3. The PP shall submit Certified Compliance Report obtained from the office of the concerned DEE/TNPCB (or) IRO, MoEF & CC, Chennai and the PP shall furnish appropriate mitigating measures for the non-compliance items, if any.
4. The PP shall also furnish quantity excavated details and pit letter from the concerned AD (Mines) with shown in the revised mining plan duly approved by the competent authority.
5. The PP shall furnish the Mining Plan duly approved by the competent authority with the bench geometry & the corresponding volume of excavation in accordance with the provisions of MMR 1961.

**Agenda No: 444-19**

**(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 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.

Earlier, the proposal was placed in 400<sup>th</sup> meeting of SEAC held on 11.08.2023. 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

  
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- quarry. Further, 1800 students are staying in the college hostel.
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 its 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.

Subsequently, the proposal was placed in the 651st Authority meeting held on 30.08.2023. The Authority noted that this proposal was placed for appraisal in 400<sup>th</sup> meeting of SEAC held on 11.08.2023 and the Committee has not recommended the proposal. In view of the above, SEIAA accepts the decision of SEAC and granted rejection letter vide Letter. No SEIAA – TN / F. No.9134/RL/2022 dated on 07.09.2023 to the proponent and the Authority rejected, closed and recorded the file.

Meanwhile, the project proponent has resubmitted the file requesting for re-appraisal of file before SEIAA-TN vide letter dated on 16.09.2023. In view of the above, it was informed to the project proponent that the rejected proposals will not be re-considered

  
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for appraisal at SEIAA/ Tamil Nadu vide letter No. SEIAA-TN F.No.9134/RA/2022 dated 06.10.2023.

Under these circumstances, the PP approached the NGT court against the decision of SEAC/SEIAA – TN and obtained order dated stating that,

*“..... In such circumstances, without going into further details on merits, we are inclined to set aside the order passed by the SEIAA - Tamil Nadu dated 07.09.2023 and 06.10.2023 and remit the matter back to the SEIAA Tamil Nadu for fresh - consideration.*

*Accordingly, the impugned orders are set aside and remitted back to the SEIAA - Tamil Nadu to consider the proposal of the appellant dated 22.05.2023 within a period of (1) One month”.*

Based on the NGT court order (SZ) (Appeal No.40 of 2023), the proposal was placed in the 689th Authority meeting held on 12.1.24.

In the view of the above, Authority after detailed deliberation decided to forward the court direction to SEAC further course of action and direction.

**Now the proposal was placed in the 444<sup>th</sup> SEAC Meeting held on 09.02.2024.** Based on the presentation and details furnished by the project proponent, **SEAC decided to** make an on-spot inspection to assess the present status of the site by the sub-committee constituted by the SEAC. The sub-committee shall study actual field conditions, independently discuss with owners of fireworks, stake holders etc., The sub-committee shall give a minimum of 10 days' notice to the PP. The PP and EIA co-ordinator should be available during the aforesaid inspection with all relevant documents & reports.

**Agenda No: 444-20**

**(File No:10317/2023)**

**Proposed Rough Stone and Gravel quarry over an extent of 2.29.5 Ha in S.F.No. 271/6, 272/2(P), 272/3 & 272/4(P) of Thoppampalayam Village, Sathyamangalam Taluk, Erode District, Tamil Nadu by Thiru. N. Thangavel - for Environmental Clearance. (SIA/TN/MIN/440129/2023, dated: 11.08.2023).**

The proposal was placed in the 444<sup>th</sup> Meeting of SEAC held on 09.02.2024. The

  
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SEAC noted that the project proponent has not attended the meeting and the project proponent vide email dated 09.02.2024 stating his inability to attend the meeting on the aforesaid date. Hence the subject was not taken up for discussion.

**Agenda No: 444-21**

**(File No: 9261/2022)**

**Proposed Rough Stone quarry lease area over an extent of 2.50.0 Ha (Government Poramboke land) at S.F.No. 603/1 (Part-A) of Panchakshipuram Village, Hosur Taluk, Krishnagiri District, Tamil Nadu by M/s. S.S.V Blue Metals - For Environmental Clearance. (SIA/TN/MIN/447176/2023, Dated: 09.10.2023)**

The proposal was placed for appraisal in this 444<sup>th</sup> meeting of SEAC held on 09.02.2024. The details of the project furnished by the proponent are given in the website (parivesh.nic.in). **The SEAC noted the following:**

1. The project proponent, M/s. S.S.V Blue Metals has applied for Environmental Clearance for the Proposed Rough Stone quarry lease area over an extent of 2.50.0 Ha (Government Poramboke land) at S.F.No. 603/1 (Part-A) of Panchakshipuram Village, Hosur Taluk, Krishnagiri District.
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 1,84,060 m<sup>3</sup> of Rough Stone for an ultimate depth of 91m (5m AGL + 86m BGL).
4. ToR along with Public Hearing issued vide Lr No. SEIAA-TN/F.No.9261/ToR-1204/2022 Dated: 14.07.2022
5. Public hearing conducted on 24.07.2023
6. EIA Report submitted on 13.10.2023
7. During the appraisal, the PP has furnished an affidavit stating that the college premise situated at a distance of 430 m from the mine lease boundary is not functioning presently.
8. Earlier, the proposal was placed for appraisal in the 421<sup>st</sup> meeting of SEAC

  
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held on 08.11.2023. 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 1,09,940 m<sup>3</sup> of Rough Stone by maintaining the ultimate depth of mining upto 46m (5m AGL + 41m 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 specific conditions stated therein.

9. Subsequently, the subject was placed in the 676<sup>th</sup> authority meeting held on 28.11.2023. The authority noted that the subject was appraised in the 421<sup>st</sup> SEAC meeting held on 08.11.2023. SEAC has furnished its recommendations for granting Environmental Clearance subject to the conditions stated therein.

After detailed discussions, the Authority in its meeting dated 28.11.2023, taking into account the recommendations of SEAC and also the safety aspects and to ensure sustainable, scientific and systematic mining, decided to grant Environmental Clearance for the quantity of **3,75,930 m<sup>3</sup> of Rough Stone up to the ultimate depth of 46m (5m AGL + 41m BGL)** and the annual peak production should not exceed **1,09,940 m<sup>3</sup> of Rough Stone**. This is also subject to the conditions imposed by SEAC, normal conditions stipulated by MOEF&CC in addition to the conditions stated therein and the conditions in Annexure 'A' of this minutes.

10. The subject was again placed in the 689<sup>th</sup> authority meeting held on 12.01.2024.

After detailed discussion, the authority noted as follows:

- i. Meanwhile, W.P. No. 33990 of 2023 was filed by the petitioner Thiru.S.Ramesh and Thiru.N.Venkatesamy in the Hon'ble High Court of Madras and the Writ Petition Affidavit copy received vide this office mail dated 08.12.2023. The petitioner has raised the complaint against M/s. S.S.V Blue Metals represented by Proprietor Thiru. R. Rajasekaran, Panchakshipuram Village, Hosur Taluk, Krishnagiri District. Hence, the issue of Environmental Clearance has been put on hold.

  
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- ii. In this regard, Counter Affidavit was filed in the Hon'ble High Court of Madras, dated 11.01.2024.

In view of the above, the Authority decided to refer back the proposal to SEAC to furnish the remarks.

During the meeting, the Project Proponent has stated that he has not received the copy of Affidavit for W.P. No. 33990 of 2023 filed by Petitioner in which he has been Respondent No. 7. The Committee decided that the copy of Affidavit in the file may be communicated to PP. The PP was instructed to furnish his reply for the Writ Petition Affidavit. Hence, SEAC decided to defer the proposal and take it up in the ensuing meeting.

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## ANNEXURE-I

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

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

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

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

1. The proponent shall mandatorily appoint the statutory competent persons and commence the quarry operations within the purview of Mines Act 1952.
2. The proponent shall erect fencing all around the boundary of the proposed area with gates for entry/exit before the commencement of the operation and shall furnish the photographs/map showing the same before obtaining the CTO from TNPCB.
3. Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required in connection with the concerned Govt. Authority.
4. The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation. No change in basic mining proposal shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form of Short-Term Permit (STP), Query license or any other name.
5. Perennial sprinkling arrangement shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals.
6. The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures undertaken accordingly.
7. Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology to be adopted by considering the wind direction.

  
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8. The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics.
9. Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.
10. **Noise and Vibration Related:** (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (iii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.
11. The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.
12. The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.
13. The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per

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

14. To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.
15. The Project Proponent shall comply with the provisions of the Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitants.
16. The project proponent shall ensure that the provisions of the MMDR Act, 1957, the MCDR 2017 and Tamilnadu Minor Mineral Concession Rules 1959 are complied by carrying out the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.
17. The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) by the proponent without fail.
18. The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
19. Prior clearance from Forestry & Wild Life including clearance from committee of the National Board for Wildlife as applicable shall be obtained before starting the quarrying operation, if the project site attracts the NBWL clearance, as per the existing law from time to time.
20. All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the

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

21. That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.
22. The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
23. As per the MoEF& CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere EMP furnished.


  
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### ROUGH STONE/JELLY/BLUE METAL QUARRY

- 1) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 2) The Project Proponent shall abide by the annual production scheduled specified in the approved mining plan and if any deviation is observed, it will render the Project Proponent liable for legal action in accordance with Environment and Mining Laws.
- 3) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 4) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry including all the contractual employees/truck drivers shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy / Salem / Hosur.
- 5) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geo-tagged photographs of the process should be included in the HYCR.
- 6) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 7) The proponent shall install the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular,

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

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



- 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.

  
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- 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.


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

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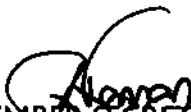
SPECIAL MITIGATION MEASURES FOR THE QUARRIES LOCATED IN CLOSE PROXIMITY TO THE WINDMILLS		
Sl. No	Existing (or) Virgin Quarry	
	Wind Mills located at a distance of 150 m to 300 m	Wind Mills located beyond 300 m Up to 500 m
1.	Appointment of I/II Class Mines Manager Certificate of Competency under MMR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

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

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

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

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



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

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

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

  
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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, murram and other construction materials prone to causing dust pollution at the site as well as taking out debris from the site.
5. Sand, murram, loose soil, cement, stored on site should be covered adequately so as to prevent dust pollution.
6. Wet jet shall be provided for grinding and stone cutting.

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

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

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



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

  
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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

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

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

**6. Waste Management:**


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

  
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5. All non-biodegradable waste shall be handed over to authorized recyclers for which a written tie up must be done with the authorized recyclers.
  6. Any hazardous waste generated during construction phase shall be disposed of as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
  7. Use of environmentally friendly materials in bricks, blocks and other construction materials, shall be required for at least 20% of the construction material quantity. These include Fly Ash bricks, hollow bricks, AACs, Fly Ash Lime Gypsum blocks, Compressed earth blocks, and other environmentally friendly materials.
  8. Fly ash should be used as building material in the construction as per the provision of Fly Ash Notification of September 1999 and amended from time to time. Ready mixed concrete must be used in building construction.
  9. Any wastes from construction and demolition activities related thereto shall be managed to strictly conform to the Construction and Demolition Rules, 2016.
  10. Used CFLs and TFLs should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/ rules of the regulatory authority to avoid mercury contamination.
- 7. Green Cover:**
1. No tree can be felled/transplant unless exigencies demand. Where absolutely necessary, tree felling shall be with prior permission from the concerned regulatory authority. Old trees should be retained based on girth and age regulations as may be prescribed by the Forest Department. Plantations to be ensured species (cut) to species (planted).
  2. A minimum of 1 tree for every 80 sqm of land should be planted and maintained. The existing trees will be counted for this purpose. The landscape planning should include plantation of native species. The species with heavy foliage, broad leaves and wide canopy cover are desirable. Water intensive and/or invasive species should not be used for landscaping.

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

**8. Transport:**

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

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

**9. Human Health Issues:**

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


**10. Corporate Environment Responsibility:**

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


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

**11. Miscellaneous:**

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

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

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

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

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

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Asyle marmelos</i>	Vilvam	விவம்
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சள், ஆனந்தவல்லி
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathi	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவத்தி
8	<i>Buchanania axillaris</i>	Kattuma	கட்டும்
9	<i>Borassus flabellifer</i>	Panai	பனை
10	<i>Butea monosperma</i>	Murukkamaram	முருக்கமரம்
11	<i>Bobax caba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Serakondrai	சர்க்காந்தை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்காந்தை
15	<i>Chloroxylon sweitenia</i>	Purasamaram	பூசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Marjallavu	கோங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவூலி
18	<i>Creteva adansoni</i>	Mavalingum	மாவலிங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உவா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உவா
21	<i>Diospyro sebenum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகை
23	<i>Ficus amplissima</i>	Kallichi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aahrupoovarasu	அஹ்ரூப்புவரசு
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயில் மரம், ஆயிலி
27	<i>Lannea coromandelica</i>	Odham	ஒதம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottaimaram	நெய் கொட்டை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விலா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	அரும்பு, பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Iluppai	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	ஈச்சமரம்
39	<i>Bongania pinnat</i>	Pungam	பங்கம்

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40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narumunnai	நடு முன்னை
42	<i>Premna tomentosa</i>	Malaiipoovarasu	மலை பூவரசு
43	<i>Prosopis cinerea</i>	Vanni maram	வன்னி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வேண்டாங்கு
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	மணிப்புங்கன் சோபுகாய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Strobilus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	யெட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேர்த்நாள் கோட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தாந்தரி
56	<i>Terminalia arjuna</i>	Ven marudhu	வேன் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	பூவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்குரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கோடுக்கப்பூரி

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